**ANEXO G -** Tabela S3 – Medidas estatísticas extraídas dos artigos avaliados e equivalente r de Pearson.

| Fonte | Efeito | AUC | D | F | R² | T | χ² | N | p | r de Pearson |
|---|---|---|---|---|---|---|---|---|---|---|
| Ackley et al., 2015 | negative | 0.84 | - | - | - | - | - | - | - | 0.575 |
| Ackley et al., 2015 | negative | 0.928 | - | - | - | - | - | - | - | 0.719 |
| Ackley et al., 2015 | positive | 0.995 | - | - | - | - | - | - | - | 0.877 |
| Ackley et al., 2015 | negative | - | - | - | - | - | - | - | <0.01 | 0.910 |
| Aguado & Braña, 2014 | negative | - | 1.4244 | - | 0.216 | - | - | - | - | 0.465 |
| Alvarez et al., 2017 | neutral | - | - | - | 0.065 | - | - | - | 0.812 | 0.255 |
| Alvarez et al., 2017 | neutral | - | - | - | 0.079 | - | - | - | 0.133 | 0.281 |
| Alvarez et al., 2017 | negative | - | - | - | 0.114 | - | - | - | 0.033 | 0.338 |
| Alvarez et al., 2017 | negative | 0.81 | - | - | - | - | - | - | - | 0.527 |
| Alvarez et al., 2017 | negative | 0.922 | - | - | - | - | - | - | - | 0.708 |
| Alvarez et al., 2017 | negative | 0.922 | - | - | - | - | - | - | - | 0.708 |
| Amiel and Shine, 2012 | positive | 0.758 | - | - | - | - | - | - | - | 0.443 |
| Amiel et al., 2016 | positive | 0.983 | 3.1042 | - | - | - | - | - | - | 0.832 |
| Andrango et al., 2016 | negative | - | - | - | - | - | 19.93 | 50 | <0.01 | 0.631 |
| Andrews and Schwarkopf, 2012 | neutral | 0.997 | - | - | - | - | - | - | - | 0.889 |
| Aragón et al., 2010 | negative | 0.818 | 1.5981 | - | - | - | - | - | - | 0.540 |
| Aragón et al., 2010 | positive | 0.943 | 2.3994 | - | - | - | - | - | - | 0.745 |
| Artacho et al., 2017 | negative | - | 0.6837 | - | - | -2.43 | - | 17 | 0.045 | -0.532 |
| Artacho et al., 2017 | positive | - | 0.7242 | - | - | - | - | - | 0.006 | -0.675 |
| Aubret & Shine, 2010 | neutral | 0.731 | 1.3207 | - | - | - | - | - | - | 0.399 |
| Barrows and fisher, 2014 | neutral | - | 0 | - | - | -4.93 | - | 145 | <0.001 | -0.381 |
| Barrows and fisher, 2014 | neutral | - | - | 6.2 | - | - | - | 146 | 0.022 | 0.202 |
| Barrows, 2011 | neutral | - | - | - | - | - | - | - | - | 0.394 |
| Basson et al., 2016 | positive | - | 1.8928 | - | - | - | - | - | - | 0.570 |
| Basson et al., 2016 | negative | - | 2.0128 | - | 0.34 | - | - | - | - | 0.583 |
| Belasen et al., 2016 | negative | - | 0.301 | 14.14 | - | - | - | 93 | 0.003 | 0.363 |
| Belasen et al., 2016 | negative | - | 0.3146 | 16.38 | - | - | - | 93 | 0.002 | 0.387 |
| Bell et al., 2010 | negative | 0.994 | 0.0471 | - | - | - | - | - | - | 0.871 |
| Bell et al., 2013 | neutral | - | 0.083 | 3.98 | - | - | - | 20 | 0.008 | 0.407 |
| Bell et al., 2013 | negative | - | 0.1149 | 4.537 | - | - | - | 50 | 0.014 | 0.288 |
| Bell et al., 2013 | negative | - | - | 5.76 | - | - | - | 50 | 0.02 | 0.321 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Besson and Cree, 2010 | neutral | - | 1.1983 | - | 0.094 | - | - | - | 0.019 | 0.306 |
| Bestion et al., 2015 | negative | - | - | - | - | 2.36 | - | 18 | <0.05 | 0.508 |
| Bestion et al., 2015 | negative | - | - | 50.59 | - | - | - | 21 | <0.01 | 0.841 |
| Bestion et al., 2015 | neutral | - | - | - | - | -1.81 | - | 184 | 0.11 | -0.133 |
| Bestion et al., 2015 | positive | - | - | - | - | - | - | - | <0.001 | -0.770 |
| Bestion et al., 2015 | neutral | - | - | - | - | - | - | - | 0.01 | -0.547 |
| Bestion et al., 2015 | negative | - | - | - | - | - | - | - | >0.1 | 0.070 |
| Bestion et al., 2015 | negative | - | - | - | - | - | - | - | >0.1 | 0.290 |
| Bestion et al., 2015 | negative | 0.79 | - | - | - | - | - | - | - | 0.495 |
| Bestion et al., 2015 | positive | 0.978 | - | - | - | - | - | - | - | 0.818 |
| Bezeng et al , 2017 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Bohm et al., 2016 | negative | - | - | - | - | - | - | - | <0.0001 | -0.855 |
| Böhm et al., 2016 | negative | 0.82 | - | - | - | - | - | - | - | 0.543 |
| Bombi et al., 2011 | negative | - | - | - | - | - | - | - | >0.1 | 0.340 |
| Bombi et al., 2011 | negative | - | - | - | 0.152 | - | - | - | - | 0.390 |
| Bonino et al., 2014 | positive | 0.939 | - | - | - | - | - | - | - | 0.738 |
| Bonino et al., 2014 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Bonino et al., 2014 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Bonino et al., 2014 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Bonino et al., 2014 | negative | 0.965 | - | - | - | - | - | - | - | 0.788 |
| Bonino et al., 2014 | positive | 0.97 | - | - | - | - | - | - | - | 0.799 |
| Bonino et al., 2014 | negative | 0.976 | - | - | - | - | - | - | - | 0.813 |
| Bonino et al., 2014 | negative | - | - | - | - | - | - | - | <0.0001 | 0.815 |
| Bonino et al., 2014 | positive | 0.978 | - | - | - | - | - | - | - | 0.818 |
| Bonino et al., 2014 | positive | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Bonino et al., 2014 | negative | 0.99 | - | - | - | - | - | - | - | 0.855 |
| Bonino et al., 2014 | positive | 0.991 | - | - | - | - | - | - | - | 0.858 |
| Bonino et al., 2014 | negative | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Bonino et al., 2014 | positive | 0.996 | - | - | - | - | - | - | - | 0.882 |
| Bonino et al., 2015 | negative | - | - | 6.27 | - | - | - | 7 | <0.05 | 0.687 |
| Bonino et al., 2015 | neutral | - | - | 12.62 | - | - | - | 20 | <0.001 | 0.622 |
| Bonino et al., 2015 | positive | - | - | 9628 | 0.59 | - | - | 23 | <0.0001 | 0.768 |
| Bonino et al., 2015 | positive | - | - | 72.03 | - | - | - | 138 | <0.001 | 0.586 |
| Bonino et al., 2015 | positive | - | - | 213.829 | - | - | - | 381 | <0.001 | 0.600 |
| Bonino et al., 2015 | neutral | - | - | 61.364 | - | - | - | 454 | <0.001 | 0.345 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Bonino et al., 2015 | negative | - | - | 24.77 | - | - | - | 460 | 0.0001 | 0.226 |
| Bonino et al., 2015 | negative | - | - | - | - | - | - | - | <0.0001 | -0.744 |
| Brischoux et al., 2016 | negative | - | 0.519 | 176.79 | - | - | - | 151 | <0.0001 | 0.734 |
| Brischoux et al., 2016 | negative | - | 0.5675 | 69 | - | - | - | 5280 | <0.0001 | 0.095 |
| Buckley et al., 2015 | neutral | - | 0.0447 | 6.7 | - | - | - | 24 | 0.018 | 0.467 |
| Buckley et al., 2015 | positive | - | 0.1523 | 3.874 | - | - | - | 100 | 0.004 | 0.193 |
| Bull and Burzacott, 2002 | negative | - | - | 0.15 | - | - | - | 10 | 0.71 | 0.122 |
| Bull and Burzacott, 2002 | negative | - | - | 0.16 | - | - | - | 70 | 0.689. | 0.048 |
| Bull and Burzacott, 2002 | negative | - | - | 0.06 | 0.012 | - | - | 682 | 0.013 | 0.110 |
| Cabrelli & Hughes, 2015 | negative | - | - | - | - | - | - | 9 | 0.012 | 0.780 |
| Cabrelli & Hughes, 2015 | neutral | 0.957 | - | - | - | - | - | - | - | 0.772 |
| Cabrelli & Hughes, 2015 | neutral | - | - | - | - | - | - | - | <0.001 | 0.774 |
| Cabrelli & Hughes, 2015 | positive | 0.96 | - | - | - | - | - | - | - | 0.778 |
| Cabrelli & Hughes, 2015 | positive | 0.96 | - | - | - | - | - | - | - | 0.778 |
| Cabrelli & Hughes, 2015 | negative | 0.96 | - | - | - | - | - | - | - | 0.778 |
| Cabrelli & Hughes, 2015 | negative | 0.96 | - | - | - | - | - | - | - | 0.778 |
| Cabrelli & Hughes, 2015 | negative | 0.96 | - | - | - | - | - | - | - | 0.778 |
| Cabrelli & Hughes, 2015 | negative | 0.961 | - | - | - | - | - | - | - | 0.780 |
| Cabrelli & Hughes, 2015 | negative | 0.961 | - | - | - | - | - | - | - | 0.780 |
| Cabrelli & Hughes, 2015 | negative | 0.961 | - | - | - | - | - | - | - | 0.780 |
| Cabrelli & Hughes, 2015 | negative | 0.962 | - | - | - | - | - | - | - | 0.782 |
| Cabrelli & Hughes, 2015 | negative | 0.962 | - | - | - | - | - | - | - | 0.782 |
| Cabrelli & Hughes, 2015 | positive | 0.963 | - | - | - | - | - | - | - | 0.784 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli & Hughes, 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Cabrelli et al., 2014 | negative | - | - | - | - | - | 12.16 | 18 | <0.001 | 0.822 |
| Cabrelli et al., 2014 | positive | 0.978 | - | - | - | - | - | - | - | 0.818 |
| Cabrelli et al., 2014 | negative | 0.978 | - | - | - | - | - | - | - | 0.818 |
| Cabrelli et al., 2014 | negative | 0.978 | - | - | - | - | - | - | - | 0.818 |
| Cabrelli et al., 2014 | positive | - | - | - | 0.67 | - | - | - | <0.0001 | 0.819 |
| Cabrelli et al., 2014 | positive | 0.979 | - | - | - | - | - | - | - | 0.821 |
| Cabrelli et al., 2014 | negative | 0.979 | - | - | - | - | - | - | - | 0.821 |
| Cabrelli et al., 2014 | neutral | 0.979 | - | - | - | - | - | - | - | 0.821 |
| Cabrelli et al., 2014 | positive | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cabrelli et al., 2014 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Cadby et al., 2010 | negative | - | - | 1.25 | - | - | - | 10 | 0.3 | 0.333 |
| Cadby et al., 2010 | negative | - | - | - | - | -7.15 | - | 21 | <0.001 | -0.854 |
| Cadby et al., 2010 | neutral | - | - | 0.02 | - | - | - | 36 | 0.98 | 0.024 |
| Cadby et al., 2010 | neutral | - | - | 0.1 | - | - | - | 36 | 0.74. | 0.053 |
| Cadby et al., 2010 | neutral | - | - | - | - | -6.2 | - | 93 | 0.0001 | -0.545 |
| Cadby et al., 2010 | negative | - | - | 0.05 | - | - | - | 100 | 0.83 | 0.022 |
| Cadby et al., 2010 | negative | - | - | 1.38 | - | - | - | 151 | 0.253 | 0.095 |
| Cadby et al., 2010 | neutral | - | - | 0.37 | - | - | - | 215 | 0.7 | 0.041 |
| Cadby et al., 2010 | neutral | - | - | 26.18 | - | - | - | 224 | <0.0001 | 0.323 |
| Cadby et al., 2010 | negative | - | - | 6.209 | - | - | - | 251 | <0.001 | 0.155 |
| Cadby et al., 2010 | positive | - | - | 1.734 | - | - | - | 528 | P<0.1 | 0.057 |
| Cadby et al., 2010 | positive | - | - | 930.206 | - | - | - | 741 | <0.001 | 0.746 |
| Caldwell et al., 2015 | negative | - | 0.6324 | 3892.06 | - | - | - | 154 | <0.001 | 0.981 |
| Caldwell et al., 2015 | negative | 0.776 | 1.4694 | - | - | - | - | - | - | 0.473 |
| Capula et al., 2014 | neutral | - | - | 0.37 | 0.16 | - | - | 16 | 0.604 | 0.400 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Capula et al., 2014 | neutral | - | - | 0.41 | - | - | - | 24 | 0.53 | 0.130 |
| Capula et al., 2014 | neutral | - | - | - | - | 2.23 | - | 184 | 0.03 | 0.163 |
| Capula et al., 2014 | negative | - | - | - | 0.01 | - | - | - | 0.51 | 0.100 |
| Capula et al., 2014 | negative | 0.945 | - | - | - | - | - | - | - | 0.749 |
| Capula et al., 2015 | positive | 0.976 | - | - | - | - | - | - | - | 0.813 |
| Carlo et al , 2017 | negative | - | 0.5549 | - | - | -1.27 | - | 21 | 0.22 | -0.280 |
| Carlo et al , 2017 | negative | - | 0.7288 | - | - | -1.16 | - | 35 | 0.254 | -0.198 |
| Carlo et al , 2017 | negative | - | 0.7799 | - | - | -0.62 | - | 35 | 0 | -0.107 |
| Carlo et al , 2017 | negative | - | 0.8013 | - | - | -8.45 | - | 207 | <0.001 | -0.508 |
| Carlo et al , 2017 | neutral | - | 0.8394 | 125.517 | - | - | - | 454 | <0.001 | 0.465 |
| Carlo et al , 2017 | negative | - | 1.0183 | - | - | - | 10.72 | 460 | 0.0001 | 0.153 |
| Carlo et al , 2017 | negative | - | 2.1623 | - | 0.391 | - | - | - | <0.001 | 0.625 |
| Carlo et al , 2017 | neutral | 0.996 | 4.3436 | - | - | - | - | - | - | 0.882 |
| Carlo et al , 2017 | negative | - | 12.9116 | - | 0.971 | 64.099 | - | - | <0.001 | 0.985 |
| Ceia-Hasse et al., 2014 | negative | 0.79 | - | - | - | - | - | - | - | 0.495 |
| Ceia-Hasse et al., 2014 | negative | 0.818 | - | - | - | - | - | - | - | 0.540 |
| Chamaillé-Jammes et al., 2006 | neutral | - | 0.0788 | 4.4 | - | - | - | 24 | 0.047 | 0.394 |
| Chamaillé-Jammes et al., 2006 | negative | - | 0.0973 | 6.128 | - | - | - | 24 | 0.002. | 0.451 |
| Chamaillé-Jammes et al., 2006 | positive | - | 0.1146 | 4.89 | - | - | - | 59 | 0.011 | 0.277 |
| Chamaillé-Jammes et al., 2006 | positive | - | 0.1339 | 6.94 | - | - | - | 148 | 0.008 | 0.212 |
| Chamaillé-Jammes et al., 2006 | negative | - | 0.1548 | 6.87 | - | - | - | 154 | 0.004 | 0.207 |
| Chamaillé-Jammes et al., 2006 | negative | - | 0.1707 | 7.04 | - | - | - | 154 | 0.001 | 0.209 |
| Chamaillé-Jammes et al., 2006 | negative | - | 0.1746 | 5.686 | - | - | - | 251 | <0.004 | 0.149 |
| Chamaillé-Jammes et al., 2006 | positive | - | 0.1914 | 7.81 | - | - | - | 1608 | 0.002 | 0.070 |
| Chamaillé-Jammes et al., 2006 | neutral | - | 1.3714 | - | - | - | - | - | 0.04 | 0.441 |
| Chamaillé-Jammes et al., 2006 | negative | 0.787 | 1.4983 | - | - | - | - | - | - | 0.490 |
| Chamaillé-Jammes et al., 2006 | negative | 0.831 | 1.8179 | - | - | - | - | - | - | 0.561 |
| Chamaillé-Jammes et al., 2006 | negative | 0.934 | 2.2408 | - | - | - | - | - | - | 0.729 |
| Clarke & Zani, 2012 | positive | - | 0.5758 | 205.73 | - | - | - | 249 | <0.001 | 0.673 |
| Cunningham et al., 2017 | neutral | - | - | 4.8 | - | - | - | 24 | 0.04 | 0.408 |
| Cunningham et al., 2017 | neutral | - | - | 13 | - | - | - | 24 | <0.001 | 0.593 |
| Cunningham et al., 2017 | negative | - | - | 4.084 | - | - | - | 50 | 0.028 | 0.275 |
| Cunningham et al., 2017 | negative | - | 0.0956 | 2.18 | - | - | - | 151 | 0.071 | 0.119 |
| Cunningham et al., 2017 | negative | - | 0.2821 | 4.343 | - | - | - | 299 | 0.038 | 0.120 |
| Cunningham et al., 2017 | neutral | - | 0.966 | - | 0.005 | - | - | - | 0.316 | 0.071 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Davis et al., 2015 | negative | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Dayananda and Webb, 2017 | neutral | - | 0.0305 | 3.59 | - | - | - | 10 | 0.01 | 0.514 |
| Dayananda and Webb, 2017 | negative | - | 0.2402 | - | - | - | 4.556 | 52 | <0.05 | 0.296 |
| Dayananda and Webb, 2017 | negative | - | 0.2659 | 12.35 | - | - | - | 93 | 0.004 | 0.342 |
| Dayananda and Webb, 2017 | negative | - | 0.3155 | 16.45 | - | - | - | 154 | <0.001 | 0.311 |
| Dayananda and Webb, 2017 | neutral | - | 0.6779 | 9.27 | - | - | - | 274 | <0.0001 | 0.181 |
| Dayananda and Webb, 2017 | negative | - | 0.8006 | - | - | - | - | - | 0.032 | -0.710 |
| Dayananda and Webb, 2017 | negative | - | 0.8286 | - | - | - | - | - | >0.1 | -0.200 |
| Dayananda and Webb, 2017 | negative | - | 1.1678 | - | - | - | - | - | 0.287 | -0.147 |
| Dayananda and Webb, 2017 | negative | 0.742 | 1.3361 | - | - | - | - | - | - | 0.417 |
| Dayananda et al., 2017 | negative | - | - | - | 0.213 | - | - | - | - | 0.462 |
| Dayananda et al., 2017 | negative | 0.981 | - | - | - | - | - | - | - | 0.826 |
| DeGregorio et al., 2015 | positive | - | 0.3309 | 17.43 | - | - | - | 12 | 0.03 | 0.770 |
| DeGregorio et al., 2015 | positive | - | 0.3936 | 26.86 | 0.51 | - | - | 148 | <0.0001 | 0.710 |
| Doody et al , 2006 | negative | - | - | - | 0.269 | - | - | - | - | 0.519 |
| Doody et al , 2007 | positive | - | - | - | - | - | 0.002 | 4266 | 0.967 | 0.001 |
| Doody et al , 2008 | negative | 0.936 | - | - | - | - | - | - | - | 0.733 |
| Dubey & Shine, 2011 | negative | - | 0.1054 | 19.19 | - | - | - | 43 | <0.0001 | 0.555 |
| Dubey & Shine, 2011 | negative | - | 0.1054 | 5.18 | - | - | - | 154 | 0.007 | 0.180 |
| Dubey & Shine, 2011 | negative | - | 0.3543 | 5.27 | - | - | - | 97,494 | 0.03 | 0.007 |
| Dubey et al., 2013 | positive | 0.985 | - | - | - | - | - | - | - | 0.838 |
| Dubey et al., 2013 | negative | 0.986 | - | - | - | - | - | - | - | 0.841 |
| Dubey et al., 2013 | positive | 0.988 | - | - | - | - | - | - | - | 0.847 |
| Dubey et al., 2013 | negative | - | - | - | 0.72 | - | - | - | - | 0.849 |
| Dubey et al., 2013 | neutral | 0.989 | - | - | - | - | - | - | - | 0.851 |
| Dubey et al., 2013 | negative | 0.989 | - | - | - | - | - | - | - | 0.851 |
| Dubey et al., 2013 | negative | 0.989 | - | - | - | - | - | - | - | 0.851 |
| DuBois et al., 2017 | negative | - | 0.3098 | 14.93 | - | - | - | 93 | 0.008 | 0.372 |
| Dupuoé et al., 2017 | negative | - | - | - | - | - | 0.96 | 18 | 0.326 | 0.231 |
| Dupuoé et al., 2017 | negative | - | - | 0.007 | - | - | - | 106 | 0.827 | 0.008 |
| Dupuoé et al., 2017 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| El-Gabbas et al., 2016 | negative | - | - | - | - | 1.73 | - | 14 | 0.1 | 0.447 |
| El-Gabbas et al., 2016 | positive | - | - | - | - | - | 6.74 | 18 | 0.009 | 0.612 |
| El-Gabbas et al., 2016 | negative | - | - | - | - | - | 8.8 | 24 | 0.003. | 0.606 |
| El-Gabbas et al., 2016 | negative | - | - | - | - | - | 16.59 | 36 | <0.0001 | 0.679 |

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|---|---|---|---|---|---|---|---|---|---|---|
| El-Gabbas et al., 2016 | negative | - | - | - | - | 9.82 | - | 43 | <0.001 | 0.838 |
| El-Gabbas et al., 2016 | negative | - | - | - | - | - | 24.4 | 46 | <0.001 | 0.728 |
| El-Gabbas et al., 2016 | negative | - | - | - | - | - | 27.93 | 50 | <0.01 | 0.747 |
| El-Gabbas et al., 2016 | negative | - | - | - | - | - | 32.1 | 128 | <0.0001 | 0.501 |
| El-Gabbas et al., 2016 | negative | - | - | - | - | - | - | 143 | <0.001 | 0.738 |
| El-Gabbas et al., 2016 | neutral | - | - | - | - | - | 7.8 | 165 | 0.005 | 0.217 |
| El-Gabbas et al., 2016 | negative | 0.99 | - | - | 0.7 | - | - | 475 | - | 0.855 |
| El-Gabbas et al., 2016 | negative | 0.99 | - | - | 0.31 | - | - | 475 | - | 0.855 |
| El-Gabbas et al., 2016 | negative | 0.759 | - | - | - | - | - | - | - | 0.445 |
| El-Gabbas et al., 2016 | neutral | - | - | - | - | - | - | - | 0.039 | 0.454 |
| El-Gabbas et al., 2016 | negative | 0.773 | - | - | - | - | - | - | - | 0.468 |
| El-Gabbas et al., 2016 | negative | 0.776 | - | - | - | - | - | - | - | 0.473 |
| El-Gabbas et al., 2016 | negative | - | - | - | 0.28 | - | - | - | <0.0001 | 0.529 |
| El-Gabbas et al., 2016 | negative | - | - | - | 0.288 | - | - | - | - | 0.537 |
| El-Gabbas et al., 2016 | negative | - | - | - | 0.31 | - | - | - | <0.0001 | 0.557 |
| El-Gabbas et al., 2016 | negative | 0.842 | - | - | - | - | - | - | - | 0.578 |
| El-Gabbas et al., 2016 | negative | 0.846 | - | - | - | - | - | - | - | 0.585 |
| El-Gabbas et al., 2016 | negative | - | - | - | 0.352 | - | - | - | - | 0.593 |
| El-Gabbas et al., 2016 | positive | 0.87 | - | - | - | - | - | - | - | 0.623 |
| El-Gabbas et al., 2016 | negative | 0.87 | - | - | - | - | - | - | - | 0.623 |
| El-Gabbas et al., 2016 | positive | - | - | - | 0.39 | - | - | - | <0.05 | 0.624 |
| El-Gabbas et al., 2016 | positive | 0.934 | - | - | - | - | - | - | - | 0.729 |
| El-Gabbas et al., 2016 | negative | 0.936 | - | - | - | - | - | - | - | 0.733 |
| El-Gabbas et al., 2016 | positive | 0.939 | - | - | - | - | - | - | - | 0.738 |
| El-Gabbas et al., 2016 | negative | 0.939 | - | - | - | - | - | - | - | 0.738 |
| El-Gabbas et al., 2016 | positive | 0.94 | - | - | - | - | - | - | - | 0.740 |
| El-Gabbas et al., 2016 | negative | 0.94 | - | - | - | - | - | - | - | 0.740 |
| El-Gabbas et al., 2016 | positive | 0.94 | - | - | - | - | - | - | - | 0.740 |
| El-Gabbas et al., 2016 | positive | 0.94 | - | - | - | - | - | - | - | 0.740 |
| El-Gabbas et al., 2016 | positive | - | - | - | 0.55 | - | - | - | - | 0.742 |
| El-Gabbas et al., 2016 | positive | 0.944 | - | - | - | - | - | - | - | 0.747 |
| El-Gabbas et al., 2016 | positive | 0.951 | - | - | - | - | - | - | - | 0.760 |
| El-Gabbas et al., 2016 | negative | 0.951 | - | - | - | - | - | - | - | 0.760 |
| El-Gabbas et al., 2016 | positive | 0.952 | - | - | - | - | - | - | - | 0.762 |
| El-Gabbas et al., 2016 | negative | 0.953 | - | - | - | - | - | - | - | 0.764 |

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|---|---|---|---|---|---|---|---|---|---|---|
| El-Gabbas et al., 2016 | negative | 0.956 | - | - | - | - | - | - | - | 0.770 |
| El-Gabbas et al., 2016 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| El-Gabbas et al., 2016 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| El-Gabbas et al., 2016 | negative | 0.969 | - | - | - | - | - | - | - | 0.797 |
| El-Gabbas et al., 2016 | negative | 0.97 | - | - | - | - | - | - | - | 0.799 |
| El-Gabbas et al., 2016 | negative | 0.97 | - | - | - | - | - | - | - | 0.799 |
| El-Gabbas et al., 2016 | negative | 0.97 | - | - | - | - | - | - | - | 0.799 |
| El-Gabbas et al., 2016 | negative | 0.97 | - | - | - | - | - | - | - | 0.799 |
| El-Gabbas et al., 2016 | positive | 0.978 | - | - | - | - | - | - | - | 0.818 |
| El-Gabbas et al., 2016 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| El-Gabbas et al., 2016 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| El-Gabbas et al., 2016 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| El-Gabbas et al., 2016 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| El-Gabbas et al., 2016 | positive | 0.98 | - | - | - | - | - | - | - | 0.824 |
| El-Gabbas et al., 2016 | positive | 0.982 | - | - | - | - | - | - | - | 0.829 |
| El-Gabbas et al., 2016 | positive | 0.982 | - | - | - | - | - | - | - | 0.829 |
| El-Gabbas et al., 2016 | positive | 0.983 | - | - | - | - | - | - | - | 0.832 |
| El-Gabbas et al., 2016 | positive | 0.984 | - | - | - | - | - | - | - | 0.835 |
| El-Gabbas et al., 2016 | negative | 0.984 | - | - | - | - | - | - | - | 0.835 |
| El-Gabbas et al., 2016 | positive | 0.99 | - | - | - | - | - | - | - | 0.855 |
| El-Gabbas et al., 2016 | negative | 0.99 | - | - | - | - | - | - | - | 0.855 |
| Foufopoulos et al., 2011 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Freedman et al., 2009 | negative | - | - | - | - | - | 1.91 | 433 | <0.01 | 0.066 |
| Freedman et al., 2009 | neutral | 0.737 | - | - | - | - | - | - | - | 0.409 |
| Freedman et al., 2009 | neutral | - | - | - | 0.193 | - | - | - | 0.001 | 0.440 |
| George et al., 2015 | negative | - | - | - | - | -2.151 | - | 64 | 0.057 | -0.264 |
| Gilbert & Lattanzio, 2016 | neutral | - | - | 1.13 | - | - | - | 36 | 0.3 | 0.174 |
| Gilbert & Lattanzio, 2016 | negative | - | - | 0.76 | - | - | - | 43 | 0.39 | 0.132 |
| Gilbert&Miles, 2017 | negative | - | - | 0.007 | - | - | - | 106 | 0.936 | 0.008 |
| Goller et al., 2014 | negative | 0.942 | - | - | - | - | - | - | - | 0.743 |
| Guizado-Rodriguez et al., 2012 | neutral | 0.99 | - | - | - | - | - | - | - | 0.855 |
| Gunderson & Leal, 2015 | negative | - | 0.1764 | 7.09 | - | - | - | 20 | <0.001 | 0.512 |
| Gunderson & Leal, 2015 | negative | - | 0.241 | 9.746 | 0.239 | 3.122 | - | 102 | 0.004 | 0.489 |
| Gunderson and Stilmann, 2015 | negative | - | - | - | - | - | 1.85 | 18 | 0.174 | 0.321 |
| Gunderson and Stilmann, 2015 | neutral | - | - | - | - | 3.79 | - | 454 | 0.0008 | 0.176 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Gunderson and Stilmann, 2015 | negative | - | - | - | - | - | - | - | >0.1 | 0.310 |
| Gunderson and Stilmann, 2015 | positive | 0.71 | - | - | - | - | - | - | - | 0.364 |
| Gunderson and Stilmann, 2015 | positive | 0.748 | - | - | - | - | - | - | - | 0.427 |
| Gunderson and Stilmann, 2015 | positive | 0.781 | - | - | - | - | - | - | - | 0.481 |
| Hagger et al., 2012 | negative | - | - | - | 0.09 | - | - | - | 0.01 | 0.300 |
| Hare & Cree, 2010 | positive | - | 0.5716 | 179.15 | - | - | - | 381 | <0.001 | 0.566 |
| Hare & Cree, 2010 | positive | - | 0.6025 | 788.34 | - | - | - | 3379 | <0.0001 | 0.435 |
| Huang & Pike, 2006 | neutral | - | - | - | - | - | 10.555 | 59 | 0.005 | 0.423 |
| Huang & Pike, 2006 | negative | - | - | 13.68 | - | - | - | 66 | <0.001 | 0.414 |
| Huang & Pike, 2006 | negative | - | - | 3876 | - | - | - | 93 | <0.001 | 0.988 |
| Huang & Pike, 2006 | negative | - | - | 7.918 | - | - | - | 106 | 0.008 | 0.264 |
| Huang & Pike, 2006 | negative | - | - | - | - | - | 14.22 | 119 | 0.07 | 0.346 |
| Huang & Pike, 2006 | negative | - | - | 224.9 | 0.85 | - | - | 120 | <0.0001 | 0.922 |
| Huang & Pike, 2006 | neutral | - | - | 8.13 | - | - | - | 165 | <0.01 | 0.217 |
| Huang & Pike, 2006 | neutral | - | - | 29.37 | - | - | - | 224 | <0.0001 | 0.340 |
| Huang & Pike, 2006 | negative | - | - | - | - | - | 1.73 | 433 | <0.01 | 0.063 |
| Huang & Pike, 2006 | neutral | - | - | 61.364 | - | - | - | 454 | 0.003. | 0.345 |
| Huang & Pike, 2006 | positive | - | - | 13.19 | - | - | - | 1608 | 0.007. | 0.090 |
| Huang et al , 2014 | negative | - | - | - | - | -0.29 | - | 35 | 0.772. | -0.050 |
| Huang et al , 2014 | neutral | - | - | - | - | 1.95 | - | 125 | 0.062 | 0.173 |
| Kearney et al , 2009 | negative | - | - | - | 0.915 | - | - | - | <0.0001 | 0.957 |
| Kearney et al , 2009 | negative | - | - | - | 0.924 | - | - | - | <0.0001 | 0.961 |
| Kearney et al , 2009 | negative | - | - | - | 0.939 | 43.273 | - | - | <0.001 | 0.969 |
| Kearney et al , 2009 | negative | - | - | - | 0.956 | 91.366 | - | - | <0.001 | 0.978 |
| Kirchhoff et al , 2017 | neutral | - | - | 2.15 | - | - | - | 20 | 0.094 | 0.312 |
| Kirchhoff et al , 2017 | negative | - | - | 0.02 | - | - | - | 50 | 0.9 | 0.020 |
| Kirchhoff et al , 2017 | positive | - | - | 1.072 | - | - | - | 453 | p>0.1 | 0.049 |
| Kirchhoff et al , 2017 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Kubisch et al., 2012 | positive | - | - | - | - | - | 12.00 | 12 | <0.001 | 1.000 |
| Kubisch et al., 2012 | negative | - | - | 0.01 | - | - | - | 43 | 0.91 | 0.015 |
| Kubisch et al., 2012 | negative | - | - | - | 0.314 | - | - | - | - | 0.560 |
| Kubisch et al., 2012 | positive | 0.833 | - | - | - | - | - | - | - | 0.564 |
| Kubisch et al., 2012 | positive | 0.943 | - | - | - | - | - | - | - | 0.745 |
| Kubisch et al., 2012 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Kubisch et al., 2015 | negative | - | - | 1.8 | - | - | - | 5 | 0.184 | 0.514 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Kubisch et al., 2015 | neutral | - | - | 1.22 | 0.38 | - | - | 16 | 0.384 | 0.616 |
| Kubisch et al., 2015 | neutral | - | - | 1.26 | 0.56 | - | - | 16 | 0.464. | 0.748 |
| Kubisch et al., 2015 | negative | - | - | 0.283 | - | 1.37 | - | 34 | 0.599 | 0.235 |
| Kubisch et al., 2015 | neutral | - | - | 0.1 | - | - | - | 36 | 0.74. | 0.053 |
| Kubisch et al., 2015 | negative | - | - | 1.75 | - | - | - | 40 | 0.046 | 0.205 |
| Kubisch et al., 2015 | negative | - | - | 4.26 | - | - | - | 66 | 0.05 | 0.246 |
| Kubisch et al., 2015 | neutral | - | - | 2.28 | - | - | - | 95 | 0.14 | 0.153 |
| Kubisch et al., 2015 | negative | - | - | 2.16 | - | - | - | 151 | 0.073 | 0.119 |
| Kubisch et al., 2015 | positive | - | - | 1.603 | - | - | - | 175 | p>0.1 | 0.095 |
| Kubisch et al., 2015 | positive | - | 1.6961 | 1.709 | - | - | - | 381 | P<0.1 | 0.067 |
| Kubisch et al., 2015 | positive | - | 1.8655 | 1.151 | - | - | - | 741 | p>0.1 | 0.039 |
| Kubisch et al., 2016 | negative | - | 2.4104 | 8.3 | - | - | - | 13 | <0.01 | 0.624 |
| Kubisch et al., 2016 | positive | - | 2.6464 | 6 | - | - | - | 138 | <0.001 | 0.204 |
| Kubisch et al., 2016 | positive | - | - | 6.1 | - | - | - | 1608 | 0.04 | 0.061 |
| Lara et al., 2015 | negative | - | 0.1098 | 5.41 | - | - | - | 76 | 0.02 | 0.258 |
| Lawing and Polly, 2011 | negative | - | - | - | - | - | 183.109 | 207 | <0.001 | 0.941 |
| Lawing and Polly, 2011 | positive | - | - | - | 0.9 | - | - | - | - | 0.949 |
| Lelièvre et al., 2013 | negative | - | 0.1232 | 7.09 | - | - | - | 7 | <0.05 | 0.709 |
| Lelièvre et al., 2013 | neutral | - | 0.1394 | 6.2 | - | - | - | 24 | 0.021 | 0.453 |
| Lelièvre et al., 2013 | negative | - | 0.1811 | 5.901 | - | - | - | 106 | 0.011 | 0.230 |
| Lelièvre et al., 2013 | positive | - | - | - | 0.99 | - | - | - | <0.0001 | 0.995 |
| Lepetz et al., 2009 | positive | - | 0.2277 | 8.63 | - | - | - | 12 | 0.03 | 0.647 |
| Lepetz et al., 2009 | positive | - | 0.2497 | 10.44 | - | - | - | 12 | <0.001 | 0.682 |
| Lepetz et al., 2009 | negative | - | 0.4813 | - | - | -0.068 | - | 21 | 0.5 | -0.016 |
| Lepetz et al., 2009 | negative | - | 0.8643 | - | - | -0.11 | - | 35 | 0.912 | -0.019 |
| Lepetz et al., 2009 | neutral | - | 0.8643 | 54.51 | - | - | - | 146 | <0.0001 | 0.521 |
| Lepetz et al., 2009 | neutral | - | 0.9248 | - | - | 0.68 | - | 184 | 0.50. | 0.050 |
| Li et al., 2013 | negative | 0.991 | 0.7603 | - | - | - | - | - | - | 0.858 |
| Li et al., 2013 | positive | 0.992 | 0.784 | - | - | - | - | - | - | 0.862 |
| Li et al., 2013 | negative | 0.992 | 0.9167 | - | - | - | - | - | - | 0.862 |
| Li et al., 2013 | positive | 0.992 | - | - | - | - | - | - | - | 0.862 |
| Li et al., 2013 | negative | 0.993 | - | - | - | - | - | - | - | 0.867 |
| Li et al., 2013 | positive | 0.993 | - | - | - | - | - | - | - | 0.867 |
| Li et al., 2013 | negative | 0.994 | 1.2598 | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Li et al., 2013 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | negative | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | negative | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | negative | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | negative | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2013 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Li et al., 2017 | negative | - | - | - | - | -1.39 | - | 35 | 0.185 | -0.235 |
| Li et al., 2017 | neutral | - | - | - | - | -4.85 | - | 184 | 0.002 | -0.338 |
| Li et al., 2017 | neutral | - | - | - | - | 3.20591 | - | 302 | 0.0015 | 0.182 |
| Li et al., 2017 | negative | - | - | - | - | 2.7 | - | 2,332 | 0.011 | 0.056 |
| Li et al., 2017 | positive | - | - | - | - | - | 6.392 | 4266 | 0.011 | 0.039 |
| Li et al., 2017 | negative | - | - | - | 0.111 | - | - | - | 0.0003 | 0.333 |
| Li et al., 2017 | negative | 0.704 | - | - | - | - | - | - | - | 0.354 |
| Ljungstrom et al., 2015 | negative | - | - | 25.69 | - | - | - | 20 | <0.001 | 0.750 |
| Llwelyn et al., 2016 | negative | - | - | 0.62 | - | - | - | 43 | 0.44 | 0.119 |
| Llwelyn et al., 2016 | negative | - | - | - | 0.18 | - | - | - | <0.0001 | 0.424 |
| Llwelyn et al., 2017 | neutral | - | - | 3.14 | - | - | - | 41 | 0.04. | 0.267 |
| Llwelyn et al., 2017 | negative | - | - | 1.07 | - | - | - | 43 | 0.31 | 0.156 |
| Llwelyn et al., 2017 | negative | - | - | 4.94 | - | - | - | 43 | 0.03 | 0.321 |
| Llwelyn et al., 2017 | neutral | - | - | 2.41 | - | - | - | 186 | 0.122 | 0.113 |
| Llwelyn et al., 2017 | positive | - | - | 1.491 | - | - | - | 249 | p>0.1 | 0.077 |
| Llwelyn et al., 2017 | positive | - | - | 17.39 | - | - | - | 7605 | <0.0001 | 0.048 |
| Logan et al., 2013 | negative | - | 0.2201 | - | - | -1.79 | - | 14 | 0.09 | -0.459 |
| Logan et al., 2013 | negative | - | 0.2948 | - | - | -3.723 | - | 64 | 0.001 | -0.427 |
| Logan et al., 2013 | neutral | - | - | - | - | - | 5.11 | 165 | 0.02. | 0.176 |
| Logan et al., 2013 | negative | - | - | 20.74 | - | - | - | 207 | <0.001 | 0.302 |
| Logan et al., 2013 | negative | - | - | - | - | - | - | - | 0.065 | -0.382 |
| Logan et al., 2014 | positive | - | - | 21.01 | - | - | - | 12 | 0.008 | 0.798 |
| Logan et al., 2014 | neutral | - | 0.4439 | 21.29 | - | - | - | 20 | <0.001 | 0.718 |
| Logan et al., 2014 | neutral | - | - | 25.1 | - | - | - | 41 | <0.0001 | 0.616 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Logan et al., 2014 | neutral | - | 0.7353 | 39.77 | - | - | - | 186 | <0.0001 | 0.420 |
| Logan et al., 2014 | negative | - | 0.7353 | 43.3 | - | - | - | 5280 | <0.0001 | 0.075 |
| Logan et al., 2015 | neutral | - | 0.7353 | 14 | - | - | - | 24 | 0.001 | 0.607 |
| Logan et al., 2015 | negative | - | 1.0516 | 8.5 | - | - | - | 5280 | 0.0037 | 0.033 |
| Lourdais et al., 2004 | positive | - | 0.4331 | 37.77 | - | - | - | 138 | <0.01 | 0.464 |
| Lourdais et al., 2004 | negative | 0.846 | - | - | - | - | - | - | - | 0.585 |
| Lu et al., 2013 | negative | - | 0.5081 | - | - | 0.21 | - | 35 | 0.837 | 0.037 |
| Lu et al., 2013 | positive | - | 0.9105 | 67.22 | - | - | - | 3379 | <0.0001 | 0.140 |
| Lu et al., 2013 | positive | - | 5.4442 | - | 0.8 | - | - | - | - | 0.894 |
| Luz-Marques et al., 2011 | neutral | - | - | 45 | - | - | - | 24 | <0.001 | 0.808 |
| Luz-Marques et al., 2011 | negative | - | - | - | - | -0.018 | - | 35 | 0.985 | -0.003 |
| Luz-Marques et al., 2011 | negative | - | - | - | - | - | 1.51 | 54 | 0.22 | 0.167 |
| Luz-Marques et al., 2011 | negative | - | - | - | - | - | 0.1 | 519 | 0.757 | 0.014 |
| Marquis et al., 2008 | negative | - | - | - | - | - | 31.65 | 50 | <0.01 | 0.796 |
| Martin & Lopez, 2013 | negative | - | - | - | - | 2.64 | - | 17 | 0.022 | 0.563 |
| Massot et al., 2008 | negative | - | - | - | - | - | 516.07 | 519 | <0.0001 | 0.997 |
| Massot et al., 2008 | negative | - | - | 3.456 | - | - | - | 1147 | 0.037 | 0.055 |
| Massot et al., 2008 | positive | - | 0.6928 | - | - | - | - | - | 0.008 | -0.660 |
| Massot et al., 2017 | negative | - | 1.2 | - | - | - | 11.89 | 14 | 0.003 | 0.922 |
| Massot et al., 2017 | negative | - | 2.9933 | - | - | -4.87 | - | 35 | <0.001 | -0.647 |
| Massot et al., 2017 | negative | - | 6.1644 | - | - | - | 143.4 | 1500 | <0.001 | 0.309 |
| Massot et al., 2017 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Medina et al., 2012 | negative | - | - | 0.51 | - | - | - | 10 | 0.5 | 0.220 |
| Medina et al., 2016 | neutral | - | - | 59.725 | - | - | - | 48 | <0.001 | 0.745 |
| Medina et al., 2016 | neutral | 0.854 | 2.05 | - | - | - | - | - | - | 0.598 |
| Meiri et al., 2013 | negative | - | - | 18.75 | - | - | - | 43 | <0.0001 | 0.551 |
| Meiri et al., 2013 | neutral | - | - | 4.796 | - | - | - | 396 | 0.034 | 0.109 |
| Minoli and Javier-Avila, 2017 | negative | - | - | - | - | 4.55 | - | 43 | <0.001 | 0.579 |
| Minoli and Javier-Avila, 2017 | positive | 0.845 | - | - | - | - | - | - | - | 0.583 |
| Minoli and Javier-Avila, 2017 | positive | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Minoli and Javier-Avila, 2017 | negative | - | - | - | 0.68 | - | - | - | - | 0.825 |
| Monasterio et al., 2013 | neutral | - | 0.3668 | 23 | - | - | - | 24 | <0.001 | 0.700 |
| Monasterio et al., 2013 | negative | - | 0.4224 | 35.72 | - | - | - | 34 | <0.001 | 0.716 |
| Monasterio et al., 2013 | negative | - | 0.4276 | 35 | - | - | - | 69 | p<0.001 | 0.580 |
| Monasterio et al., 2013 | negative | - | 0.6537 | - | - | - | - | - | 0.0046 | -0.830 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Monasterio et al., 2013 | negative | 0.997 | - | - | - | - | - | - | - | 0.889 |
| Monasterio et al., 2013 | negative | - | 10.0545 | - | 0.955 | 51.23 | - | - | <0.001 | 0.977 |
| Moreno-Rueda et al., 2009 | neutral | - | 0.0147 | - | - | - | 16.153 | 59 | <0.001 | 0.523 |
| Moreno-Rueda et al., 2012 | positive | - | - | 2.45 | - | - | - | 138 | 0.09 | 0.132 |
| Moritz et al., 2012 | negative | - | 0.2617 | 11.2 | - | - | - | 5 | 0.004 | 0.831 |
| Moritz et al., 2012 | negative | - | 0.3184 | 33.64 | - | - | - | 20 | <0.001 | 0.792 |
| Moritz et al., 2012 | positive | - | 0.3857 | 25.911 | - | - | - | 48 | <0.001. | 0.592 |
| Moritz et al., 2012 | negative | - | 0.4121 | 17.25 | - | - | - | 70 | <0.001 | 0.445 |
| Moritz et al., 2012 | neutral | - | 1.2221 | - | 0.103 | - | - | - | 0.195 | 0.321 |
| Nasrabadi et al., 2017 | negative | 0.99 | - | - | 0.55 | - | - | 475 | - | 0.855 |
| Nasrabadi et al., 2017 | negative | 0.99 | - | - | 0.73 | - | - | 475 | - | 0.855 |
| Naya et al., 2011 | negative | - | 0.5535 | 116.2 | - | - | - | 5280 | <0.0001 | 0.123 |
| Naya et al., 2011 | negative | - | 1.5649 | - | 0.267 | - | - | - | - | 0.517 |
| Nelson et al., 2004 | negative | - | 0.0956 | - | - | - | 3.93 | 29 | 0.047 | 0.368 |
| Nelson et al., 2004 | neutral | - | 0.4188 | - | - | -3.13 | - | 31 | 0.002. | -0.503 |
| Nelson et al., 2004 | positive | - | 0.7321 | 4.799 | - | - | - | 48 | 0.01. | 0.301 |
| Nelson et al., 2004 | neutral | - | 0.9928 | 34.74 | - | - | - | 186 | <0.0001 | 0.397 |
| Nelson et al., 2004 | negative | - | 1.275 | - | - | - | 5.06 | 433 | <0.01 | 0.108 |
| Nori et al., 2014 | negative | 0.922 | - | - | - | - | - | - | - | 0.708 |
| Nori et al., 2014 | negative | 0.923 | - | - | - | - | - | - | - | 0.710 |
| Nori et al., 2014 | negative | 0.947 | - | - | - | - | - | - | - | 0.753 |
| Nori et al., 2014 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Nori et al., 2014 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Nori et al., 2015 | positive | - | - | - | - | - | 6.56 | 18 | 0.01 | 0.604 |
| Nori et al., 2015 | negative | - | - | - | 0.62 | 3.81 | - | 35 | <0.001 | 0.787 |
| Nori et al., 2015 | negative | 0.99 | - | - | 0.58 | - | - | 475 | - | 0.855 |
| Nori et al., 2015 | negative | 0.99 | - | - | 0.34 | - | - | 475 | - | 0.855 |
| Nori et al., 2015 | positive | 0.839 | - | - | - | - | - | - | - | 0.574 |
| Nori et al., 2015 | negative | 0.924 | - | - | - | - | - | - | - | 0.712 |
| Nori et al., 2015 | positive | 0.926 | - | - | - | - | - | - | - | 0.715 |
| Nori et al., 2015 | positive | 0.948 | - | - | - | - | - | - | - | 0.755 |
| Nori et al., 2015 | negative | 0.949 | - | - | - | - | - | - | - | 0.756 |
| Nori et al., 2015 | negative | 0.95 | - | - | - | - | - | - | - | 0.758 |
| Nori et al., 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Nori et al., 2015 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Nori et al., 2015 | negative | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Nori et al., 2015 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Nori et al., 2015 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Nori et al., 2015 | neutral | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Nori et al., 2015 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Ofori et al., 2017 | negative | - | - | - | - | - | 2.69 | 18 | 0.101 | 0.387 |
| Ofori et al., 2017 | negative | - | - | - | 0.08 | - | - | - | 0.006 | 0.283 |
| Ofori et al., 2017 | neutral | - | - | - | - | - | - | - | 0.0186 | 0.287 |
| Ofori et al., 2017 | negative | 0.715 | - | - | - | - | - | - | - | 0.373 |
| Ofori et al., 2017 | neutral | 0.997 | - | - | - | - | - | - | - | 0.889 |
| Olsson et al., 2011 | positive | 0.953 | - | - | - | - | - | - | - | 0.764 |
| Ortega et al., 2016 | positive | - | - | - | - | -5.35 | - | 12 | <0.001 | -0.861 |
| Ortega et al., 2016 | positive | - | - | 1.41 | - | - | - | 185 | p>0.1 | 0.087 |
| Ortega et al., 2016 | negative | - | - | 0.78 | - | - | - | 5280 | 0.38 | 0.012 |
| Ortega et al., 2016 | negative | - | - | - | 0.01 | - | - | - | 0.56 | 0.100 |
| Ortega et al., 2016 | negative | - | 1.0106 | - | 0.02 | - | - | - | 0.21 | 0.141 |
| Ortega et al., 2016 | negative | - | 1.135 | - | 0.06 | - | - | - | 0.01 | 0.245 |
| Ortega et al., 2016 | neutral | 0.997 | 5.057 | - | - | - | - | - | - | 0.889 |
| Paranjpe et al., 2013 | neutral | - | - | 24.85 | - | - | - | 20 | <0.001 | 0.744 |
| Penman et al., 2010 | positive | 0.951 | - | - | - | - | - | - | - | 0.760 |
| Phillips et al., 2015 | negative | - | - | 0.82 | - | - | - | 86 | 0.37 | 0.097 |
| Piantoni et al , 2015 | neutral | - | - | - | 0.057 | - | - | - | 0.812 | 0.239 |
| Piantoni et al , 2015 | negative | 0.85 | - | - | - | - | - | - | - | 0.591 |
| Pincheira-Donoso , 2011 | negative | - | - | 31.611 | 0.505 | 5.622 | - | 102 | <0.001 | 0.711 |
| Pincheira-Donoso et al., 2013 | negative | - | 1.5781 | - | - | - | 13.68 | 50 | <0.01 | 0.523 |
| Pintor et al., 2016 | neutral | - | 0.2449 | 9.862 | - | - | - | 454 | 0.003 | 0.146 |
| Pintor et al., 2016 | negative | - | 0.4517 | 47.38 | - | - | - | 460 | 0.0001 | 0.306 |
| Pintor et al., 2016 | neutral | - | 0.7071 | - | - | - | - | - | 0.003 | -0.618 |
| Pomara et al., 2014 | negative | - | - | - | - | - | 1.000 | 210 | 0.91 | 0.069 |
| Popescu et al., 2013 | neutral | - | - | - | - | - | 12.952 | 59 | 0.002. | 0.469 |
| Popescu et al., 2013 | negative | 0.783 | - | - | - | - | - | - | - | 0.484 |
| Popescu et al., 2013 | negative | 0.851 | - | - | - | - | - | - | - | 0.593 |
| Popescu et al., 2013 | negative | - | - | - | 0.36 | - | - | - | <0.05 | 0.600 |
| Popescu et al., 2013 | positive | - | - | - | - | - | - | - | 0.02 | 0.620 |
| Popescu et al., 2013 | negative | 0.874 | - | - | - | - | - | - | - | 0.629 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Popescu et al., 2013 | negative | 0.92 | - | - | - | - | - | - | - | 0.705 |
| Popescu et al., 2013 | positive | 0.93 | - | - | - | - | - | - | - | 0.722 |
| Popescu et al., 2013 | neutral | - | - | - | - | - | - | - | 0.0044 | 0.730 |
| Popescu et al., 2013 | positive | 0.94 | - | - | - | - | - | - | - | 0.740 |
| Popescu et al., 2013 | negative | 0.94 | - | - | - | - | - | - | - | 0.740 |
| Popescu et al., 2013 | negative | 0.955 | - | - | - | - | - | - | - | 0.768 |
| Popescu et al., 2013 | negative | 0.98 | - | - | - | - | - | - | - | 0.824 |
| Popescu et al., 2013 | negative | 0.985 | - | - | - | - | - | - | - | 0.838 |
| Popescu et al., 2013 | neutral | 0.99 | - | - | - | - | - | - | - | 0.855 |
| Popescu et al., 2013 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Prates et al., 2016 | negative | - | - | - | 0.01 | - | - | - | 0.3 | 0.100 |
| Prodon et al., 2017 | neutral | - | - | 8.582 | - | - | - | 48 | <0.001 | 0.389 |
| Putman and Clark, 2017 | negative | - | - | 18.748 | - | - | - | 106 | <0.001 | 0.388 |
| Pyron et al., 2008 | negative | 0.973 | - | - | - | - | - | - | - | 0.806 |
| Rabosky et al., 2012 | neutral | - | - | 5.43 | - | - | - | 146 | 0.024 | 0.189 |
| Read et al , 2012 | negative | 0.773 | - | - | - | - | - | - | - | 0.468 |
| Read et al , 2012 | negative | 0.984 | - | - | - | - | - | - | - | 0.835 |
| Reading et al., 2010 | negative | - | - | 0.58 | - | - | - | 100 | 0.48 | 0.076 |
| Reading et al., 2010 | positive | - | - | 0.84 | - | - | - | 138 | 0.44 | 0.078 |
| Reading et al., 2010 | negative | - | - | - | 0.186 | - | - | - | <0.001 | 0.431 |
| Rodriguez et al , 2017 | negative | - | - | 438.65 | - | - | - | 93 | <0.001 | 0.908 |
| Romero-Diaz et al., 2017 | neutral | - | - | - | - | - | 5.47 | 165 | 0.02 | 0.182 |
| Rugiero et al., 2012 | negative | - | - | 24.11 | - | - | - | 93 | <0.001 | 0.454 |
| Rugiero et al., 2013 | positive | - | - | 0.02 | - | - | - | 138 | 0.98. | 0.012 |
| Rugiero et al., 2013 | negative | - | 0.3679 | 0.08 | - | - | - | 5280 | 0.78 | 0.004 |
| Rugiero et al., 2013 | positive | 0.97 | - | - | - | - | - | - | - | 0.799 |
| Ryan et al., 2015 | negative | - | - | 47.5 | - | - | - | 5 | <0.0001 | 0.951 |
| Ryan et al., 2015 | negative | - | 0.4641 | 14.66 | - | - | - | 43 | <0.0001 | 0.504 |
| Ryan et al., 2015 | neutral | - | 0.6419 | - | - | - | - | - | 0.03 | -0.969 |
| Santos et al., 2009 | negative | - | - | - | - | - | - | - | <0.0001 | 1.000 |
| Segall et al , 2013 | neutral | - | 0.6557 | - | - | 0.08 | - | 184 | 0.9. | 0.006 |
| Segall et al , 2013 | positive | - | 0.8922 | - | - | - | 5.619 | 4266 | 0.018 | 0.036 |
| Segall et al , 2013 | negative | - | 0.8967 | - | - | - | - | - | 0.0095 | -0.800 |
| Segall et al , 2013 | neutral | - | 1.1908 | - | 0.091 | - | - | - | 0.136 | 0.302 |
| Segall et al , 2013 | negative | 0.81 | 1.5887 | - | - | - | - | - | - | 0.527 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Segall et al , 2013 | negative | 0.855 | 2.0635 | - | - | - | - | - | - | 0.599 |
| Segall et al , 2013 | negative | 0.93 | 2.2293 | - | - | - | - | - | - | 0.722 |
| Segall et al , 2013 | negative | 0.938 | 2.2667 | - | - | - | - | - | - | 0.736 |
| Segall et al , 2013 | neutral | 0.964 | 2.5938 | - | - | - | - | - | - | 0.786 |
| Segall et al , 2013 | negative | 0.964 | 2.6046 | - | - | - | - | - | - | 0.786 |
| Sillero & Carretero, 2012 | negative | 0.97 | - | - | - | - | - | - | - | 0.799 |
| Sinervo et al , 2010 | negative | - | - | - | - | -1.24 | - | 35 | 0.234 | -0.211 |
| Sinervo et al , 2010 | negative | - | - | - | - | - | 4.14 | 50 | <0.01 | 0.288 |
| Sinervo et al , 2010 | negative | 0.793 | - | - | - | - | - | - | - | 0.500 |
| Sinervo et al , 2010 | positive | 0.859 | - | - | - | - | - | - | - | 0.606 |
| Sow et al., 2014 | negative | - | - | - | - | 1.85 | - | 13 | 0.098 | 0.487 |
| Sow et al., 2014 | neutral | - | - | - | - | - | 8.52 | 13 | 0.01 | 0.810 |
| Sow et al., 2014 | negative | - | - | - | - | -1.45 | - | 17 | 0.243 | -0.351 |
| Sow et al., 2014 | neutral | - | - | - | - | - | 10.173 | 46 | 0.038 | 0.470 |
| Sow et al., 2014 | negative | 0.99 | - | - | 0.41 | - | - | 475 | - | 0.855 |
| Sow et al., 2014 | negative | - | - | - | - | 1.34 | - | 861 | 0.18 | 0.046 |
| Sow et al., 2014 | negative | - | - | - | - | - | - | - | >0.1 | -0.170 |
| Sow et al., 2014 | neutral | - | - | - | - | - | - | - | 0.66 | 0.110 |
| Sow et al., 2014 | negative | - | - | - | - | - | - | - | >0.1 | 0.190 |
| Sow et al., 2014 | negative | - | - | - | 0.04 | - | - | - | 0.06 | 0.200 |
| Sow et al., 2014 | neutral | 0.625 | - | - | - | - | - | - | - | 0.220 |
| Sow et al., 2014 | negative | 0.75 | - | - | - | - | - | - | - | 0.430 |
| Sow et al., 2014 | neutral | 0.768 | - | - | - | - | - | - | - | 0.460 |
| Sow et al., 2014 | negative | 0.779 | - | - | - | - | - | - | - | 0.478 |
| Sow et al., 2014 | negative | 0.793 | - | - | - | - | - | - | - | 0.500 |
| Sow et al., 2014 | positive | 0.826 | - | - | - | - | - | - | - | 0.553 |
| Sow et al., 2014 | negative | 0.858 | - | - | - | - | - | - | - | 0.604 |
| Sow et al., 2014 | positive | - | - | - | 0.5 | - | - | - | - | 0.707 |
| Srinivasulu and srinivasulu, 2016 | positive | 0.985 | - | - | - | - | - | - | - | 0.838 |
| Stahlschmidt et al , 2017 | negative | - | 0.2614 | - | - | -0.12 | - | 14 | 0.9 | -0.035 |
| Stahlschmidt et al , 2017 | negative | - | 0.8563 | - | - | - | 4.53 | 18 | 0.033 | 0.502 |
| Stahlschmidt et al , 2017 | neutral | - | 0.8944 | - | - | - | 5.33 | 165 | 0.02 | 0.180 |
| Stahlschmidt et al , 2017 | neutral | - | 1.0165 | - | - | 0.17 | - | 184 | 0.87. | 0.013 |
| Stahlschmidt et al , 2017 | neutral | - | 1.0567 | 10.77 | - | - | - | 186 | 0.0012 | 0.234 |
| Stahlschmidt et al , 2017 | negative | - | 1.472 | - | 0.02 | - | - | - | 0.17 | 0.141 |

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|---|---|---|---|---|---|---|---|---|---|---|
| Stahlschmidt et al , 2017 | negative | 0.779 | 1.5275 | - | - | - | - | - | - | 0.478 |
| Stahlschmidt et al , 2017 | positive | 0.838 | 1.9579 | - | - | - | - | - | - | 0.572 |
| Stahlschmidt et al , 2017 | negative | 0.968 | 2.7386 | - | - | - | - | - | - | 0.795 |
| Stapley et al., 2015 | negative | - | - | - | - | 0.02 | - | 35 | 0.985 | 0.004 |
| Telemeco et al., 2009 | negative | - | 0.04 | 28.45 | - | - | - | 70 | <0.001 | 0.538 |
| Telemeco et al., 2009 | negative | - | 0.1953 | 7.89 | - | - | - | 98 | 0.007 | 0.273 |
| Telemeco et al., 2009 | negative | - | - | 8.13 | 0.16 | - | - | 1273 | 0.005 | 0.400 |
| Telemeco et al., 2009 | negative | - | - | - | - | - | - | - | 0.069 | -0.620 |
| Telemeco et al., 2017 | neutral | - | - | - | - | 3.61 | - | 31 | 0.002 | 0.557 |
| Telemeco et al., 2017 | negative | - | - | - | - | -5.26 | - | 35 | <0.001 | -0.675 |
| Telemeco et al., 2017 | negative | - | 0.6788 | 489.05 | - | - | - | 66 | 0.0001 | 0.939 |
| Telemeco et al., 2017 | neutral | - | - | 3.7 | - | - | - | 146 | 0.06 | 0.157 |
| Telemeco et al., 2017 | neutral | - | - | 61.364 | - | - | - | 454 | <0.001 | 0.345 |
| Telemeco et al., 2017 | negative | - | - | - | - | - | 55.15 | 519 | 0.00233 | 0.326 |
| Telemeco et al., 2017 | negative | 0.935 | - | - | - | - | - | - | - | 0.731 |
| Telemeco et al., 2017 | neutral | 0.964 | - | - | - | - | - | - | - | 0.786 |
| Theisinger and Dausmann, 2017 | negative | - | 0.8457 | - | - | - | - | - | >0.1 | -0.060 |
| Theisinger and Dausmann, 2017 | negative | 0.932 | 2.2309 | - | - | - | - | - | - | 0.726 |
| Ujvari et al., 2011 | positive | 0.87 | - | - | - | - | - | - | - | 0.623 |
| Valenzuela-Ceballos et al , 2014 | negative | - | - | - | - | 7.75 | - | 21 | <0.001 | 0.872 |
| Valenzuela-Ceballos et al , 2014 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Valenzuela-Ceballos et al , 2014 | positive | 0.994 | - | - | - | - | - | - | - | 0.871 |
| Vicenzi et al., 2017 | negative | - | - | 0.6 | - | - | - | 5 | 0.678 | 0.327 |
| Vicenzi et al., 2017 | negative | - | 0.6331 | - | - | - | 0.43 | 52 | 0.51 | 0.091 |
| Vicenzi et al., 2017 | negative | - | 0.9717 | - | - | - | - | - | - | -0.996 |
| Vicenzi et al., 2017 | negative | 0.998 | - | - | - | - | - | - | - | 0.898 |
| Walker et al , 2015 | neutral | - | 0.4183 | 34.74 | - | - | - | 186 | 0.0002 | 0.397 |
| Wang et al., 2016 | negative | - | 0.0163 | 18.71 | - | - | - | 13 | <0.0001 | 0.768 |
| Wang et al., 2016 | negative | - | 0.0163 | - | - | -0.47 | - | 35 | 0.647 | -0.082 |
| Wang et al., 2016 | negative | - | - | 23.411 | - | - | - | 59 | <0.001 | 0.533 |
| Wang et al., 2016 | negative | - | 0.1912 | 7.16 | - | - | - | 93 | 0.002 | 0.267 |
| Wang et al., 2016 | negative | - | 0.2392 | 108.71 | - | - | - | 93 | <0.001 | 0.734 |
| Wang et al., 2016 | negative | - | 0.2403 | 2.738 | - | - | - | 100 | 0.001 | 0.163 |
| Wang et al., 2016 | neutral | - | - | 2.5 | - | - | - | 146 | 0.002 | 0.130 |
| Wang et al., 2016 | neutral | - | - | 1086.86 | - | - | - | 170 | <0.0001 | 0.930 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Wang et al., 2016 | negative | - | 0.4719 | 48.86 | - | - | - | 207 | <0.001 | 0.437 |
| Wang et al., 2017 | negative | - | 0.5466 | 7.729 | - | - | - | 24 | 0.009 | 0.494 |
| Wang et al., 2017 | negative | - | - | 9.066 | - | - | - | 59 | 0.006 | 0.365 |
| Wang et al., 2017 | negative | - | 0.8411 | 9.38 | - | - | - | 70 | 0.003. | 0.344 |
| Wang et al., 2017 | negative | 0.873 | 2.1641 | - | - | - | - | - | - | 0.628 |
| Wapstra et al., 2009 | neutral | - | - | 8.526 | - | - | - | 59 | 0.007 | 0.355 |
| Wapstra et al., 2009 | positive | 0.975 | - | - | - | - | - | - | - | 0.811 |
| Weatherhead et al., 2012 | negative | - | 0.0241 | 33.92 | - | - | - | 20 | <0.001 | 0.793 |
| Weatherhead et al., 2012 | negative | - | 0.156 | 6.89 | - | - | - | 43 | 0.01 | 0.372 |
| Weatherhead et al., 2012 | negative | - | 0.2665 | 12.396 | - | - | - | 59 | <0.001 | 0.417 |
| Weatherhead et al., 2012 | neutral | - | 0.417 | 2.9 | - | - | - | 186 | 0.0897 | 0.124 |
| Weatherhead et al., 2012 | negative | - | 1.0463 | - | 0.03 | 5.3 | - | 861 | <0.0001 | 0.173 |
| Weatherhead et al., 2012 | negative | 0.775 | 1.4449 | - | - | - | - | - | - | 0.471 |
| Whitfield al, 2006 | negative | - | 0.0078 | 4.02 | - | - | - | 20 | 0.008 | 0.409 |
| Whitfield al, 2006 | negative | - | 0.0243 | 7.38 | - | - | - | 43 | <0.0001 | 0.383 |
| Whitfield al, 2006 | negative | - | 0.0669 | 3.07 | - | - | - | 70 | 0.006 | 0.205 |
| Whitfield al, 2006 | negative | - | 0.1509 | 6.6 | - | - | - | 98 | 0.003 | 0.251 |
| Whitfield al, 2006 | negative | - | 0.1905 | 2.327 | - | - | - | 299 | 0.128 | 0.088 |
| Whitfield al, 2006 | negative | - | 0.2472 | 9.87 | 0.67 | - | - | 682 | 0.024 | 0.819 |
| Wright et al , 2016 | negative | - | 0.5336 | 95.26 | - | - | - | 153 | <0.001 | 0.619 |
| Yousefkhani et al., 2017 | negative | - | - | - | - | - | 2.9 | 50 | 0.03. | 0.241 |
| Yousefkhani et al., 2017 | negative | - | - | - | - | - | 1.76 | 54 | 0.18 | 0.181 |
| Yousefkhani et al., 2017 | negative | - | - | - | 0.04 | - | - | 121 | 0.02 | 0.200 |
| Yousefkhani et al., 2017 | positive | - | - | - | - | - | 19.1 | 566 | <0.0001 | 0.184 |
| Yousefkhani et al., 2017 | neutral | - | - | - | 0.033 | - | - | - | 0.251 | 0.182 |
| Yousefkhani et al., 2017 | negative | - | - | - | 0.04 | - | - | - | 0.034. | 0.200 |
| Yuan et al., 2016 | neutral | - | - | 0.71 | - | - | - | 215 | 0.49 | 0.057 |
| Yuan et al., 2016 | positive | - | - | 1.799 | - | - | - | 247 | P<0.1 | 0.085 |
| Yuan et al., 2016 | neutral | - | - | - | 0.019 | - | - | - | 0.284 | 0.138 |

Tabela S4 – Valores reais das horas de restrição críticas ($H_{r\ critica}$) por espécie.

| **Espécie** | **$H_{r\ critica}$** |
|---|---|
| *Trachylepis atlantica* | 6,80 |
| Scincídeos do Novo Mundo | |
| *Brasiliscincus agilis* | 6,88 |
| *Brasiliscincus heathi* | 5,50 |
| *Copeoglossum nigropunctatum* | 6,22 |
| *Mabuya mabouya* | 6,38 |
| *Notomabuya frenata* | 8,25 |
| *Psychosaura macrorhyncha* | 4,22 |
| Congêneros Africanos | |
| *Trachylepis brevicolis* | 8,44 |
| *Trachylepis maculilabris* | 4,53 |
| *Trachylepis occidentalis* | 6,35 |
| *Trachylepis perrotetii* | 8,34 |
| *Trachylepis planifrons* | 8,11 |
| *Trachylepis quinquetaeniata* | 9,09 |
| *Trachylepis spilogaster* | 6,67 |
| *Trachylepis striata* | 6,50 |
| *Trachylepis varia* | 8,48 |
| *Trachylepis variegata* | 7,62 |

Tabela S5 - Dados brutos extraídos do WorldClim para a Pan-Amazônia e suas Unidades de Conservação.

| Código | Modelo | Tmax 01 | Tmax 02 | Tmax 03 | Tmax 04 | Tmax 05 | Tmax 06 | Tmax 07 | Tmax 08 | Tmax 09 | Tmax 10 | Tmax 11 | Tmax 12 | Tmin 01 | Tmin 02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HE | 365.5 | 361.0 | 351.4 | 346.4 | 343.9 | 346.2 | 343.4 | 364.4 | 373.3 | 376.2 | 362.4 | 360.2 | 252.4 | 266.4 |
| 2 | HE | 362.9 | 361.6 | 351.2 | 346.8 | 342.4 | 343.4 | 344.5 | 358.7 | 367.5 | 374.8 | 362.6 | 360.7 | 299.2 | 264.2 |
| 3 | HE | 229.1 | 224.1 | 223.9 | 236.3 | 235.9 | 236.3 | 238.1 | 247.9 | 244.6 | 259.6 | 256.0 | 237.1 | 196.8 | 89.7 |
| 4 | HE | 363.7 | 361.1 | 351.1 | 345.9 | 346.5 | 350.4 | 346.0 | 363.9 | 374.7 | 384.6 | 367.9 | 360.4 | 266.5 | 265.4 |
| 5 | HE | 334.3 | 331.6 | 328.6 | 329.0 | 333.8 | 336.1 | 335.4 | 346.3 | 349.5 | 350.1 | 340.0 | 336.7 | 166.1 | 226.9 |
| 6 | HE | 359.3 | 354.0 | 353.5 | 354.0 | 353.4 | 356.2 | 359.4 | 381.4 | 386.2 | 376.6 | 362.9 | 361.3 | 169.5 | 256.0 |
| 7 | HE | 366.6 | 364.4 | 353.9 | 348.1 | 345.5 | 345.8 | 345.7 | 361.8 | 371.5 | 377.2 | 364.5 | 362.4 | 274.6 | 266.2 |
| 8 | HE | 267.9 | 270.4 | 265.6 | 265.7 | 264.7 | 259.6 | 254.0 | 259.4 | 266.3 | 277.4 | 279.7 | 273.4 | 106.1 | 153.9 |
| 9 | HE | 352.8 | 349.9 | 352.5 | 351.8 | 342.8 | 340.7 | 339.8 | 378.5 | 392.8 | 387.7 | 375.5 | 358.8 | 298.9 | 257.0 |
| 10 | HE | 347.8 | 343.4 | 342.0 | 338.5 | 324.7 | 312.7 | 320.0 | 351.8 | 370.3 | 367.4 | 366.3 | 352.8 | 371.8 | 254.2 |
| 11 | HE | 332.3 | 336.8 | 343.0 | 344.9 | 348.2 | 359.0 | 370.0 | 382.6 | 379.9 | 371.4 | 362.2 | 347.1 | 354.2 | 261.0 |
| 12 | HE | 339.7 | 338.1 | 340.7 | 344.2 | 348.0 | 353.8 | 364.3 | 381.9 | 379.1 | 373.0 | 367.2 | 354.1 | 211.9 | 266.4 |
| 13 | HE | 379.2 | 386.6 | 382.8 | 363.8 | 350.1 | 355.4 | 362.8 | 373.2 | 389.3 | 404.2 | 380.9 | 372.4 | 84.3 | 285.6 |
| 14 | HE | 282.7 | 283.0 | 282.3 | 275.0 | 265.7 | 260.3 | 264.0 | 290.0 | 306.3 | 300.3 | 299.7 | 296.0 | 262.7 | 195.3 |
| 15 | HE | 328.8 | 325.8 | 331.2 | 336.6 | 340.8 | 343.5 | 349.5 | 359.3 | 357.5 | 355.8 | 354.0 | 341.9 | 193.0 | 263.7 |
| 16 | HE | 317.0 | 315.9 | 313.0 | 310.9 | 300.8 | 294.1 | 297.2 | 324.3 | 334.9 | 332.0 | 334.8 | 323.7 | 258.6 | 216.1 |
| 17 | HE | 285.2 | 286.2 | 285.2 | 282.8 | 273.4 | 274.0 | 279.2 | 299.4 | 301.6 | 297.6 | 304.4 | 295.8 | 253.4 | 189.4 |
| 18 | HE | 329.0 | 335.0 | 339.0 | 341.0 | 340.0 | 354.0 | 373.0 | 389.0 | 381.0 | 369.0 | 358.0 | 343.0 | 270.0 | 268.0 |
| 19 | HE | 340.7 | 340.9 | 345.5 | 350.1 | 360.3 | 377.1 | 393.9 | 412.1 | 419.0 | 415.3 | 387.9 | 355.7 | 222.3 | 248.0 |
| 20 | HE | 349.3 | 351.9 | 348.6 | 344.7 | 342.1 | 353.2 | 360.9 | 380.4 | 386.9 | 384.0 | 365.9 | 354.7 | 273.9 | 261.5 |
| 21 | HE | 334.0 | 337.0 | 346.0 | 351.0 | 355.0 | 365.0 | 376.0 | 387.0 | 384.0 | 374.0 | 364.0 | 347.0 | 373.0 | 259.0 |
| 22 | HE | 341.4 | 342.2 | 347.6 | 354.6 | 368.4 | 388.2 | 403.0 | 413.4 | 415.2 | 409.6 | 387.4 | 359.4 | 196.2 | 252.2 |
| 23 | HE | 358.5 | 360.6 | 363.5 | 362.4 | 366.3 | 378.3 | 392.8 | 415.4 | 425.7 | 417.7 | 399.9 | 373.5 | 267.1 | 263.7 |
| 24 | HE | 350.3 | 354.3 | 351.0 | 346.3 | 344.0 | 357.0 | 365.3 | 385.0 | 390.7 | 386.3 | 367.0 | 357.0 | 275.0 | 267.7 |
| 25 | HE | 362.2 | 371.6 | 367.3 | 352.3 | 348.3 | 356.3 | 365.3 | 375.4 | 388.5 | 399.5 | 373.9 | 364.6 | 214.6 | 282.9 |
| 26 | HE | 360.2 | 371.2 | 370.1 | 355.0 | 350.7 | 357.8 | 368.5 | 378.4 | 391.6 | 401.4 | 375.1 | 365.9 | 191.2 | 285.4 |
| 27 | HE | 363.3 | 375.3 | 372.4 | 355.4 | 348.7 | 355.6 | 365.7 | 375.4 | 389.6 | 401.7 | 375.8 | 365.3 | 182.1 | 285.1 |
| 28 | HE | 366.2 | 377.3 | 381.0 | 366.3 | 358.3 | 362.7 | 375.4 | 394.4 | 420.2 | 436.0 | 402.3 | 376.1 | 159.3 | 290.8 |
| 29 | HE | 360.0 | 371.0 | 371.0 | 356.0 | 353.0 | 359.0 | 370.0 | 381.0 | 394.0 | 402.0 | 375.0 | 366.0 | 187.0 | 287.0 |
| 30 | HE | 372.6 | 375.3 | 374.3 | 361.7 | 350.9 | 357.9 | 372.4 | 401.4 | 424.3 | 423.9 | 408.0 | 383.0 | 93.4 | 274.0 |
| 31 | HE | 363.0 | 377.1 | 376.6 | 358.3 | 349.0 | 354.6 | 364.9 | 375.3 | 391.8 | 406.1 | 379.1 | 365.0 | 167.7 | 286.1 |
| 32 | HE | 333.0 | 335.0 | 343.0 | 349.3 | 353.0 | 362.7 | 373.0 | 384.0 | 382.3 | 372.7 | 362.3 | 346.3 | 350.3 | 259.0 |
| 33 | HE | 327.9 | 333.6 | 338.1 | 339.0 | 338.7 | 351.0 | 369.1 | 384.6 | 379.2 | 369.0 | 357.7 | 342.6 | 249.2 | 267.0 |
| 34 | HE | 349.5 | 337.0 | 352.5 | 348.5 | 347.0 | 363.5 | 376.0 | 394.0 | 403.5 | 397.0 | 369.0 | 356.0 | 290.0 | 263.5 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | HE | 337.1 | 337.8 | 342.8 | 350.3 | 362.8 | 381.9 | 397.7 | 409.0 | 410.8 | 405.4 | 383.4 | 354.5 | 203.4 | 248.4 |
| 36 | HE | 346.8 | 352.1 | 357.9 | 358.8 | 364.9 | 379.0 | 393.4 | 419.4 | 420.3 | 415.0 | 386.2 | 357.3 | 256.5 | 260.0 |
| 37 | HE | 360.0 | 371.9 | 370.8 | 356.7 | 352.7 | 359.6 | 370.2 | 380.7 | 393.0 | 402.6 | 375.9 | 366.8 | 188.7 | 286.8 |
| 38 | HE | 328.7 | 327.7 | 322.0 | 318.0 | 307.0 | 299.7 | 303.7 | 331.3 | 344.3 | 340.0 | 342.7 | 333.3 | 255.3 | 232.7 |
| 39 | HE | 339.5 | 340.2 | 346.2 | 350.9 | 358.8 | 372.9 | 389.5 | 413.7 | 425.5 | 416.2 | 384.8 | 353.3 | 265.6 | 239.1 |
| 40 | HE | 380.1 | 387.9 | 382.3 | 361.9 | 349.0 | 354.8 | 361.5 | 371.8 | 386.7 | 401.1 | 377.7 | 370.3 | 87.9 | 284.0 |
| 41 | HE | 361.5 | 362.5 | 359.0 | 352.0 | 330.0 | 325.0 | 331.0 | 367.0 | 394.0 | 395.0 | 390.0 | 375.0 | 194.5 | 263.5 |
| 42 | HE | 351.0 | 348.5 | 337.0 | 330.5 | 303.5 | 283.5 | 293.0 | 326.5 | 349.5 | 350.0 | 358.0 | 357.5 | 319.0 | 251.5 |
| 43 | HE | 357.3 | 353.8 | 355.9 | 355.3 | 358.5 | 366.0 | 368.4 | 400.3 | 417.0 | 409.1 | 385.6 | 365.9 | 252.3 | 266.9 |
| 44 | HE | 358.0 | 354.0 | 355.7 | 355.0 | 357.0 | 363.0 | 364.0 | 399.3 | 414.3 | 406.7 | 386.3 | 365.7 | 255.0 | 266.7 |
| 45 | HE | 361.5 | 362.5 | 359.0 | 352.0 | 330.0 | 325.0 | 331.0 | 367.0 | 394.0 | 395.0 | 390.0 | 375.0 | 194.5 | 263.5 |
| 46 | HE | 352.3 | 349.0 | 350.9 | 351.4 | 341.9 | 342.3 | 336.3 | 379.8 | 393.0 | 388.7 | 376.2 | 357.9 | 289.6 | 256.9 |
| 47 | HE | 343.4 | 339.3 | 337.8 | 334.4 | 321.6 | 310.4 | 317.4 | 348.0 | 365.4 | 362.7 | 361.6 | 348.2 | 336.5 | 248.8 |
| 48 | HE | 343.3 | 341.2 | 340.8 | 337.5 | 328.5 | 324.1 | 324.9 | 356.1 | 374.5 | 367.0 | 361.4 | 349.0 | 374.1 | 247.1 |
| 49 | HE | 388.3 | 406.3 | 389.7 | 361.3 | 349.3 | 340.0 | 343.3 | 351.3 | 362.0 | 372.0 | 369.0 | 373.0 | 36.3 | 282.7 |
| 50 | HE | 264.0 | 263.6 | 261.8 | 260.9 | 252.9 | 251.8 | 254.8 | 275.5 | 281.6 | 279.2 | 282.1 | 273.3 | 251.5 | 169.9 |
| 51 | HE | 330.8 | 328.9 | 319.1 | 311.6 | 292.1 | 274.6 | 282.2 | 310.5 | 327.9 | 329.1 | 337.3 | 338.2 | 268.2 | 224.7 |
| 52 | HE | 352.9 | 354.3 | 348.4 | 343.9 | 322.7 | 313.6 | 320.9 | 353.3 | 377.4 | 373.8 | 373.2 | 363.0 | 380.4 | 262.3 |
| 53 | HE | 310.9 | 310.4 | 309.5 | 305.0 | 293.1 | 287.9 | 291.7 | 320.6 | 338.7 | 332.7 | 327.6 | 320.4 | 307.7 | 218.9 |
| 54 | HE | 349.7 | 343.8 | 340.7 | 338.3 | 338.2 | 341.3 | 345.0 | 369.6 | 376.1 | 374.8 | 356.0 | 347.8 | 283.8 | 258.8 |
| 55 | HE | 350.3 | 355.7 | 346.0 | 337.1 | 336.4 | 339.0 | 339.0 | 356.4 | 363.4 | 369.9 | 353.6 | 346.0 | 227.1 | 260.0 |
| 56 | HE | 332.0 | 334.0 | 341.0 | 348.0 | 353.0 | 362.0 | 370.0 | 382.0 | 380.0 | 371.0 | 362.0 | 346.0 | 320.0 | 260.0 |
| 57 | HE | 332.0 | 334.0 | 341.0 | 348.0 | 352.0 | 362.0 | 371.0 | 381.0 | 379.0 | 371.0 | 361.0 | 346.0 | 335.0 | 259.0 |
| 58 | HE | 358.0 | 371.0 | 371.0 | 355.0 | 347.0 | 355.0 | 365.0 | 374.0 | 389.0 | 401.0 | 375.0 | 362.0 | 159.0 | 283.0 |
| 59 | HE | 347.0 | 345.0 | 341.0 | 341.0 | 332.0 | 338.0 | 345.0 | 378.0 | 390.0 | 384.0 | 369.0 | 350.0 | 258.0 | 263.0 |
| 60 | HE | 352.4 | 351.0 | 351.7 | 348.2 | 340.4 | 336.5 | 342.7 | 357.6 | 388.1 | 409.2 | 389.7 | 369.1 | 39.3 | 257.9 |
| 61 | HE | 336.4 | 343.7 | 343.5 | 344.4 | 338.5 | 331.4 | 335.8 | 347.5 | 358.8 | 363.4 | 351.7 | 340.1 | 78.8 | 260.6 |
| 62 | HE | 333.3 | 339.5 | 340.0 | 342.0 | 336.3 | 328.0 | 333.0 | 343.8 | 356.0 | 360.0 | 348.5 | 338.5 | 73.5 | 250.3 |
| 63 | HE | 318.0 | 321.3 | 325.0 | 330.0 | 329.8 | 328.5 | 336.0 | 341.8 | 341.0 | 341.0 | 336.5 | 328.0 | 244.3 | 244.0 |
| 64 | HE | 367.0 | 378.8 | 371.7 | 350.8 | 339.5 | 334.8 | 337.0 | 347.4 | 357.6 | 365.6 | 359.3 | 355.7 | 99.6 | 251.9 |
| 65 | HE | 321.0 | 326.0 | 327.0 | 330.0 | 323.0 | 330.0 | 344.0 | 359.0 | 366.0 | 366.0 | 351.0 | 331.0 | 172.0 | 256.0 |
| 66 | HE | 326.0 | 329.0 | 332.0 | 334.0 | 334.0 | 333.0 | 346.0 | 362.0 | 371.0 | 366.0 | 352.0 | 332.0 | 83.0 | 252.0 |
| 67 | HE | 270.9 | 270.4 | 266.8 | 273.7 | 276.0 | 274.9 | 272.8 | 280.0 | 283.7 | 286.3 | 283.9 | 284.9 | 116.1 | 174.9 |
| 68 | HE | 233.8 | 228.1 | 226.7 | 239.6 | 243.2 | 247.9 | 249.7 | 257.0 | 250.9 | 251.8 | 253.1 | 242.0 | 191.1 | 106.8 |
| 69 | HE | 320.1 | 313.4 | 314.1 | 326.5 | 328.2 | 331.3 | 330.4 | 343.2 | 343.0 | 335.4 | 332.5 | 321.1 | 394.7 | 203.1 |
| 70 | HE | 333.5 | 332.0 | 328.0 | 323.5 | 311.0 | 303.0 | 308.5 | 339.0 | 354.0 | 349.0 | 349.0 | 337.5 | 287.5 | 238.5 |
| 71 | HE | 357.9 | 353.5 | 355.8 | 352.9 | 339.3 | 338.3 | 345.1 | 358.6 | 385.9 | 410.6 | 392.1 | 374.9 | 86.4 | 260.6 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 72 | HE | 404.7 | 427.0 | 415.3 | 381.0 | 358.0 | 344.3 | 348.0 | 356.0 | 367.7 | 379.0 | 379.0 | 385.3 | 15.3 | 294.3 |
| 73 | HE | 404.5 | 427.0 | 415.0 | 381.0 | 358.0 | 344.0 | 348.0 | 356.0 | 367.5 | 379.0 | 379.0 | 385.0 | 15.5 | 294.0 |
| 74 | HE | 340.5 | 342.0 | 337.0 | 332.5 | 330.0 | 329.5 | 325.0 | 341.5 | 347.0 | 348.5 | 346.5 | 343.0 | 259.5 | 244.5 |
| 75 | HE | 339.7 | 336.3 | 336.8 | 339.6 | 338.7 | 341.3 | 341.4 | 371.7 | 378.0 | 375.4 | 358.7 | 342.6 | 245.3 | 245.2 |
| 76 | HE | 350.7 | 355.8 | 345.4 | 336.7 | 331.7 | 334.0 | 336.0 | 350.8 | 358.6 | 364.1 | 351.0 | 345.3 | 263.1 | 259.1 |
| 77 | HE | 344.7 | 343.2 | 346.2 | 346.5 | 349.9 | 359.9 | 373.8 | 398.9 | 405.5 | 394.9 | 382.0 | 361.8 | 208.0 | 255.0 |
| 78 | HE | 336.3 | 336.3 | 340.0 | 340.3 | 346.3 | 358.0 | 376.3 | 410.3 | 403.0 | 389.0 | 362.3 | 346.7 | 315.7 | 236.3 |
| 79 | HE | 325.7 | 328.9 | 341.4 | 359.2 | 363.7 | 378.3 | 400.6 | 434.0 | 427.6 | 412.3 | 380.9 | 347.5 | 408.0 | 228.5 |
| 80 | HE | 303.0 | 308.7 | 301.0 | 305.0 | 302.7 | 298.0 | 294.7 | 302.3 | 309.7 | 319.3 | 322.3 | 314.7 | 198.0 | 196.7 |
| 81 | HE | 275.7 | 278.7 | 273.3 | 276.3 | 274.7 | 268.7 | 263.0 | 270.0 | 277.3 | 289.0 | 291.0 | 284.0 | 163.0 | 165.0 |
| 82 | HE | 348.6 | 343.8 | 344.3 | 345.4 | 340.0 | 360.6 | 352.6 | 404.3 | 410.7 | 400.9 | 377.7 | 356.5 | 249.3 | 242.2 |
| 83 | HE | 331.7 | 332.4 | 335.2 | 333.3 | 329.8 | 343.3 | 362.4 | 385.4 | 396.5 | 385.3 | 367.5 | 348.2 | 124.3 | 249.2 |
| 84 | HE | 372.4 | 385.4 | 370.5 | 351.4 | 342.9 | 342.1 | 343.8 | 357.6 | 368.1 | 379.4 | 365.4 | 358.5 | 184.4 | 279.2 |
| 85 | HE | 340.8 | 342.3 | 350.4 | 358.7 | 363.9 | 372.7 | 389.6 | 411.2 | 424.6 | 404.2 | 376.2 | 362.1 | 316.4 | 238.0 |
| 86 | HE | 381.8 | 377.6 | 378.0 | 368.2 | 350.9 | 352.8 | 358.5 | 371.1 | 388.3 | 405.6 | 391.3 | 382.7 | 42.2 | 271.8 |
| 87 | HE | 357.7 | 356.7 | 357.6 | 353.1 | 339.8 | 343.2 | 354.2 | 371.7 | 403.3 | 424.0 | 400.0 | 375.9 | 100.1 | 261.0 |
| 88 | HE | 345.9 | 349.7 | 336.3 | 349.2 | 347.9 | 353.8 | 369.1 | 399.2 | 406.4 | 401.3 | 372.4 | 353.0 | 346.5 | 260.6 |
| 89 | HE | 370.1 | 380.1 | 381.0 | 366.8 | 353.3 | 356.9 | 367.9 | 386.0 | 415.6 | 435.3 | 407.9 | 380.6 | 126.8 | 282.1 |
| 90 | HE | 391.5 | 392.9 | 377.8 | 356.5 | 345.2 | 336.1 | 335.0 | 345.2 | 355.5 | 366.3 | 364.7 | 366.0 | 76.9 | 282.9 |
| 91 | HE | 341.9 | 344.5 | 353.2 | 355.6 | 360.4 | 373.7 | 390.2 | 415.8 | 423.2 | 416.3 | 387.0 | 354.1 | 248.9 | 251.2 |
| 92 | HE | 349.5 | 356.5 | 361.7 | 357.6 | 360.6 | 370.8 | 381.2 | 401.9 | 409.8 | 412.6 | 383.8 | 359.8 | 242.9 | 269.7 |
| 93 | HE | 325.0 | 325.9 | 331.4 | 327.8 | 326.1 | 338.4 | 358.4 | 373.1 | 369.3 | 365.1 | 355.4 | 335.5 | 193.7 | 254.5 |
| 94 | HE | 372.8 | 385.3 | 375.1 | 351.0 | 339.9 | 341.6 | 345.5 | 356.3 | 368.4 | 380.9 | 362.8 | 357.8 | 80.8 | 269.9 |
| 95 | HE | 380.6 | 381.7 | 381.4 | 367.9 | 352.3 | 354.4 | 361.1 | 373.0 | 391.0 | 406.8 | 387.5 | 380.0 | 58.4 | 281.2 |
| 96 | HE | 349.2 | 355.6 | 353.3 | 347.6 | 349.9 | 357.4 | 364.6 | 387.2 | 391.6 | 393.5 | 369.7 | 351.3 | 331.5 | 260.7 |
| 97 | HE | 347.3 | 339.7 | 346.6 | 347.0 | 346.3 | 360.2 | 373.0 | 399.0 | 407.9 | 399.4 | 370.5 | 355.2 | 310.5 | 258.9 |
| 98 | HE | 329.3 | 329.3 | 334.1 | 340.0 | 350.2 | 367.4 | 384.5 | 401.6 | 408.9 | 404.3 | 376.0 | 344.7 | 215.8 | 234.4 |
| 99 | HE | 354.2 | 357.6 | 359.6 | 356.1 | 356.2 | 369.2 | 386.4 | 406.5 | 406.1 | 393.5 | 380.3 | 364.5 | 154.7 | 258.1 |
| 100 | HE | 348.6 | 354.5 | 358.5 | 358.0 | 364.6 | 378.4 | 391.5 | 417.7 | 418.6 | 414.2 | 385.3 | 357.7 | 258.7 | 263.1 |
| 101 | HE | 351.8 | 358.1 | 366.8 | 364.2 | 366.0 | 376.9 | 389.6 | 409.2 | 418.3 | 418.5 | 390.4 | 363.3 | 218.7 | 270.3 |
| 102 | HE | 346.4 | 350.4 | 359.7 | 357.3 | 358.6 | 370.0 | 384.5 | 405.6 | 418.5 | 418.6 | 389.5 | 356.7 | 224.1 | 260.8 |
| 103 | HE | 346.2 | 354.6 | 344.9 | 348.5 | 352.0 | 358.5 | 370.6 | 399.9 | 403.7 | 401.6 | 373.0 | 352.7 | 329.5 | 260.4 |
| 104 | HE | 351.4 | 351.9 | 353.5 | 348.2 | 348.9 | 358.4 | 365.2 | 385.7 | 396.5 | 395.5 | 371.7 | 356.6 | 243.9 | 260.1 |
| 105 | HE | 335.8 | 335.8 | 340.8 | 344.7 | 353.2 | 369.8 | 386.6 | 406.4 | 415.7 | 412.0 | 381.8 | 351.1 | 226.1 | 239.0 |
| 106 | HE | 350.5 | 356.1 | 364.1 | 362.6 | 365.6 | 377.3 | 390.1 | 411.3 | 418.5 | 417.5 | 389.4 | 361.9 | 236.8 | 267.6 |
| 107 | HE | 346.3 | 351.9 | 340.3 | 349.1 | 349.6 | 355.7 | 369.2 | 397.9 | 404.5 | 401.4 | 372.7 | 353.1 | 324.1 | 261.3 |
| 108 | HE | 341.4 | 345.2 | 353.2 | 359.9 | 366.6 | 381.7 | 400.0 | 429.2 | 426.6 | 416.2 | 387.0 | 355.0 | 285.1 | 248.7 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | HE | 344.6 | 347.7 | 337.3 | 347.7 | 347.0 | 355.2 | 370.6 | 402.2 | 406.6 | 399.6 | 371.6 | 352.9 | 363.5 | 257.0 |
| 110 | HE | 346.4 | 352.6 | 350.8 | 349.9 | 358.4 | 368.5 | 379.4 | 407.3 | 408.7 | 406.3 | 374.3 | 352.1 | 317.1 | 258.3 |
| 111 | HE | 346.6 | 344.7 | 342.2 | 342.8 | 341.3 | 346.6 | 349.5 | 374.6 | 380.3 | 378.4 | 362.2 | 348.7 | 253.5 | 247.5 |
| 112 | HE | 351.8 | 353.9 | 348.9 | 345.9 | 345.8 | 350.9 | 353.8 | 373.3 | 381.8 | 383.7 | 365.9 | 355.2 | 254.7 | 246.4 |
| 113 | HE | 356.0 | 361.0 | 360.7 | 351.0 | 341.5 | 348.9 | 363.7 | 388.7 | 409.6 | 407.6 | 388.8 | 367.5 | 81.7 | 258.7 |
| 114 | HE | 352.9 | 361.1 | 366.2 | 359.3 | 360.0 | 368.2 | 377.0 | 394.8 | 405.8 | 412.8 | 384.4 | 363.2 | 230.8 | 276.9 |
| 115 | HE | 351.5 | 353.9 | 349.9 | 345.8 | 346.7 | 352.5 | 357.1 | 376.3 | 385.3 | 386.8 | 367.2 | 355.4 | 243.6 | 250.5 |
| 116 | HE | 372.0 | 370.5 | 372.2 | 364.2 | 345.7 | 342.6 | 347.2 | 358.2 | 374.2 | 393.4 | 385.1 | 372.6 | 35.4 | 254.0 |
| 117 | HE | 348.0 | 346.6 | 345.8 | 347.6 | 346.3 | 351.8 | 354.9 | 376.5 | 381.5 | 379.9 | 361.8 | 349.9 | 262.6 | 251.9 |
| 118 | HE | 348.3 | 346.1 | 343.4 | 343.5 | 341.4 | 346.5 | 350.4 | 375.1 | 381.2 | 379.6 | 363.5 | 350.6 | 256.7 | 247.5 |
| 119 | HE | 365.2 | 375.2 | 377.1 | 363.0 | 352.1 | 356.0 | 367.8 | 386.2 | 413.7 | 431.5 | 402.3 | 375.3 | 137.3 | 280.6 |
| 120 | HE | 354.8 | 359.6 | 365.0 | 355.5 | 351.5 | 360.7 | 374.9 | 398.7 | 420.6 | 427.5 | 400.1 | 364.8 | 183.3 | 263.3 |
| 121 | HE | 338.2 | 338.2 | 342.7 | 346.3 | 354.8 | 370.8 | 388.0 | 408.1 | 417.0 | 413.9 | 385.5 | 353.4 | 228.1 | 243.4 |
| 122 | HE | 355.2 | 363.2 | 355.2 | 345.6 | 345.4 | 347.5 | 350.8 | 367.0 | 376.7 | 385.8 | 363.2 | 350.0 | 297.6 | 270.8 |
| 123 | HE | 347.5 | 354.4 | 353.9 | 353.9 | 362.6 | 374.8 | 387.2 | 417.5 | 416.6 | 410.0 | 377.7 | 353.9 | 332.3 | 259.7 |
| 124 | HE | 350.9 | 358.8 | 354.1 | 347.0 | 349.3 | 355.3 | 359.9 | 381.5 | 386.2 | 390.0 | 367.1 | 350.3 | 318.1 | 263.2 |
| 125 | HE | 344.3 | 351.1 | 349.2 | 350.3 | 358.3 | 368.4 | 383.1 | 415.1 | 411.9 | 404.6 | 372.9 | 352.0 | 348.5 | 255.1 |
| 126 | HE | 365.9 | 378.3 | 380.7 | 365.0 | 352.3 | 355.3 | 365.9 | 381.9 | 408.6 | 428.5 | 399.0 | 373.9 | 132.9 | 285.1 |
| 127 | HE | 343.0 | 347.0 | 338.0 | 346.0 | 346.0 | 356.0 | 372.0 | 406.0 | 406.0 | 398.0 | 371.0 | 352.0 | 331.0 | 253.0 |
| 128 | HE | 341.0 | 346.0 | 339.0 | 344.0 | 347.0 | 357.0 | 373.0 | 407.0 | 405.0 | 396.0 | 369.0 | 351.0 | 306.0 | 250.0 |
| 129 | HE | 345.3 | 353.4 | 341.8 | 348.2 | 351.2 | 357.1 | 370.8 | 401.6 | 404.9 | 401.1 | 372.8 | 352.4 | 332.8 | 259.7 |
| 130 | HE | 348.2 | 340.6 | 350.0 | 348.3 | 347.8 | 361.0 | 373.1 | 394.3 | 402.0 | 397.0 | 369.8 | 354.7 | 309.1 | 262.8 |
| 131 | HE | 342.0 | 347.0 | 337.0 | 345.0 | 347.0 | 355.0 | 371.0 | 405.0 | 405.0 | 398.0 | 370.0 | 352.0 | 334.0 | 252.0 |
| 132 | HE | 342.4 | 346.2 | 337.8 | 345.2 | 345.4 | 354.8 | 371.8 | 405.4 | 405.2 | 397.0 | 370.0 | 351.4 | 327.6 | 251.4 |
| 133 | HE | 343.0 | 347.0 | 338.0 | 346.0 | 346.0 | 355.0 | 372.0 | 405.0 | 406.0 | 398.0 | 371.0 | 352.0 | 334.0 | 253.0 |
| 134 | HE | 349.0 | 336.3 | 352.0 | 347.0 | 346.7 | 362.7 | 374.7 | 394.0 | 404.3 | 397.0 | 369.7 | 356.0 | 286.0 | 262.7 |
| 135 | HE | 343.0 | 345.0 | 338.0 | 346.0 | 346.0 | 356.0 | 372.0 | 406.0 | 406.0 | 397.0 | 371.0 | 352.0 | 327.0 | 252.0 |
| 136 | HE | 326.3 | 326.2 | 333.0 | 328.7 | 327.1 | 337.3 | 356.8 | 372.0 | 370.9 | 367.8 | 357.6 | 336.8 | 209.2 | 252.6 |
| 137 | HE | 341.5 | 343.1 | 351.2 | 355.9 | 362.0 | 375.9 | 393.7 | 421.0 | 427.6 | 417.4 | 388.6 | 355.2 | 266.2 | 246.3 |
| 138 | HE | 343.4 | 350.4 | 345.5 | 347.9 | 354.1 | 362.8 | 377.9 | 410.3 | 407.8 | 400.9 | 371.1 | 351.3 | 358.8 | 254.4 |
| 139 | HE | 353.8 | 364.6 | 371.2 | 363.1 | 361.2 | 367.8 | 377.0 | 392.9 | 405.7 | 414.5 | 385.8 | 364.7 | 207.1 | 281.2 |
| 140 | HE | 341.6 | 344.4 | 345.6 | 341.1 | 336.2 | 348.2 | 365.3 | 386.9 | 398.2 | 389.8 | 373.5 | 355.4 | 110.3 | 254.8 |
| 141 | HE | 360.3 | 374.3 | 373.3 | 356.9 | 350.0 | 355.6 | 366.6 | 376.4 | 391.6 | 404.3 | 378.3 | 364.7 | 159.7 | 286.0 |
| 142 | HE | 344.0 | 350.6 | 350.0 | 350.6 | 359.6 | 370.9 | 385.0 | 416.3 | 413.8 | 406.2 | 373.5 | 351.4 | 340.1 | 254.9 |
| 143 | HE | 349.4 | 357.2 | 352.7 | 346.0 | 348.8 | 356.7 | 362.2 | 383.2 | 387.9 | 392.4 | 367.3 | 349.9 | 318.5 | 261.9 |
| 144 | HE | 369.9 | 377.0 | 377.4 | 364.5 | 348.1 | 351.1 | 362.0 | 380.2 | 413.7 | 436.3 | 410.4 | 382.3 | 112.8 | 275.9 |
| 145 | HE | 334.5 | 340.2 | 342.1 | 339.2 | 331.4 | 328.6 | 347.0 | 371.2 | 389.8 | 382.2 | 362.0 | 338.7 | 106.2 | 250.9 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 146 | HE | 362.2 | 367.9 | 369.1 | 369.7 | 361.2 | 346.5 | 354.2 | 367.4 | 387.2 | 400.5 | 389.9 | 370.2 | 21.5 | 247.7 |
| 147 | HE | 348.3 | 358.6 | 365.9 | 368.0 | 355.0 | 334.8 | 338.3 | 349.4 | 367.7 | 378.6 | 367.8 | 356.9 | 15.5 | 242.8 |
| 148 | HE | 352.4 | 360.6 | 366.4 | 368.4 | 356.6 | 337.4 | 342.6 | 354.4 | 374.0 | 386.0 | 376.4 | 362.6 | 18.8 | 245.4 |
| 149 | HE | 388.6 | 415.0 | 415.4 | 386.7 | 356.3 | 339.3 | 338.7 | 345.2 | 353.8 | 365.4 | 368.6 | 372.8 | 8.1 | 275.1 |
| 150 | HE | 333.2 | 339.0 | 342.1 | 340.6 | 327.3 | 308.9 | 316.1 | 326.3 | 341.2 | 357.7 | 352.7 | 339.6 | 23.3 | 217.9 |
| 151 | HE | 354.9 | 367.8 | 371.4 | 375.3 | 359.4 | 341.5 | 340.5 | 351.8 | 366.0 | 375.5 | 366.6 | 358.5 | 10.6 | 244.4 |
| 152 | HE | 355.3 | 370.1 | 376.1 | 369.1 | 348.3 | 332.6 | 334.3 | 341.9 | 351.1 | 359.5 | 354.5 | 348.0 | 35.9 | 243.1 |
| 153 | HE | 348.4 | 353.1 | 354.1 | 355.0 | 347.3 | 336.6 | 343.0 | 354.6 | 371.6 | 379.9 | 368.4 | 352.4 | 32.7 | 247.8 |
| 154 | HE | 356.7 | 368.7 | 372.5 | 374.6 | 359.1 | 337.2 | 339.6 | 349.2 | 361.6 | 371.3 | 364.5 | 357.3 | 13.1 | 248.0 |
| 155 | HE | 375.0 | 398.0 | 392.4 | 360.8 | 338.3 | 326.2 | 328.0 | 335.4 | 346.2 | 356.7 | 356.7 | 359.7 | 20.6 | 263.9 |
| 156 | HE | 321.0 | 327.0 | 328.0 | 330.0 | 324.0 | 330.0 | 343.0 | 359.0 | 366.0 | 367.0 | 351.0 | 330.0 | 170.0 | 257.0 |
| 157 | HE | 394.0 | 418.0 | 411.0 | 377.0 | 354.0 | 342.0 | 344.0 | 353.0 | 363.0 | 374.0 | 374.0 | 378.0 | 21.0 | 286.0 |
| 158 | HE | 342.0 | 338.0 | 330.3 | 315.5 | 291.3 | 270.5 | 281.8 | 315.0 | 336.3 | 337.5 | 347.5 | 350.3 | 197.3 | 232.5 |
| 159 | HE | 348.5 | 362.8 | 365.4 | 354.1 | 335.1 | 320.5 | 324.2 | 332.0 | 342.1 | 351.4 | 346.4 | 340.3 | 44.5 | 236.2 |
| 160 | HE | 350.4 | 356.0 | 355.6 | 353.4 | 348.2 | 344.4 | 352.0 | 362.2 | 377.4 | 381.2 | 369.8 | 353.6 | 61.0 | 259.6 |
| 161 | HE | 337.2 | 340.8 | 340.6 | 339.8 | 335.4 | 333.2 | 344.0 | 360.0 | 375.6 | 375.4 | 361.0 | 341.6 | 79.0 | 253.2 |
| 162 | HE | 333.2 | 335.5 | 335.0 | 335.3 | 332.2 | 331.7 | 343.3 | 360.0 | 375.8 | 373.5 | 357.8 | 337.3 | 74.7 | 250.7 |
| 163 | HE | 343.3 | 350.8 | 349.5 | 344.5 | 333.8 | 328.3 | 344.3 | 366.5 | 391.1 | 391.5 | 371.1 | 345.1 | 89.1 | 251.5 |
| 164 | HE | 341.6 | 338.9 | 340.5 | 347.2 | 346.4 | 348.3 | 348.3 | 375.4 | 376.0 | 375.6 | 358.9 | 344.7 | 258.2 | 244.1 |
| 165 | HE | 352.1 | 361.3 | 369.5 | 363.5 | 363.2 | 372.2 | 383.6 | 401.3 | 414.0 | 418.6 | 388.6 | 363.8 | 219.8 | 274.7 |
| 166 | HE | 318.0 | 316.9 | 308.9 | 299.8 | 285.3 | 269.3 | 275.1 | 300.5 | 314.9 | 315.8 | 323.6 | 325.7 | 220.7 | 208.3 |
| 167 | HE | 364.7 | 375.2 | 371.1 | 355.1 | 349.9 | 357.4 | 367.3 | 376.9 | 390.1 | 401.6 | 376.1 | 366.5 | 211.4 | 285.6 |
| 168 | HE | 333.3 | 331.6 | 331.4 | 328.5 | 320.6 | 314.5 | 314.6 | 343.6 | 360.8 | 353.5 | 351.7 | 339.0 | 516.3 | 235.1 |
| 169 | HE | 332.4 | 335.1 | 339.2 | 334.5 | 324.7 | 327.8 | 349.4 | 375.9 | 388.6 | 379.1 | 362.8 | 340.0 | 122.8 | 247.8 |
| 170 | HE | 344.7 | 351.8 | 345.3 | 347.7 | 353.7 | 361.7 | 375.6 | 406.6 | 406.0 | 401.3 | 372.0 | 351.6 | 362.2 | 256.0 |
| 171 | HE | 325.5 | 331.3 | 333.6 | 330.9 | 315.9 | 297.6 | 304.8 | 314.4 | 327.3 | 344.8 | 341.6 | 329.5 | 25.5 | 207.0 |
| 172 | HE | 304.3 | 301.5 | 296.0 | 293.0 | 283.0 | 275.1 | 276.5 | 301.3 | 315.6 | 320.5 | 321.8 | 315.4 | 352.1 | 186.9 |
| 173 | HE | 242.4 | 242.3 | 241.3 | 241.0 | 238.6 | 235.4 | 232.9 | 239.2 | 246.8 | 252.0 | 247.0 | 242.1 | 123.6 | 135.1 |
| 174 | HE | 341.6 | 337.8 | 336.8 | 337.5 | 341.5 | 345.3 | 347.7 | 359.2 | 359.8 | 356.7 | 348.9 | 343.5 | 250.6 | 218.8 |
| 175 | HE | 331.0 | 333.2 | 338.9 | 332.9 | 324.8 | 329.8 | 352.4 | 378.6 | 386.8 | 377.3 | 361.7 | 338.7 | 132.8 | 247.3 |
| 176 | HE | 325.4 | 322.4 | 330.6 | 327.0 | 326.1 | 331.9 | 346.9 | 359.8 | 365.8 | 368.0 | 358.6 | 337.0 | 233.6 | 248.9 |
| 177 | HE | 345.9 | 349.7 | 358.5 | 359.0 | 363.1 | 375.9 | 390.8 | 414.4 | 421.2 | 417.2 | 388.7 | 357.6 | 257.2 | 258.7 |
| 178 | HE | 366.3 | 361.3 | 351.9 | 343.7 | 341.9 | 337.3 | 328.5 | 352.5 | 364.4 | 356.6 | 357.6 | 349.8 | 127.4 | 265.5 |
| 179 | HE | 306.1 | 311.4 | 303.5 | 306.6 | 304.0 | 298.7 | 294.5 | 303.5 | 310.7 | 320.2 | 322.3 | 316.1 | 196.8 | 199.6 |
| 180 | HE | 367.4 | 375.5 | 365.3 | 348.5 | 343.7 | 352.7 | 360.1 | 369.3 | 382.5 | 395.6 | 371.0 | 361.3 | 206.5 | 279.6 |
| 181 | HE | 346.4 | 352.9 | 353.6 | 354.6 | 363.5 | 376.0 | 389.7 | 420.1 | 418.4 | 410.2 | 377.5 | 353.9 | 336.9 | 257.6 |
| 182 | HE | 330.7 | 331.5 | 329.7 | 330.0 | 323.3 | 315.5 | 322.9 | 335.2 | 355.4 | 371.1 | 360.6 | 342.0 | 120.1 | 231.1 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 183 | HE | 237.7 | 238.2 | 234.7 | 234.7 | 231.6 | 222.3 | 216.1 | 223.1 | 234.7 | 246.7 | 246.5 | 238.7 | 88.4 | 127.9 |
| 184 | HE | 308.3 | 307.1 | 306.6 | 303.2 | 294.1 | 290.1 | 292.3 | 320.3 | 336.6 | 330.2 | 326.8 | 316.9 | 335.8 | 213.6 |
| 185 | HE | 329.6 | 327.8 | 329.9 | 339.1 | 334.3 | 334.1 | 334.0 | 358.3 | 354.3 | 358.3 | 347.4 | 333.8 | 340.9 | 222.5 |
| 186 | HE | 349.8 | 345.7 | 353.4 | 348.3 | 348.4 | 360.8 | 370.4 | 391.7 | 401.8 | 398.4 | 371.8 | 355.6 | 286.0 | 261.6 |
| 187 | HE | 328.2 | 328.9 | 334.2 | 328.9 | 324.4 | 336.1 | 358.7 | 380.1 | 381.1 | 372.9 | 359.8 | 338.4 | 151.9 | 249.3 |
| 188 | HE | 297.4 | 298.7 | 299.8 | 297.7 | 286.7 | 275.3 | 281.8 | 294.8 | 315.8 | 335.4 | 327.2 | 309.5 | 37.8 | 186.3 |
| 189 | HE | 350.5 | 356.7 | 351.4 | 344.2 | 347.8 | 356.4 | 360.3 | 378.9 | 385.9 | 393.6 | 366.9 | 350.9 | 311.1 | 263.4 |
| 190 | HE | 290.2 | 290.3 | 285.9 | 283.0 | 281.8 | 279.1 | 277.6 | 285.5 | 291.9 | 291.0 | 283.7 | 283.8 | 122.1 | 188.4 |
| 191 | HE | 354.4 | 354.8 | 346.8 | 342.0 | 336.8 | 337.8 | 340.0 | 354.3 | 360.7 | 366.9 | 356.0 | 350.5 | 273.4 | 261.0 |
| 192 | HE | 362.7 | 362.5 | 353.5 | 352.4 | 339.9 | 334.8 | 340.3 | 352.8 | 357.7 | 361.1 | 356.6 | 359.5 | 313.8 | 265.6 |
| 193 | HE | 243.3 | 242.8 | 242.2 | 241.1 | 240.1 | 238.3 | 235.0 | 240.6 | 246.2 | 246.7 | 237.9 | 237.3 | 114.7 | 145.2 |
| 194 | HE | 295.9 | 298.4 | 293.9 | 286.2 | 283.2 | 281.6 | 279.8 | 291.6 | 294.5 | 292.3 | 283.1 | 284.6 | 80.3 | 200.5 |
| 195 | HE | 238.5 | 238.0 | 234.0 | 234.0 | 232.0 | 226.5 | 219.0 | 226.5 | 234.5 | 239.0 | 233.5 | 232.0 | 106.5 | 138.0 |
| 196 | HE | 362.1 | 357.1 | 347.9 | 340.6 | 340.3 | 334.3 | 325.1 | 347.3 | 356.7 | 355.0 | 352.8 | 348.6 | 117.7 | 261.9 |
| 197 | HE | 355.2 | 356.5 | 347.4 | 343.3 | 334.1 | 333.4 | 336.8 | 349.9 | 356.0 | 360.1 | 352.6 | 351.3 | 306.1 | 260.7 |
| 198 | HE | 292.8 | 292.0 | 288.8 | 286.2 | 283.9 | 282.7 | 282.3 | 289.9 | 295.4 | 294.5 | 287.4 | 286.8 | 154.8 | 189.5 |
| 199 | HE | 377.6 | 374.6 | 364.2 | 354.8 | 345.9 | 332.7 | 333.4 | 349.2 | 354.7 | 359.8 | 357.4 | 360.0 | 81.5 | 273.1 |
| 200 | HE | 371.6 | 374.1 | 365.8 | 345.6 | 340.5 | 333.0 | 330.7 | 343.0 | 347.3 | 350.0 | 346.1 | 348.2 | 34.6 | 259.6 |
| 201 | HE | 199.5 | 205.0 | 201.2 | 192.3 | 187.2 | 181.3 | 177.8 | 182.8 | 188.5 | 193.1 | 190.6 | 191.5 | 54.7 | 106.1 |
| 202 | HE | 369.1 | 370.2 | 365.3 | 349.7 | 344.3 | 339.7 | 338.9 | 353.9 | 356.7 | 355.4 | 350.7 | 351.6 | 69.8 | 254.2 |
| 203 | HE | 360.4 | 361.6 | 353.0 | 347.3 | 334.6 | 332.0 | 334.7 | 347.9 | 354.5 | 358.0 | 354.4 | 354.5 | 315.8 | 264.9 |
| 204 | HE | 347.2 | 341.3 | 341.5 | 342.3 | 334.2 | 347.9 | 348.3 | 391.4 | 405.1 | 395.6 | 376.3 | 355.4 | 261.6 | 236.0 |
| 205 | HE | 284.7 | 280.0 | 280.1 | 294.4 | 296.7 | 298.5 | 297.9 | 313.9 | 307.1 | 313.2 | 308.9 | 291.8 | 261.8 | 149.7 |
| 206 | HE | 341.6 | 335.8 | 338.8 | 338.9 | 337.4 | 355.4 | 360.7 | 402.0 | 404.9 | 393.7 | 367.3 | 349.3 | 278.2 | 239.0 |
| 207 | HE | 356.0 | 371.1 | 366.1 | 342.1 | 327.3 | 324.0 | 326.8 | 336.2 | 347.0 | 357.3 | 346.7 | 342.5 | 82.3 | 247.9 |
| 208 | HE | 368.8 | 381.4 | 366.9 | 346.8 | 338.8 | 339.0 | 342.2 | 354.0 | 364.8 | 376.6 | 360.7 | 354.1 | 152.2 | 271.5 |
| 209 | HE | 247.7 | 246.0 | 245.0 | 248.8 | 248.6 | 247.1 | 241.4 | 246.8 | 253.6 | 262.0 | 262.0 | 256.4 | 127.3 | 143.9 |
| 210 | HE | 272.0 | 268.3 | 268.0 | 270.7 | 275.0 | 281.1 | 286.2 | 288.3 | 286.2 | 282.6 | 280.5 | 278.9 | 108.3 | 146.8 |
| 211 | HE | 341.3 | 346.5 | 352.4 | 357.9 | 365.8 | 381.3 | 398.7 | 428.3 | 423.6 | 413.0 | 382.6 | 352.8 | 320.8 | 250.1 |
| 212 | HE | 240.8 | 241.1 | 237.5 | 237.3 | 237.9 | 231.7 | 226.6 | 233.5 | 241.9 | 250.2 | 250.1 | 244.3 | 107.7 | 132.1 |
| 213 | HE | 354.1 | 348.4 | 349.6 | 351.8 | 347.6 | 365.4 | 359.2 | 405.8 | 419.2 | 410.5 | 382.0 | 361.0 | 241.7 | 254.4 |
| 214 | HE | 379.5 | 380.9 | 379.1 | 362.6 | 346.3 | 349.4 | 355.3 | 367.0 | 382.3 | 396.8 | 377.6 | 372.3 | 53.1 | 273.1 |
| 215 | HE | 351.4 | 345.2 | 343.5 | 342.8 | 344.1 | 346.9 | 350.6 | 374.1 | 379.6 | 375.1 | 357.6 | 350.9 | 262.3 | 254.6 |
| 216 | HE | 339.8 | 340.9 | 346.9 | 349.1 | 355.3 | 369.8 | 386.8 | 410.5 | 423.2 | 416.8 | 384.0 | 351.8 | 239.8 | 242.4 |
| 217 | HE | 364.4 | 377.5 | 364.7 | 343.2 | 334.8 | 333.1 | 335.6 | 347.2 | 357.9 | 368.9 | 355.6 | 350.1 | 127.8 | 258.2 |
| 218 | HE | 282.0 | 281.7 | 279.9 | 278.2 | 277.3 | 273.5 | 270.6 | 280.4 | 287.8 | 291.9 | 287.3 | 282.6 | 211.2 | 170.3 |
| 219 | HE | 324.5 | 324.0 | 321.0 | 330.5 | 331.5 | 332.5 | 334.0 | 340.0 | 338.5 | 337.0 | 336.5 | 331.5 | 257.5 | 198.5 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 220 | HE | 187.1 | 180.7 | 191.3 | 189.7 | 192.3 | 192.4 | 192.5 | 212.6 | 211.0 | 224.3 | 217.1 | 202.4 | 215.5 | 58.3 |
| 221 | HE | 382.4 | 380.0 | 380.3 | 368.9 | 352.2 | 354.1 | 360.2 | 372.4 | 390.4 | 406.4 | 390.1 | 382.6 | 48.6 | 277.1 |
| 222 | HE | 270.9 | 270.7 | 271.6 | 273.5 | 270.7 | 270.9 | 271.8 | 286.9 | 282.2 | 286.8 | 293.1 | 280.4 | 188.1 | 155.1 |
| 223 | HE | 350.7 | 347.3 | 343.8 | 339.9 | 323.6 | 314.1 | 320.2 | 352.7 | 372.3 | 367.2 | 367.9 | 358.7 | 549.7 | 254.0 |
| 224 | HE | 221.6 | 216.7 | 219.1 | 220.6 | 224.6 | 229.9 | 222.8 | 225.9 | 230.2 | 234.5 | 233.6 | 228.2 | 109.7 | 115.4 |
| 225 | HE | 295.1 | 292.3 | 288.5 | 299.4 | 301.2 | 303.0 | 303.4 | 313.2 | 311.4 | 307.8 | 306.4 | 297.4 | 256.5 | 170.0 |
| 226 | HE | 388.0 | 402.1 | 393.8 | 368.5 | 353.8 | 346.1 | 348.7 | 357.1 | 367.4 | 375.9 | 375.3 | 374.9 | 42.4 | 275.4 |
| 227 | HE | 352.3 | 351.8 | 343.0 | 338.2 | 335.0 | 333.2 | 328.8 | 349.1 | 356.4 | 356.8 | 350.5 | 347.8 | 199.7 | 251.3 |
| 228 | HE | 345.8 | 343.8 | 342.7 | 344.3 | 343.6 | 348.8 | 350.5 | 375.9 | 380.5 | 379.0 | 361.5 | 347.9 | 256.0 | 248.8 |
| 229 | HE | 345.8 | 340.8 | 342.0 | 342.3 | 337.0 | 353.1 | 351.3 | 397.9 | 406.8 | 396.0 | 374.6 | 354.4 | 255.9 | 237.8 |
| 230 | HE | 337.1 | 341.3 | 352.7 | 367.2 | 372.6 | 388.1 | 410.0 | 440.7 | 435.5 | 418.0 | 384.0 | 357.3 | 384.1 | 241.0 |
| 231 | HE | 346.9 | 340.4 | 344.6 | 345.1 | 344.1 | 359.3 | 365.5 | 397.7 | 411.8 | 402.8 | 371.1 | 353.7 | 253.4 | 252.7 |
| 232 | HE | 341.8 | 349.2 | 344.8 | 346.8 | 353.4 | 362.9 | 377.8 | 410.2 | 407.1 | 400.0 | 370.5 | 350.1 | 357.8 | 252.6 |
| 233 | HE | 343.8 | 350.0 | 350.4 | 352.3 | 361.3 | 372.7 | 388.7 | 421.0 | 416.7 | 406.6 | 373.9 | 352.1 | 339.0 | 253.9 |
| 234 | HE | 355.0 | 357.7 | 354.4 | 346.7 | 351.0 | 359.0 | 363.0 | 378.4 | 389.4 | 399.8 | 372.9 | 359.1 | 335.0 | 269.2 |
| 235 | HE | 371.7 | 373.7 | 373.7 | 361.0 | 350.3 | 357.7 | 372.7 | 401.0 | 423.3 | 422.0 | 406.7 | 381.3 | 85.0 | 271.3 |
| 236 | HE | 366.1 | 375.9 | 369.3 | 352.4 | 346.4 | 355.3 | 363.3 | 372.7 | 386.8 | 399.2 | 374.5 | 365.1 | 172.0 | 282.8 |
| 237 | HE | 361.4 | 372.5 | 370.3 | 354.8 | 349.5 | 356.7 | 367.5 | 377.2 | 390.2 | 400.8 | 375.3 | 365.5 | 207.3 | 285.0 |
| 238 | HE | 375.0 | 386.6 | 380.7 | 355.2 | 340.1 | 341.5 | 346.1 | 356.7 | 370.1 | 383.4 | 365.5 | 360.9 | 49.9 | 268.1 |
| 239 | HE | 331.9 | 332.5 | 337.7 | 344.8 | 357.6 | 376.5 | 392.6 | 403.6 | 406.0 | 400.2 | 378.2 | 349.5 | 203.3 | 243.1 |
| 240 | HE | 354.3 | 349.2 | 348.2 | 351.1 | 345.3 | 367.8 | 350.9 | 407.0 | 417.1 | 410.0 | 384.0 | 361.4 | 245.3 | 250.9 |
| 241 | HE | 344.8 | 351.4 | 351.6 | 352.9 | 361.9 | 373.8 | 387.8 | 419.0 | 416.7 | 408.3 | 375.4 | 352.3 | 340.4 | 255.8 |
| 242 | HE | 359.0 | 369.0 | 369.0 | 356.0 | 351.0 | 358.0 | 369.0 | 380.0 | 393.0 | 402.0 | 376.0 | 365.0 | 184.0 | 285.0 |
| 243 | HE | 343.2 | 349.3 | 343.6 | 346.7 | 352.1 | 361.3 | 377.2 | 410.2 | 407.0 | 399.3 | 370.6 | 350.9 | 348.8 | 253.3 |
| 244 | HE | 332.5 | 334.8 | 342.5 | 349.0 | 352.8 | 362.5 | 372.5 | 383.0 | 381.0 | 372.0 | 361.8 | 346.3 | 339.5 | 259.0 |
| 245 | HE | 347.2 | 348.6 | 351.8 | 368.1 | 375.6 | 387.3 | 402.4 | 427.0 | 432.6 | 420.6 | 397.4 | 366.5 | 370.3 | 249.3 |
| 246 | HE | 354.7 | 356.3 | 352.1 | 349.7 | 337.1 | 342.4 | 333.8 | 375.8 | 400.7 | 396.1 | 385.5 | 364.0 | 272.7 | 259.3 |
| 247 | HE | 347.5 | 344.4 | 343.7 | 341.2 | 326.3 | 316.4 | 317.4 | 357.1 | 378.7 | 375.8 | 371.0 | 354.5 | 322.1 | 256.9 |
| 248 | HE | 324.5 | 327.3 | 331.0 | 328.5 | 327.5 | 343.3 | 365.0 | 378.0 | 370.3 | 363.5 | 353.5 | 335.0 | 176.5 | 257.8 |
| 249 | HE | 353.3 | 350.4 | 348.1 | 350.1 | 341.9 | 363.6 | 343.8 | 401.5 | 414.4 | 407.6 | 385.8 | 361.6 | 249.2 | 249.7 |
| 250 | HE | 342.0 | 345.3 | 353.5 | 361.0 | 367.5 | 379.8 | 401.0 | 421.0 | 438.3 | 403.5 | 374.0 | 364.0 | 292.5 | 239.0 |
| 251 | HE | 330.5 | 329.0 | 329.0 | 325.0 | 316.0 | 309.5 | 312.5 | 344.5 | 363.0 | 356.5 | 349.0 | 337.5 | 335.5 | 236.0 |
| 252 | HE | 336.0 | 336.0 | 340.0 | 348.0 | 360.0 | 379.0 | 395.0 | 408.0 | 414.0 | 409.0 | 382.0 | 351.0 | 197.0 | 241.0 |
| 253 | HE | 315.5 | 315.3 | 311.2 | 309.7 | 300.4 | 293.9 | 295.8 | 320.7 | 327.9 | 327.4 | 332.7 | 322.3 | 223.2 | 211.2 |
| 254 | HE | 324.9 | 328.7 | 333.5 | 331.0 | 325.2 | 327.2 | 342.7 | 361.7 | 372.0 | 369.0 | 354.0 | 332.1 | 182.7 | 250.0 |
| 255 | HE | 228.5 | 230.0 | 225.5 | 223.5 | 222.5 | 219.5 | 215.0 | 224.0 | 227.5 | 229.0 | 221.0 | 223.5 | 109.5 | 149.0 |
| 256 | HE | 378.0 | 385.0 | 374.0 | 354.0 | 347.0 | 338.0 | 337.0 | 348.0 | 351.0 | 353.0 | 350.0 | 354.0 | 30.0 | 263.0 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 257 | HE | 387.5 | 393.5 | 381.0 | 357.0 | 351.0 | 340.5 | 338.5 | 348.0 | 354.0 | 359.5 | 356.0 | 359.5 | 26.0 | 273.5 |
| 258 | HE | 211.8 | 210.4 | 206.6 | 204.4 | 202.6 | 196.6 | 189.8 | 199.2 | 205.4 | 209.6 | 203.8 | 204.8 | 116.8 | 116.6 |
| 259 | HE | 265.7 | 266.3 | 263.0 | 261.3 | 260.0 | 257.3 | 254.0 | 261.3 | 267.7 | 267.0 | 258.7 | 259.3 | 106.3 | 165.3 |
| 260 | HE | 354.9 | 368.0 | 372.5 | 365.9 | 343.2 | 327.1 | 330.7 | 339.2 | 350.0 | 361.1 | 356.7 | 347.8 | 49.7 | 241.5 |
| 261 | HE | 329.3 | 332.3 | 334.3 | 335.3 | 333.3 | 334.0 | 347.0 | 364.0 | 376.8 | 371.3 | 355.5 | 335.5 | 86.3 | 252.3 |
| 262 | HE | 359.0 | 367.2 | 355.2 | 341.7 | 338.2 | 343.3 | 347.0 | 359.5 | 369.3 | 379.3 | 360.1 | 351.2 | 276.5 | 266.7 |
| 263 | HE | 323.8 | 327.0 | 332.3 | 330.0 | 323.8 | 328.0 | 343.0 | 361.0 | 368.8 | 368.0 | 354.5 | 332.8 | 217.8 | 251.3 |
| 264 | HE | 328.4 | 325.3 | 330.9 | 336.4 | 340.6 | 343.2 | 349.0 | 358.6 | 357.0 | 355.5 | 353.7 | 341.4 | 189.5 | 263.6 |
| 265 | HE | 367.3 | 375.3 | 362.8 | 346.6 | 342.0 | 350.4 | 356.5 | 366.1 | 377.6 | 389.5 | 366.6 | 357.3 | 246.3 | 276.9 |
| 266 | HE | 345.9 | 352.6 | 351.3 | 352.0 | 360.3 | 371.0 | 385.1 | 416.7 | 414.1 | 406.8 | 374.7 | 353.3 | 344.5 | 256.8 |
| 267 | HE | 349.6 | 356.6 | 356.5 | 356.5 | 365.3 | 377.9 | 390.2 | 420.4 | 419.5 | 412.4 | 380.3 | 356.1 | 331.4 | 262.4 |
| 268 | HE | 356.0 | 364.7 | 368.6 | 358.3 | 356.5 | 363.2 | 371.0 | 385.5 | 398.2 | 409.3 | 382.2 | 365.0 | 202.7 | 282.6 |
| 269 | HE | 349.7 | 353.1 | 345.7 | 342.6 | 345.3 | 347.1 | 346.2 | 364.7 | 371.0 | 374.7 | 358.9 | 348.5 | 268.0 | 255.7 |
| 270 | HE | 354.9 | 358.5 | 356.1 | 350.6 | 356.8 | 364.8 | 370.4 | 389.1 | 397.7 | 405.8 | 377.4 | 360.0 | 292.0 | 269.3 |
| 271 | HE | 356.7 | 360.4 | 357.9 | 349.3 | 353.0 | 360.8 | 365.9 | 380.8 | 392.7 | 402.7 | 375.6 | 361.9 | 290.2 | 274.2 |
| 272 | HE | 322.5 | 325.0 | 328.0 | 326.5 | 327.0 | 345.4 | 366.3 | 379.4 | 372.6 | 362.6 | 351.5 | 334.8 | 179.0 | 253.8 |
| 273 | HE | 361.3 | 370.6 | 367.2 | 352.7 | 349.1 | 356.9 | 366.9 | 376.8 | 389.5 | 399.9 | 374.1 | 364.5 | 260.5 | 283.4 |
| 274 | HE | 360.2 | 370.5 | 369.2 | 355.0 | 350.3 | 358.3 | 369.2 | 378.8 | 392.0 | 401.3 | 375.0 | 365.8 | 209.7 | 285.3 |
| 275 | HE | 359.9 | 373.5 | 376.1 | 361.3 | 353.7 | 358.3 | 367.9 | 380.2 | 398.3 | 413.1 | 385.0 | 366.3 | 162.7 | 286.7 |
| 276 | HE | 354.6 | 358.4 | 354.2 | 345.8 | 348.9 | 356.9 | 361.7 | 376.6 | 387.5 | 397.9 | 370.7 | 357.4 | 325.0 | 269.3 |
| 277 | HE | 333.1 | 339.7 | 343.8 | 344.6 | 347.7 | 362.9 | 381.1 | 395.0 | 387.7 | 373.9 | 362.8 | 348.0 | 242.9 | 262.2 |
| 278 | HE | 358.4 | 366.5 | 354.6 | 341.4 | 337.8 | 342.7 | 346.2 | 359.0 | 368.7 | 378.5 | 359.6 | 350.7 | 272.6 | 266.1 |
| 279 | HE | 353.5 | 359.5 | 353.2 | 344.0 | 344.7 | 354.2 | 358.0 | 373.2 | 383.6 | 393.6 | 366.8 | 352.1 | 298.7 | 268.4 |
| 280 | HE | 352.8 | 356.0 | 351.8 | 345.0 | 349.5 | 357.7 | 361.1 | 377.7 | 387.0 | 397.0 | 369.9 | 355.7 | 330.6 | 265.3 |
| 281 | HE | 356.5 | 360.0 | 357.7 | 349.7 | 353.8 | 361.5 | 367.3 | 382.4 | 393.9 | 403.5 | 376.3 | 361.9 | 290.2 | 273.5 |
| 282 | HE | 347.2 | 353.9 | 348.5 | 342.5 | 347.7 | 347.7 | 347.7 | 368.3 | 376.1 | 378.5 | 359.9 | 346.9 | 271.8 | 261.7 |
| 283 | HE | 277.0 | 276.6 | 273.9 | 278.5 | 279.6 | 278.7 | 270.2 | 277.0 | 283.7 | 292.3 | 292.4 | 286.9 | 161.4 | 167.6 |
| 284 | HE | 383.6 | 382.2 | 381.8 | 368.7 | 351.8 | 354.5 | 360.1 | 372.4 | 389.2 | 404.2 | 386.6 | 380.6 | 49.8 | 277.3 |
| 285 | HE | 349.7 | 356.3 | 346.4 | 337.5 | 336.9 | 339.0 | 339.5 | 356.7 | 364.9 | 371.0 | 354.2 | 345.9 | 228.9 | 260.6 |
| 286 | HE | 331.0 | 329.0 | 334.0 | 335.5 | 342.5 | 354.5 | 370.5 | 401.5 | 401.0 | 385.5 | 356.5 | 342.5 | 338.5 | 228.5 |
| 287 | HE | 366.7 | 380.9 | 381.4 | 362.2 | 349.8 | 354.0 | 363.9 | 375.5 | 395.3 | 411.8 | 384.0 | 367.3 | 158.6 | 287.8 |
| 288 | HE | 353.8 | 353.3 | 345.0 | 341.0 | 320.3 | 311.3 | 316.3 | 350.0 | 371.8 | 366.5 | 368.0 | 362.5 | 587.5 | 261.5 |
| 289 | HE | 351.3 | 359.1 | 352.2 | 344.3 | 345.1 | 355.1 | 358.3 | 375.1 | 382.8 | 391.4 | 364.7 | 348.6 | 317.2 | 266.0 |
| 290 | HE | 342.2 | 348.3 | 344.2 | 346.7 | 352.9 | 362.0 | 378.6 | 411.6 | 407.4 | 399.1 | 369.7 | 350.2 | 347.4 | 251.9 |
| 291 | HE | 329.8 | 332.6 | 334.6 | 333.5 | 334.2 | 350.9 | 369.6 | 385.2 | 383.7 | 371.2 | 358.9 | 343.6 | 144.6 | 253.6 |
| 292 | HE | 342.5 | 342.4 | 346.7 | 349.6 | 358.3 | 373.9 | 390.8 | 411.7 | 420.5 | 417.3 | 390.2 | 357.4 | 231.4 | 248.8 |
| 293 | HE | 326.9 | 324.3 | 330.5 | 330.8 | 331.9 | 338.5 | 347.3 | 358.7 | 365.6 | 368.8 | 360.7 | 341.9 | 305.1 | 257.8 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 294 | HE | 351.0 | 357.3 | 359.4 | 354.6 | 358.8 | 368.7 | 377.8 | 398.9 | 406.7 | 410.7 | 381.9 | 359.6 | 258.3 | 270.5 |
| 295 | HE | 341.3 | 342.9 | 349.6 | 351.1 | 356.0 | 370.0 | 387.1 | 412.8 | 424.5 | 417.3 | 387.4 | 353.1 | 234.5 | 246.4 |
| 296 | HE | 375.3 | 374.0 | 376.1 | 370.4 | 351.4 | 345.9 | 349.7 | 360.7 | 376.9 | 396.2 | 390.4 | 377.2 | 31.7 | 256.1 |
| 297 | HE | 356.1 | 350.8 | 351.9 | 354.0 | 350.8 | 366.0 | 363.0 | 403.7 | 421.3 | 413.4 | 383.3 | 361.9 | 246.6 | 259.2 |
| 298 | HE | 350.0 | 341.8 | 352.4 | 348.0 | 347.2 | 362.0 | 372.3 | 393.8 | 406.5 | 400.8 | 371.7 | 356.8 | 258.4 | 261.0 |
| 299 | HE | 256.8 | 257.1 | 254.9 | 254.8 | 252.7 | 246.1 | 242.4 | 250.2 | 259.6 | 266.3 | 263.9 | 257.8 | 151.3 | 147.4 |
| 300 | HE | 351.4 | 346.2 | 348.4 | 349.7 | 348.1 | 362.7 | 365.7 | 400.2 | 417.0 | 409.0 | 375.9 | 357.7 | 240.7 | 257.3 |
| 301 | HE | 385.1 | 390.5 | 368.6 | 349.1 | 337.1 | 335.2 | 335.6 | 348.3 | 361.7 | 371.8 | 368.8 | 367.5 | 145.5 | 272.0 |
| 302 | HE | 320.0 | 323.0 | 328.0 | 326.0 | 319.0 | 325.0 | 339.0 | 356.0 | 364.0 | 363.0 | 349.5 | 328.0 | 197.5 | 249.5 |
| 303 | HE | 354.8 | 352.9 | 350.1 | 349.9 | 338.8 | 353.4 | 340.2 | 391.2 | 410.4 | 406.2 | 388.5 | 364.8 | 243.2 | 251.4 |
| 304 | HE | 369.0 | 363.1 | 353.4 | 344.3 | 343.0 | 336.5 | 328.8 | 355.3 | 366.1 | 358.7 | 358.3 | 351.4 | 119.4 | 266.5 |
| 305 | HE | 331.5 | 330.9 | 332.3 | 334.9 | 325.6 | 319.7 | 318.6 | 345.0 | 352.0 | 351.3 | 347.9 | 337.0 | 577.4 | 233.6 |
| 306 | HE | 305.8 | 300.7 | 302.0 | 315.8 | 316.6 | 317.0 | 315.2 | 332.4 | 325.5 | 330.9 | 326.3 | 310.2 | 288.9 | 174.9 |
| 307 | HE | 280.7 | 280.0 | 276.8 | 282.7 | 284.9 | 285.3 | 277.9 | 286.2 | 290.2 | 294.8 | 295.4 | 292.4 | 126.5 | 175.9 |
| 308 | HE | 325.5 | 320.2 | 319.8 | 330.0 | 332.7 | 336.3 | 336.6 | 354.9 | 355.8 | 347.6 | 339.3 | 329.9 | 275.7 | 209.2 |
| 309 | HE | 370.7 | 365.0 | 355.7 | 345.8 | 345.1 | 337.6 | 328.6 | 355.8 | 368.3 | 356.6 | 360.2 | 350.5 | 110.0 | 271.1 |
| 310 | HE | 328.7 | 325.2 | 327.5 | 342.2 | 340.6 | 341.2 | 339.6 | 357.8 | 346.7 | 354.9 | 347.0 | 332.1 | 283.0 | 203.8 |
| 311 | HE | 343.8 | 341.6 | 342.4 | 347.4 | 346.4 | 350.1 | 350.8 | 377.5 | 380.6 | 379.9 | 361.2 | 346.8 | 247.6 | 249.0 |
| 312 | HE | 320.0 | 323.6 | 317.2 | 323.8 | 318.3 | 313.8 | 310.4 | 321.0 | 325.9 | 334.0 | 336.5 | 331.3 | 229.3 | 216.0 |
| 313 | HE | 325.9 | 323.6 | 323.9 | 332.4 | 331.9 | 334.6 | 333.3 | 346.4 | 347.1 | 339.6 | 336.7 | 328.6 | 373.2 | 214.0 |
| 314 | HE | 347.5 | 343.0 | 344.1 | 342.5 | 329.8 | 321.8 | 322.0 | 361.9 | 380.7 | 377.7 | 370.7 | 352.7 | 314.0 | 256.3 |
| 315 | HE | 338.0 | 335.9 | 335.4 | 331.6 | 317.7 | 309.8 | 316.9 | 346.6 | 364.4 | 360.0 | 355.2 | 343.5 | 313.0 | 243.0 |
| 316 | HE | 356.2 | 353.1 | 344.5 | 340.1 | 337.5 | 335.3 | 328.2 | 346.7 | 356.2 | 355.8 | 352.2 | 348.4 | 176.1 | 254.7 |
| 317 | HE | 224.6 | 224.6 | 221.6 | 222.0 | 218.8 | 211.9 | 207.1 | 213.1 | 222.9 | 233.0 | 231.2 | 225.1 | 115.3 | 114.8 |
| 318 | HE | 312.3 | 312.3 | 311.1 | 309.1 | 305.6 | 306.4 | 306.7 | 314.6 | 319.9 | 321.9 | 315.2 | 311.8 | 175.1 | 210.1 |
| 319 | HE | 251.0 | 251.3 | 250.7 | 249.0 | 248.0 | 248.3 | 247.3 | 253.0 | 257.0 | 254.0 | 244.0 | 244.7 | 105.3 | 151.7 |
| 320 | HE | 366.4 | 364.6 | 353.9 | 347.2 | 346.6 | 351.3 | 346.5 | 365.6 | 377.3 | 386.5 | 371.3 | 364.8 | 270.6 | 268.3 |
| 321 | HE | 349.4 | 346.8 | 345.9 | 344.5 | 339.5 | 342.6 | 344.1 | 378.7 | 394.4 | 386.3 | 374.8 | 354.9 | 262.4 | 259.3 |
| 322 | HE | 184.1 | 178.7 | 189.4 | 188.3 | 190.6 | 191.3 | 191.1 | 211.4 | 207.7 | 220.9 | 213.3 | 198.7 | 210.1 | 55.9 |
| 323 | HE | 372.7 | 366.0 | 358.3 | 355.4 | 354.4 | 358.9 | 356.1 | 376.9 | 385.0 | 391.9 | 372.4 | 364.7 | 249.5 | 269.7 |
| 324 | HE | 371.1 | 366.2 | 358.5 | 356.9 | 354.8 | 358.8 | 357.2 | 377.8 | 384.7 | 387.0 | 371.5 | 366.1 | 226.4 | 270.2 |
| 325 | HE | 362.2 | 359.3 | 348.5 | 344.2 | 340.9 | 340.3 | 337.4 | 359.5 | 367.3 | 367.4 | 356.9 | 356.0 | 204.5 | 262.2 |
| 326 | HE | 347.1 | 345.6 | 344.8 | 342.7 | 336.6 | 331.9 | 330.5 | 360.5 | 377.8 | 369.4 | 366.4 | 351.0 | 417.4 | 247.9 |
| 327 | HE | 347.0 | 343.0 | 334.0 | 331.0 | 328.0 | 324.0 | 321.0 | 336.0 | 339.0 | 344.0 | 338.0 | 339.0 | 180.0 | 249.0 |
| 328 | HE | 347.1 | 343.5 | 344.3 | 346.6 | 347.6 | 349.9 | 353.1 | 375.9 | 379.2 | 375.7 | 358.6 | 348.3 | 235.8 | 251.8 |
| 329 | HE | 345.9 | 342.9 | 343.5 | 344.4 | 345.4 | 348.1 | 352.4 | 373.6 | 378.3 | 376.2 | 358.1 | 347.1 | 242.2 | 251.5 |
| 330 | HE | 340.3 | 345.3 | 336.3 | 343.3 | 345.3 | 353.3 | 371.0 | 405.0 | 403.3 | 395.3 | 367.7 | 348.7 | 322.0 | 249.7 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 331 | HE | 340.4 | 342.9 | 338.3 | 342.1 | 344.9 | 355.9 | 373.9 | 408.5 | 403.0 | 393.0 | 367.5 | 349.4 | 254.5 | 245.5 |
| 332 | HE | 352.4 | 354.3 | 350.2 | 346.3 | 345.9 | 352.6 | 357.4 | 376.9 | 386.0 | 386.9 | 367.8 | 356.9 | 240.6 | 250.3 |
| 333 | HE | 354.8 | 359.2 | 364.6 | 363.6 | 363.0 | 374.4 | 389.4 | 409.0 | 411.1 | 397.8 | 382.7 | 364.5 | 237.5 | 256.0 |
| 334 | HE | 356.0 | 364.7 | 352.2 | 338.7 | 334.6 | 338.6 | 341.3 | 354.8 | 364.3 | 374.2 | 356.7 | 348.4 | 245.1 | 263.3 |
| 335 | HE | 354.3 | 362.2 | 352.7 | 343.1 | 342.2 | 344.0 | 346.5 | 362.3 | 372.2 | 381.8 | 360.8 | 348.7 | 314.6 | 267.0 |
| 336 | HE | 355.4 | 349.7 | 350.7 | 353.4 | 349.1 | 365.8 | 361.1 | 405.0 | 420.5 | 412.5 | 382.6 | 361.7 | 243.3 | 257.0 |
| 337 | HE | 351.3 | 358.4 | 354.6 | 349.0 | 350.2 | 356.1 | 362.2 | 384.4 | 388.7 | 391.4 | 369.9 | 351.9 | 335.4 | 261.3 |
| 338 | HE | 341.2 | 345.3 | 338.5 | 343.3 | 345.8 | 355.5 | 372.8 | 407.5 | 404.2 | 394.7 | 368.2 | 350.3 | 293.8 | 248.7 |
| 339 | HE | 358.0 | 364.7 | 355.9 | 344.5 | 343.2 | 351.2 | 355.7 | 369.2 | 379.2 | 388.0 | 364.4 | 351.3 | 296.0 | 271.2 |
| 340 | HE | 349.2 | 348.6 | 344.8 | 344.6 | 342.3 | 347.9 | 350.4 | 372.8 | 379.3 | 378.7 | 363.1 | 351.4 | 275.2 | 244.5 |
| 341 | HE | 344.8 | 342.9 | 340.6 | 340.6 | 337.0 | 342.7 | 347.8 | 376.3 | 384.7 | 380.6 | 364.3 | 348.2 | 250.3 | 254.6 |
| 342 | HE | 330.3 | 322.3 | 314.3 | 332.3 | 340.0 | 348.0 | 351.0 | 356.8 | 357.5 | 360.0 | 358.8 | 347.3 | 390.5 | 253.8 |
| 343 | HE | 348.7 | 348.7 | 351.7 | 357.0 | 366.7 | 384.0 | 402.7 | 420.7 | 421.7 | 410.7 | 392.7 | 367.7 | 232.0 | 259.0 |
| 344 | HE | 357.5 | 353.5 | 351.5 | 355.5 | 347.5 | 368.5 | 349.0 | 409.5 | 421.5 | 413.5 | 389.5 | 364.5 | 247.0 | 255.0 |
| 345 | HE | 327.0 | 325.0 | 330.0 | 335.0 | 338.0 | 340.0 | 344.0 | 352.0 | 351.0 | 351.0 | 350.0 | 339.0 | 119.0 | 263.0 |
| 346 | HE | 347.2 | 347.0 | 351.0 | 356.3 | 366.3 | 383.8 | 401.3 | 418.7 | 419.8 | 409.3 | 391.3 | 366.3 | 247.3 | 257.8 |
| 347 | HE | 341.8 | 345.8 | 339.8 | 344.0 | 346.8 | 356.8 | 374.3 | 408.5 | 404.8 | 395.0 | 368.8 | 350.8 | 284.8 | 249.0 |
| 348 | HE | 343.0 | 347.0 | 341.0 | 345.0 | 348.0 | 358.0 | 376.0 | 410.0 | 406.0 | 396.0 | 370.0 | 352.0 | 290.0 | 250.0 |
| 349 | HE | 344.0 | 350.9 | 347.7 | 348.5 | 356.2 | 366.0 | 380.5 | 412.5 | 409.5 | 402.8 | 371.9 | 351.8 | 356.6 | 254.7 |
| 350 | HE | 342.4 | 348.1 | 345.9 | 347.5 | 354.3 | 364.5 | 381.1 | 414.6 | 409.4 | 400.1 | 370.4 | 351.1 | 342.4 | 251.3 |
| 351 | HE | 341.7 | 347.3 | 351.4 | 351.2 | 354.0 | 368.3 | 385.6 | 400.7 | 395.7 | 382.3 | 370.7 | 355.1 | 216.1 | 257.6 |
| 352 | HE | 362.7 | 366.5 | 370.0 | 367.8 | 366.5 | 377.5 | 391.4 | 414.1 | 423.1 | 411.1 | 394.2 | 373.3 | 220.1 | 262.2 |
| 353 | HE | 341.0 | 345.0 | 337.0 | 344.0 | 345.0 | 354.0 | 370.0 | 405.0 | 404.0 | 395.0 | 368.0 | 350.0 | 323.0 | 250.0 |
| 354 | HE | 343.0 | 345.0 | 340.0 | 344.0 | 346.0 | 357.0 | 374.0 | 410.0 | 405.0 | 395.0 | 369.0 | 352.0 | 267.0 | 249.0 |
| 355 | HE | 351.0 | 348.8 | 354.6 | 348.8 | 349.1 | 359.9 | 368.2 | 388.9 | 399.4 | 397.7 | 372.4 | 356.2 | 259.6 | 261.5 |
| 356 | HE | 349.3 | 341.2 | 349.5 | 348.1 | 347.5 | 361.9 | 372.9 | 399.5 | 411.1 | 402.4 | 372.8 | 357.0 | 280.6 | 259.6 |
| 357 | HE | 342.0 | 344.0 | 339.0 | 343.0 | 344.0 | 355.0 | 373.0 | 408.0 | 404.0 | 394.0 | 368.0 | 350.0 | 273.0 | 248.0 |
| 358 | HE | 351.7 | 356.0 | 351.4 | 344.9 | 349.9 | 358.0 | 361.8 | 380.0 | 387.4 | 396.3 | 369.4 | 354.0 | 316.2 | 263.8 |
| 359 | HE | 348.2 | 348.3 | 347.5 | 349.7 | 349.9 | 359.4 | 371.5 | 396.1 | 403.1 | 399.7 | 372.2 | 354.4 | 331.8 | 263.0 |
| 360 | HE | 328.0 | 325.2 | 323.6 | 336.0 | 341.8 | 349.4 | 352.3 | 359.5 | 360.5 | 359.7 | 355.6 | 344.0 | 426.7 | 257.5 |
| 361 | HE | 334.5 | 341.2 | 348.0 | 349.0 | 352.4 | 365.0 | 378.9 | 391.7 | 387.1 | 376.0 | 365.6 | 349.5 | 328.7 | 258.1 |
| 362 | HE | 329.7 | 322.3 | 315.1 | 332.7 | 339.8 | 347.9 | 350.7 | 356.7 | 357.5 | 359.8 | 358.3 | 346.7 | 404.4 | 254.2 |
| 363 | HE | 341.0 | 346.0 | 339.0 | 343.5 | 347.3 | 356.8 | 374.5 | 408.5 | 404.8 | 395.8 | 368.8 | 349.5 | 307.5 | 249.3 |
| 364 | HE | 325.0 | 307.0 | 321.0 | 332.0 | 340.0 | 346.0 | 350.0 | 354.0 | 357.0 | 360.0 | 358.0 | 341.0 | 324.0 | 254.0 |
| 365 | HE | 324.0 | 309.0 | 325.0 | 333.0 | 340.0 | 345.0 | 350.0 | 355.0 | 357.0 | 359.0 | 357.0 | 339.0 | 274.0 | 256.0 |
| 366 | HE | 324.0 | 311.5 | 325.5 | 333.0 | 339.5 | 345.0 | 349.5 | 355.5 | 357.5 | 358.5 | 356.0 | 338.5 | 255.0 | 257.0 |
| 367 | HE | 326.7 | 327.6 | 331.4 | 337.6 | 342.2 | 348.6 | 348.5 | 356.9 | 359.2 | 357.3 | 352.3 | 341.3 | 427.6 | 262.9 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 368 | HE | 326.0 | 311.0 | 318.0 | 331.0 | 340.0 | 347.0 | 350.0 | 354.0 | 357.0 | 360.0 | 359.0 | 344.0 | 352.0 | 252.0 |
| 369 | HE | 329.0 | 325.0 | 320.3 | 335.3 | 341.3 | 349.3 | 352.3 | 359.0 | 359.3 | 359.7 | 357.0 | 345.3 | 424.7 | 256.7 |
| 370 | HE | 328.0 | 326.5 | 327.0 | 337.5 | 343.5 | 350.5 | 353.0 | 362.0 | 362.0 | 360.0 | 355.5 | 343.5 | 422.0 | 259.5 |
| 371 | HE | 340.7 | 345.3 | 338.7 | 343.0 | 346.3 | 356.3 | 374.3 | 408.7 | 404.3 | 394.0 | 368.3 | 350.3 | 296.7 | 247.7 |
| 372 | HE | 346.6 | 354.1 | 348.6 | 341.7 | 347.5 | 345.9 | 345.8 | 366.6 | 375.3 | 377.8 | 358.3 | 345.5 | 266.0 | 264.8 |
| 373 | HE | 351.1 | 354.8 | 353.9 | 348.2 | 350.1 | 355.7 | 361.8 | 382.5 | 390.5 | 391.5 | 369.8 | 354.0 | 282.6 | 260.3 |
| 374 | HE | 342.0 | 346.5 | 338.5 | 344.5 | 347.5 | 356.5 | 373.5 | 408.0 | 405.5 | 397.0 | 369.5 | 350.5 | 311.0 | 250.5 |
| 375 | HE | 350.7 | 346.9 | 346.3 | 347.4 | 341.0 | 361.3 | 350.2 | 403.0 | 412.2 | 403.7 | 381.2 | 359.0 | 250.6 | 244.9 |
| 376 | HE | 341.5 | 345.5 | 339.5 | 343.5 | 346.5 | 356.5 | 374.5 | 408.5 | 404.5 | 394.5 | 368.5 | 350.5 | 279.5 | 248.5 |
| 377 | HE | 365.9 | 368.6 | 368.8 | 359.0 | 350.9 | 360.2 | 376.6 | 404.5 | 419.0 | 413.0 | 397.6 | 375.5 | 106.5 | 266.0 |
| 378 | HE | 333.1 | 337.9 | 340.6 | 341.1 | 344.4 | 361.3 | 380.2 | 393.6 | 386.3 | 372.7 | 361.5 | 347.4 | 169.1 | 261.2 |
| 379 | HE | 354.3 | 348.2 | 348.9 | 351.5 | 346.8 | 365.8 | 357.0 | 406.9 | 418.5 | 409.5 | 382.5 | 361.0 | 242.8 | 253.0 |
| 380 | HE | 356.0 | 350.6 | 350.5 | 353.5 | 347.7 | 367.1 | 355.6 | 408.0 | 420.8 | 412.3 | 385.6 | 363.1 | 244.6 | 254.6 |
| 381 | HE | 352.3 | 351.4 | 346.6 | 345.6 | 345.3 | 351.5 | 354.9 | 372.2 | 377.2 | 377.9 | 361.0 | 351.7 | 243.0 | 257.2 |
| 382 | HE | 344.6 | 347.2 | 354.2 | 352.1 | 354.3 | 367.3 | 383.3 | 407.7 | 422.6 | 419.8 | 388.8 | 354.2 | 195.3 | 254.6 |
| 383 | HE | 349.2 | 356.4 | 347.2 | 338.2 | 339.0 | 340.1 | 340.8 | 358.3 | 367.2 | 373.3 | 355.0 | 345.5 | 236.8 | 262.1 |
| 384 | HE | 352.7 | 347.4 | 350.2 | 350.9 | 349.7 | 363.5 | 368.1 | 400.0 | 418.2 | 410.4 | 376.9 | 358.7 | 239.7 | 259.7 |
| 385 | HE | 353.8 | 348.1 | 350.0 | 351.7 | 348.9 | 364.8 | 364.3 | 403.3 | 418.9 | 410.5 | 379.5 | 360.1 | 240.8 | 256.9 |
| 386 | HE | 344.5 | 350.8 | 339.1 | 347.1 | 349.7 | 356.2 | 372.5 | 405.5 | 406.2 | 399.2 | 371.7 | 352.2 | 333.0 | 255.8 |
| 387 | HE | 371.0 | 380.5 | 368.2 | 349.8 | 343.4 | 351.7 | 358.5 | 367.6 | 380.2 | 394.2 | 370.3 | 361.4 | 169.2 | 280.5 |
| 388 | HE | 341.8 | 343.4 | 348.5 | 346.9 | 350.2 | 365.3 | 382.8 | 407.6 | 421.3 | 417.6 | 388.0 | 353.0 | 222.2 | 248.4 |
| 389 | HE | 347.2 | 343.8 | 342.9 | 341.7 | 342.7 | 345.1 | 350.4 | 371.4 | 377.0 | 375.0 | 357.2 | 347.1 | 259.3 | 255.1 |
| 390 | HE | 344.9 | 348.1 | 356.8 | 355.4 | 357.5 | 369.7 | 385.0 | 407.9 | 420.9 | 418.8 | 388.5 | 354.9 | 219.7 | 257.2 |
| 391 | HE | 342.0 | 347.0 | 340.0 | 345.0 | 347.0 | 357.0 | 375.0 | 409.0 | 405.0 | 395.0 | 370.0 | 351.0 | 286.0 | 250.0 |
| 392 | HE | 328.0 | 326.0 | 326.0 | 337.0 | 343.0 | 350.0 | 352.0 | 360.0 | 360.0 | 359.0 | 355.0 | 344.0 | 423.0 | 259.0 |
| 393 | HE | 342.8 | 347.0 | 340.8 | 345.0 | 347.8 | 357.8 | 375.5 | 409.5 | 405.8 | 395.8 | 370.0 | 351.8 | 289.0 | 250.0 |
| 394 | HE | 341.5 | 346.5 | 338.5 | 344.5 | 347.5 | 355.5 | 373.5 | 407.0 | 405.5 | 396.0 | 369.5 | 351.5 | 308.0 | 250.5 |
| 395 | HE | 360.3 | 366.6 | 371.2 | 359.0 | 352.4 | 359.5 | 372.6 | 395.4 | 419.5 | 430.1 | 403.4 | 369.8 | 192.2 | 268.7 |
| 396 | HE | 337.4 | 343.5 | 351.1 | 352.2 | 355.3 | 367.6 | 381.1 | 394.4 | 391.0 | 378.9 | 367.7 | 351.3 | 312.1 | 256.8 |
| 397 | HE | 363.2 | 364.9 | 366.1 | 358.6 | 354.0 | 365.0 | 381.9 | 406.8 | 413.6 | 404.2 | 389.9 | 372.4 | 113.6 | 263.1 |
| 398 | HE | 196.4 | 194.8 | 196.5 | 198.2 | 195.1 | 188.6 | 179.8 | 185.9 | 194.7 | 205.4 | 199.7 | 195.7 | 103.0 | 107.7 |
| 399 | HE | 236.0 | 238.0 | 233.0 | 231.0 | 230.0 | 227.0 | 225.0 | 233.0 | 237.0 | 238.0 | 229.0 | 231.0 | 126.0 | 154.0 |
| 400 | HE | 244.6 | 243.5 | 242.1 | 242.1 | 239.8 | 235.3 | 230.4 | 235.9 | 243.4 | 247.9 | 242.9 | 240.4 | 129.0 | 144.4 |
| 401 | HE | 326.5 | 329.3 | 332.5 | 334.5 | 333.8 | 333.8 | 346.3 | 362.3 | 371.5 | 366.8 | 352.5 | 332.5 | 82.3 | 252.3 |
| 402 | HE | 345.5 | 352.1 | 352.1 | 348.8 | 340.5 | 335.8 | 348.0 | 365.5 | 385.9 | 388.5 | 371.2 | 348.4 | 82.5 | 256.2 |
| 403 | HE | 350.0 | 357.0 | 356.3 | 352.0 | 342.5 | 336.8 | 351.3 | 371.0 | 395.0 | 396.0 | 377.5 | 352.8 | 83.0 | 259.0 |
| 404 | HE | 354.2 | 357.2 | 355.2 | 349.5 | 337.7 | 336.5 | 349.5 | 367.0 | 397.8 | 411.7 | 388.7 | 362.5 | 72.4 | 258.4 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 405 | HE | 341.2 | 344.8 | 344.4 | 342.8 | 336.2 | 333.2 | 348.3 | 368.5 | 387.8 | 385.4 | 367.0 | 343.8 | 84.0 | 253.8 |
| 406 | HE | 360.2 | 368.1 | 367.8 | 361.2 | 352.3 | 345.8 | 354.1 | 366.7 | 387.3 | 397.3 | 383.4 | 363.3 | 57.4 | 260.4 |
| 407 | HE | 324.5 | 329.8 | 333.3 | 331.1 | 324.2 | 322.6 | 339.3 | 362.3 | 376.3 | 370.3 | 352.3 | 330.1 | 138.2 | 245.9 |
| 408 | HE | 322.5 | 326.1 | 330.7 | 328.7 | 322.6 | 327.0 | 341.7 | 359.4 | 367.4 | 366.8 | 352.8 | 330.9 | 208.1 | 250.8 |
| 409 | HE | 328.4 | 333.3 | 339.8 | 334.3 | 325.0 | 324.0 | 343.9 | 369.1 | 382.0 | 375.3 | 358.0 | 333.9 | 193.3 | 247.1 |
| 410 | HE | 347.8 | 349.9 | 347.8 | 349.2 | 350.2 | 359.2 | 370.7 | 395.9 | 402.4 | 399.6 | 372.4 | 353.8 | 328.4 | 262.3 |
| 411 | HE | 344.2 | 349.5 | 350.0 | 347.2 | 341.0 | 337.3 | 348.3 | 362.2 | 379.3 | 382.7 | 368.0 | 347.8 | 69.0 | 256.0 |
| 412 | HE | 340.6 | 343.1 | 340.4 | 342.2 | 345.5 | 357.0 | 376.0 | 410.9 | 403.8 | 392.8 | 367.5 | 349.7 | 262.6 | 244.4 |
| 413 | HE | 350.3 | 348.0 | 346.5 | 346.3 | 337.5 | 345.0 | 358.3 | 378.0 | 412.5 | 430.3 | 400.4 | 373.1 | 60.8 | 254.6 |
| 414 | HE | 331.6 | 335.1 | 335.9 | 335.4 | 332.2 | 332.5 | 346.8 | 364.2 | 378.3 | 373.6 | 357.8 | 337.3 | 90.4 | 252.7 |
| 415 | HE | 358.9 | 352.9 | 349.4 | 348.4 | 333.9 | 341.9 | 339.9 | 385.0 | 409.0 | 406.6 | 392.2 | 369.6 | 213.1 | 244.3 |
| 416 | HE | 353.0 | 348.8 | 354.1 | 351.3 | 351.3 | 363.8 | 372.3 | 396.8 | 414.4 | 407.8 | 376.2 | 360.6 | 242.4 | 264.1 |
| 417 | HE | 354.3 | 353.3 | 345.0 | 341.4 | 320.6 | 312.6 | 316.0 | 350.1 | 371.2 | 366.4 | 368.9 | 364.5 | 637.1 | 261.2 |
| 418 | HE | 332.5 | 334.0 | 341.0 | 348.5 | 352.5 | 362.0 | 372.0 | 383.0 | 381.0 | 372.0 | 362.0 | 346.5 | 348.5 | 259.0 |
| 419 | HE | 356.5 | 355.1 | 351.8 | 349.2 | 334.6 | 340.7 | 336.3 | 379.4 | 403.0 | 401.0 | 388.9 | 367.8 | 226.0 | 253.8 |
| 420 | HE | 354.5 | 349.5 | 343.5 | 339.0 | 323.0 | 318.0 | 320.0 | 351.5 | 369.5 | 365.5 | 368.5 | 362.5 | 623.0 | 251.5 |
| 421 | HE | 352.3 | 349.1 | 350.6 | 349.8 | 342.8 | 343.7 | 339.9 | 379.9 | 395.1 | 388.8 | 376.1 | 358.2 | 281.1 | 257.6 |
| 422 | HE | 294.0 | 299.0 | 293.5 | 298.5 | 296.5 | 291.0 | 286.5 | 294.5 | 301.5 | 312.0 | 315.5 | 306.5 | 250.5 | 185.0 |
| 423 | HE | 354.0 | 353.0 | 345.0 | 342.0 | 320.3 | 312.7 | 316.0 | 350.0 | 372.0 | 367.0 | 369.0 | 363.0 | 607.7 | 261.7 |
| 424 | HE | 295.7 | 294.6 | 293.9 | 291.6 | 288.4 | 288.7 | 289.9 | 296.7 | 300.9 | 302.6 | 295.0 | 292.6 | 176.7 | 190.4 |
| 425 | HE | 353.5 | 353.5 | 351.5 | 347.5 | 335.5 | 329.0 | 333.5 | 366.5 | 392.0 | 386.5 | 379.5 | 363.5 | 316.5 | 261.5 |
| 426 | HE | 215.6 | 210.0 | 210.3 | 221.9 | 222.3 | 223.7 | 224.4 | 234.8 | 232.2 | 245.7 | 241.9 | 223.8 | 193.0 | 79.2 |
| 427 | HE | 174.0 | 169.0 | 169.0 | 180.0 | 184.0 | 185.0 | 189.0 | 196.0 | 194.0 | 207.0 | 204.0 | 184.0 | 177.0 | 44.0 |
| 428 | HE | 273.7 | 272.5 | 269.3 | 275.3 | 277.6 | 277.6 | 271.4 | 279.1 | 283.1 | 287.7 | 287.3 | 285.0 | 116.6 | 169.4 |
| 429 | HE | 300.7 | 298.0 | 299.8 | 314.8 | 313.0 | 315.2 | 315.2 | 333.9 | 323.0 | 333.6 | 323.2 | 306.2 | 254.4 | 170.2 |
| 430 | HE | 252.2 | 249.0 | 245.4 | 256.8 | 259.2 | 261.2 | 262.2 | 268.6 | 262.8 | 263.6 | 264.4 | 255.0 | 174.0 | 126.0 |
| 431 | HE | 237.7 | 232.7 | 233.7 | 235.3 | 240.4 | 248.1 | 236.5 | 240.5 | 244.4 | 248.8 | 247.8 | 243.3 | 100.2 | 125.6 |
| 432 | HE | 354.9 | 355.4 | 353.8 | 350.6 | 344.8 | 339.2 | 347.2 | 360.4 | 384.0 | 399.8 | 385.7 | 367.5 | 70.1 | 256.2 |
| 433 | HE | 353.1 | 353.0 | 351.0 | 345.4 | 329.9 | 319.9 | 329.2 | 359.4 | 385.7 | 380.1 | 376.7 | 363.0 | 371.4 | 262.2 |
| 434 | HE | 325.8 | 331.6 | 334.0 | 331.3 | 316.4 | 298.0 | 305.2 | 314.8 | 327.7 | 345.2 | 341.9 | 329.8 | 25.4 | 207.5 |
| 435 | HE | 351.4 | 352.8 | 350.8 | 346.4 | 335.6 | 336.8 | 350.3 | 368.5 | 399.9 | 413.3 | 388.7 | 362.4 | 73.3 | 258.5 |
| 436 | HE | 281.1 | 281.0 | 276.6 | 283.5 | 285.4 | 284.4 | 280.4 | 287.9 | 292.0 | 295.9 | 294.9 | 294.9 | 121.5 | 183.2 |
| 437 | HE | 348.2 | 352.7 | 344.8 | 348.2 | 342.4 | 338.7 | 336.0 | 349.1 | 353.5 | 357.0 | 356.6 | 354.4 | 222.5 | 249.9 |
| 438 | HE | 361.7 | 354.3 | 350.5 | 348.6 | 349.7 | 353.5 | 355.4 | 377.6 | 384.2 | 381.5 | 364.3 | 359.1 | 269.0 | 257.7 |
| 439 | HE | 358.6 | 358.0 | 349.0 | 345.8 | 339.1 | 338.5 | 341.3 | 354.3 | 361.1 | 367.5 | 357.7 | 356.5 | 330.2 | 262.2 |
| 1 | MP | 340.8 | 343.7 | 343.1 | 338.7 | 337.7 | 339.6 | 340.4 | 355.8 | 369.2 | 375.8 | 357.7 | 344.4 | 249.9 | 250.2 |
| 2 | MP | 343.1 | 350.9 | 347.0 | 342.6 | 338.5 | 336.0 | 344.3 | 358.7 | 367.7 | 375.5 | 360.3 | 347.0 | 249.9 | 249.7 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | MP | 222.6 | 220.9 | 225.9 | 238.9 | 240.4 | 236.1 | 236.0 | 245.7 | 240.0 | 256.5 | 247.3 | 226.4 | 84.8 | 85.9 |
| 4 | MP | 346.4 | 349.7 | 346.1 | 340.9 | 340.2 | 343.9 | 343.5 | 357.1 | 368.0 | 379.8 | 363.7 | 351.4 | 249.8 | 252.1 |
| 5 | MP | 322.3 | 323.8 | 325.9 | 324.8 | 334.4 | 334.6 | 335.5 | 340.5 | 348.4 | 355.5 | 336.6 | 329.1 | 220.1 | 221.3 |
| 6 | MP | 354.7 | 352.2 | 359.1 | 355.6 | 360.9 | 358.2 | 361.7 | 374.6 | 383.8 | 384.3 | 365.6 | 358.7 | 254.2 | 254.4 |
| 7 | MP | 344.9 | 351.0 | 346.8 | 342.6 | 340.5 | 337.9 | 343.7 | 358.7 | 367.5 | 378.2 | 364.2 | 347.6 | 251.2 | 250.6 |
| 8 | MP | 262.9 | 265.4 | 263.0 | 260.4 | 263.4 | 260.6 | 255.1 | 260.1 | 271.9 | 279.1 | 271.3 | 266.1 | 149.9 | 149.9 |
| 9 | MP | 343.4 | 347.0 | 352.4 | 350.5 | 347.0 | 345.8 | 350.8 | 360.4 | 366.2 | 373.4 | 366.1 | 349.8 | 246.4 | 248.8 |
| 10 | MP | 361.1 | 359.6 | 362.1 | 357.7 | 352.8 | 345.6 | 342.9 | 372.9 | 390.5 | 398.7 | 387.9 | 366.6 | 263.2 | 264.0 |
| 11 | MP | 354.5 | 349.9 | 348.2 | 345.6 | 335.8 | 319.5 | 324.8 | 348.2 | 369.9 | 382.1 | 379.7 | 359.5 | 258.0 | 259.7 |
| 12 | MP | 337.1 | 336.0 | 338.9 | 346.8 | 350.5 | 351.3 | 351.3 | 350.3 | 351.7 | 353.8 | 352.9 | 349.3 | 256.5 | 255.0 |
| 13 | MP | 337.7 | 336.7 | 340.3 | 345.6 | 344.6 | 343.4 | 344.4 | 348.1 | 350.8 | 356.8 | 358.0 | 348.8 | 258.8 | 258.7 |
| 14 | MP | 376.6 | 379.2 | 388.3 | 383.5 | 363.5 | 362.0 | 371.6 | 375.9 | 382.3 | 394.4 | 390.7 | 377.4 | 278.6 | 283.1 |
| 15 | MP | 315.6 | 315.9 | 314.5 | 316.6 | 307.6 | 297.0 | 300.5 | 319.5 | 330.5 | 338.9 | 339.9 | 321.7 | 217.7 | 217.1 |
| 16 | MP | 283.7 | 285.0 | 286.3 | 281.0 | 273.7 | 265.3 | 267.0 | 285.0 | 301.3 | 306.3 | 303.7 | 295.0 | 196.3 | 197.3 |
| 17 | MP | 328.3 | 324.9 | 330.3 | 338.1 | 338.2 | 334.5 | 335.4 | 338.7 | 341.5 | 346.9 | 348.2 | 338.5 | 259.4 | 257.8 |
| 18 | MP | 282.8 | 285.2 | 287.2 | 288.2 | 278.4 | 275.0 | 280.0 | 291.6 | 294.8 | 298.2 | 304.2 | 292.8 | 186.8 | 188.4 |
| 19 | MP | 330.0 | 328.0 | 330.0 | 338.0 | 341.0 | 344.0 | 349.0 | 352.0 | 353.0 | 353.0 | 350.0 | 344.0 | 259.0 | 257.0 |
| 20 | MP | 339.6 | 346.7 | 354.3 | 354.2 | 356.4 | 361.3 | 366.9 | 364.6 | 354.5 | 356.2 | 363.5 | 354.7 | 245.2 | 250.7 |
| 21 | MP | 344.6 | 349.9 | 351.6 | 344.7 | 348.1 | 352.9 | 363.9 | 375.4 | 382.6 | 386.1 | 372.7 | 353.7 | 254.8 | 257.5 |
| 22 | MP | 342.0 | 343.0 | 348.0 | 359.0 | 361.0 | 359.0 | 358.0 | 351.0 | 349.0 | 352.0 | 353.0 | 350.0 | 256.0 | 256.0 |
| 23 | MP | 344.2 | 349.2 | 357.6 | 360.0 | 365.4 | 369.4 | 376.0 | 376.6 | 362.4 | 356.8 | 361.8 | 358.4 | 252.6 | 256.2 |
| 24 | MP | 357.2 | 364.1 | 371.6 | 377.8 | 374.2 | 376.0 | 378.7 | 373.0 | 365.1 | 363.1 | 369.8 | 368.9 | 262.3 | 268.4 |
| 25 | MP | 346.3 | 352.3 | 354.0 | 346.3 | 350.3 | 357.0 | 368.3 | 379.0 | 385.7 | 388.3 | 374.0 | 357.0 | 260.7 | 263.7 |
| 26 | MP | 363.5 | 374.0 | 386.1 | 374.5 | 359.4 | 364.8 | 375.9 | 374.1 | 378.1 | 392.4 | 381.4 | 365.9 | 280.6 | 288.8 |
| 27 | MP | 361.4 | 373.4 | 386.8 | 375.9 | 361.9 | 366.7 | 378.9 | 375.8 | 377.1 | 389.4 | 381.1 | 366.1 | 282.9 | 292.1 |
| 28 | MP | 365.1 | 375.2 | 387.6 | 377.5 | 359.3 | 363.9 | 375.6 | 374.7 | 377.8 | 391.7 | 383.1 | 367.8 | 281.7 | 290.4 |
| 29 | MP | 360.4 | 368.9 | 379.4 | 380.1 | 364.5 | 366.7 | 376.4 | 374.3 | 372.6 | 383.5 | 383.8 | 369.9 | 285.4 | 293.0 |
| 30 | MP | 362.0 | 374.0 | 388.0 | 377.0 | 364.0 | 368.0 | 381.0 | 377.0 | 378.0 | 390.0 | 381.0 | 366.0 | 285.0 | 294.0 |
| 31 | MP | 355.7 | 354.8 | 358.8 | 363.5 | 356.4 | 355.8 | 357.9 | 358.0 | 357.7 | 362.5 | 371.5 | 363.7 | 271.7 | 269.5 |
| 32 | MP | 364.6 | 373.7 | 387.1 | 379.6 | 357.4 | 361.1 | 373.2 | 373.2 | 375.5 | 389.4 | 384.7 | 368.6 | 280.5 | 289.2 |
| 33 | MP | 341.0 | 340.7 | 345.0 | 357.3 | 359.3 | 356.7 | 356.0 | 349.3 | 348.0 | 351.3 | 353.0 | 350.0 | 255.7 | 255.0 |
| 34 | MP | 327.0 | 325.4 | 326.8 | 334.2 | 338.2 | 340.9 | 346.2 | 349.0 | 352.2 | 352.8 | 348.4 | 342.3 | 258.6 | 256.9 |
| 35 | MP | 350.0 | 336.0 | 357.5 | 352.5 | 351.0 | 363.5 | 378.0 | 377.5 | 382.5 | 385.5 | 370.5 | 357.0 | 255.5 | 258.5 |
| 36 | MP | 340.1 | 344.8 | 353.5 | 356.8 | 360.6 | 364.9 | 371.4 | 371.3 | 358.3 | 352.4 | 357.4 | 353.5 | 248.6 | 253.2 |
| 37 | MP | 343.9 | 353.6 | 364.0 | 364.3 | 364.7 | 371.9 | 378.1 | 382.1 | 372.6 | 383.8 | 383.2 | 357.5 | 253.5 | 260.1 |
| 38 | MP | 361.9 | 374.4 | 387.4 | 377.2 | 363.7 | 368.6 | 381.0 | 377.0 | 377.9 | 390.1 | 381.9 | 366.8 | 284.0 | 293.8 |
| 39 | MP | 326.7 | 327.7 | 324.0 | 324.0 | 313.0 | 301.7 | 305.7 | 325.3 | 338.3 | 345.0 | 345.7 | 330.3 | 233.7 | 233.7 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | MP | 333.7 | 342.1 | 350.8 | 348.9 | 352.1 | 356.7 | 361.5 | 363.3 | 357.9 | 367.2 | 375.2 | 351.7 | 231.2 | 237.2 |
| 41 | MP | 376.8 | 379.6 | 388.4 | 382.2 | 363.1 | 361.5 | 371.0 | 374.6 | 381.2 | 394.3 | 388.9 | 376.2 | 277.9 | 282.5 |
| 42 | MP | 361.5 | 363.5 | 361.0 | 353.0 | 335.0 | 325.0 | 330.0 | 361.0 | 392.0 | 400.0 | 390.0 | 372.0 | 264.0 | 268.5 |
| 43 | MP | 358.0 | 359.5 | 348.5 | 340.5 | 314.5 | 292.0 | 301.0 | 329.5 | 359.5 | 374.5 | 374.5 | 364.0 | 259.5 | 259.5 |
| 44 | MP | 350.3 | 351.6 | 356.8 | 352.3 | 362.5 | 362.1 | 369.1 | 389.1 | 402.5 | 404.1 | 387.5 | 359.9 | 258.0 | 261.8 |
| 45 | MP | 352.0 | 353.7 | 357.7 | 353.0 | 361.0 | 360.0 | 364.0 | 389.0 | 401.0 | 401.7 | 387.3 | 359.7 | 260.3 | 262.7 |
| 46 | MP | 361.5 | 363.5 | 361.0 | 353.0 | 335.0 | 325.0 | 330.0 | 361.0 | 392.0 | 400.0 | 390.0 | 372.0 | 264.0 | 268.5 |
| 47 | MP | 360.7 | 358.4 | 360.1 | 356.8 | 351.3 | 346.8 | 339.2 | 374.9 | 392.1 | 400.2 | 388.8 | 366.0 | 262.8 | 264.6 |
| 48 | MP | 347.9 | 344.2 | 342.8 | 341.3 | 331.8 | 316.4 | 321.7 | 344.3 | 363.6 | 375.7 | 373.2 | 352.3 | 252.2 | 253.3 |
| 49 | MP | 346.4 | 346.7 | 347.8 | 342.5 | 337.5 | 327.5 | 326.2 | 347.8 | 367.8 | 372.3 | 367.3 | 350.1 | 252.2 | 250.9 |
| 50 | MP | 384.7 | 395.7 | 397.7 | 377.0 | 357.3 | 335.0 | 337.3 | 347.7 | 374.0 | 386.0 | 378.3 | 369.3 | 271.0 | 277.7 |
| 51 | MP | 262.5 | 263.9 | 265.5 | 266.8 | 259.4 | 254.5 | 257.7 | 270.5 | 276.2 | 282.4 | 282.8 | 271.0 | 167.9 | 169.5 |
| 52 | MP | 337.9 | 338.9 | 329.8 | 321.3 | 302.7 | 282.8 | 290.3 | 313.8 | 337.7 | 352.6 | 354.0 | 345.1 | 234.5 | 232.2 |
| 53 | MP | 360.2 | 360.9 | 354.7 | 348.9 | 332.2 | 318.5 | 323.3 | 351.0 | 382.6 | 390.9 | 386.0 | 370.4 | 266.2 | 269.9 |
| 54 | MP | 314.7 | 315.7 | 315.7 | 311.4 | 303.3 | 293.6 | 295.1 | 315.0 | 333.8 | 341.7 | 335.6 | 322.9 | 222.3 | 222.5 |
| 55 | MP | 338.5 | 338.6 | 341.7 | 333.3 | 336.3 | 338.3 | 343.0 | 359.6 | 368.1 | 373.8 | 356.3 | 342.3 | 251.1 | 251.8 |
| 56 | MP | 336.9 | 343.7 | 346.0 | 337.7 | 335.4 | 336.6 | 347.0 | 358.4 | 365.3 | 371.1 | 356.0 | 336.3 | 250.0 | 251.9 |
| 57 | MP | 340.0 | 339.0 | 343.0 | 356.0 | 359.0 | 355.0 | 354.0 | 349.0 | 348.0 | 351.0 | 353.0 | 349.0 | 256.0 | 256.0 |
| 58 | MP | 340.0 | 339.0 | 343.0 | 356.0 | 358.0 | 355.0 | 355.0 | 348.0 | 347.0 | 351.0 | 352.0 | 349.0 | 255.0 | 255.0 |
| 59 | MP | 360.0 | 371.0 | 385.0 | 376.0 | 357.0 | 363.0 | 374.0 | 372.0 | 373.0 | 387.0 | 381.0 | 364.0 | 280.0 | 289.0 |
| 60 | MP | 345.0 | 346.0 | 347.0 | 342.0 | 338.0 | 337.0 | 347.0 | 371.0 | 384.0 | 384.0 | 373.0 | 351.0 | 256.0 | 262.0 |
| 61 | MP | 333.5 | 333.0 | 331.0 | 329.5 | 320.0 | 308.0 | 311.5 | 333.0 | 348.0 | 358.0 | 356.0 | 337.5 | 239.0 | 240.5 |
| 62 | MP | 343.5 | 343.1 | 351.6 | 355.7 | 358.1 | 350.6 | 353.8 | 360.7 | 370.7 | 376.8 | 374.3 | 356.4 | 244.4 | 244.6 |
| 63 | MP | 319.2 | 323.0 | 324.8 | 329.5 | 329.8 | 330.3 | 336.4 | 343.6 | 343.6 | 343.3 | 338.8 | 327.9 | 251.8 | 252.6 |
| 64 | MP | 371.1 | 375.5 | 389.5 | 374.8 | 351.0 | 332.1 | 337.1 | 349.3 | 364.7 | 382.9 | 378.1 | 360.9 | 247.6 | 250.0 |
| 65 | MP | 316.0 | 319.0 | 321.0 | 327.0 | 326.0 | 334.0 | 339.0 | 345.0 | 349.0 | 351.0 | 344.0 | 327.0 | 257.0 | 255.0 |
| 66 | MP | 317.0 | 318.0 | 323.0 | 328.0 | 333.0 | 336.0 | 342.0 | 347.0 | 350.0 | 350.0 | 342.0 | 325.0 | 250.0 | 248.0 |
| 67 | MP | 262.3 | 264.3 | 265.3 | 269.7 | 276.8 | 274.2 | 272.7 | 276.3 | 283.0 | 287.4 | 276.4 | 278.5 | 168.4 | 171.4 |
| 68 | MP | 220.8 | 217.0 | 220.6 | 237.6 | 248.2 | 248.9 | 249.8 | 255.0 | 250.4 | 251.0 | 242.3 | 228.1 | 104.7 | 105.7 |
| 69 | MP | 310.9 | 306.1 | 312.7 | 327.7 | 335.3 | 331.8 | 330.0 | 338.3 | 341.9 | 338.8 | 325.4 | 309.7 | 205.9 | 202.4 |
| 70 | MP | 350.7 | 348.3 | 356.3 | 363.1 | 355.9 | 345.9 | 354.3 | 361.8 | 369.2 | 379.0 | 379.7 | 362.3 | 249.9 | 249.9 |
| 71 | MP | 397.7 | 407.0 | 412.3 | 395.0 | 376.0 | 344.3 | 343.0 | 353.0 | 376.7 | 389.0 | 388.0 | 385.3 | 279.0 | 285.3 |
| 72 | MP | 397.5 | 407.0 | 412.0 | 395.0 | 376.0 | 344.0 | 343.0 | 353.0 | 376.5 | 389.0 | 388.0 | 385.0 | 279.0 | 285.0 |
| 73 | MP | 333.0 | 337.0 | 338.5 | 331.5 | 328.0 | 323.5 | 327.0 | 340.0 | 358.5 | 361.0 | 347.5 | 334.0 | 237.5 | 239.5 |
| 74 | MP | 340.7 | 340.3 | 346.8 | 342.6 | 344.8 | 342.3 | 343.4 | 364.7 | 373.8 | 381.0 | 369.0 | 347.1 | 244.8 | 244.5 |
| 75 | MP | 336.2 | 344.2 | 346.0 | 336.6 | 330.1 | 330.2 | 342.8 | 354.6 | 361.2 | 365.4 | 353.3 | 334.0 | 248.3 | 249.7 |
| 76 | MP | 341.8 | 344.5 | 352.0 | 356.5 | 352.4 | 353.7 | 358.1 | 359.1 | 357.0 | 358.6 | 362.1 | 356.5 | 250.8 | 252.3 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | MP | 335.3 | 337.3 | 342.3 | 341.7 | 347.0 | 352.0 | 364.3 | 375.3 | 372.0 | 378.7 | 366.3 | 345.7 | 224.0 | 232.3 |
| 78 | MP | 319.7 | 325.7 | 338.0 | 356.1 | 358.7 | 363.9 | 374.6 | 389.6 | 374.4 | 384.8 | 378.2 | 345.7 | 218.4 | 223.2 |
| 79 | MP | 297.3 | 304.0 | 299.0 | 300.0 | 301.7 | 299.0 | 295.7 | 301.7 | 314.0 | 322.0 | 314.3 | 306.0 | 192.0 | 191.7 |
| 80 | MP | 270.7 | 274.7 | 271.3 | 270.3 | 272.7 | 268.7 | 264.0 | 270.0 | 282.3 | 291.0 | 283.0 | 277.0 | 160.7 | 160.0 |
| 81 | MP | 341.0 | 340.7 | 342.4 | 342.6 | 344.5 | 356.3 | 347.9 | 383.3 | 386.6 | 391.8 | 378.2 | 353.8 | 230.5 | 238.3 |
| 82 | MP | 330.8 | 328.3 | 332.8 | 339.0 | 339.2 | 340.2 | 348.9 | 350.1 | 351.4 | 354.7 | 354.3 | 344.9 | 238.8 | 238.0 |
| 83 | MP | 368.4 | 384.6 | 392.7 | 367.1 | 343.8 | 337.5 | 345.7 | 363.6 | 378.0 | 387.7 | 373.4 | 356.3 | 267.0 | 272.3 |
| 84 | MP | 335.6 | 336.3 | 344.4 | 356.7 | 358.5 | 356.7 | 365.4 | 372.1 | 379.9 | 384.8 | 376.7 | 361.1 | 228.1 | 230.1 |
| 85 | MP | 377.5 | 372.9 | 382.0 | 382.2 | 369.0 | 358.7 | 364.6 | 371.5 | 379.1 | 386.7 | 392.2 | 380.7 | 266.6 | 266.9 |
| 86 | MP | 345.5 | 343.6 | 349.1 | 358.2 | 353.7 | 350.7 | 361.2 | 364.8 | 368.3 | 378.1 | 376.5 | 361.0 | 249.2 | 248.6 |
| 87 | MP | 346.2 | 348.9 | 341.3 | 353.1 | 351.9 | 353.8 | 369.2 | 377.9 | 382.4 | 389.6 | 374.4 | 353.9 | 250.9 | 255.8 |
| 88 | MP | 360.5 | 364.2 | 372.2 | 377.0 | 362.2 | 362.0 | 372.3 | 372.0 | 371.1 | 382.9 | 385.0 | 370.9 | 278.7 | 282.6 |
| 89 | MP | 375.5 | 380.5 | 377.5 | 355.9 | 342.0 | 326.8 | 327.6 | 341.9 | 359.5 | 371.2 | 367.4 | 353.5 | 268.9 | 269.0 |
| 90 | MP | 340.7 | 349.2 | 361.7 | 361.7 | 358.4 | 363.5 | 369.1 | 371.1 | 364.5 | 375.4 | 381.7 | 354.0 | 245.9 | 252.3 |
| 91 | MP | 349.6 | 359.7 | 370.8 | 368.2 | 364.9 | 371.4 | 377.1 | 375.9 | 370.2 | 382.8 | 382.1 | 360.7 | 263.8 | 271.4 |
| 92 | MP | 318.5 | 314.8 | 320.6 | 322.5 | 327.3 | 329.6 | 336.4 | 341.3 | 346.1 | 349.3 | 345.8 | 332.9 | 243.7 | 243.2 |
| 93 | MP | 367.8 | 374.4 | 386.1 | 373.1 | 350.9 | 341.7 | 352.4 | 360.1 | 369.0 | 383.9 | 376.5 | 362.4 | 261.8 | 266.4 |
| 94 | MP | 376.7 | 375.7 | 384.8 | 384.3 | 366.5 | 359.8 | 369.2 | 375.0 | 382.0 | 391.6 | 393.2 | 380.3 | 274.0 | 276.2 |
| 95 | MP | 347.1 | 353.5 | 360.7 | 355.0 | 354.4 | 359.1 | 369.2 | 379.3 | 382.2 | 388.0 | 375.5 | 355.2 | 256.0 | 258.0 |
| 96 | MP | 344.1 | 336.2 | 347.3 | 348.2 | 349.3 | 359.2 | 372.8 | 378.3 | 383.9 | 388.7 | 372.0 | 353.8 | 246.9 | 252.8 |
| 97 | MP | 327.7 | 334.3 | 341.5 | 341.5 | 345.2 | 350.5 | 356.1 | 354.0 | 343.9 | 346.1 | 353.2 | 343.8 | 230.8 | 236.2 |
| 98 | MP | 350.6 | 350.3 | 352.5 | 359.9 | 360.2 | 361.1 | 363.0 | 360.7 | 358.9 | 360.4 | 363.0 | 359.6 | 256.3 | 255.5 |
| 99 | MP | 344.9 | 354.6 | 364.3 | 363.0 | 364.7 | 372.6 | 378.8 | 382.6 | 373.1 | 384.2 | 382.8 | 358.2 | 256.0 | 262.5 |
| 100 | MP | 353.0 | 363.0 | 374.8 | 375.0 | 369.1 | 373.9 | 379.5 | 377.2 | 371.8 | 383.7 | 386.8 | 363.6 | 265.9 | 273.7 |
| 101 | MP | 346.7 | 354.5 | 367.0 | 368.8 | 361.2 | 364.9 | 370.1 | 367.8 | 363.8 | 375.0 | 382.0 | 357.0 | 257.0 | 263.7 |
| 102 | MP | 345.2 | 353.1 | 352.0 | 354.5 | 354.4 | 357.8 | 370.7 | 381.8 | 383.3 | 390.1 | 377.0 | 355.7 | 250.9 | 256.7 |
| 103 | MP | 344.2 | 345.1 | 352.5 | 347.3 | 351.5 | 356.3 | 368.3 | 377.0 | 384.0 | 390.7 | 376.3 | 356.1 | 250.3 | 251.6 |
| 104 | MP | 332.9 | 340.4 | 348.1 | 346.8 | 348.7 | 354.6 | 359.2 | 355.9 | 346.9 | 352.3 | 359.3 | 350.2 | 234.4 | 240.2 |
| 105 | MP | 350.9 | 360.8 | 372.2 | 372.2 | 367.9 | 373.3 | 378.9 | 377.9 | 371.9 | 383.8 | 386.3 | 361.9 | 263.0 | 270.4 |
| 106 | MP | 347.6 | 351.6 | 346.9 | 354.9 | 353.6 | 355.6 | 370.3 | 379.7 | 383.3 | 389.6 | 375.2 | 355.1 | 253.5 | 257.8 |
| 107 | MP | 337.2 | 346.1 | 357.3 | 361.9 | 363.7 | 370.3 | 377.7 | 385.9 | 374.4 | 385.2 | 383.6 | 354.5 | 241.6 | 247.4 |
| 108 | MP | 344.8 | 346.5 | 341.0 | 350.5 | 350.8 | 354.2 | 368.9 | 378.8 | 381.7 | 388.6 | 373.6 | 353.8 | 246.2 | 252.4 |
| 109 | MP | 336.7 | 344.8 | 352.5 | 348.5 | 355.4 | 363.4 | 371.6 | 378.7 | 374.7 | 385.7 | 376.4 | 354.6 | 247.2 | 253.4 |
| 110 | MP | 342.8 | 345.1 | 349.0 | 343.7 | 346.3 | 346.5 | 350.7 | 368.3 | 376.3 | 381.7 | 369.0 | 349.4 | 244.4 | 244.8 |
| 111 | MP | 340.7 | 345.7 | 347.9 | 343.5 | 345.2 | 348.9 | 356.8 | 368.7 | 376.4 | 386.0 | 376.0 | 350.1 | 237.5 | 237.9 |
| 112 | MP | 341.9 | 342.2 | 346.1 | 352.7 | 346.0 | 346.2 | 352.6 | 352.5 | 352.0 | 356.8 | 361.3 | 352.6 | 255.2 | 253.0 |
| 113 | MP | 354.4 | 365.2 | 376.9 | 372.8 | 366.1 | 372.0 | 377.9 | 374.8 | 371.2 | 384.4 | 383.3 | 363.5 | 271.3 | 279.4 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 114 | MP | 340.5 | 345.5 | 348.8 | 343.8 | 346.0 | 349.6 | 359.9 | 370.9 | 378.1 | 387.7 | 376.8 | 349.8 | 240.7 | 241.7 |
| 115 | MP | 367.2 | 363.6 | 374.4 | 373.8 | 364.6 | 349.7 | 351.9 | 358.9 | 367.7 | 376.3 | 382.4 | 369.6 | 247.6 | 247.3 |
| 116 | MP | 343.9 | 347.2 | 351.9 | 346.7 | 349.2 | 351.3 | 354.8 | 368.5 | 375.4 | 381.5 | 366.8 | 349.5 | 248.7 | 248.8 |
| 117 | MP | 343.6 | 345.9 | 349.6 | 344.2 | 346.4 | 346.4 | 351.4 | 369.4 | 377.2 | 382.9 | 370.0 | 350.6 | 244.5 | 245.1 |
| 118 | MP | 357.7 | 363.2 | 372.1 | 375.5 | 359.9 | 360.9 | 370.9 | 369.7 | 368.2 | 379.4 | 381.5 | 367.2 | 278.1 | 283.1 |
| 119 | MP | 348.3 | 353.6 | 364.0 | 367.2 | 357.0 | 359.0 | 362.7 | 359.5 | 356.9 | 366.3 | 374.9 | 356.3 | 259.6 | 264.0 |
| 120 | MP | 336.5 | 343.7 | 351.3 | 350.7 | 351.5 | 356.8 | 361.6 | 358.5 | 349.3 | 353.6 | 360.7 | 352.4 | 239.4 | 245.4 |
| 121 | MP | 345.6 | 354.5 | 360.5 | 347.4 | 344.0 | 346.5 | 357.9 | 366.2 | 377.4 | 388.9 | 371.5 | 349.5 | 261.6 | 265.2 |
| 122 | MP | 338.8 | 347.0 | 355.0 | 352.1 | 359.5 | 368.5 | 376.5 | 384.0 | 376.8 | 387.2 | 378.0 | 355.7 | 248.2 | 254.7 |
| 123 | MP | 346.8 | 355.4 | 361.5 | 354.1 | 353.6 | 356.5 | 365.9 | 376.0 | 380.6 | 387.9 | 375.2 | 353.3 | 258.7 | 260.5 |
| 124 | MP | 337.9 | 345.3 | 351.2 | 349.4 | 356.0 | 362.2 | 372.5 | 381.7 | 378.0 | 386.9 | 375.1 | 354.0 | 242.1 | 249.8 |
| 125 | MP | 360.4 | 366.4 | 376.5 | 379.4 | 359.8 | 360.1 | 371.3 | 371.4 | 370.9 | 384.1 | 385.3 | 370.1 | 279.5 | 285.8 |
| 126 | MP | 343.0 | 345.0 | 341.0 | 348.0 | 349.0 | 354.0 | 369.0 | 379.0 | 379.0 | 387.0 | 373.0 | 353.0 | 241.0 | 248.0 |
| 127 | MP | 341.0 | 345.0 | 343.0 | 347.0 | 349.0 | 354.0 | 369.0 | 380.0 | 378.0 | 385.0 | 372.0 | 352.0 | 237.0 | 246.0 |
| 128 | MP | 345.3 | 352.5 | 348.2 | 353.7 | 354.3 | 356.3 | 370.0 | 381.0 | 382.4 | 389.7 | 376.3 | 354.8 | 249.7 | 255.6 |
| 129 | MP | 349.7 | 340.3 | 356.0 | 353.0 | 351.8 | 361.0 | 375.1 | 378.6 | 382.2 | 386.0 | 371.3 | 356.1 | 255.5 | 258.5 |
| 130 | MP | 342.0 | 346.0 | 341.0 | 348.0 | 350.0 | 353.0 | 368.0 | 379.0 | 379.0 | 387.0 | 373.0 | 353.0 | 241.0 | 248.0 |
| 131 | MP | 342.4 | 344.4 | 341.0 | 347.4 | 348.6 | 352.8 | 368.8 | 378.6 | 378.2 | 386.0 | 372.2 | 352.4 | 239.2 | 246.6 |
| 132 | MP | 343.0 | 346.0 | 341.0 | 349.0 | 350.0 | 353.0 | 369.0 | 379.0 | 379.0 | 387.0 | 373.0 | 353.0 | 242.0 | 249.0 |
| 133 | MP | 348.0 | 334.3 | 355.0 | 350.0 | 350.7 | 361.7 | 376.7 | 378.0 | 382.3 | 385.0 | 370.7 | 356.0 | 253.3 | 256.7 |
| 134 | MP | 343.0 | 344.0 | 341.0 | 348.0 | 349.0 | 354.0 | 369.0 | 379.0 | 379.0 | 386.0 | 373.0 | 353.0 | 239.0 | 247.0 |
| 135 | MP | 319.7 | 315.2 | 322.4 | 323.1 | 328.2 | 330.5 | 337.6 | 342.9 | 347.9 | 351.6 | 348.0 | 333.5 | 243.5 | 243.1 |
| 136 | MP | 338.4 | 347.0 | 358.8 | 358.0 | 357.5 | 362.8 | 368.6 | 372.7 | 365.6 | 376.2 | 382.4 | 353.9 | 240.0 | 246.0 |
| 137 | MP | 339.9 | 346.7 | 349.2 | 349.7 | 353.8 | 358.7 | 370.6 | 380.6 | 378.2 | 386.0 | 374.2 | 353.3 | 241.6 | 249.4 |
| 138 | MP | 356.4 | 368.1 | 380.7 | 377.5 | 366.1 | 371.3 | 378.1 | 373.0 | 370.4 | 383.4 | 383.0 | 364.7 | 275.4 | 284.4 |
| 139 | MP | 336.2 | 334.8 | 338.3 | 344.9 | 342.1 | 342.8 | 349.7 | 350.4 | 351.3 | 354.7 | 356.4 | 348.4 | 247.1 | 244.9 |
| 140 | MP | 362.3 | 373.1 | 386.6 | 378.3 | 359.3 | 362.7 | 375.6 | 374.3 | 375.4 | 388.8 | 383.6 | 366.9 | 281.6 | 291.1 |
| 141 | MP | 336.0 | 343.9 | 351.2 | 348.8 | 356.2 | 363.6 | 373.0 | 381.7 | 376.7 | 386.2 | 374.6 | 353.2 | 242.3 | 249.2 |
| 142 | MP | 344.3 | 353.9 | 360.7 | 353.4 | 351.6 | 357.6 | 366.3 | 375.8 | 380.3 | 388.0 | 375.9 | 353.7 | 256.7 | 260.5 |
| 143 | MP | 355.0 | 355.4 | 361.7 | 369.5 | 358.7 | 356.6 | 367.3 | 369.1 | 370.1 | 381.8 | 382.9 | 368.0 | 265.9 | 266.9 |
| 144 | MP | 315.4 | 316.6 | 322.4 | 327.0 | 330.1 | 334.9 | 342.8 | 345.9 | 349.5 | 350.6 | 342.7 | 325.4 | 241.7 | 242.4 |
| 145 | MP | 336.3 | 343.1 | 352.9 | 357.4 | 358.9 | 356.1 | 362.2 | 367.6 | 368.8 | 370.5 | 365.1 | 344.1 | 236.9 | 235.9 |
| 146 | MP | 331.4 | 342.7 | 358.7 | 362.6 | 359.8 | 347.4 | 346.3 | 350.0 | 354.1 | 359.4 | 355.2 | 340.4 | 236.5 | 231.8 |
| 147 | MP | 333.0 | 343.2 | 357.6 | 362.0 | 359.6 | 350.0 | 351.6 | 355.8 | 359.6 | 363.4 | 359.4 | 342.6 | 238.0 | 234.4 |
| 148 | MP | 385.9 | 398.6 | 411.9 | 399.4 | 380.5 | 348.0 | 337.5 | 344.2 | 363.7 | 379.2 | 381.6 | 378.5 | 262.6 | 266.8 |
| 149 | MP | 315.1 | 322.0 | 335.3 | 336.2 | 334.1 | 323.0 | 325.8 | 329.7 | 334.3 | 341.0 | 338.3 | 320.3 | 206.9 | 205.1 |
| 150 | MP | 339.3 | 351.8 | 364.8 | 370.3 | 366.4 | 353.5 | 347.4 | 352.4 | 356.6 | 362.9 | 360.6 | 346.3 | 234.3 | 233.4 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 151 | MP | 347.3 | 355.4 | 372.6 | 372.5 | 366.7 | 341.8 | 334.0 | 340.1 | 351.2 | 365.0 | 363.3 | 347.4 | 231.0 | 230.2 |
| 152 | MP | 327.1 | 331.3 | 338.6 | 343.5 | 344.0 | 342.5 | 348.9 | 353.8 | 354.0 | 354.9 | 350.0 | 333.0 | 237.5 | 237.0 |
| 153 | MP | 339.5 | 350.1 | 364.7 | 369.0 | 366.5 | 349.9 | 346.8 | 350.9 | 355.3 | 362.8 | 360.7 | 345.7 | 238.7 | 234.8 |
| 154 | MP | 375.7 | 385.1 | 393.4 | 377.5 | 358.7 | 326.5 | 324.1 | 334.1 | 357.7 | 373.2 | 371.1 | 365.1 | 251.4 | 257.3 |
| 155 | MP | 370.1 | 374.5 | 388.7 | 374.3 | 350.9 | 331.4 | 336.3 | 348.2 | 363.5 | 381.8 | 377.2 | 360.2 | 246.7 | 249.0 |
| 156 | MP | 316.0 | 320.0 | 322.0 | 327.0 | 326.0 | 334.0 | 339.0 | 344.0 | 348.0 | 352.0 | 343.0 | 326.0 | 257.0 | 256.0 |
| 157 | MP | 394.0 | 404.0 | 410.0 | 393.0 | 373.0 | 341.0 | 340.0 | 352.0 | 375.0 | 390.0 | 388.0 | 383.0 | 272.0 | 279.0 |
| 158 | MP | 349.0 | 348.0 | 341.3 | 326.5 | 302.3 | 278.5 | 290.8 | 320.0 | 348.3 | 363.5 | 363.5 | 355.3 | 243.8 | 240.5 |
| 159 | MP | 340.7 | 347.0 | 362.8 | 359.3 | 350.7 | 327.4 | 326.1 | 332.8 | 344.0 | 358.5 | 356.0 | 339.4 | 223.2 | 223.1 |
| 160 | MP | 331.2 | 334.0 | 336.2 | 339.0 | 344.0 | 351.0 | 356.6 | 359.0 | 361.4 | 357.0 | 352.0 | 340.0 | 250.4 | 251.4 |
| 161 | MP | 322.8 | 324.6 | 326.6 | 329.8 | 332.4 | 337.4 | 344.4 | 350.2 | 356.0 | 354.0 | 346.0 | 330.6 | 248.2 | 247.0 |
| 162 | MP | 320.7 | 320.8 | 322.3 | 326.5 | 329.2 | 334.5 | 341.5 | 346.7 | 355.0 | 353.3 | 344.3 | 327.7 | 247.7 | 244.5 |
| 163 | MP | 318.3 | 318.8 | 322.0 | 326.5 | 330.8 | 338.8 | 347.3 | 350.5 | 354.6 | 353.0 | 344.6 | 327.6 | 239.1 | 238.5 |
| 164 | MP | 341.8 | 342.5 | 350.3 | 349.6 | 351.8 | 348.8 | 349.3 | 367.4 | 372.2 | 382.4 | 368.0 | 346.7 | 243.6 | 243.9 |
| 165 | MP | 353.7 | 364.9 | 377.0 | 376.7 | 367.7 | 372.4 | 377.8 | 373.3 | 369.5 | 381.2 | 383.1 | 363.7 | 269.8 | 278.1 |
| 166 | MP | 325.2 | 326.8 | 319.5 | 309.6 | 295.8 | 277.5 | 283.4 | 304.0 | 324.4 | 339.0 | 340.8 | 332.8 | 220.1 | 215.7 |
| 167 | MP | 366.2 | 376.7 | 388.6 | 377.5 | 361.0 | 366.0 | 377.4 | 376.0 | 379.7 | 393.9 | 383.7 | 368.4 | 282.9 | 291.5 |
| 168 | MP | 333.3 | 333.8 | 336.6 | 332.4 | 328.5 | 317.5 | 315.6 | 335.8 | 352.9 | 356.1 | 353.8 | 336.5 | 237.8 | 236.8 |
| 169 | MP | 318.4 | 316.1 | 324.3 | 327.5 | 329.5 | 332.1 | 340.1 | 342.9 | 345.3 | 348.9 | 346.5 | 330.3 | 234.9 | 236.9 |
| 170 | MP | 340.6 | 347.9 | 349.7 | 350.2 | 353.6 | 358.3 | 370.2 | 380.1 | 378.6 | 386.5 | 375.2 | 354.2 | 244.4 | 251.4 |
| 171 | MP | 308.5 | 314.6 | 327.5 | 327.3 | 324.5 | 311.7 | 314.2 | 318.4 | 323.6 | 332.0 | 330.0 | 312.1 | 193.9 | 193.2 |
| 172 | MP | 307.1 | 307.0 | 302.2 | 299.4 | 290.5 | 279.3 | 281.2 | 299.6 | 316.7 | 333.5 | 332.7 | 319.6 | 192.3 | 191.2 |
| 173 | MP | 240.4 | 241.7 | 244.1 | 241.6 | 238.2 | 231.7 | 236.6 | 242.1 | 255.6 | 256.4 | 244.0 | 235.1 | 130.5 | 132.5 |
| 174 | MP | 332.3 | 332.4 | 336.1 | 336.8 | 346.3 | 346.1 | 348.8 | 355.9 | 361.5 | 363.8 | 346.1 | 335.9 | 217.6 | 215.1 |
| 175 | MP | 318.0 | 314.8 | 324.0 | 325.6 | 328.2 | 330.8 | 339.2 | 342.6 | 345.3 | 349.1 | 346.6 | 330.2 | 234.4 | 236.3 |
| 176 | MP | 319.3 | 314.6 | 323.1 | 321.8 | 327.5 | 330.5 | 337.0 | 344.0 | 350.6 | 355.4 | 350.5 | 332.6 | 247.0 | 245.9 |
| 177 | MP | 345.5 | 354.5 | 366.6 | 367.3 | 363.2 | 368.2 | 373.9 | 374.6 | 368.0 | 379.5 | 384.3 | 357.8 | 254.1 | 260.9 |
| 178 | MP | 346.9 | 347.5 | 346.4 | 339.0 | 337.0 | 328.3 | 327.2 | 346.7 | 368.8 | 365.6 | 358.5 | 337.5 | 257.5 | 255.0 |
| 179 | MP | 299.7 | 306.7 | 301.6 | 301.6 | 302.9 | 299.6 | 295.7 | 303.6 | 316.1 | 323.7 | 314.7 | 307.6 | 195.1 | 194.7 |
| 180 | MP | 366.0 | 375.7 | 385.6 | 370.0 | 351.7 | 357.7 | 368.8 | 370.1 | 379.7 | 396.0 | 382.1 | 365.5 | 274.5 | 280.9 |
| 181 | MP | 338.3 | 346.5 | 354.5 | 352.8 | 360.1 | 368.6 | 376.7 | 384.6 | 377.4 | 387.2 | 377.6 | 355.1 | 246.2 | 252.6 |
| 182 | MP | 311.3 | 313.4 | 319.9 | 324.7 | 328.9 | 333.0 | 336.4 | 339.4 | 341.6 | 341.0 | 336.7 | 319.1 | 218.3 | 219.5 |
| 183 | MP | 233.9 | 235.9 | 235.7 | 233.4 | 230.8 | 220.2 | 219.1 | 226.0 | 242.5 | 249.0 | 241.2 | 231.2 | 124.0 | 125.9 |
| 184 | MP | 310.0 | 310.9 | 312.3 | 308.3 | 302.7 | 294.3 | 294.6 | 313.8 | 330.5 | 336.0 | 331.6 | 316.8 | 216.3 | 216.2 |
| 185 | MP | 326.9 | 327.3 | 334.7 | 342.5 | 342.3 | 336.9 | 336.6 | 355.6 | 355.1 | 369.4 | 356.5 | 330.0 | 220.2 | 221.5 |
| 186 | MP | 347.4 | 342.6 | 356.0 | 351.3 | 352.6 | 360.3 | 373.4 | 378.9 | 384.6 | 389.2 | 374.0 | 356.8 | 253.2 | 255.7 |
| 187 | MP | 321.0 | 317.2 | 324.9 | 326.7 | 329.6 | 332.0 | 340.5 | 344.1 | 347.2 | 350.8 | 348.4 | 334.4 | 236.3 | 237.1 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 188 | MP | 282.3 | 285.5 | 295.5 | 295.9 | 294.8 | 292.2 | 294.1 | 298.5 | 304.7 | 308.9 | 306.0 | 288.6 | 173.5 | 174.8 |
| 189 | MP | 343.6 | 354.1 | 361.5 | 352.2 | 348.9 | 356.9 | 364.1 | 370.4 | 376.3 | 387.7 | 376.7 | 355.1 | 258.6 | 263.3 |
| 190 | MP | 288.6 | 289.9 | 291.9 | 286.0 | 281.9 | 274.0 | 279.6 | 286.9 | 304.9 | 304.5 | 286.6 | 278.8 | 183.4 | 185.2 |
| 191 | MP | 340.3 | 347.0 | 347.0 | 341.1 | 334.7 | 333.1 | 346.2 | 359.4 | 364.8 | 367.6 | 356.3 | 341.8 | 249.6 | 250.0 |
| 192 | MP | 344.9 | 352.7 | 350.0 | 350.3 | 338.2 | 327.3 | 339.5 | 351.4 | 360.4 | 361.2 | 348.7 | 342.5 | 254.7 | 251.2 |
| 193 | MP | 242.2 | 242.9 | 248.2 | 244.1 | 241.8 | 233.9 | 237.0 | 242.8 | 257.4 | 255.7 | 239.2 | 231.1 | 138.9 | 142.2 |
| 194 | MP | 297.7 | 300.2 | 299.8 | 288.4 | 288.7 | 279.2 | 281.5 | 293.6 | 312.1 | 311.7 | 289.2 | 280.3 | 198.6 | 198.4 |
| 195 | MP | 237.5 | 238.0 | 240.0 | 237.0 | 233.0 | 221.5 | 221.0 | 228.5 | 247.5 | 252.0 | 235.5 | 227.0 | 130.0 | 135.0 |
| 196 | MP | 348.2 | 346.9 | 346.2 | 338.2 | 335.8 | 325.7 | 323.8 | 342.3 | 363.4 | 366.7 | 355.4 | 340.1 | 254.5 | 252.6 |
| 197 | MP | 338.8 | 346.7 | 345.5 | 342.3 | 333.0 | 327.8 | 340.5 | 353.4 | 360.0 | 361.5 | 350.0 | 337.9 | 249.6 | 248.7 |
| 198 | MP | 290.6 | 291.7 | 294.3 | 289.1 | 284.1 | 277.7 | 284.3 | 291.2 | 307.9 | 306.7 | 289.8 | 281.2 | 184.7 | 186.6 |
| 199 | MP | 361.1 | 362.6 | 358.3 | 348.5 | 342.4 | 324.2 | 329.2 | 345.8 | 358.7 | 368.0 | 359.7 | 346.9 | 264.1 | 258.7 |
| 200 | MP | 367.8 | 368.3 | 369.6 | 349.0 | 346.7 | 329.6 | 330.8 | 345.0 | 362.3 | 369.2 | 355.5 | 346.5 | 257.6 | 255.7 |
| 201 | MP | 204.0 | 207.2 | 209.4 | 197.3 | 196.8 | 180.0 | 178.8 | 185.7 | 203.8 | 209.1 | 196.1 | 191.0 | 101.9 | 104.1 |
| 202 | MP | 367.7 | 367.8 | 369.8 | 351.6 | 349.0 | 336.6 | 339.9 | 355.2 | 373.0 | 375.6 | 359.1 | 348.8 | 252.1 | 250.9 |
| 203 | MP | 344.7 | 351.9 | 350.5 | 345.1 | 333.5 | 326.0 | 333.5 | 346.9 | 358.7 | 362.9 | 351.6 | 339.2 | 252.8 | 250.7 |
| 204 | MP | 342.0 | 339.3 | 339.2 | 338.7 | 335.3 | 338.9 | 338.7 | 367.9 | 379.9 | 386.2 | 373.0 | 349.8 | 229.5 | 232.4 |
| 205 | MP | 274.8 | 271.7 | 277.6 | 293.9 | 301.6 | 299.7 | 299.3 | 309.3 | 303.9 | 314.1 | 300.6 | 277.5 | 149.6 | 148.6 |
| 206 | MP | 332.5 | 330.4 | 335.4 | 335.9 | 340.8 | 352.4 | 356.6 | 377.7 | 379.5 | 385.8 | 369.9 | 345.9 | 222.9 | 232.9 |
| 207 | MP | 351.5 | 355.0 | 370.2 | 360.3 | 341.2 | 323.0 | 329.6 | 338.2 | 349.1 | 367.4 | 363.2 | 347.1 | 240.2 | 241.4 |
| 208 | MP | 366.7 | 380.5 | 390.9 | 368.6 | 342.4 | 335.3 | 345.8 | 359.7 | 371.8 | 384.5 | 371.7 | 356.2 | 260.5 | 266.3 |
| 209 | MP | 244.7 | 244.7 | 244.4 | 241.7 | 246.1 | 245.4 | 238.1 | 243.0 | 252.6 | 258.9 | 252.0 | 250.6 | 141.1 | 140.4 |
| 210 | MP | 265.1 | 263.3 | 265.0 | 269.6 | 279.1 | 281.2 | 285.3 | 286.0 | 289.7 | 288.7 | 275.2 | 272.9 | 148.4 | 146.4 |
| 211 | MP | 336.0 | 345.0 | 355.0 | 358.7 | 362.7 | 370.6 | 378.1 | 386.9 | 374.7 | 384.9 | 380.4 | 353.1 | 241.7 | 247.7 |
| 212 | MP | 235.7 | 236.9 | 236.4 | 234.5 | 237.3 | 231.7 | 229.6 | 236.1 | 249.2 | 253.0 | 243.5 | 235.9 | 127.4 | 129.3 |
| 213 | MP | 346.0 | 345.6 | 348.9 | 349.0 | 352.2 | 362.4 | 357.2 | 388.9 | 398.2 | 402.7 | 381.7 | 355.6 | 241.3 | 249.2 |
| 214 | MP | 373.0 | 371.8 | 381.3 | 378.3 | 362.5 | 355.2 | 363.7 | 368.2 | 376.0 | 385.9 | 386.5 | 374.3 | 268.3 | 270.2 |
| 215 | MP | 344.5 | 342.8 | 348.0 | 340.6 | 345.6 | 345.9 | 349.6 | 364.9 | 373.7 | 378.2 | 360.8 | 348.4 | 250.0 | 250.1 |
| 216 | MP | 335.4 | 343.8 | 353.6 | 351.1 | 350.5 | 355.7 | 360.2 | 359.5 | 354.0 | 362.7 | 371.5 | 351.7 | 235.0 | 241.3 |
| 217 | MP | 364.7 | 376.0 | 388.1 | 367.1 | 339.7 | 329.3 | 338.9 | 353.2 | 365.7 | 380.4 | 369.5 | 352.6 | 248.7 | 253.6 |
| 218 | MP | 278.3 | 280.1 | 282.8 | 278.5 | 276.8 | 269.9 | 274.2 | 282.1 | 298.5 | 299.3 | 285.1 | 275.3 | 165.6 | 167.6 |
| 219 | MP | 315.5 | 317.5 | 317.5 | 329.5 | 339.5 | 336.5 | 337.0 | 340.5 | 342.0 | 340.5 | 329.0 | 322.5 | 199.0 | 196.5 |
| 220 | MP | 188.6 | 184.2 | 195.3 | 195.8 | 198.8 | 191.5 | 192.2 | 205.7 | 206.4 | 228.1 | 221.3 | 205.3 | 62.2 | 59.2 |
| 221 | MP | 377.9 | 374.8 | 383.8 | 383.7 | 368.6 | 359.9 | 367.7 | 373.8 | 381.4 | 389.4 | 393.4 | 381.1 | 271.1 | 272.3 |
| 222 | MP | 267.5 | 267.7 | 272.3 | 279.0 | 272.8 | 268.6 | 272.2 | 279.3 | 276.4 | 284.9 | 290.9 | 276.6 | 153.6 | 153.1 |
| 223 | MP | 359.7 | 356.6 | 352.2 | 347.3 | 335.6 | 321.5 | 325.2 | 350.0 | 373.9 | 383.8 | 383.0 | 368.5 | 257.6 | 260.1 |
| 224 | MP | 219.6 | 215.7 | 218.1 | 213.0 | 221.6 | 225.9 | 216.5 | 219.9 | 225.8 | 229.5 | 223.6 | 222.2 | 113.8 | 113.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 225 | MP | 285.9 | 285.2 | 285.8 | 299.8 | 308.8 | 304.4 | 304.1 | 310.1 | 311.7 | 310.8 | 298.9 | 286.7 | 170.0 | 168.0 |
| 226 | MP | 394.5 | 400.1 | 408.0 | 391.0 | 368.0 | 343.4 | 345.5 | 356.6 | 380.3 | 396.9 | 392.5 | 379.6 | 267.8 | 274.3 |
| 227 | MP | 336.1 | 340.7 | 339.2 | 334.0 | 331.6 | 326.5 | 328.9 | 343.6 | 363.0 | 366.6 | 349.4 | 334.8 | 243.3 | 242.3 |
| 228 | MP | 343.2 | 345.5 | 350.6 | 345.3 | 347.8 | 348.3 | 351.3 | 368.3 | 375.4 | 381.9 | 368.1 | 349.2 | 246.3 | 246.5 |
| 229 | MP | 340.0 | 338.3 | 339.1 | 339.3 | 339.2 | 346.4 | 344.1 | 374.7 | 381.1 | 386.2 | 374.1 | 351.5 | 228.8 | 234.0 |
| 230 | MP | 331.1 | 337.1 | 349.2 | 364.6 | 367.6 | 373.1 | 384.9 | 397.7 | 387.1 | 394.3 | 383.5 | 357.2 | 230.0 | 235.2 |
| 231 | MP | 337.1 | 335.1 | 341.7 | 342.1 | 346.6 | 356.6 | 364.0 | 377.8 | 388.7 | 394.7 | 373.1 | 348.3 | 236.5 | 245.1 |
| 232 | MP | 337.8 | 345.1 | 348.5 | 347.8 | 352.4 | 358.3 | 369.8 | 379.6 | 376.7 | 384.8 | 373.1 | 352.1 | 239.6 | 247.6 |
| 233 | MP | 337.8 | 344.8 | 351.8 | 351.0 | 357.8 | 364.7 | 374.3 | 383.4 | 378.7 | 387.5 | 375.3 | 353.3 | 240.7 | 247.9 |
| 234 | MP | 349.3 | 358.5 | 368.1 | 357.9 | 354.0 | 360.8 | 367.0 | 368.5 | 373.7 | 389.2 | 380.0 | 361.9 | 266.1 | 270.0 |
| 235 | MP | 355.0 | 353.7 | 358.0 | 363.0 | 355.3 | 355.7 | 358.0 | 357.7 | 357.3 | 362.0 | 371.0 | 362.3 | 270.7 | 267.0 |
| 236 | MP | 367.6 | 376.4 | 387.6 | 376.2 | 358.2 | 363.3 | 373.3 | 373.7 | 379.6 | 394.9 | 383.1 | 367.7 | 280.0 | 287.8 |
| 237 | MP | 363.0 | 374.3 | 387.1 | 376.1 | 360.7 | 365.7 | 377.5 | 375.8 | 377.6 | 390.6 | 381.7 | 366.8 | 282.4 | 291.5 |
| 238 | MP | 365.2 | 366.9 | 378.6 | 371.6 | 355.5 | 343.9 | 353.0 | 358.0 | 366.5 | 380.9 | 377.3 | 364.0 | 261.0 | 263.8 |
| 239 | MP | 334.9 | 339.5 | 348.4 | 351.4 | 355.5 | 359.5 | 366.3 | 366.0 | 353.5 | 347.2 | 352.2 | 348.5 | 243.2 | 247.9 |
| 240 | MP | 346.9 | 347.2 | 348.4 | 349.9 | 350.3 | 364.3 | 348.5 | 390.8 | 397.1 | 401.0 | 383.0 | 357.4 | 240.0 | 247.1 |
| 241 | MP | 336.5 | 344.5 | 352.4 | 350.4 | 358.1 | 366.2 | 374.8 | 383.3 | 376.8 | 386.3 | 375.7 | 353.6 | 243.7 | 250.3 |
| 242 | MP | 361.0 | 372.0 | 386.0 | 376.0 | 362.0 | 367.0 | 380.0 | 376.0 | 376.0 | 388.0 | 381.0 | 365.0 | 283.0 | 292.0 |
| 243 | MP | 340.9 | 346.8 | 348.1 | 349.5 | 353.0 | 357.3 | 370.6 | 380.7 | 378.1 | 385.7 | 373.6 | 353.1 | 240.8 | 248.3 |
| 244 | MP | 340.5 | 340.3 | 344.8 | 356.8 | 359.0 | 356.3 | 355.8 | 349.0 | 347.5 | 351.3 | 352.5 | 349.8 | 255.5 | 255.0 |
| 245 | MP | 339.2 | 340.6 | 344.8 | 363.1 | 367.6 | 369.1 | 375.4 | 389.0 | 380.0 | 389.2 | 389.9 | 362.5 | 235.4 | 240.3 |
| 246 | MP | 336.5 | 336.5 | 337.0 | 331.5 | 326.0 | 315.5 | 315.5 | 337.5 | 358.5 | 365.5 | 358.5 | 342.0 | 241.5 | 241.0 |
| 247 | MP | 359.0 | 361.3 | 359.0 | 352.7 | 343.9 | 341.5 | 333.1 | 370.7 | 397.3 | 399.7 | 388.7 | 367.2 | 259.4 | 263.7 |
| 248 | MP | 356.6 | 352.8 | 350.8 | 347.2 | 336.8 | 322.5 | 321.0 | 353.9 | 380.4 | 391.1 | 385.3 | 363.7 | 260.8 | 264.8 |
| 249 | MP | 322.0 | 320.0 | 324.0 | 327.5 | 331.3 | 333.3 | 340.3 | 343.5 | 348.3 | 350.3 | 347.0 | 336.3 | 244.5 | 244.3 |
| 250 | MP | 312.7 | 313.3 | 312.1 | 315.5 | 304.9 | 295.4 | 298.8 | 315.7 | 323.7 | 330.9 | 334.8 | 318.4 | 211.2 | 210.4 |
| 251 | MP | 349.1 | 350.1 | 349.6 | 349.3 | 347.1 | 359.5 | 340.8 | 387.0 | 394.7 | 398.6 | 382.8 | 358.9 | 241.3 | 247.3 |
| 252 | MP | 335.0 | 338.3 | 346.5 | 358.0 | 361.5 | 363.8 | 376.0 | 380.0 | 395.0 | 386.5 | 376.0 | 363.3 | 227.0 | 230.0 |
| 253 | MP | 335.0 | 341.0 | 347.0 | 349.0 | 355.0 | 360.0 | 365.0 | 364.0 | 353.0 | 353.0 | 360.0 | 350.0 | 239.0 | 244.0 |
| 254 | MP | 212.8 | 212.4 | 212.6 | 206.4 | 205.6 | 192.6 | 191.8 | 200.2 | 221.0 | 226.0 | 207.8 | 199.8 | 111.8 | 113.2 |
| 255 | MP | 264.7 | 266.3 | 269.0 | 264.3 | 260.7 | 252.3 | 256.0 | 263.0 | 280.7 | 281.0 | 261.7 | 254.3 | 159.7 | 162.3 |
| 256 | MP | 314.6 | 314.9 | 321.1 | 323.2 | 325.1 | 330.0 | 335.6 | 340.8 | 345.0 | 348.0 | 342.1 | 324.5 | 246.6 | 246.0 |
| 257 | MP | 231.0 | 233.0 | 231.5 | 224.5 | 227.5 | 217.5 | 217.5 | 226.0 | 245.0 | 247.0 | 225.5 | 217.5 | 147.0 | 147.0 |
| 258 | MP | 377.0 | 380.0 | 381.0 | 361.0 | 356.0 | 336.0 | 338.0 | 351.0 | 365.0 | 372.0 | 360.0 | 356.0 | 260.0 | 260.0 |
| 259 | MP | 382.5 | 385.5 | 386.0 | 363.0 | 359.0 | 337.5 | 338.5 | 351.0 | 368.5 | 377.5 | 366.5 | 360.5 | 270.5 | 269.5 |
| 260 | MP | 342.9 | 347.9 | 362.9 | 363.0 | 357.7 | 336.9 | 334.3 | 340.4 | 349.8 | 362.0 | 361.5 | 343.7 | 224.3 | 224.2 |
| 261 | MP | 318.5 | 319.5 | 323.5 | 327.8 | 332.0 | 336.5 | 343.8 | 348.0 | 353.5 | 352.0 | 343.3 | 327.5 | 249.5 | 247.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 262 | MP | 349.1 | 359.9 | 366.6 | 347.8 | 336.4 | 339.8 | 353.1 | 360.7 | 372.6 | 385.1 | 371.1 | 347.8 | 255.4 | 259.6 |
| 263 | MP | 315.8 | 315.5 | 322.3 | 323.5 | 324.8 | 330.0 | 335.5 | 341.5 | 346.8 | 350.5 | 344.5 | 326.8 | 249.8 | 248.3 |
| 264 | MP | 328.0 | 324.4 | 330.0 | 338.0 | 338.1 | 334.3 | 335.3 | 338.6 | 341.4 | 346.6 | 348.0 | 338.2 | 259.5 | 257.8 |
| 265 | MP | 361.6 | 372.4 | 381.0 | 361.4 | 343.5 | 349.3 | 363.2 | 366.6 | 378.6 | 393.4 | 379.4 | 360.6 | 267.6 | 272.7 |
| 266 | MP | 338.9 | 346.2 | 352.9 | 351.0 | 357.3 | 364.3 | 374.0 | 383.1 | 379.0 | 388.0 | 376.3 | 355.3 | 244.2 | 251.3 |
| 267 | MP | 341.2 | 349.8 | 357.6 | 354.9 | 362.4 | 371.9 | 379.2 | 386.8 | 378.3 | 388.2 | 380.1 | 357.6 | 251.3 | 257.7 |
| 268 | MP | 358.0 | 369.2 | 382.6 | 375.2 | 363.9 | 369.0 | 376.5 | 372.6 | 371.5 | 386.6 | 383.6 | 364.8 | 277.7 | 286.5 |
| 269 | MP | 340.6 | 345.1 | 347.8 | 343.9 | 343.6 | 344.3 | 349.6 | 364.6 | 371.1 | 379.2 | 366.1 | 346.9 | 245.5 | 245.9 |
| 270 | MP | 346.3 | 354.8 | 364.4 | 356.4 | 357.4 | 364.8 | 371.1 | 373.7 | 375.1 | 389.9 | 382.9 | 362.4 | 263.0 | 267.5 |
| 271 | MP | 352.7 | 363.1 | 373.1 | 362.8 | 358.3 | 364.3 | 371.4 | 370.8 | 374.2 | 389.7 | 380.7 | 362.9 | 270.0 | 275.3 |
| 272 | MP | 326.6 | 324.3 | 327.6 | 332.5 | 333.9 | 335.8 | 342.6 | 344.7 | 347.6 | 348.6 | 347.1 | 339.3 | 241.8 | 240.0 |
| 273 | MP | 362.3 | 373.3 | 386.0 | 374.1 | 360.5 | 365.5 | 377.1 | 374.6 | 377.9 | 391.7 | 381.1 | 365.6 | 281.1 | 289.6 |
| 274 | MP | 361.7 | 373.5 | 386.2 | 375.5 | 362.3 | 367.3 | 379.2 | 376.0 | 377.7 | 390.0 | 381.0 | 365.8 | 283.0 | 292.3 |
| 275 | MP | 360.7 | 371.3 | 385.0 | 381.1 | 360.3 | 363.5 | 374.8 | 371.9 | 371.8 | 385.4 | 384.3 | 367.7 | 281.9 | 291.3 |
| 276 | MP | 349.5 | 359.8 | 368.8 | 357.9 | 352.1 | 359.3 | 366.2 | 367.6 | 373.9 | 389.0 | 378.3 | 360.7 | 266.1 | 270.6 |
| 277 | MP | 338.4 | 338.0 | 339.4 | 346.8 | 349.8 | 351.8 | 356.0 | 355.6 | 357.3 | 356.0 | 354.3 | 350.5 | 255.4 | 253.4 |
| 278 | MP | 348.0 | 358.7 | 365.2 | 347.0 | 336.0 | 339.2 | 352.4 | 360.2 | 372.0 | 384.0 | 369.9 | 346.7 | 254.8 | 259.0 |
| 279 | MP | 347.9 | 359.5 | 367.2 | 355.0 | 346.8 | 355.7 | 363.3 | 366.9 | 375.3 | 389.2 | 377.1 | 355.4 | 264.1 | 269.2 |
| 280 | MP | 345.8 | 354.8 | 363.7 | 354.1 | 350.7 | 358.0 | 364.1 | 367.5 | 373.9 | 388.4 | 378.2 | 359.9 | 262.0 | 265.7 |
| 281 | MP | 351.7 | 361.8 | 371.8 | 362.0 | 358.4 | 364.8 | 371.4 | 371.2 | 374.4 | 389.7 | 381.2 | 363.2 | 269.0 | 274.1 |
| 282 | MP | 340.7 | 346.3 | 351.8 | 345.9 | 349.6 | 346.6 | 351.2 | 365.9 | 374.8 | 382.3 | 367.4 | 350.1 | 250.4 | 252.7 |
| 283 | MP | 274.0 | 275.2 | 274.1 | 272.5 | 277.6 | 277.1 | 267.0 | 273.8 | 283.0 | 290.1 | 283.4 | 281.9 | 164.8 | 163.6 |
| 284 | MP | 378.2 | 375.8 | 384.9 | 383.8 | 368.1 | 360.5 | 368.1 | 373.7 | 381.4 | 389.6 | 392.5 | 380.7 | 272.2 | 273.3 |
| 285 | MP | 336.3 | 343.7 | 347.2 | 338.1 | 335.9 | 336.6 | 347.5 | 358.6 | 366.5 | 372.7 | 357.0 | 336.3 | 249.9 | 252.6 |
| 286 | MP | 331.0 | 330.0 | 334.0 | 334.5 | 340.5 | 344.5 | 354.5 | 365.5 | 369.0 | 376.5 | 361.5 | 342.5 | 218.5 | 223.5 |
| 287 | MP | 366.5 | 373.5 | 385.9 | 382.5 | 357.0 | 358.6 | 370.9 | 373.3 | 375.9 | 389.9 | 387.9 | 371.6 | 279.5 | 287.4 |
| 288 | MP | 361.8 | 362.3 | 353.0 | 348.5 | 331.0 | 319.3 | 321.3 | 349.0 | 377.0 | 386.5 | 384.0 | 372.3 | 265.8 | 268.5 |
| 289 | MP | 344.1 | 356.3 | 362.4 | 351.7 | 345.8 | 355.4 | 362.4 | 368.4 | 376.1 | 387.9 | 376.2 | 351.9 | 260.5 | 265.9 |
| 290 | MP | 339.5 | 345.4 | 348.1 | 348.1 | 352.9 | 357.8 | 370.1 | 380.1 | 376.8 | 385.0 | 372.7 | 352.2 | 238.4 | 247.0 |
| 291 | MP | 333.2 | 331.6 | 334.0 | 340.0 | 340.2 | 341.5 | 347.3 | 348.1 | 350.0 | 350.3 | 350.6 | 344.7 | 245.3 | 242.6 |
| 292 | MP | 341.0 | 348.1 | 355.9 | 355.7 | 355.8 | 361.1 | 365.7 | 362.3 | 353.2 | 356.8 | 364.2 | 356.3 | 245.2 | 250.8 |
| 293 | MP | 320.8 | 314.8 | 318.4 | 320.5 | 327.3 | 331.8 | 335.1 | 342.1 | 348.0 | 353.3 | 349.3 | 336.3 | 254.4 | 252.2 |
| 294 | MP | 348.7 | 358.3 | 368.8 | 364.1 | 363.0 | 370.4 | 376.4 | 376.2 | 371.6 | 384.8 | 381.9 | 360.5 | 263.7 | 270.6 |
| 295 | MP | 337.5 | 345.0 | 355.8 | 355.5 | 352.8 | 357.3 | 362.2 | 363.2 | 357.6 | 366.4 | 375.1 | 351.5 | 239.6 | 245.9 |
| 296 | MP | 369.7 | 367.0 | 377.8 | 377.0 | 369.2 | 354.8 | 355.3 | 362.6 | 371.5 | 379.3 | 385.5 | 372.2 | 247.2 | 247.6 |
| 297 | MP | 348.3 | 348.3 | 352.6 | 351.0 | 354.8 | 363.0 | 361.8 | 388.5 | 402.3 | 406.1 | 383.2 | 356.3 | 246.6 | 254.3 |
| 298 | MP | 345.4 | 337.3 | 352.8 | 348.7 | 351.1 | 361.0 | 373.9 | 378.1 | 385.8 | 390.2 | 373.2 | 355.8 | 250.3 | 254.3 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 299 | MP | 253.2 | 255.1 | 256.9 | 253.8 | 251.9 | 243.5 | 245.4 | 253.0 | 268.2 | 270.2 | 259.3 | 250.3 | 143.8 | 145.0 |
| 300 | MP | 342.2 | 341.3 | 346.5 | 346.7 | 351.1 | 360.0 | 364.1 | 382.7 | 395.7 | 401.1 | 377.9 | 351.9 | 240.5 | 250.3 |
| 301 | MP | 369.8 | 379.1 | 382.5 | 358.4 | 335.8 | 328.4 | 328.9 | 343.3 | 368.9 | 376.8 | 369.3 | 352.3 | 255.1 | 260.2 |
| 302 | MP | 312.0 | 313.0 | 318.0 | 321.0 | 320.0 | 328.0 | 332.0 | 338.0 | 342.0 | 346.0 | 339.5 | 322.0 | 248.5 | 246.5 |
| 303 | MP | 352.7 | 353.6 | 352.3 | 349.2 | 343.5 | 348.5 | 336.8 | 379.1 | 393.6 | 398.0 | 383.5 | 361.3 | 245.6 | 250.2 |
| 304 | MP | 345.3 | 346.3 | 344.6 | 337.4 | 337.0 | 326.7 | 326.6 | 348.7 | 368.0 | 365.1 | 358.1 | 336.1 | 258.3 | 253.8 |
| 305 | MP | 329.5 | 330.7 | 336.9 | 339.9 | 334.7 | 324.6 | 324.0 | 345.1 | 351.7 | 360.6 | 355.5 | 333.8 | 231.0 | 232.7 |
| 306 | MP | 295.1 | 291.6 | 298.8 | 315.0 | 321.8 | 318.7 | 317.1 | 328.2 | 322.2 | 331.0 | 317.6 | 296.0 | 174.5 | 173.6 |
| 307 | MP | 274.7 | 276.0 | 276.8 | 278.8 | 285.0 | 284.8 | 276.9 | 283.1 | 289.2 | 293.8 | 286.4 | 286.4 | 172.3 | 172.9 |
| 308 | MP | 319.9 | 316.2 | 323.0 | 332.4 | 341.0 | 338.0 | 338.0 | 348.1 | 353.5 | 354.2 | 337.7 | 323.2 | 210.9 | 208.8 |
| 309 | MP | 349.4 | 349.8 | 348.8 | 340.0 | 339.5 | 328.3 | 325.9 | 349.7 | 371.1 | 364.7 | 361.1 | 337.0 | 262.3 | 259.1 |
| 310 | MP | 320.4 | 318.5 | 326.6 | 342.2 | 345.6 | 341.7 | 339.9 | 353.3 | 343.7 | 357.1 | 339.9 | 318.0 | 203.4 | 203.1 |
| 311 | MP | 343.7 | 345.9 | 353.0 | 348.5 | 350.4 | 349.1 | 350.8 | 367.9 | 374.2 | 382.4 | 367.6 | 348.8 | 247.6 | 248.0 |
| 312 | MP | 313.6 | 319.4 | 316.0 | 317.8 | 316.3 | 313.8 | 309.9 | 318.8 | 328.4 | 335.9 | 328.5 | 323.4 | 211.2 | 210.0 |
| 313 | MP | 317.6 | 316.6 | 322.1 | 333.9 | 339.9 | 336.4 | 334.1 | 342.6 | 346.8 | 343.3 | 329.6 | 318.1 | 213.9 | 212.1 |
| 314 | MP | 355.7 | 351.5 | 351.1 | 348.5 | 340.3 | 327.9 | 325.3 | 357.6 | 381.4 | 392.4 | 385.0 | 361.4 | 261.0 | 264.0 |
| 315 | MP | 342.4 | 340.8 | 339.9 | 337.7 | 328.5 | 315.8 | 319.5 | 340.6 | 359.7 | 371.3 | 365.6 | 347.2 | 247.1 | 247.6 |
| 316 | MP | 341.6 | 343.1 | 342.2 | 337.1 | 333.6 | 327.6 | 327.9 | 342.3 | 363.7 | 366.6 | 353.4 | 337.6 | 247.6 | 246.6 |
| 317 | MP | 221.4 | 222.7 | 223.6 | 221.8 | 217.8 | 208.8 | 210.6 | 215.8 | 231.6 | 236.9 | 227.0 | 218.1 | 110.8 | 112.1 |
| 318 | MP | 310.1 | 311.6 | 314.9 | 310.2 | 305.6 | 302.4 | 309.7 | 317.0 | 330.3 | 329.2 | 314.8 | 305.4 | 206.1 | 207.7 |
| 319 | MP | 250.0 | 251.3 | 256.7 | 252.3 | 250.0 | 244.3 | 249.3 | 255.3 | 269.0 | 263.3 | 245.0 | 238.0 | 145.0 | 148.7 |
| 320 | MP | 346.3 | 351.2 | 347.9 | 340.7 | 340.7 | 344.3 | 343.5 | 357.7 | 370.3 | 382.9 | 367.5 | 352.9 | 251.1 | 253.3 |
| 321 | MP | 350.6 | 350.1 | 352.8 | 346.7 | 345.4 | 342.1 | 344.6 | 370.1 | 387.1 | 387.6 | 379.1 | 356.0 | 258.9 | 260.9 |
| 322 | MP | 186.3 | 182.1 | 194.4 | 195.0 | 197.6 | 190.3 | 191.3 | 204.9 | 203.7 | 225.3 | 218.3 | 201.1 | 59.3 | 56.3 |
| 323 | MP | 353.8 | 353.5 | 353.8 | 349.2 | 348.3 | 353.0 | 352.1 | 366.9 | 376.4 | 387.8 | 367.6 | 353.4 | 255.4 | 256.9 |
| 324 | MP | 350.9 | 352.4 | 355.1 | 351.7 | 350.6 | 354.9 | 353.6 | 368.3 | 379.1 | 387.3 | 367.2 | 353.1 | 255.4 | 257.6 |
| 325 | MP | 338.3 | 341.8 | 340.4 | 336.5 | 335.4 | 333.7 | 335.7 | 351.4 | 367.4 | 370.4 | 351.9 | 339.6 | 248.7 | 247.7 |
| 326 | MP | 349.3 | 349.3 | 351.9 | 347.1 | 344.9 | 335.3 | 332.0 | 353.0 | 371.7 | 374.3 | 372.5 | 352.0 | 252.1 | 250.4 |
| 327 | MP | 344.0 | 342.0 | 340.0 | 334.0 | 328.0 | 318.0 | 323.0 | 336.0 | 352.0 | 358.0 | 341.0 | 335.0 | 247.0 | 245.0 |
| 328 | MP | 344.9 | 344.1 | 351.2 | 346.0 | 351.2 | 349.9 | 352.3 | 366.7 | 373.9 | 380.1 | 364.6 | 350.0 | 251.4 | 250.7 |
| 329 | MP | 341.6 | 342.4 | 348.6 | 342.8 | 347.7 | 347.3 | 351.3 | 364.6 | 372.2 | 378.8 | 362.4 | 346.6 | 249.9 | 249.1 |
| 330 | MP | 340.3 | 344.3 | 340.3 | 346.3 | 348.3 | 351.3 | 367.3 | 378.0 | 377.0 | 384.3 | 370.7 | 350.3 | 238.0 | 245.7 |
| 331 | MP | 340.4 | 341.9 | 341.3 | 343.9 | 346.9 | 352.9 | 367.9 | 379.3 | 376.0 | 383.0 | 370.5 | 351.4 | 231.8 | 241.0 |
| 332 | MP | 342.7 | 347.6 | 350.1 | 344.3 | 346.9 | 350.6 | 360.4 | 371.5 | 378.9 | 387.5 | 376.5 | 351.7 | 242.2 | 242.7 |
| 333 | MP | 353.2 | 355.9 | 360.3 | 369.9 | 370.3 | 369.5 | 369.2 | 363.8 | 360.0 | 361.1 | 364.1 | 362.2 | 255.2 | 255.6 |
| 334 | MP | 345.0 | 356.1 | 362.5 | 344.0 | 332.8 | 334.6 | 346.7 | 356.3 | 368.0 | 378.7 | 364.5 | 342.6 | 250.8 | 255.0 |
| 335 | MP | 343.1 | 352.0 | 357.8 | 344.0 | 340.5 | 342.2 | 353.6 | 362.3 | 374.3 | 386.1 | 369.4 | 345.0 | 256.2 | 260.1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 336 | MP | 347.5 | 347.3 | 350.8 | 350.4 | 353.5 | 362.8 | 359.5 | 389.0 | 400.5 | 404.5 | 382.3 | 356.7 | 244.1 | 252.1 |
| 337 | MP | 349.2 | 356.0 | 361.5 | 355.5 | 355.7 | 358.1 | 367.4 | 378.0 | 381.3 | 387.9 | 376.3 | 355.7 | 258.0 | 257.7 |
| 338 | MP | 341.2 | 344.3 | 341.5 | 345.3 | 347.8 | 353.2 | 368.5 | 379.5 | 377.2 | 384.7 | 371.2 | 352.3 | 236.2 | 244.0 |
| 339 | MP | 349.7 | 360.5 | 367.5 | 350.1 | 341.4 | 350.2 | 362.6 | 367.2 | 379.2 | 391.1 | 378.1 | 353.7 | 265.1 | 268.6 |
| 340 | MP | 343.3 | 346.8 | 349.5 | 344.3 | 346.1 | 347.1 | 352.0 | 367.7 | 375.8 | 382.4 | 370.7 | 351.2 | 240.5 | 240.7 |
| 341 | MP | 342.7 | 343.8 | 347.2 | 342.1 | 343.2 | 342.6 | 349.5 | 369.8 | 379.6 | 382.6 | 370.2 | 349.5 | 250.3 | 253.0 |
| 342 | MP | 335.3 | 327.0 | 317.8 | 340.8 | 343.8 | 342.3 | 340.0 | 339.0 | 342.5 | 351.8 | 355.5 | 350.0 | 251.0 | 250.8 |
| 343 | MP | 351.7 | 356.7 | 363.7 | 368.0 | 368.7 | 375.0 | 381.7 | 380.7 | 369.7 | 364.0 | 366.3 | 365.7 | 257.7 | 262.3 |
| 344 | MP | 352.5 | 353.5 | 353.5 | 354.5 | 353.5 | 366.5 | 347.0 | 395.5 | 402.5 | 405.5 | 386.5 | 361.5 | 246.5 | 253.0 |
| 345 | MP | 325.0 | 323.0 | 328.0 | 335.0 | 335.0 | 332.0 | 333.0 | 336.0 | 339.0 | 344.0 | 344.0 | 335.0 | 260.0 | 258.0 |
| 346 | MP | 350.2 | 355.2 | 363.7 | 367.5 | 368.3 | 374.2 | 380.3 | 379.3 | 367.3 | 361.5 | 364.5 | 364.3 | 257.5 | 261.8 |
| 347 | MP | 341.8 | 344.3 | 342.8 | 346.0 | 348.8 | 353.8 | 368.8 | 380.5 | 377.8 | 385.0 | 371.8 | 352.8 | 235.5 | 244.5 |
| 348 | MP | 343.0 | 346.0 | 344.3 | 347.0 | 350.0 | 355.0 | 370.0 | 381.0 | 378.7 | 386.0 | 373.0 | 354.0 | 237.3 | 246.0 |
| 349 | MP | 338.7 | 345.7 | 350.6 | 349.3 | 354.9 | 361.0 | 371.7 | 381.0 | 377.8 | 386.6 | 374.9 | 353.8 | 242.3 | 249.7 |
| 350 | MP | 339.5 | 345.2 | 349.4 | 348.6 | 353.7 | 359.4 | 371.2 | 381.2 | 377.4 | 385.5 | 373.0 | 352.6 | 238.0 | 246.2 |
| 351 | MP | 345.3 | 345.0 | 347.0 | 354.9 | 356.9 | 358.3 | 361.3 | 358.7 | 358.4 | 358.5 | 358.7 | 355.7 | 253.6 | 252.1 |
| 352 | MP | 358.4 | 364.0 | 369.4 | 378.5 | 376.4 | 376.0 | 376.1 | 370.3 | 365.6 | 364.2 | 369.3 | 367.9 | 261.3 | 264.6 |
| 353 | MP | 341.0 | 344.0 | 341.0 | 347.0 | 348.0 | 352.0 | 367.0 | 378.0 | 377.0 | 384.0 | 371.0 | 351.0 | 238.0 | 246.0 |
| 354 | MP | 343.0 | 344.0 | 343.0 | 346.0 | 349.0 | 355.0 | 369.0 | 382.0 | 378.0 | 385.0 | 372.0 | 354.0 | 235.0 | 244.0 |
| 355 | MP | 346.8 | 343.8 | 355.3 | 350.2 | 352.8 | 359.0 | 371.7 | 378.4 | 384.5 | 389.9 | 374.6 | 358.6 | 252.6 | 253.8 |
| 356 | MP | 343.3 | 336.4 | 348.2 | 347.5 | 350.2 | 360.9 | 372.7 | 379.2 | 387.2 | 392.7 | 373.9 | 353.9 | 245.7 | 252.5 |
| 357 | MP | 342.0 | 343.0 | 342.0 | 345.0 | 347.0 | 353.0 | 368.0 | 380.0 | 377.0 | 384.0 | 371.0 | 352.0 | 233.0 | 243.0 |
| 358 | MP | 344.3 | 353.2 | 361.4 | 352.4 | 350.5 | 358.0 | 364.4 | 369.5 | 375.2 | 388.2 | 378.4 | 358.4 | 259.6 | 263.5 |
| 359 | MP | 350.2 | 348.4 | 354.4 | 355.6 | 353.9 | 359.4 | 373.5 | 380.9 | 383.7 | 388.9 | 374.5 | 356.8 | 256.7 | 259.5 |
| 360 | MP | 334.0 | 328.9 | 326.1 | 343.0 | 345.5 | 344.6 | 341.6 | 341.1 | 344.3 | 349.8 | 351.1 | 347.0 | 255.1 | 254.0 |
| 361 | MP | 340.5 | 340.5 | 343.9 | 351.7 | 354.9 | 355.7 | 357.0 | 354.2 | 354.3 | 355.7 | 355.1 | 352.4 | 253.3 | 252.0 |
| 362 | MP | 334.8 | 326.7 | 318.5 | 340.6 | 343.3 | 342.2 | 339.9 | 339.0 | 342.6 | 351.4 | 355.0 | 349.5 | 251.5 | 250.8 |
| 363 | MP | 341.0 | 345.0 | 344.0 | 346.5 | 349.3 | 353.8 | 368.5 | 379.5 | 376.8 | 384.8 | 371.8 | 351.5 | 236.8 | 245.3 |
| 364 | MP | 329.0 | 310.0 | 326.0 | 341.0 | 342.0 | 339.0 | 340.0 | 339.0 | 346.0 | 354.0 | 355.0 | 343.0 | 251.0 | 251.0 |
| 365 | MP | 327.0 | 312.0 | 328.0 | 340.0 | 342.0 | 338.0 | 338.0 | 339.0 | 345.0 | 352.0 | 354.0 | 340.0 | 253.0 | 252.0 |
| 366 | MP | 327.0 | 314.5 | 328.5 | 340.5 | 340.5 | 337.5 | 338.0 | 338.5 | 344.0 | 351.0 | 352.0 | 339.5 | 254.5 | 253.0 |
| 367 | MP | 331.3 | 329.2 | 331.5 | 341.5 | 344.7 | 344.5 | 339.4 | 342.1 | 345.9 | 348.3 | 347.4 | 343.9 | 261.3 | 259.3 |
| 368 | MP | 331.0 | 315.0 | 322.0 | 340.0 | 343.0 | 341.0 | 339.0 | 338.0 | 345.0 | 354.0 | 356.0 | 346.0 | 251.0 | 250.0 |
| 369 | MP | 335.0 | 329.0 | 323.3 | 342.3 | 345.3 | 344.0 | 341.3 | 341.0 | 344.0 | 350.3 | 353.0 | 348.3 | 253.7 | 253.0 |
| 370 | MP | 334.5 | 330.5 | 329.0 | 344.5 | 347.0 | 345.5 | 342.5 | 342.0 | 345.0 | 349.5 | 351.0 | 346.5 | 256.5 | 256.0 |
| 371 | MP | 340.7 | 344.3 | 342.7 | 346.0 | 348.3 | 353.3 | 368.3 | 379.3 | 376.3 | 383.7 | 371.3 | 352.0 | 235.0 | 243.7 |
| 372 | MP | 341.1 | 347.1 | 353.6 | 346.4 | 351.0 | 346.1 | 350.0 | 364.5 | 374.8 | 381.1 | 365.4 | 347.9 | 254.2 | 257.2 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 373 | MP | 346.0 | 349.0 | 355.6 | 350.1 | 353.3 | 355.4 | 365.8 | 375.6 | 381.7 | 388.9 | 375.7 | 356.4 | 251.9 | 251.8 |
| 374 | MP | 342.0 | 345.0 | 343.0 | 347.5 | 350.0 | 353.5 | 369.0 | 380.0 | 378.5 | 386.0 | 372.5 | 352.5 | 238.5 | 246.0 |
| 375 | MP | 344.5 | 344.3 | 345.2 | 344.9 | 345.5 | 356.9 | 345.8 | 384.3 | 388.8 | 394.4 | 380.3 | 356.2 | 234.6 | 241.7 |
| 376 | MP | 341.5 | 343.5 | 342.5 | 345.5 | 348.5 | 353.5 | 368.5 | 380.5 | 377.5 | 384.5 | 371.5 | 352.5 | 234.5 | 243.5 |
| 377 | MP | 351.0 | 350.8 | 354.8 | 360.8 | 355.6 | 356.0 | 358.1 | 357.5 | 355.8 | 358.3 | 365.4 | 359.1 | 263.5 | 262.2 |
| 378 | MP | 339.2 | 338.5 | 339.9 | 346.7 | 348.6 | 350.4 | 355.3 | 355.2 | 357.0 | 355.9 | 354.7 | 350.5 | 253.9 | 251.7 |
| 379 | MP | 348.9 | 349.0 | 351.1 | 351.6 | 353.0 | 364.2 | 353.6 | 392.2 | 400.2 | 404.3 | 384.3 | 358.5 | 243.4 | 250.6 |
| 380 | MP | 346.0 | 345.3 | 348.1 | 348.7 | 351.7 | 362.8 | 354.7 | 389.8 | 397.3 | 402.1 | 382.1 | 356.1 | 240.2 | 247.8 |
| 381 | MP | 338.8 | 343.3 | 344.1 | 340.6 | 342.0 | 348.1 | 353.3 | 364.7 | 372.1 | 378.7 | 364.3 | 344.8 | 247.6 | 248.4 |
| 382 | MP | 342.7 | 349.2 | 361.2 | 362.8 | 354.9 | 358.6 | 363.1 | 361.5 | 357.1 | 365.8 | 375.7 | 353.4 | 249.5 | 255.7 |
| 383 | MP | 337.5 | 344.9 | 349.4 | 340.1 | 339.2 | 338.8 | 348.5 | 359.3 | 368.7 | 375.6 | 359.3 | 338.4 | 251.5 | 254.1 |
| 384 | MP | 343.3 | 342.7 | 348.1 | 347.9 | 352.7 | 360.9 | 367.2 | 382.7 | 397.2 | 402.6 | 378.9 | 352.9 | 243.0 | 252.5 |
| 385 | MP | 344.7 | 344.3 | 348.7 | 348.7 | 352.4 | 361.8 | 362.7 | 386.1 | 397.8 | 402.8 | 380.3 | 354.4 | 241.9 | 250.9 |
| 386 | MP | 344.6 | 349.9 | 344.2 | 351.4 | 352.7 | 355.1 | 369.6 | 380.5 | 380.8 | 388.2 | 374.7 | 354.4 | 244.4 | 251.5 |
| 387 | MP | 368.9 | 378.0 | 387.1 | 372.0 | 351.2 | 354.8 | 366.2 | 369.2 | 378.8 | 395.1 | 381.3 | 365.6 | 272.8 | 279.4 |
| 388 | MP | 337.4 | 344.5 | 354.6 | 354.3 | 348.8 | 353.6 | 358.0 | 355.5 | 350.2 | 357.4 | 366.9 | 350.7 | 241.8 | 248.0 |
| 389 | MP | 339.7 | 340.9 | 345.5 | 338.6 | 343.4 | 343.9 | 348.5 | 362.3 | 370.7 | 376.2 | 360.1 | 344.4 | 251.1 | 250.5 |
| 390 | MP | 344.6 | 352.0 | 364.6 | 366.1 | 358.7 | 362.5 | 367.5 | 366.1 | 361.8 | 372.2 | 380.6 | 355.0 | 252.7 | 259.3 |
| 391 | MP | 342.0 | 346.0 | 343.0 | 347.0 | 349.0 | 354.0 | 369.0 | 380.0 | 378.0 | 385.0 | 373.0 | 353.0 | 236.0 | 246.0 |
| 392 | MP | 334.0 | 330.0 | 328.0 | 344.0 | 347.0 | 345.0 | 342.0 | 341.0 | 344.0 | 349.0 | 351.0 | 347.0 | 256.0 | 255.0 |
| 393 | MP | 342.8 | 346.0 | 343.8 | 347.0 | 349.8 | 354.8 | 369.5 | 380.5 | 378.8 | 385.8 | 373.0 | 353.8 | 237.3 | 246.0 |
| 394 | MP | 341.5 | 345.5 | 342.5 | 347.5 | 349.5 | 353.5 | 369.5 | 380.0 | 378.5 | 385.5 | 372.5 | 352.5 | 238.0 | 246.5 |
| 395 | MP | 351.8 | 357.5 | 367.1 | 369.8 | 358.7 | 360.3 | 364.4 | 361.1 | 359.3 | 369.8 | 377.6 | 359.8 | 264.8 | 269.0 |
| 396 | MP | 343.2 | 343.9 | 347.9 | 356.4 | 359.4 | 359.3 | 359.9 | 355.6 | 355.0 | 356.1 | 356.2 | 353.9 | 253.1 | 251.9 |
| 397 | MP | 352.2 | 351.1 | 354.6 | 361.1 | 358.1 | 358.7 | 360.7 | 359.7 | 357.7 | 360.0 | 365.3 | 360.7 | 261.2 | 260.2 |
| 398 | MP | 195.2 | 194.8 | 200.6 | 200.4 | 196.0 | 184.4 | 182.3 | 188.4 | 204.9 | 212.3 | 199.9 | 188.8 | 103.1 | 105.7 |
| 399 | MP | 238.0 | 241.0 | 239.0 | 232.0 | 235.0 | 225.0 | 227.0 | 235.0 | 254.0 | 256.0 | 233.0 | 225.0 | 152.0 | 152.0 |
| 400 | MP | 242.6 | 243.6 | 248.1 | 244.2 | 239.8 | 231.2 | 232.0 | 238.6 | 255.1 | 257.6 | 244.1 | 234.3 | 138.9 | 141.4 |
| 401 | MP | 316.8 | 318.3 | 323.0 | 328.0 | 332.8 | 336.3 | 342.8 | 346.8 | 350.0 | 350.3 | 342.0 | 325.5 | 249.8 | 248.3 |
| 402 | MP | 324.5 | 325.6 | 327.6 | 332.3 | 336.5 | 343.5 | 350.7 | 354.8 | 359.8 | 357.2 | 348.8 | 333.6 | 247.2 | 246.2 |
| 403 | MP | 326.0 | 326.0 | 329.3 | 334.0 | 338.5 | 346.8 | 354.0 | 357.8 | 362.0 | 359.8 | 351.8 | 335.8 | 248.0 | 247.0 |
| 404 | MP | 329.2 | 329.1 | 334.5 | 340.3 | 347.0 | 355.7 | 364.9 | 367.4 | 370.2 | 368.4 | 360.2 | 342.4 | 242.7 | 243.3 |
| 405 | MP | 322.3 | 322.0 | 324.1 | 329.0 | 332.2 | 338.5 | 346.5 | 351.2 | 357.2 | 356.8 | 347.5 | 330.5 | 247.6 | 244.8 |
| 406 | MP | 333.9 | 336.4 | 340.1 | 342.7 | 349.3 | 358.7 | 364.2 | 367.5 | 368.9 | 365.0 | 359.1 | 344.1 | 247.5 | 247.6 |
| 407 | MP | 310.0 | 311.2 | 317.6 | 321.6 | 324.2 | 327.9 | 333.9 | 337.8 | 340.5 | 343.1 | 336.5 | 319.8 | 239.2 | 239.8 |
| 408 | MP | 314.7 | 315.3 | 321.0 | 322.4 | 323.5 | 329.4 | 334.5 | 340.5 | 345.4 | 349.1 | 343.1 | 325.3 | 249.6 | 248.0 |
| 409 | MP | 312.5 | 311.2 | 319.9 | 320.8 | 323.1 | 327.1 | 333.2 | 337.8 | 341.3 | 345.1 | 340.9 | 322.7 | 238.9 | 239.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 410 | MP | 349.4 | 349.5 | 355.1 | 355.5 | 354.2 | 359.2 | 372.9 | 381.2 | 384.2 | 389.0 | 375.0 | 356.6 | 255.6 | 258.8 |
| 411 | MP | 326.2 | 327.5 | 331.0 | 333.7 | 337.8 | 344.7 | 351.2 | 355.5 | 359.3 | 356.7 | 349.2 | 334.8 | 248.7 | 248.0 |
| 412 | MP | 340.6 | 342.2 | 343.4 | 343.8 | 347.6 | 354.0 | 369.0 | 380.3 | 375.2 | 382.8 | 370.5 | 351.5 | 230.2 | 240.2 |
| 413 | MP | 342.3 | 339.8 | 343.3 | 353.1 | 355.4 | 358.9 | 369.8 | 372.6 | 376.1 | 382.6 | 375.8 | 361.6 | 241.2 | 241.6 |
| 414 | MP | 319.5 | 320.4 | 323.3 | 326.8 | 330.4 | 335.4 | 343.3 | 347.8 | 353.7 | 353.1 | 344.2 | 328.0 | 248.4 | 246.4 |
| 415 | MP | 351.3 | 349.5 | 347.4 | 345.3 | 336.0 | 335.0 | 333.9 | 368.2 | 388.3 | 394.3 | 380.8 | 357.5 | 239.5 | 242.2 |
| 416 | MP | 344.6 | 342.8 | 352.0 | 349.2 | 354.3 | 361.8 | 373.3 | 380.7 | 394.0 | 399.6 | 379.2 | 355.6 | 250.8 | 256.1 |
| 417 | MP | 362.0 | 362.3 | 353.0 | 348.4 | 331.6 | 319.6 | 321.3 | 349.1 | 375.8 | 385.8 | 384.8 | 373.6 | 264.0 | 268.5 |
| 418 | MP | 340.5 | 340.0 | 343.0 | 356.5 | 358.5 | 356.0 | 355.0 | 349.0 | 348.0 | 351.0 | 353.0 | 350.5 | 255.0 | 255.0 |
| 419 | MP | 355.0 | 355.6 | 353.7 | 348.6 | 339.1 | 336.6 | 333.0 | 369.6 | 391.9 | 397.3 | 384.5 | 363.5 | 250.4 | 254.4 |
| 420 | MP | 357.5 | 355.5 | 349.5 | 345.0 | 331.0 | 320.0 | 323.0 | 346.5 | 367.5 | 376.5 | 378.5 | 367.5 | 252.5 | 254.5 |
| 421 | MP | 358.5 | 357.9 | 360.3 | 354.8 | 351.3 | 346.9 | 342.9 | 373.9 | 391.3 | 396.1 | 385.4 | 363.3 | 262.7 | 263.5 |
| 422 | MP | 290.0 | 296.0 | 291.5 | 292.5 | 294.5 | 291.0 | 286.5 | 293.5 | 304.5 | 312.0 | 306.5 | 299.5 | 182.0 | 181.0 |
| 423 | MP | 362.0 | 362.0 | 353.0 | 349.0 | 332.0 | 319.7 | 321.0 | 349.0 | 377.0 | 386.7 | 385.0 | 372.7 | 264.7 | 268.7 |
| 424 | MP | 293.1 | 294.0 | 297.9 | 293.6 | 288.4 | 284.1 | 291.9 | 299.1 | 312.3 | 311.0 | 296.0 | 285.6 | 186.1 | 188.0 |
| 425 | MP | 361.5 | 360.5 | 358.5 | 351.5 | 344.5 | 332.0 | 335.5 | 363.5 | 394.0 | 398.5 | 390.5 | 371.5 | 264.5 | 268.5 |
| 426 | MP | 208.9 | 207.0 | 212.4 | 225.0 | 227.0 | 223.8 | 223.1 | 233.2 | 228.1 | 243.7 | 234.1 | 213.1 | 73.8 | 75.4 |
| 427 | MP | 169.0 | 167.0 | 171.0 | 183.0 | 187.0 | 184.0 | 183.0 | 192.0 | 188.0 | 200.0 | 194.0 | 176.0 | 36.0 | 39.0 |
| 428 | MP | 267.2 | 268.5 | 269.3 | 271.7 | 278.3 | 277.4 | 270.5 | 275.8 | 282.4 | 286.7 | 278.3 | 279.0 | 166.1 | 166.4 |
| 429 | MP | 295.1 | 294.8 | 302.2 | 316.9 | 319.3 | 316.3 | 316.0 | 331.2 | 322.5 | 340.8 | 323.9 | 296.0 | 169.2 | 169.2 |
| 430 | MP | 241.2 | 239.0 | 239.4 | 255.2 | 264.6 | 263.2 | 263.2 | 267.0 | 264.8 | 263.6 | 255.8 | 243.4 | 123.4 | 123.6 |
| 431 | MP | 235.0 | 232.6 | 233.6 | 229.3 | 238.4 | 244.1 | 229.9 | 234.4 | 239.7 | 243.4 | 238.0 | 237.3 | 124.7 | 123.6 |
| 432 | MP | 336.2 | 338.0 | 345.1 | 349.0 | 356.0 | 358.2 | 362.1 | 365.4 | 369.6 | 370.1 | 365.4 | 347.5 | 242.9 | 243.6 |
| 433 | MP | 362.3 | 361.5 | 358.7 | 350.5 | 339.9 | 324.7 | 331.9 | 357.4 | 389.9 | 395.8 | 389.9 | 372.4 | 265.8 | 269.9 |
| 434 | MP | 308.8 | 314.9 | 327.9 | 327.7 | 325.0 | 312.1 | 314.7 | 318.8 | 324.0 | 332.3 | 330.4 | 312.4 | 194.5 | 193.7 |
| 435 | MP | 330.2 | 329.8 | 335.3 | 341.8 | 348.3 | 355.8 | 365.7 | 368.3 | 370.8 | 369.3 | 361.4 | 344.3 | 243.2 | 243.9 |
| 436 | MP | 273.1 | 276.0 | 275.6 | 279.5 | 285.9 | 284.1 | 279.4 | 284.9 | 291.7 | 296.3 | 286.9 | 288.3 | 177.1 | 179.3 |
| 437 | MP | 338.9 | 346.3 | 342.9 | 342.6 | 340.3 | 337.8 | 336.0 | 346.5 | 357.2 | 361.4 | 349.6 | 344.7 | 243.3 | 243.2 |
| 438 | MP | 349.4 | 348.3 | 351.9 | 345.6 | 349.2 | 351.1 | 354.4 | 368.8 | 378.4 | 383.8 | 364.1 | 350.9 | 249.2 | 249.0 |
| 439 | MP | 341.1 | 349.9 | 347.7 | 344.3 | 336.6 | 332.2 | 344.7 | 359.3 | 367.9 | 368.3 | 353.0 | 343.1 | 249.9 | 249.5 |
| 1 | MR | 341.8 | 340.1 | 335.0 | 339.3 | 343.4 | 344.2 | 353.8 | 363.6 | 355.2 | 348.6 | 346.3 | 348.5 | 245.9 | 246.6 |
| 2 | MR | 341.3 | 344.4 | 335.9 | 342.5 | 346.7 | 345.1 | 359.4 | 365.0 | 352.1 | 346.6 | 345.8 | 350.5 | 245.5 | 245.7 |
| 3 | MR | 200.4 | 191.7 | 194.6 | 207.9 | 210.9 | 198.7 | 193.6 | 213.4 | 209.8 | 222.4 | 213.6 | 204.4 | 81.8 | 79.9 |
| 4 | MR | 333.4 | 333.8 | 326.5 | 335.8 | 346.6 | 350.5 | 364.0 | 373.6 | 357.1 | 351.2 | 344.7 | 343.4 | 244.0 | 246.3 |
| 5 | MR | 335.0 | 330.4 | 330.1 | 330.3 | 336.2 | 336.9 | 339.8 | 341.0 | 339.4 | 341.0 | 342.1 | 341.0 | 217.1 | 217.3 |
| 6 | MR | 365.6 | 358.2 | 362.5 | 363.8 | 368.9 | 377.7 | 390.0 | 404.4 | 394.8 | 377.9 | 366.1 | 368.5 | 251.3 | 249.8 |
| 7 | MR | 345.6 | 348.4 | 340.0 | 345.5 | 351.5 | 349.7 | 362.6 | 369.6 | 356.7 | 349.5 | 349.3 | 353.2 | 247.1 | 246.6 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | MR | 263.9 | 263.4 | 258.6 | 258.7 | 256.4 | 251.4 | 246.1 | 245.6 | 254.3 | 265.1 | 272.7 | 270.4 | 146.1 | 146.9 |
| 9 | MR | 344.2 | 341.6 | 342.7 | 347.6 | 351.6 | 356.8 | 366.6 | 378.0 | 379.6 | 374.1 | 361.4 | 353.0 | 241.6 | 241.6 |
| 10 | MR | 384.3 | 366.6 | 371.3 | 375.3 | 369.2 | 362.2 | 359.0 | 388.7 | 406.5 | 395.4 | 380.3 | 375.4 | 259.3 | 256.4 |
| 11 | MR | 386.2 | 366.4 | 367.1 | 368.7 | 357.1 | 337.9 | 342.4 | 368.6 | 396.8 | 393.6 | 385.2 | 379.5 | 259.1 | 258.7 |
| 12 | MR | 336.1 | 333.9 | 344.5 | 350.4 | 351.4 | 357.0 | 373.7 | 382.5 | 386.4 | 382.3 | 374.6 | 361.7 | 254.6 | 255.5 |
| 13 | MR | 347.6 | 343.0 | 343.1 | 344.0 | 346.9 | 349.6 | 355.7 | 366.5 | 373.9 | 379.5 | 376.9 | 359.5 | 259.3 | 259.2 |
| 14 | MR | 355.5 | 356.9 | 347.7 | 348.3 | 346.1 | 356.8 | 374.4 | 375.0 | 380.8 | 377.7 | 361.7 | 356.4 | 257.5 | 260.8 |
| 15 | MR | 354.8 | 339.5 | 338.4 | 338.9 | 324.4 | 305.6 | 308.7 | 335.1 | 357.7 | 357.8 | 355.0 | 350.8 | 220.8 | 219.1 |
| 16 | MR | 309.7 | 297.0 | 299.3 | 293.0 | 281.7 | 266.3 | 269.0 | 294.0 | 318.3 | 315.3 | 308.7 | 312.0 | 197.3 | 196.3 |
| 17 | MR | 334.3 | 329.0 | 332.5 | 335.4 | 337.2 | 337.9 | 343.5 | 350.6 | 355.8 | 360.3 | 360.3 | 346.1 | 260.0 | 259.1 |
| 18 | MR | 312.8 | 301.8 | 302.8 | 301.2 | 287.8 | 276.0 | 282.0 | 302.6 | 316.2 | 314.6 | 315.0 | 314.2 | 188.8 | 189.4 |
| 19 | MR | 317.0 | 313.0 | 319.0 | 330.0 | 336.0 | 344.0 | 366.0 | 375.0 | 374.0 | 369.0 | 360.0 | 347.0 | 258.0 | 258.0 |
| 20 | MR | 343.3 | 346.8 | 356.4 | 363.3 | 372.7 | 381.2 | 391.4 | 402.9 | 406.5 | 406.8 | 384.9 | 359.0 | 235.2 | 234.7 |
| 21 | MR | 362.0 | 353.3 | 354.1 | 362.6 | 372.1 | 385.8 | 396.1 | 409.5 | 402.8 | 382.9 | 373.3 | 369.3 | 253.8 | 251.5 |
| 22 | MR | 349.0 | 348.0 | 357.0 | 361.0 | 360.0 | 364.0 | 379.0 | 386.0 | 389.0 | 386.0 | 380.0 | 368.0 | 253.0 | 255.0 |
| 23 | MR | 330.6 | 332.6 | 341.6 | 351.0 | 362.0 | 364.6 | 371.6 | 379.2 | 378.4 | 373.8 | 365.6 | 347.8 | 242.6 | 242.2 |
| 24 | MR | 350.6 | 354.0 | 363.0 | 367.3 | 371.9 | 377.5 | 389.4 | 400.8 | 408.7 | 406.4 | 395.1 | 370.3 | 249.2 | 251.0 |
| 25 | MR | 365.3 | 356.7 | 358.0 | 365.7 | 375.3 | 391.0 | 401.3 | 414.3 | 407.0 | 385.3 | 375.0 | 372.3 | 259.7 | 257.7 |
| 26 | MR | 341.6 | 343.8 | 340.1 | 346.0 | 353.8 | 370.1 | 396.2 | 399.9 | 393.5 | 378.2 | 356.4 | 352.6 | 261.0 | 261.8 |
| 27 | MR | 339.4 | 342.4 | 338.7 | 344.8 | 353.9 | 369.5 | 399.4 | 407.0 | 402.4 | 384.4 | 357.1 | 352.8 | 262.4 | 264.0 |
| 28 | MR | 341.8 | 344.4 | 338.7 | 344.8 | 350.4 | 364.8 | 393.8 | 399.4 | 396.5 | 382.1 | 356.8 | 352.0 | 260.6 | 262.2 |
| 29 | MR | 337.5 | 334.3 | 335.6 | 342.4 | 353.8 | 372.2 | 410.9 | 429.4 | 433.1 | 424.4 | 380.5 | 360.2 | 261.6 | 260.7 |
| 30 | MR | 340.0 | 343.0 | 340.0 | 346.0 | 357.0 | 372.0 | 402.0 | 411.0 | 405.0 | 386.0 | 357.0 | 353.0 | 265.0 | 266.0 |
| 31 | MR | 309.1 | 295.6 | 296.6 | 309.3 | 325.5 | 342.2 | 365.1 | 372.5 | 370.1 | 369.3 | 359.8 | 335.7 | 250.8 | 244.8 |
| 32 | MR | 339.1 | 342.0 | 335.2 | 340.9 | 346.1 | 359.3 | 390.6 | 399.8 | 401.6 | 388.2 | 357.7 | 350.5 | 258.5 | 260.7 |
| 33 | MR | 349.0 | 346.7 | 355.0 | 360.3 | 358.0 | 361.7 | 377.7 | 384.0 | 387.3 | 385.3 | 379.3 | 368.0 | 253.7 | 255.0 |
| 34 | MR | 317.9 | 312.4 | 318.1 | 328.2 | 334.6 | 341.9 | 362.7 | 372.4 | 373.6 | 368.9 | 359.8 | 347.3 | 259.0 | 258.9 |
| 35 | MR | 352.5 | 330.5 | 351.5 | 364.0 | 375.0 | 398.5 | 411.5 | 419.0 | 407.0 | 376.5 | 362.0 | 360.0 | 252.0 | 250.5 |
| 36 | MR | 327.6 | 329.5 | 338.2 | 347.7 | 357.5 | 360.7 | 368.2 | 376.3 | 376.3 | 372.1 | 363.5 | 344.2 | 238.6 | 238.4 |
| 37 | MR | 343.3 | 338.8 | 340.6 | 354.8 | 372.0 | 388.1 | 396.7 | 417.0 | 416.2 | 412.0 | 382.5 | 364.4 | 246.0 | 244.9 |
| 38 | MR | 339.9 | 343.4 | 339.7 | 346.2 | 356.0 | 371.9 | 401.6 | 409.8 | 404.7 | 386.1 | 357.9 | 353.8 | 264.0 | 265.8 |
| 39 | MR | 363.7 | 349.7 | 346.0 | 344.0 | 328.0 | 306.7 | 310.7 | 338.3 | 364.3 | 363.0 | 360.7 | 358.3 | 236.7 | 235.7 |
| 40 | MR | 333.9 | 331.6 | 337.3 | 349.9 | 362.7 | 375.1 | 380.8 | 391.3 | 394.3 | 401.6 | 378.7 | 352.5 | 225.6 | 224.8 |
| 41 | MR | 356.4 | 357.6 | 348.9 | 349.6 | 346.4 | 356.6 | 371.2 | 369.3 | 373.2 | 371.6 | 360.3 | 356.8 | 256.8 | 259.7 |
| 42 | MR | 380.5 | 368.5 | 364.0 | 371.0 | 350.0 | 346.0 | 350.0 | 375.0 | 407.0 | 397.0 | 382.0 | 385.0 | 270.0 | 266.5 |
| 43 | MR | 389.5 | 378.0 | 364.0 | 363.0 | 333.5 | 315.5 | 324.5 | 350.0 | 379.0 | 382.0 | 385.0 | 389.5 | 262.0 | 258.5 |
| 44 | MR | 387.0 | 369.9 | 376.4 | 389.8 | 404.1 | 408.6 | 411.9 | 434.6 | 439.1 | 410.6 | 395.3 | 387.5 | 261.0 | 257.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | MR | 387.3 | 370.0 | 375.0 | 387.3 | 400.3 | 404.3 | 405.3 | 431.3 | 434.3 | 407.0 | 393.7 | 385.3 | 262.3 | 257.7 |
| 46 | MR | 380.5 | 368.5 | 364.0 | 371.0 | 350.0 | 346.0 | 350.0 | 375.0 | 407.0 | 397.0 | 382.0 | 385.0 | 270.0 | 266.5 |
| 47 | MR | 387.8 | 368.5 | 372.8 | 379.1 | 373.8 | 369.9 | 361.6 | 395.9 | 413.0 | 401.1 | 384.9 | 378.9 | 259.9 | 257.0 |
| 48 | MR | 382.9 | 363.6 | 364.1 | 365.1 | 352.5 | 332.0 | 336.7 | 363.3 | 391.0 | 389.5 | 381.9 | 376.2 | 254.2 | 253.0 |
| 49 | MR | 359.4 | 346.1 | 347.7 | 346.2 | 339.2 | 327.9 | 325.7 | 350.5 | 371.9 | 362.0 | 354.2 | 350.6 | 248.8 | 245.5 |
| 50 | MR | 377.7 | 390.7 | 384.3 | 366.3 | 356.3 | 348.3 | 354.7 | 354.7 | 363.0 | 366.0 | 366.3 | 366.3 | 258.0 | 261.7 |
| 51 | MR | 289.4 | 276.8 | 277.9 | 277.5 | 266.9 | 255.0 | 258.8 | 280.2 | 294.5 | 294.9 | 290.6 | 289.0 | 169.2 | 169.6 |
| 52 | MR | 375.1 | 363.4 | 351.0 | 347.6 | 324.9 | 308.6 | 316.5 | 338.0 | 361.6 | 366.4 | 371.9 | 376.2 | 236.8 | 231.8 |
| 53 | MR | 380.1 | 367.8 | 362.0 | 367.6 | 354.2 | 348.9 | 352.2 | 374.6 | 403.5 | 391.6 | 380.2 | 381.2 | 267.9 | 266.6 |
| 54 | MR | 340.7 | 326.4 | 327.9 | 325.3 | 312.4 | 297.0 | 298.7 | 324.5 | 350.1 | 346.4 | 336.4 | 337.7 | 221.5 | 219.8 |
| 55 | MR | 349.8 | 343.2 | 342.6 | 347.3 | 358.9 | 367.1 | 376.8 | 386.2 | 374.4 | 363.3 | 352.9 | 350.9 | 247.3 | 245.9 |
| 56 | MR | 330.4 | 331.7 | 332.0 | 330.1 | 330.0 | 330.1 | 334.9 | 338.3 | 335.4 | 335.6 | 335.0 | 338.6 | 244.0 | 243.0 |
| 57 | MR | 348.0 | 346.0 | 354.0 | 360.0 | 358.0 | 361.0 | 375.0 | 384.0 | 387.0 | 384.0 | 379.0 | 368.0 | 254.0 | 256.0 |
| 58 | MR | 348.0 | 346.0 | 354.0 | 360.0 | 357.0 | 361.0 | 376.0 | 383.0 | 386.0 | 384.0 | 378.0 | 368.0 | 253.0 | 255.0 |
| 59 | MR | 336.0 | 340.0 | 334.0 | 341.0 | 347.0 | 363.0 | 393.0 | 402.0 | 401.0 | 385.0 | 355.0 | 349.0 | 259.0 | 260.0 |
| 60 | MR | 356.0 | 342.0 | 342.0 | 352.0 | 353.0 | 360.0 | 369.0 | 393.0 | 396.0 | 375.0 | 366.0 | 355.0 | 251.0 | 253.0 |
| 61 | MR | 373.5 | 356.0 | 355.0 | 353.5 | 337.0 | 316.0 | 319.5 | 348.0 | 375.0 | 375.0 | 370.0 | 367.5 | 242.0 | 241.5 |
| 62 | MR | 324.5 | 328.9 | 328.8 | 315.2 | 319.0 | 319.3 | 329.8 | 341.4 | 364.7 | 362.8 | 340.5 | 327.1 | 250.4 | 256.7 |
| 63 | MR | 340.5 | 344.5 | 346.5 | 348.5 | 340.0 | 340.5 | 359.5 | 376.5 | 383.5 | 377.0 | 368.5 | 355.0 | 246.5 | 244.8 |
| 64 | MR | 348.7 | 353.2 | 354.6 | 354.3 | 348.8 | 352.7 | 373.4 | 397.5 | 404.3 | 397.1 | 384.8 | 365.0 | 252.6 | 251.1 |
| 65 | MR | 353.1 | 358.6 | 355.8 | 345.7 | 339.3 | 338.9 | 342.9 | 340.8 | 347.0 | 349.5 | 352.0 | 350.4 | 236.0 | 236.4 |
| 66 | MR | 319.0 | 325.0 | 328.0 | 330.0 | 323.0 | 335.0 | 347.0 | 360.0 | 363.0 | 365.0 | 357.0 | 337.0 | 258.0 | 257.0 |
| 67 | MR | 323.0 | 327.0 | 334.0 | 334.0 | 333.0 | 338.0 | 350.0 | 363.0 | 365.0 | 365.0 | 357.0 | 337.0 | 253.0 | 252.0 |
| 68 | MR | 270.0 | 267.1 | 265.8 | 271.4 | 271.5 | 268.5 | 268.4 | 265.1 | 268.4 | 273.3 | 282.2 | 286.1 | 163.4 | 167.4 |
| 69 | MR | 219.6 | 212.4 | 215.3 | 229.9 | 235.6 | 239.6 | 245.3 | 258.9 | 245.0 | 239.3 | 236.2 | 229.1 | 100.7 | 99.8 |
| 70 | MR | 313.7 | 304.7 | 310.0 | 322.8 | 326.8 | 330.1 | 335.2 | 351.4 | 340.9 | 327.7 | 322.0 | 313.8 | 201.5 | 197.3 |
| 71 | MR | 329.8 | 333.1 | 328.2 | 319.8 | 321.2 | 329.0 | 349.9 | 364.2 | 388.4 | 388.3 | 352.5 | 332.8 | 238.2 | 244.8 |
| 72 | MR | 392.7 | 403.0 | 399.3 | 380.0 | 357.0 | 348.3 | 356.0 | 358.0 | 370.7 | 377.0 | 377.0 | 378.3 | 265.0 | 270.3 |
| 73 | MR | 392.5 | 403.0 | 399.0 | 380.0 | 357.0 | 348.0 | 356.0 | 358.0 | 370.5 | 377.0 | 377.0 | 378.0 | 265.0 | 270.0 |
| 74 | MR | 330.0 | 329.0 | 327.5 | 324.5 | 324.0 | 324.0 | 323.5 | 327.0 | 331.5 | 338.0 | 342.0 | 338.0 | 231.5 | 232.5 |
| 75 | MR | 340.6 | 327.8 | 331.4 | 340.0 | 347.2 | 349.8 | 350.9 | 373.2 | 375.4 | 366.6 | 356.9 | 343.9 | 240.0 | 236.1 |
| 76 | MR | 327.5 | 328.7 | 328.5 | 327.2 | 324.1 | 323.2 | 328.2 | 330.9 | 331.1 | 330.2 | 332.5 | 335.2 | 243.3 | 241.9 |
| 77 | MR | 349.8 | 349.4 | 354.7 | 354.5 | 358.2 | 363.6 | 374.9 | 388.5 | 400.9 | 402.7 | 394.8 | 370.1 | 247.7 | 247.7 |
| 78 | MR | 359.3 | 351.3 | 362.3 | 382.7 | 400.3 | 406.3 | 410.7 | 434.3 | 433.3 | 411.3 | 379.0 | 373.7 | 224.7 | 227.3 |
| 79 | MR | 338.9 | 332.2 | 344.1 | 372.0 | 390.3 | 397.5 | 403.3 | 428.3 | 426.6 | 427.6 | 391.1 | 370.4 | 219.5 | 220.0 |
| 80 | MR | 300.0 | 302.0 | 295.0 | 299.0 | 295.7 | 290.0 | 287.7 | 287.7 | 297.0 | 306.3 | 315.3 | 312.0 | 189.0 | 187.7 |
| 81 | MR | 272.7 | 272.7 | 267.3 | 270.3 | 267.7 | 260.7 | 257.0 | 256.0 | 265.3 | 276.0 | 284.0 | 282.0 | 157.7 | 157.0 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82 | MR | 400.1 | 381.8 | 383.7 | 402.8 | 402.2 | 406.2 | 392.9 | 432.8 | 436.7 | 422.4 | 405.8 | 404.1 | 244.3 | 242.4 |
| 83 | MR | 298.7 | 290.0 | 287.3 | 293.6 | 306.2 | 318.0 | 349.8 | 357.7 | 354.0 | 352.8 | 337.2 | 323.9 | 233.0 | 232.9 |
| 84 | MR | 347.5 | 349.9 | 349.6 | 347.3 | 342.1 | 341.9 | 345.7 | 345.7 | 347.8 | 347.7 | 351.3 | 348.9 | 257.7 | 259.3 |
| 85 | MR | 369.6 | 365.9 | 387.5 | 410.6 | 424.4 | 416.8 | 421.8 | 436.2 | 454.6 | 438.9 | 395.1 | 389.3 | 233.7 | 232.4 |
| 86 | MR | 365.9 | 364.9 | 356.0 | 347.1 | 342.3 | 352.1 | 359.6 | 361.8 | 375.7 | 376.5 | 365.8 | 362.4 | 255.9 | 260.4 |
| 87 | MR | 326.8 | 329.5 | 327.1 | 321.4 | 324.1 | 337.4 | 371.3 | 387.3 | 402.6 | 402.1 | 364.1 | 341.1 | 235.8 | 239.8 |
| 88 | MR | 343.9 | 337.6 | 329.5 | 360.2 | 373.0 | 383.5 | 394.0 | 412.5 | 405.8 | 383.6 | 366.8 | 356.3 | 247.4 | 247.6 |
| 89 | MR | 330.4 | 327.3 | 327.2 | 332.8 | 342.9 | 360.7 | 402.8 | 418.6 | 423.7 | 418.2 | 377.0 | 353.2 | 253.1 | 252.0 |
| 90 | MR | 370.5 | 373.3 | 364.9 | 352.3 | 344.6 | 337.0 | 337.3 | 339.4 | 340.7 | 343.2 | 352.0 | 349.8 | 262.3 | 262.8 |
| 91 | MR | 336.8 | 330.4 | 334.2 | 347.4 | 360.3 | 375.3 | 385.6 | 401.7 | 402.8 | 406.6 | 381.9 | 356.3 | 236.3 | 234.5 |
| 92 | MR | 343.0 | 341.4 | 342.1 | 352.6 | 368.2 | 387.6 | 403.8 | 424.6 | 425.0 | 414.0 | 378.8 | 362.5 | 251.7 | 250.8 |
| 93 | MR | 308.2 | 299.5 | 303.4 | 309.4 | 318.3 | 324.8 | 345.4 | 357.0 | 356.8 | 357.5 | 349.7 | 335.4 | 245.2 | 245.1 |
| 94 | MR | 339.7 | 340.3 | 338.6 | 339.4 | 335.0 | 340.7 | 344.9 | 339.0 | 342.9 | 345.9 | 345.6 | 343.7 | 246.8 | 248.3 |
| 95 | MR | 356.7 | 357.7 | 348.6 | 344.6 | 343.0 | 352.8 | 367.8 | 371.5 | 384.4 | 382.9 | 363.8 | 356.6 | 255.7 | 260.3 |
| 96 | MR | 340.1 | 339.5 | 343.7 | 351.6 | 363.3 | 385.8 | 403.8 | 415.6 | 390.1 | 366.0 | 353.7 | 349.4 | 248.0 | 246.7 |
| 97 | MR | 359.0 | 340.4 | 352.2 | 371.2 | 383.3 | 399.2 | 408.3 | 422.3 | 417.2 | 388.4 | 372.5 | 365.8 | 247.6 | 248.1 |
| 98 | MR | 333.6 | 337.2 | 347.0 | 354.8 | 365.1 | 373.9 | 384.1 | 395.5 | 398.9 | 399.3 | 374.9 | 350.0 | 221.7 | 221.4 |
| 99 | MR | 321.1 | 314.8 | 323.0 | 334.0 | 343.2 | 354.7 | 373.6 | 377.7 | 376.3 | 373.5 | 368.7 | 348.0 | 244.4 | 244.4 |
| 100 | MR | 343.5 | 339.7 | 340.6 | 354.0 | 372.4 | 389.8 | 397.6 | 418.5 | 417.7 | 411.3 | 381.1 | 364.2 | 248.7 | 247.7 |
| 101 | MR | 349.8 | 346.4 | 348.8 | 358.9 | 371.6 | 390.7 | 409.6 | 430.0 | 432.4 | 425.4 | 389.2 | 368.6 | 251.9 | 250.7 |
| 102 | MR | 341.6 | 335.6 | 339.4 | 350.0 | 361.1 | 378.8 | 397.3 | 415.5 | 419.6 | 417.5 | 386.0 | 359.3 | 242.4 | 239.9 |
| 103 | MR | 336.6 | 335.1 | 330.9 | 352.2 | 368.7 | 383.3 | 393.0 | 413.4 | 401.0 | 380.3 | 362.4 | 353.0 | 244.6 | 245.4 |
| 104 | MR | 357.2 | 348.7 | 354.1 | 363.0 | 375.5 | 391.7 | 405.3 | 415.1 | 400.2 | 375.2 | 366.5 | 363.2 | 250.5 | 248.0 |
| 105 | MR | 337.8 | 340.2 | 349.4 | 357.0 | 366.2 | 376.7 | 386.5 | 397.3 | 401.0 | 404.6 | 379.7 | 354.7 | 224.8 | 224.2 |
| 106 | MR | 347.7 | 343.9 | 345.8 | 356.8 | 370.6 | 389.2 | 405.3 | 425.3 | 427.0 | 421.1 | 387.5 | 366.9 | 250.3 | 248.9 |
| 107 | MR | 341.0 | 336.6 | 330.3 | 356.7 | 370.6 | 383.8 | 395.3 | 413.3 | 402.7 | 380.0 | 363.4 | 354.1 | 247.8 | 247.3 |
| 108 | MR | 340.7 | 334.7 | 339.5 | 358.4 | 375.5 | 387.5 | 392.8 | 412.8 | 410.8 | 411.8 | 384.6 | 364.6 | 237.2 | 236.5 |
| 109 | MR | 344.1 | 336.5 | 330.8 | 359.6 | 373.2 | 383.7 | 392.6 | 411.7 | 406.3 | 385.1 | 368.7 | 357.3 | 243.6 | 244.8 |
| 110 | MR | 341.1 | 340.8 | 344.7 | 361.9 | 383.3 | 399.6 | 401.6 | 424.0 | 427.2 | 409.0 | 372.1 | 361.8 | 244.6 | 244.8 |
| 111 | MR | 348.8 | 337.7 | 338.8 | 350.1 | 361.3 | 369.5 | 374.8 | 391.5 | 388.0 | 377.5 | 369.2 | 356.1 | 240.4 | 236.8 |
| 112 | MR | 350.4 | 345.4 | 343.0 | 353.1 | 365.0 | 374.8 | 383.4 | 391.9 | 379.4 | 366.8 | 363.4 | 359.4 | 237.8 | 234.6 |
| 113 | MR | 294.6 | 284.2 | 284.9 | 296.9 | 314.0 | 332.5 | 364.6 | 371.6 | 367.7 | 364.3 | 346.4 | 322.4 | 235.6 | 231.6 |
| 114 | MR | 342.9 | 342.6 | 342.8 | 351.9 | 366.6 | 385.5 | 406.0 | 425.7 | 425.0 | 410.8 | 375.4 | 361.2 | 256.3 | 255.6 |
| 115 | MR | 350.6 | 345.7 | 344.2 | 353.5 | 366.0 | 377.8 | 388.0 | 396.3 | 382.4 | 367.0 | 362.9 | 359.5 | 241.6 | 238.6 |
| 116 | MR | 368.7 | 367.6 | 360.2 | 344.9 | 336.5 | 344.3 | 352.2 | 353.1 | 367.4 | 370.4 | 362.9 | 361.3 | 247.8 | 251.7 |
| 117 | MR | 346.4 | 339.0 | 341.1 | 352.5 | 364.8 | 374.1 | 382.0 | 394.1 | 385.9 | 376.0 | 366.5 | 354.5 | 244.1 | 241.1 |
| 118 | MR | 351.4 | 340.0 | 341.1 | 352.2 | 362.9 | 370.9 | 377.0 | 393.7 | 389.9 | 378.6 | 370.3 | 358.5 | 240.9 | 237.5 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 119 | MR | 328.4 | 324.4 | 325.2 | 332.3 | 343.6 | 361.7 | 403.0 | 419.4 | 423.0 | 416.5 | 375.4 | 352.1 | 252.6 | 250.8 |
| 120 | MR | 329.6 | 321.5 | 325.2 | 335.2 | 346.1 | 363.7 | 386.1 | 401.4 | 404.9 | 403.6 | 377.1 | 349.1 | 240.1 | 236.3 |
| 121 | MR | 339.1 | 341.6 | 350.7 | 357.5 | 366.2 | 375.8 | 386.1 | 397.6 | 401.4 | 404.3 | 381.4 | 355.7 | 229.0 | 228.5 |
| 122 | MR | 340.4 | 343.1 | 345.5 | 344.9 | 348.8 | 360.9 | 382.5 | 377.5 | 362.1 | 357.6 | 350.5 | 350.4 | 252.8 | 255.4 |
| 123 | MR | 347.3 | 347.5 | 352.5 | 370.4 | 391.5 | 406.6 | 408.0 | 430.8 | 434.2 | 416.7 | 377.7 | 366.7 | 246.6 | 246.7 |
| 124 | MR | 339.7 | 341.4 | 344.1 | 349.0 | 358.8 | 381.5 | 403.4 | 409.6 | 381.7 | 361.5 | 350.7 | 347.6 | 249.7 | 249.2 |
| 125 | MR | 348.9 | 349.0 | 355.6 | 376.1 | 396.0 | 407.1 | 409.8 | 432.2 | 432.6 | 411.3 | 374.5 | 366.0 | 239.4 | 241.2 |
| 126 | MR | 332.1 | 331.2 | 329.2 | 334.8 | 343.5 | 359.6 | 400.0 | 415.9 | 422.3 | 414.6 | 372.3 | 352.4 | 254.3 | 254.7 |
| 127 | MR | 341.0 | 334.0 | 329.0 | 356.0 | 371.0 | 381.0 | 388.0 | 408.0 | 404.0 | 386.0 | 369.0 | 357.0 | 238.0 | 241.0 |
| 128 | MR | 335.0 | 330.0 | 327.0 | 351.0 | 368.0 | 379.0 | 385.0 | 406.0 | 401.0 | 383.0 | 367.0 | 353.0 | 234.0 | 238.0 |
| 129 | MR | 336.5 | 334.6 | 327.8 | 352.9 | 368.9 | 381.5 | 390.9 | 411.5 | 401.4 | 381.4 | 363.7 | 352.9 | 243.7 | 244.9 |
| 130 | MR | 348.6 | 331.7 | 346.7 | 361.0 | 373.1 | 394.3 | 408.0 | 418.7 | 403.8 | 375.4 | 360.8 | 357.3 | 250.4 | 249.8 |
| 131 | MR | 338.0 | 332.0 | 326.0 | 353.0 | 369.0 | 379.0 | 386.0 | 407.0 | 402.0 | 384.0 | 367.0 | 355.0 | 238.0 | 240.0 |
| 132 | MR | 340.2 | 332.8 | 329.0 | 355.2 | 370.4 | 380.0 | 387.6 | 407.4 | 403.0 | 384.8 | 368.2 | 356.0 | 236.6 | 239.4 |
| 133 | MR | 340.0 | 333.0 | 329.0 | 356.0 | 370.0 | 380.0 | 388.0 | 408.0 | 403.0 | 385.0 | 368.0 | 356.0 | 239.0 | 241.0 |
| 134 | MR | 355.0 | 332.3 | 354.0 | 366.0 | 377.7 | 399.7 | 412.7 | 421.0 | 409.3 | 378.0 | 364.7 | 362.0 | 251.3 | 249.7 |
| 135 | MR | 343.0 | 334.0 | 332.0 | 358.0 | 372.0 | 382.0 | 389.0 | 409.0 | 405.0 | 386.0 | 371.0 | 358.0 | 238.0 | 240.0 |
| 136 | MR | 311.0 | 302.7 | 308.8 | 312.3 | 320.0 | 327.2 | 346.8 | 358.0 | 358.4 | 360.1 | 353.0 | 336.6 | 245.0 | 244.8 |
| 137 | MR | 334.9 | 329.1 | 333.7 | 348.4 | 361.7 | 375.5 | 382.4 | 396.6 | 397.1 | 403.4 | 380.8 | 355.0 | 233.1 | 231.8 |
| 138 | MR | 339.6 | 337.9 | 339.9 | 361.7 | 380.9 | 392.2 | 396.7 | 418.8 | 415.5 | 396.2 | 368.5 | 358.2 | 237.4 | 239.9 |
| 139 | MR | 343.5 | 344.0 | 344.1 | 352.4 | 364.9 | 383.4 | 409.4 | 428.5 | 428.5 | 414.0 | 376.0 | 361.0 | 257.8 | 257.5 |
| 140 | MR | 292.1 | 281.5 | 280.8 | 292.5 | 309.1 | 324.6 | 355.5 | 360.5 | 355.1 | 351.9 | 338.1 | 319.9 | 234.8 | 232.5 |
| 141 | MR | 338.3 | 341.3 | 335.6 | 341.6 | 348.8 | 362.3 | 394.5 | 404.3 | 403.8 | 388.3 | 357.6 | 350.8 | 260.6 | 262.1 |
| 142 | MR | 350.3 | 350.9 | 358.5 | 378.5 | 398.8 | 410.6 | 412.5 | 435.1 | 437.4 | 416.6 | 376.0 | 367.5 | 240.3 | 241.8 |
| 143 | MR | 337.1 | 338.3 | 340.8 | 347.6 | 360.5 | 383.8 | 401.7 | 411.1 | 386.5 | 366.1 | 352.4 | 348.4 | 248.2 | 247.9 |
| 144 | MR | 329.2 | 329.0 | 327.6 | 328.1 | 334.3 | 350.3 | 390.2 | 406.0 | 416.0 | 413.0 | 372.3 | 347.9 | 244.6 | 245.9 |
| 145 | MR | 321.0 | 327.2 | 334.1 | 329.3 | 326.4 | 332.9 | 347.9 | 364.5 | 369.1 | 371.4 | 363.3 | 340.7 | 244.0 | 245.7 |
| 146 | MR | 359.1 | 361.1 | 362.0 | 361.9 | 343.6 | 346.0 | 365.7 | 372.1 | 385.7 | 380.9 | 377.0 | 363.4 | 248.3 | 245.7 |
| 147 | MR | 347.0 | 354.0 | 359.4 | 359.4 | 331.4 | 327.8 | 341.8 | 341.0 | 355.1 | 356.0 | 354.6 | 350.4 | 250.8 | 245.8 |
| 148 | MR | 350.8 | 355.8 | 359.4 | 359.8 | 333.0 | 331.4 | 347.4 | 347.4 | 361.6 | 360.8 | 360.4 | 354.6 | 253.0 | 247.6 |
| 149 | MR | 380.0 | 394.6 | 397.8 | 379.9 | 345.2 | 337.4 | 342.6 | 345.4 | 357.8 | 368.7 | 370.2 | 369.8 | 252.2 | 257.9 |
| 150 | MR | 331.7 | 335.5 | 335.7 | 327.2 | 306.8 | 307.5 | 324.9 | 326.8 | 341.6 | 342.7 | 336.7 | 329.7 | 220.9 | 218.8 |
| 151 | MR | 351.5 | 360.8 | 362.8 | 364.6 | 333.4 | 333.1 | 343.9 | 345.4 | 357.3 | 359.9 | 358.5 | 353.5 | 248.9 | 247.4 |
| 152 | MR | 347.8 | 357.1 | 358.9 | 351.9 | 326.4 | 325.7 | 337.5 | 338.4 | 348.0 | 356.2 | 352.9 | 345.2 | 236.9 | 237.3 |
| 153 | MR | 348.5 | 349.5 | 351.1 | 352.0 | 336.3 | 337.7 | 356.6 | 364.4 | 375.2 | 370.5 | 365.7 | 352.6 | 246.0 | 244.0 |
| 154 | MR | 352.2 | 359.9 | 361.8 | 360.3 | 332.3 | 329.6 | 344.2 | 344.4 | 356.2 | 359.0 | 357.2 | 352.9 | 253.6 | 249.3 |
| 155 | MR | 370.6 | 381.9 | 379.7 | 360.1 | 338.9 | 331.5 | 337.8 | 338.9 | 350.1 | 358.2 | 359.0 | 359.6 | 238.7 | 243.6 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 156 | MR | 319.0 | 325.0 | 329.0 | 330.0 | 323.0 | 335.0 | 346.0 | 360.0 | 363.0 | 366.0 | 356.0 | 336.0 | 258.0 | 258.0 |
| 157 | MR | 390.0 | 401.0 | 398.0 | 377.0 | 356.0 | 349.0 | 355.0 | 357.0 | 368.0 | 375.0 | 377.0 | 378.0 | 258.0 | 264.0 |
| 158 | MR | 379.0 | 367.0 | 357.3 | 348.5 | 320.3 | 299.5 | 311.8 | 339.0 | 364.3 | 369.5 | 374.5 | 380.3 | 245.8 | 240.5 |
| 159 | MR | 342.7 | 349.7 | 347.4 | 336.4 | 319.3 | 319.1 | 330.7 | 330.2 | 340.6 | 345.6 | 342.5 | 338.2 | 227.1 | 226.8 |
| 160 | MR | 342.0 | 348.2 | 349.4 | 340.4 | 340.8 | 346.4 | 360.2 | 371.8 | 378.2 | 375.2 | 369.2 | 354.2 | 256.8 | 258.2 |
| 161 | MR | 330.2 | 335.6 | 337.6 | 331.8 | 329.4 | 335.2 | 348.0 | 360.6 | 367.0 | 368.0 | 360.6 | 343.6 | 253.6 | 253.0 |
| 162 | MR | 327.7 | 331.0 | 333.3 | 329.7 | 328.2 | 334.0 | 346.3 | 359.0 | 366.8 | 368.2 | 359.3 | 340.7 | 252.7 | 250.5 |
| 163 | MR | 326.3 | 333.8 | 335.5 | 323.5 | 322.3 | 329.8 | 346.3 | 362.5 | 370.6 | 373.5 | 365.1 | 344.6 | 242.6 | 243.5 |
| 164 | MR | 336.0 | 326.8 | 331.9 | 343.2 | 349.9 | 351.8 | 354.6 | 375.3 | 369.2 | 361.9 | 350.7 | 339.6 | 239.1 | 236.1 |
| 165 | MR | 347.6 | 346.8 | 349.1 | 357.8 | 369.4 | 389.5 | 413.8 | 434.3 | 437.0 | 426.2 | 385.0 | 366.5 | 253.0 | 252.1 |
| 166 | MR | 364.3 | 353.0 | 342.2 | 336.9 | 319.4 | 304.1 | 310.6 | 329.2 | 349.8 | 354.8 | 360.9 | 365.7 | 222.2 | 215.6 |
| 167 | MR | 343.4 | 346.0 | 341.2 | 347.4 | 353.8 | 369.1 | 396.4 | 400.5 | 395.6 | 380.8 | 357.9 | 354.0 | 262.5 | 263.8 |
| 168 | MR | 343.2 | 330.7 | 333.0 | 331.3 | 325.4 | 312.2 | 309.0 | 334.1 | 353.7 | 345.3 | 341.0 | 336.0 | 236.1 | 233.0 |
| 169 | MR | 313.3 | 312.4 | 317.5 | 314.2 | 316.2 | 322.8 | 343.1 | 358.2 | 359.7 | 363.5 | 356.5 | 336.9 | 235.7 | 238.4 |
| 170 | MR | 337.3 | 335.3 | 335.1 | 356.6 | 375.9 | 388.4 | 393.4 | 415.0 | 410.2 | 391.7 | 366.5 | 356.3 | 239.8 | 241.4 |
| 171 | MR | 324.4 | 328.2 | 326.7 | 314.8 | 296.0 | 297.6 | 314.8 | 317.0 | 331.6 | 334.3 | 326.6 | 319.9 | 207.9 | 207.1 |
| 172 | MR | 350.0 | 336.2 | 327.8 | 327.5 | 316.7 | 307.8 | 310.0 | 328.3 | 348.7 | 354.7 | 354.7 | 352.6 | 195.2 | 192.4 |
| 173 | MR | 237.4 | 234.4 | 235.7 | 237.4 | 235.1 | 234.4 | 232.4 | 230.9 | 236.7 | 246.2 | 248.2 | 242.7 | 125.4 | 126.6 |
| 174 | MR | 346.8 | 342.1 | 343.8 | 343.1 | 347.3 | 351.2 | 357.6 | 365.4 | 359.6 | 355.6 | 353.9 | 349.7 | 214.9 | 212.0 |
| 175 | MR | 309.6 | 305.4 | 310.7 | 309.2 | 314.0 | 321.1 | 342.2 | 356.0 | 355.6 | 358.9 | 351.5 | 333.4 | 235.1 | 237.1 |
| 176 | MR | 319.9 | 314.7 | 323.9 | 322.2 | 324.4 | 332.2 | 346.5 | 357.5 | 361.4 | 366.2 | 360.1 | 339.9 | 248.0 | 248.0 |
| 177 | MR | 342.7 | 336.9 | 339.7 | 351.9 | 365.2 | 381.8 | 395.0 | 413.4 | 414.9 | 414.5 | 385.7 | 362.1 | 243.1 | 241.1 |
| 178 | MR | 349.7 | 345.5 | 341.1 | 336.8 | 339.5 | 334.4 | 330.5 | 337.8 | 344.7 | 339.4 | 349.6 | 342.1 | 251.5 | 249.4 |
| 179 | MR | 302.1 | 304.4 | 296.8 | 300.3 | 296.9 | 290.9 | 287.6 | 288.7 | 297.5 | 307.2 | 315.4 | 313.5 | 192.1 | 190.7 |
| 180 | MR | 346.8 | 348.2 | 344.6 | 348.0 | 349.6 | 365.2 | 388.2 | 384.6 | 376.0 | 367.3 | 355.1 | 352.5 | 256.4 | 257.3 |
| 181 | MR | 349.5 | 349.5 | 355.7 | 374.5 | 395.3 | 408.6 | 410.3 | 433.0 | 435.7 | 418.4 | 378.6 | 368.0 | 244.7 | 244.9 |
| 182 | MR | 314.3 | 317.5 | 319.0 | 311.3 | 311.8 | 318.2 | 331.5 | 344.8 | 358.6 | 349.2 | 335.7 | 319.7 | 227.2 | 230.1 |
| 183 | MR | 230.9 | 227.6 | 224.7 | 225.8 | 221.4 | 213.2 | 208.3 | 209.3 | 222.1 | 236.3 | 242.1 | 236.7 | 119.8 | 120.9 |
| 184 | MR | 329.7 | 316.3 | 318.2 | 316.4 | 307.5 | 295.1 | 295.1 | 319.7 | 341.0 | 334.8 | 327.2 | 325.4 | 214.9 | 213.0 |
| 185 | MR | 314.7 | 305.8 | 311.4 | 323.2 | 323.1 | 313.6 | 309.9 | 334.6 | 329.8 | 332.0 | 322.0 | 313.5 | 218.4 | 216.8 |
| 186 | MR | 355.0 | 341.8 | 354.6 | 365.5 | 377.4 | 397.4 | 411.6 | 422.2 | 407.2 | 377.3 | 364.5 | 360.6 | 250.8 | 249.1 |
| 187 | MR | 304.3 | 295.5 | 297.3 | 300.5 | 310.2 | 317.9 | 342.5 | 353.2 | 350.6 | 352.2 | 343.1 | 329.5 | 236.5 | 237.1 |
| 188 | MR | 290.7 | 293.3 | 294.4 | 281.7 | 273.5 | 278.2 | 291.8 | 301.7 | 319.4 | 315.8 | 302.7 | 290.9 | 185.2 | 187.3 |
| 189 | MR | 334.6 | 334.9 | 336.7 | 343.9 | 359.9 | 383.0 | 397.4 | 405.0 | 385.5 | 367.9 | 352.9 | 349.0 | 249.6 | 248.4 |
| 190 | MR | 275.7 | 273.6 | 271.6 | 270.3 | 273.7 | 274.4 | 274.3 | 269.0 | 271.2 | 275.7 | 275.1 | 273.5 | 176.9 | 178.7 |
| 191 | MR | 340.1 | 341.1 | 335.4 | 339.1 | 338.3 | 333.1 | 340.4 | 344.4 | 340.0 | 340.5 | 340.7 | 344.8 | 244.6 | 244.0 |
| 192 | MR | 347.8 | 350.1 | 344.1 | 350.5 | 342.8 | 333.2 | 345.1 | 346.8 | 340.1 | 336.0 | 344.6 | 351.2 | 251.2 | 248.2 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | MR | 231.0 | 228.7 | 231.0 | 232.3 | 235.4 | 237.1 | 234.0 | 228.4 | 228.7 | 233.9 | 233.6 | 229.7 | 132.9 | 136.2 |
| 194 | MR | 278.0 | 276.2 | 271.5 | 269.7 | 274.8 | 276.2 | 274.9 | 274.0 | 271.1 | 272.0 | 271.4 | 271.4 | 190.8 | 191.1 |
| 195 | MR | 223.5 | 221.0 | 219.0 | 221.0 | 224.0 | 221.5 | 215.0 | 210.5 | 213.5 | 223.0 | 224.5 | 221.0 | 124.0 | 128.0 |
| 196 | MR | 345.9 | 340.9 | 336.0 | 331.7 | 335.4 | 330.1 | 325.3 | 331.0 | 336.0 | 338.4 | 345.0 | 340.3 | 248.5 | 247.2 |
| 197 | MR | 336.0 | 337.2 | 334.1 | 336.7 | 331.6 | 325.6 | 334.1 | 336.6 | 333.8 | 332.0 | 337.1 | 341.5 | 245.5 | 243.9 |
| 198 | MR | 279.5 | 277.3 | 276.6 | 275.7 | 277.6 | 279.5 | 280.1 | 275.8 | 276.6 | 281.2 | 281.0 | 278.2 | 178.1 | 179.6 |
| 199 | MR | 359.8 | 358.7 | 351.6 | 348.6 | 344.6 | 332.4 | 336.8 | 339.0 | 334.0 | 334.1 | 346.1 | 350.1 | 257.8 | 254.0 |
| 200 | MR | 356.2 | 354.2 | 349.1 | 336.7 | 337.4 | 332.5 | 332.0 | 333.9 | 332.8 | 336.9 | 340.8 | 339.5 | 249.1 | 247.8 |
| 201 | MR | 189.8 | 189.1 | 184.9 | 183.5 | 186.5 | 183.1 | 179.7 | 175.3 | 175.8 | 182.5 | 186.8 | 185.7 | 96.3 | 97.5 |
| 202 | MR | 352.2 | 349.2 | 346.1 | 336.5 | 337.5 | 336.0 | 336.9 | 339.2 | 336.8 | 338.5 | 342.3 | 340.8 | 243.3 | 243.3 |
| 203 | MR | 342.0 | 343.5 | 340.5 | 341.5 | 332.5 | 326.7 | 334.2 | 336.7 | 335.2 | 331.5 | 340.6 | 343.0 | 249.0 | 246.8 |
| 204 | MR | 378.3 | 361.6 | 362.3 | 381.1 | 369.1 | 369.9 | 365.8 | 398.2 | 414.3 | 403.1 | 383.4 | 384.0 | 242.9 | 236.3 |
| 205 | MR | 255.5 | 247.6 | 252.0 | 270.0 | 277.0 | 271.8 | 270.0 | 289.7 | 277.2 | 278.4 | 272.2 | 260.7 | 144.5 | 141.1 |
| 206 | MR | 377.4 | 358.9 | 365.2 | 384.3 | 392.8 | 400.1 | 398.2 | 427.0 | 427.0 | 407.8 | 390.8 | 383.4 | 232.3 | 234.4 |
| 207 | MR | 330.8 | 334.1 | 331.6 | 325.8 | 321.2 | 324.4 | 327.9 | 322.7 | 329.0 | 333.2 | 333.6 | 331.9 | 228.2 | 228.3 |
| 208 | MR | 340.5 | 342.1 | 342.2 | 341.8 | 336.8 | 338.8 | 343.6 | 340.5 | 341.6 | 342.5 | 345.5 | 343.9 | 249.6 | 250.8 |
| 209 | MR | 245.5 | 242.6 | 241.7 | 243.8 | 242.3 | 239.7 | 234.8 | 232.7 | 241.8 | 249.0 | 255.7 | 253.7 | 136.9 | 136.4 |
| 210 | MR | 275.7 | 271.0 | 272.3 | 272.7 | 272.5 | 276.8 | 282.9 | 281.2 | 279.7 | 279.0 | 283.9 | 283.3 | 143.3 | 142.4 |
| 211 | MR | 341.2 | 336.7 | 341.4 | 360.9 | 379.8 | 391.8 | 395.5 | 416.9 | 414.8 | 411.0 | 381.1 | 364.0 | 238.5 | 238.1 |
| 212 | MR | 234.2 | 231.0 | 227.4 | 228.0 | 227.1 | 221.6 | 217.7 | 218.8 | 229.0 | 238.2 | 243.2 | 240.5 | 123.5 | 125.4 |
| 213 | MR | 403.5 | 381.5 | 385.9 | 405.2 | 410.2 | 416.7 | 408.2 | 444.0 | 451.1 | 431.2 | 410.0 | 403.1 | 250.9 | 249.7 |
| 214 | MR | 357.2 | 357.8 | 349.4 | 345.0 | 340.8 | 350.2 | 357.6 | 356.1 | 365.8 | 367.1 | 359.1 | 356.3 | 251.1 | 254.5 |
| 215 | MR | 355.1 | 347.9 | 349.1 | 353.0 | 363.7 | 372.9 | 384.0 | 395.2 | 384.3 | 370.6 | 359.0 | 357.4 | 246.7 | 244.7 |
| 216 | MR | 330.4 | 327.2 | 332.8 | 343.8 | 354.4 | 367.4 | 374.1 | 383.3 | 385.7 | 393.9 | 374.7 | 347.8 | 226.5 | 225.3 |
| 217 | MR | 337.8 | 339.4 | 339.7 | 338.4 | 333.9 | 335.0 | 338.0 | 334.3 | 337.2 | 339.2 | 342.6 | 339.7 | 237.3 | 238.2 |
| 218 | MR | 275.3 | 272.2 | 272.5 | 272.6 | 271.5 | 269.2 | 268.1 | 268.8 | 276.2 | 284.5 | 286.1 | 281.7 | 160.0 | 161.6 |
| 219 | MR | 328.5 | 326.0 | 326.0 | 333.5 | 334.5 | 337.0 | 343.5 | 354.0 | 343.0 | 338.0 | 336.5 | 335.0 | 195.0 | 192.5 |
| 220 | MR | 221.7 | 203.8 | 212.8 | 213.8 | 217.3 | 209.7 | 210.8 | 226.3 | 232.5 | 244.4 | 233.5 | 225.0 | 65.2 | 61.4 |
| 221 | MR | 362.0 | 362.0 | 353.0 | 346.6 | 343.4 | 352.7 | 363.2 | 365.6 | 379.4 | 379.1 | 365.6 | 360.0 | 256.3 | 260.9 |
| 222 | MR | 298.6 | 286.0 | 288.2 | 291.4 | 283.2 | 272.3 | 276.1 | 291.2 | 298.5 | 302.3 | 303.1 | 297.7 | 157.6 | 156.1 |
| 223 | MR | 385.2 | 368.4 | 365.9 | 367.4 | 357.8 | 346.0 | 349.4 | 373.7 | 399.6 | 391.8 | 384.4 | 382.1 | 258.7 | 258.8 |
| 224 | MR | 218.6 | 213.7 | 216.1 | 215.3 | 216.8 | 220.9 | 214.8 | 211.5 | 217.2 | 220.5 | 226.6 | 224.2 | 107.1 | 108.4 |
| 225 | MR | 292.9 | 287.4 | 287.7 | 298.3 | 301.8 | 303.7 | 310.5 | 324.3 | 312.6 | 304.5 | 300.5 | 294.9 | 165.8 | 164.0 |
| 226 | MR | 385.0 | 393.9 | 389.2 | 372.1 | 359.3 | 354.4 | 360.0 | 359.4 | 368.3 | 372.8 | 376.0 | 375.4 | 254.8 | 259.5 |
| 227 | MR | 337.7 | 336.1 | 332.2 | 330.5 | 330.2 | 327.1 | 327.5 | 332.8 | 338.1 | 341.4 | 342.7 | 340.9 | 238.4 | 236.9 |
| 228 | MR | 345.5 | 335.4 | 337.5 | 348.8 | 360.6 | 368.6 | 373.6 | 389.8 | 385.5 | 376.5 | 367.1 | 353.1 | 241.7 | 238.0 |
| 229 | MR | 390.5 | 373.9 | 375.6 | 394.8 | 389.3 | 389.3 | 381.9 | 417.1 | 425.9 | 413.0 | 395.4 | 396.6 | 243.1 | 238.8 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 230 | MR | 349.4 | 346.0 | 360.2 | 388.5 | 406.3 | 410.7 | 415.9 | 440.3 | 442.1 | 433.3 | 391.7 | 376.4 | 232.1 | 233.0 |
| 231 | MR | 378.9 | 359.6 | 368.1 | 386.4 | 397.2 | 406.9 | 409.7 | 431.0 | 435.7 | 409.4 | 388.3 | 380.5 | 243.4 | 245.0 |
| 232 | MR | 340.5 | 339.2 | 342.3 | 364.0 | 383.3 | 394.8 | 398.6 | 420.8 | 418.1 | 398.5 | 368.8 | 358.9 | 235.6 | 238.6 |
| 233 | MR | 357.8 | 358.7 | 369.2 | 390.4 | 409.7 | 418.7 | 421.1 | 443.3 | 445.3 | 422.5 | 379.7 | 372.5 | 238.7 | 240.9 |
| 234 | MR | 336.0 | 333.4 | 335.4 | 344.0 | 363.3 | 383.9 | 395.7 | 404.4 | 393.9 | 377.5 | 358.6 | 354.9 | 255.5 | 252.0 |
| 235 | MR | 307.0 | 293.3 | 294.7 | 307.7 | 324.0 | 341.3 | 364.0 | 370.3 | 367.7 | 367.3 | 358.7 | 334.0 | 250.0 | 242.3 |
| 236 | MR | 345.1 | 347.4 | 341.6 | 347.3 | 350.9 | 365.7 | 391.2 | 391.9 | 386.8 | 375.1 | 356.8 | 352.4 | 259.1 | 260.5 |
| 237 | MR | 340.4 | 343.3 | 339.0 | 345.1 | 353.0 | 368.6 | 397.6 | 404.2 | 399.4 | 382.6 | 356.9 | 352.8 | 262.2 | 263.1 |
| 238 | MR | 344.7 | 345.5 | 341.0 | 338.8 | 333.9 | 341.3 | 345.5 | 340.3 | 347.5 | 351.1 | 348.4 | 346.3 | 245.1 | 247.0 |
| 239 | MR | 322.5 | 324.5 | 333.4 | 342.5 | 352.6 | 355.6 | 363.5 | 371.4 | 371.8 | 367.3 | 358.5 | 339.5 | 233.2 | 233.1 |
| 240 | MR | 410.4 | 387.9 | 389.9 | 410.1 | 410.9 | 419.0 | 400.1 | 445.7 | 451.1 | 435.0 | 415.1 | 410.4 | 251.9 | 248.9 |
| 241 | MR | 350.5 | 350.9 | 358.2 | 377.6 | 398.3 | 410.8 | 412.2 | 434.9 | 437.8 | 418.5 | 377.6 | 368.0 | 241.9 | 243.0 |
| 242 | MR | 339.0 | 341.0 | 338.0 | 345.0 | 355.0 | 370.0 | 401.0 | 410.0 | 405.0 | 386.0 | 357.0 | 352.0 | 263.0 | 264.0 |
| 243 | MR | 337.6 | 334.9 | 335.5 | 358.0 | 376.9 | 388.0 | 392.8 | 414.8 | 410.5 | 392.1 | 367.4 | 356.3 | 236.0 | 238.3 |
| 244 | MR | 348.3 | 346.3 | 355.0 | 360.3 | 357.8 | 361.5 | 377.3 | 383.8 | 386.8 | 384.8 | 378.8 | 368.0 | 253.5 | 254.8 |
| 245 | MR | 370.8 | 362.6 | 369.1 | 393.1 | 417.0 | 420.7 | 423.1 | 446.8 | 454.0 | 454.4 | 416.9 | 401.7 | 238.4 | 240.3 |
| 246 | MR | 354.5 | 340.0 | 342.0 | 340.5 | 331.5 | 318.5 | 318.5 | 344.0 | 367.5 | 360.0 | 349.0 | 347.0 | 238.0 | 235.0 |
| 247 | MR | 389.4 | 373.3 | 370.7 | 382.9 | 380.1 | 384.0 | 372.3 | 403.7 | 428.4 | 409.1 | 390.6 | 388.5 | 264.6 | 260.5 |
| 248 | MR | 384.5 | 364.5 | 366.1 | 371.8 | 363.8 | 351.0 | 348.3 | 379.5 | 407.1 | 397.2 | 384.4 | 378.8 | 260.2 | 259.7 |
| 249 | MR | 303.8 | 294.8 | 296.5 | 306.0 | 317.0 | 324.3 | 347.5 | 356.0 | 353.8 | 352.0 | 345.0 | 332.0 | 245.5 | 245.3 |
| 250 | MR | 349.5 | 335.8 | 333.8 | 334.3 | 319.9 | 301.5 | 304.9 | 329.9 | 349.4 | 350.0 | 349.8 | 345.8 | 215.2 | 213.4 |
| 251 | MR | 405.7 | 386.1 | 385.0 | 404.5 | 400.8 | 408.6 | 386.2 | 433.0 | 441.9 | 427.1 | 408.5 | 406.7 | 253.5 | 249.6 |
| 252 | MR | 375.0 | 374.0 | 394.8 | 420.5 | 434.8 | 431.5 | 439.3 | 453.3 | 477.3 | 444.5 | 397.8 | 396.0 | 233.0 | 233.0 |
| 253 | MR | 338.0 | 343.0 | 352.0 | 361.0 | 373.0 | 380.0 | 389.0 | 400.0 | 402.0 | 400.0 | 378.0 | 354.0 | 231.0 | 230.0 |
| 254 | MR | 193.2 | 188.4 | 185.0 | 185.8 | 191.6 | 188.6 | 182.8 | 177.6 | 178.4 | 187.6 | 190.8 | 190.2 | 104.8 | 107.2 |
| 255 | MR | 250.0 | 248.3 | 247.3 | 247.3 | 251.7 | 252.3 | 250.0 | 244.0 | 246.0 | 250.3 | 249.7 | 248.3 | 152.7 | 156.3 |
| 256 | MR | 317.4 | 319.8 | 327.4 | 325.2 | 322.0 | 330.8 | 343.2 | 357.3 | 360.0 | 362.8 | 356.0 | 335.2 | 248.1 | 248.2 |
| 257 | MR | 208.5 | 205.0 | 200.5 | 203.5 | 211.5 | 212.5 | 208.0 | 203.0 | 201.0 | 205.0 | 206.5 | 207.5 | 139.0 | 140.5 |
| 258 | MR | 369.0 | 370.0 | 362.0 | 351.0 | 350.0 | 343.0 | 343.0 | 346.0 | 344.0 | 348.0 | 352.0 | 351.0 | 252.0 | 252.0 |
| 259 | MR | 375.0 | 376.0 | 368.0 | 353.5 | 352.5 | 344.5 | 344.0 | 345.0 | 346.5 | 352.5 | 355.5 | 354.5 | 262.5 | 261.5 |
| 260 | MR | 351.5 | 356.9 | 352.9 | 340.7 | 322.9 | 325.3 | 338.1 | 338.7 | 351.3 | 356.3 | 350.1 | 344.9 | 233.7 | 234.5 |
| 261 | MR | 324.5 | 329.0 | 334.0 | 332.8 | 331.3 | 338.0 | 350.5 | 363.5 | 368.0 | 368.0 | 359.3 | 340.0 | 252.5 | 251.8 |
| 262 | MR | 337.9 | 340.1 | 342.0 | 339.7 | 337.0 | 346.0 | 361.0 | 356.6 | 348.9 | 346.0 | 345.1 | 347.1 | 246.8 | 247.7 |
| 263 | MR | 317.8 | 319.0 | 326.8 | 325.0 | 320.8 | 331.0 | 343.5 | 356.0 | 359.3 | 363.0 | 356.0 | 335.3 | 250.8 | 250.3 |
| 264 | MR | 333.9 | 328.5 | 332.2 | 335.3 | 337.0 | 337.7 | 343.3 | 350.4 | 355.5 | 359.9 | 359.9 | 345.8 | 260.1 | 259.1 |
| 265 | MR | 347.5 | 349.0 | 348.6 | 348.4 | 346.6 | 361.0 | 382.7 | 376.0 | 364.8 | 358.5 | 352.7 | 353.6 | 254.0 | 254.8 |
| 266 | MR | 351.1 | 351.4 | 358.5 | 378.7 | 398.6 | 410.4 | 412.5 | 435.0 | 436.5 | 415.1 | 376.6 | 368.3 | 242.0 | 243.4 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 267 | MR | 348.3 | 348.1 | 352.2 | 369.5 | 390.8 | 406.5 | 407.8 | 430.8 | 433.4 | 417.5 | 379.6 | 367.9 | 249.6 | 249.4 |
| 268 | MR | 339.7 | 340.2 | 339.3 | 346.7 | 359.9 | 376.9 | 401.5 | 418.0 | 413.7 | 397.8 | 366.5 | 355.6 | 259.9 | 259.6 |
| 269 | MR | 337.1 | 337.7 | 332.8 | 339.9 | 348.5 | 347.6 | 351.8 | 356.9 | 346.2 | 343.5 | 343.2 | 343.2 | 240.5 | 239.8 |
| 270 | MR | 338.2 | 335.5 | 337.0 | 348.9 | 369.5 | 388.6 | 396.5 | 413.0 | 409.0 | 392.5 | 365.9 | 359.1 | 255.0 | 252.2 |
| 271 | MR | 337.3 | 335.6 | 336.7 | 345.2 | 363.7 | 383.4 | 397.9 | 408.3 | 400.1 | 382.9 | 360.5 | 355.9 | 257.9 | 255.0 |
| 272 | MR | 293.1 | 282.2 | 282.4 | 294.5 | 309.4 | 320.1 | 346.4 | 350.4 | 344.1 | 340.9 | 334.0 | 322.1 | 238.7 | 237.5 |
| 273 | MR | 340.3 | 343.1 | 340.0 | 345.7 | 355.0 | 371.7 | 398.5 | 403.0 | 396.3 | 379.6 | 356.6 | 353.0 | 261.7 | 262.4 |
| 274 | MR | 339.7 | 342.5 | 339.0 | 346.2 | 355.3 | 371.3 | 400.7 | 407.7 | 402.3 | 383.7 | 357.0 | 352.8 | 263.0 | 264.3 |
| 275 | MR | 336.2 | 337.9 | 333.9 | 341.0 | 349.7 | 364.4 | 398.5 | 412.9 | 415.5 | 401.7 | 364.6 | 352.6 | 259.8 | 261.3 |
| 276 | MR | 335.5 | 334.1 | 335.7 | 343.5 | 361.1 | 382.7 | 396.2 | 402.6 | 390.0 | 373.6 | 356.3 | 353.1 | 254.7 | 252.1 |
| 277 | MR | 318.2 | 313.9 | 321.8 | 332.7 | 340.9 | 350.9 | 373.2 | 377.6 | 376.8 | 370.0 | 362.5 | 348.0 | 251.2 | 251.8 |
| 278 | MR | 337.0 | 339.2 | 341.1 | 338.8 | 336.1 | 344.4 | 358.7 | 354.8 | 347.6 | 344.9 | 344.2 | 346.2 | 246.4 | 247.3 |
| 279 | MR | 334.9 | 336.2 | 337.7 | 342.9 | 356.6 | 380.7 | 397.5 | 399.0 | 382.2 | 366.9 | 352.9 | 348.9 | 252.7 | 251.9 |
| 280 | MR | 335.0 | 332.3 | 334.6 | 343.4 | 362.2 | 383.7 | 394.4 | 402.7 | 389.1 | 373.0 | 356.1 | 353.0 | 252.1 | 249.6 |
| 281 | MR | 337.5 | 335.6 | 336.6 | 345.8 | 364.7 | 384.3 | 397.6 | 409.5 | 402.1 | 385.1 | 361.8 | 356.8 | 257.6 | 254.6 |
| 282 | MR | 333.4 | 335.6 | 333.2 | 337.1 | 348.6 | 351.6 | 359.7 | 364.8 | 351.3 | 344.7 | 342.7 | 341.2 | 244.9 | 245.8 |
| 283 | MR | 275.4 | 273.2 | 271.1 | 274.5 | 273.0 | 271.1 | 263.2 | 262.2 | 271.4 | 279.3 | 287.4 | 284.9 | 160.5 | 159.6 |
| 284 | MR | 363.1 | 363.4 | 354.3 | 348.6 | 344.7 | 354.4 | 362.9 | 363.6 | 375.7 | 375.9 | 364.9 | 361.4 | 256.5 | 260.4 |
| 285 | MR | 329.7 | 331.9 | 332.4 | 330.5 | 330.9 | 331.1 | 337.0 | 339.7 | 337.0 | 336.5 | 335.9 | 338.8 | 243.5 | 243.6 |
| 286 | MR | 363.0 | 349.0 | 363.0 | 382.5 | 401.5 | 410.5 | 416.5 | 439.5 | 445.0 | 422.5 | 380.5 | 378.5 | 220.5 | 220.5 |
| 287 | MR | 338.9 | 341.6 | 333.9 | 338.4 | 342.6 | 354.8 | 387.4 | 398.6 | 405.0 | 393.9 | 359.9 | 350.1 | 256.8 | 259.7 |
| 288 | MR | 389.5 | 376.5 | 367.0 | 370.8 | 356.0 | 349.5 | 351.3 | 376.0 | 403.0 | 394.5 | 387.8 | 390.0 | 266.8 | 266.5 |
| 289 | MR | 335.2 | 337.8 | 338.8 | 344.0 | 356.6 | 382.3 | 399.8 | 402.2 | 381.0 | 365.1 | 351.2 | 347.2 | 250.8 | 251.0 |
| 290 | MR | 340.5 | 338.2 | 341.2 | 363.1 | 382.3 | 392.9 | 397.2 | 419.1 | 416.0 | 396.9 | 369.1 | 358.7 | 234.7 | 237.9 |
| 291 | MR | 288.7 | 277.8 | 278.7 | 293.1 | 310.3 | 324.5 | 350.3 | 351.7 | 344.2 | 339.4 | 334.2 | 318.4 | 237.3 | 235.5 |
| 292 | MR | 342.5 | 344.8 | 353.6 | 360.3 | 368.7 | 377.6 | 388.1 | 399.9 | 403.7 | 406.3 | 384.8 | 358.5 | 234.2 | 233.6 |
| 293 | MR | 324.1 | 317.8 | 324.3 | 327.6 | 331.6 | 336.5 | 349.2 | 363.7 | 370.1 | 373.5 | 365.9 | 348.6 | 257.3 | 256.7 |
| 294 | MR | 340.0 | 339.1 | 339.4 | 350.4 | 368.1 | 387.4 | 400.2 | 420.7 | 421.0 | 407.6 | 373.8 | 360.1 | 253.6 | 252.3 |
| 295 | MR | 329.8 | 324.2 | 329.2 | 341.6 | 353.1 | 366.3 | 374.1 | 385.8 | 387.7 | 394.6 | 376.1 | 348.1 | 230.2 | 228.8 |
| 296 | MR | 375.0 | 374.3 | 367.6 | 350.0 | 340.4 | 347.7 | 356.0 | 358.6 | 374.0 | 376.9 | 368.3 | 366.4 | 251.9 | 255.9 |
| 297 | MR | 401.2 | 379.8 | 385.3 | 403.0 | 410.3 | 416.0 | 412.1 | 442.5 | 451.8 | 429.5 | 407.3 | 399.0 | 254.1 | 253.5 |
| 298 | MR | 362.6 | 344.1 | 360.0 | 372.4 | 384.6 | 403.2 | 415.0 | 425.6 | 416.8 | 384.8 | 370.6 | 366.1 | 251.1 | 250.1 |
| 299 | MR | 250.2 | 247.1 | 245.9 | 247.1 | 244.0 | 238.7 | 236.0 | 237.4 | 247.5 | 257.8 | 260.9 | 256.4 | 139.3 | 140.0 |
| 300 | MR | 389.5 | 369.8 | 376.7 | 395.0 | 404.3 | 412.1 | 412.6 | 436.7 | 444.3 | 420.0 | 397.0 | 389.5 | 248.3 | 250.0 |
| 301 | MR | 362.1 | 368.4 | 363.3 | 351.9 | 342.2 | 340.0 | 342.0 | 347.1 | 352.1 | 349.8 | 355.3 | 350.2 | 246.6 | 250.1 |
| 302 | MR | 314.0 | 317.0 | 324.0 | 323.0 | 317.0 | 329.0 | 340.0 | 354.0 | 356.0 | 359.0 | 352.5 | 332.0 | 249.5 | 248.5 |
| 303 | MR | 394.6 | 377.6 | 374.5 | 391.9 | 381.9 | 385.9 | 370.4 | 410.7 | 428.5 | 414.9 | 396.4 | 396.7 | 256.9 | 252.1 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 304 | MR | 352.5 | 348.2 | 344.0 | 339.5 | 343.0 | 335.5 | 333.4 | 343.3 | 347.2 | 340.0 | 350.2 | 344.5 | 252.8 | 249.0 |
| 305 | MR | 325.9 | 316.2 | 320.8 | 324.9 | 318.5 | 303.3 | 299.5 | 326.4 | 334.2 | 333.7 | 328.1 | 322.8 | 230.2 | 229.7 |
| 306 | MR | 277.5 | 269.6 | 275.0 | 292.4 | 297.9 | 292.2 | 290.0 | 310.7 | 297.6 | 297.8 | 291.1 | 280.8 | 169.6 | 166.2 |
| 307 | MR | 279.7 | 276.1 | 274.8 | 278.7 | 277.9 | 277.0 | 271.9 | 269.8 | 275.2 | 281.4 | 291.4 | 291.4 | 167.3 | 168.3 |
| 308 | MR | 325.1 | 317.4 | 321.8 | 332.3 | 338.8 | 345.7 | 354.1 | 369.9 | 358.4 | 343.8 | 334.3 | 328.4 | 207.2 | 204.2 |
| 309 | MR | 354.3 | 350.2 | 345.9 | 340.3 | 344.7 | 336.7 | 332.5 | 343.0 | 348.8 | 338.2 | 352.2 | 343.3 | 256.7 | 254.1 |
| 310 | MR | 298.0 | 290.9 | 297.1 | 315.7 | 319.0 | 310.5 | 305.9 | 328.8 | 312.9 | 317.0 | 307.4 | 298.4 | 198.2 | 195.5 |
| 311 | MR | 341.6 | 332.5 | 336.6 | 347.7 | 357.5 | 363.5 | 369.0 | 386.6 | 380.9 | 371.8 | 360.7 | 347.9 | 242.6 | 239.0 |
| 312 | MR | 317.2 | 318.1 | 312.1 | 318.6 | 312.3 | 306.8 | 304.4 | 305.6 | 312.0 | 321.0 | 331.0 | 329.3 | 207.8 | 206.0 |
| 313 | MR | 324.1 | 319.0 | 323.9 | 332.2 | 333.6 | 336.6 | 341.7 | 357.8 | 348.0 | 336.0 | 330.7 | 326.2 | 209.9 | 208.0 |
| 314 | MR | 385.9 | 364.8 | 367.8 | 373.6 | 366.2 | 353.7 | 350.2 | 382.2 | 407.7 | 399.2 | 385.4 | 378.4 | 260.2 | 259.1 |
| 315 | MR | 377.9 | 360.1 | 361.1 | 360.7 | 345.7 | 326.0 | 329.5 | 356.1 | 384.7 | 384.2 | 374.3 | 371.6 | 248.0 | 246.3 |
| 316 | MR | 341.2 | 337.8 | 333.9 | 332.2 | 333.0 | 330.8 | 328.2 | 331.3 | 337.6 | 341.0 | 345.3 | 341.1 | 241.8 | 240.6 |
| 317 | MR | 218.5 | 215.0 | 213.6 | 215.7 | 211.6 | 206.3 | 202.8 | 201.9 | 211.9 | 225.3 | 229.4 | 224.4 | 105.8 | 107.1 |
| 318 | MR | 306.2 | 303.7 | 305.2 | 305.3 | 303.4 | 306.7 | 307.3 | 306.0 | 308.3 | 315.4 | 316.1 | 311.1 | 200.2 | 201.2 |
| 319 | MR | 237.0 | 235.3 | 237.7 | 238.7 | 242.0 | 246.0 | 245.3 | 239.7 | 238.3 | 239.7 | 237.7 | 235.3 | 139.0 | 142.7 |
| 320 | MR | 334.8 | 336.7 | 329.3 | 335.7 | 344.7 | 348.3 | 362.5 | 373.2 | 359.3 | 352.5 | 348.3 | 347.0 | 246.1 | 248.3 |
| 321 | MR | 359.2 | 345.2 | 347.2 | 352.3 | 354.6 | 358.4 | 359.4 | 383.2 | 392.7 | 370.9 | 361.9 | 352.5 | 252.4 | 250.9 |
| 322 | MR | 217.3 | 199.7 | 209.9 | 211.4 | 214.1 | 205.6 | 206.9 | 223.4 | 228.3 | 239.6 | 227.6 | 219.4 | 62.3 | 58.9 |
| 323 | MR | 353.1 | 347.8 | 343.5 | 351.8 | 361.3 | 367.4 | 376.5 | 386.5 | 372.1 | 366.9 | 356.6 | 354.3 | 250.9 | 251.8 |
| 324 | MR | 354.8 | 350.0 | 346.3 | 352.6 | 357.0 | 361.0 | 369.4 | 379.8 | 371.0 | 365.8 | 360.1 | 358.7 | 251.8 | 253.0 |
| 325 | MR | 343.7 | 341.8 | 336.8 | 338.2 | 339.1 | 336.3 | 340.9 | 349.4 | 348.2 | 345.3 | 345.4 | 347.4 | 245.1 | 244.0 |
| 326 | MR | 355.9 | 343.3 | 345.2 | 344.9 | 341.6 | 331.5 | 326.7 | 350.7 | 370.2 | 359.0 | 354.9 | 346.9 | 248.8 | 244.6 |
| 327 | MR | 332.0 | 327.0 | 320.0 | 319.0 | 320.0 | 318.0 | 318.0 | 319.0 | 318.0 | 328.0 | 330.0 | 329.0 | 240.0 | 239.0 |
| 328 | MR | 349.6 | 342.8 | 347.0 | 355.0 | 366.0 | 375.8 | 388.0 | 400.9 | 388.9 | 373.5 | 361.2 | 354.5 | 247.3 | 243.7 |
| 329 | MR | 346.5 | 340.1 | 343.7 | 352.4 | 364.9 | 373.2 | 385.3 | 395.4 | 384.2 | 371.6 | 360.2 | 352.4 | 245.4 | 242.1 |
| 330 | MR | 334.7 | 329.7 | 325.3 | 350.7 | 366.7 | 376.7 | 384.3 | 405.3 | 400.0 | 381.7 | 365.0 | 351.7 | 235.0 | 237.7 |
| 331 | MR | 337.9 | 330.4 | 330.0 | 352.6 | 369.4 | 378.9 | 385.1 | 406.0 | 401.5 | 384.8 | 369.0 | 355.6 | 230.8 | 234.3 |
| 332 | MR | 357.7 | 350.7 | 350.2 | 359.7 | 371.3 | 382.7 | 392.4 | 402.9 | 392.5 | 376.0 | 370.3 | 366.7 | 242.9 | 239.4 |
| 333 | MR | 346.1 | 345.9 | 357.4 | 363.9 | 364.5 | 371.3 | 388.1 | 396.8 | 401.3 | 397.4 | 389.1 | 369.6 | 246.2 | 247.1 |
| 334 | MR | 331.6 | 334.0 | 335.8 | 333.0 | 329.5 | 335.0 | 345.1 | 343.1 | 339.2 | 338.0 | 339.3 | 341.1 | 243.2 | 244.1 |
| 335 | MR | 337.2 | 339.9 | 342.4 | 340.8 | 342.5 | 351.0 | 368.1 | 364.2 | 353.2 | 351.1 | 346.6 | 347.3 | 248.2 | 251.0 |
| 336 | MR | 403.1 | 381.2 | 385.9 | 404.8 | 410.6 | 416.7 | 410.5 | 443.7 | 452.0 | 430.8 | 408.9 | 401.9 | 252.8 | 252.0 |
| 337 | MR | 341.8 | 342.9 | 345.9 | 352.0 | 361.5 | 383.2 | 403.8 | 412.6 | 384.4 | 361.4 | 352.1 | 348.7 | 250.0 | 247.3 |
| 338 | MR | 336.8 | 330.0 | 328.2 | 352.3 | 368.5 | 378.8 | 384.8 | 405.5 | 401.2 | 384.7 | 367.2 | 354.3 | 233.2 | 236.7 |
| 339 | MR | 343.2 | 345.3 | 347.1 | 346.5 | 352.0 | 373.9 | 401.1 | 392.5 | 374.0 | 363.9 | 354.5 | 353.3 | 255.5 | 255.3 |
| 340 | MR | 350.9 | 341.7 | 341.6 | 353.0 | 364.1 | 372.3 | 378.3 | 392.5 | 387.2 | 377.0 | 370.3 | 359.4 | 237.8 | 234.1 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 341 | MR | 351.8 | 338.7 | 340.4 | 350.2 | 357.4 | 365.1 | 371.9 | 392.1 | 391.8 | 375.8 | 366.9 | 355.4 | 246.0 | 244.6 |
| 342 | MR | 345.5 | 335.3 | 328.3 | 344.0 | 343.8 | 347.8 | 358.0 | 366.3 | 371.5 | 375.5 | 374.8 | 366.0 | 251.0 | 252.0 |
| 343 | MR | 342.7 | 346.3 | 352.7 | 358.7 | 367.7 | 373.0 | 382.7 | 392.3 | 398.3 | 393.7 | 383.7 | 362.7 | 248.7 | 248.7 |
| 344 | MR | 415.5 | 392.5 | 393.5 | 413.5 | 413.5 | 421.5 | 400.0 | 449.5 | 456.5 | 439.5 | 419.5 | 414.5 | 257.5 | 253.0 |
| 345 | MR | 329.0 | 326.0 | 329.0 | 332.0 | 333.0 | 334.0 | 338.0 | 344.0 | 348.0 | 353.0 | 353.0 | 341.0 | 261.0 | 260.0 |
| 346 | MR | 341.3 | 344.3 | 352.3 | 357.7 | 366.3 | 372.0 | 381.3 | 390.2 | 395.5 | 391.0 | 380.8 | 360.7 | 247.8 | 247.8 |
| 347 | MR | 337.3 | 330.3 | 329.3 | 353.0 | 369.3 | 379.3 | 385.8 | 406.5 | 401.8 | 385.5 | 368.3 | 355.3 | 233.0 | 237.0 |
| 348 | MR | 338.0 | 331.0 | 330.0 | 354.0 | 370.0 | 380.0 | 386.7 | 407.7 | 403.0 | 386.0 | 369.0 | 356.0 | 234.3 | 238.0 |
| 349 | MR | 344.5 | 343.6 | 348.1 | 369.0 | 388.9 | 400.4 | 403.6 | 425.7 | 424.5 | 404.2 | 371.5 | 362.4 | 238.3 | 240.7 |
| 350 | MR | 346.9 | 344.9 | 351.0 | 372.4 | 391.4 | 401.0 | 404.9 | 427.0 | 425.2 | 404.6 | 373.1 | 363.9 | 234.7 | 237.7 |
| 351 | MR | 323.8 | 319.5 | 329.3 | 339.9 | 347.0 | 357.4 | 378.7 | 382.0 | 381.7 | 375.8 | 369.0 | 351.9 | 246.4 | 246.9 |
| 352 | MR | 351.5 | 353.5 | 363.5 | 368.6 | 369.9 | 376.0 | 390.3 | 401.6 | 408.9 | 404.9 | 395.9 | 373.3 | 250.4 | 252.1 |
| 353 | MR | 336.0 | 330.0 | 326.0 | 352.0 | 367.0 | 378.0 | 384.0 | 406.0 | 400.0 | 382.0 | 366.0 | 353.0 | 235.0 | 238.0 |
| 354 | MR | 341.0 | 332.0 | 332.0 | 355.0 | 371.0 | 381.0 | 387.0 | 409.0 | 403.0 | 386.0 | 370.0 | 358.0 | 234.0 | 237.0 |
| 355 | MR | 355.7 | 344.7 | 355.0 | 364.3 | 375.8 | 395.1 | 410.2 | 419.7 | 402.7 | 374.0 | 363.6 | 360.3 | 251.2 | 248.7 |
| 356 | MR | 368.0 | 348.7 | 361.6 | 378.6 | 390.7 | 405.5 | 413.2 | 428.2 | 425.8 | 395.9 | 378.6 | 372.3 | 248.8 | 249.8 |
| 357 | MR | 340.0 | 331.0 | 331.0 | 354.0 | 369.0 | 379.0 | 386.0 | 407.0 | 402.0 | 385.0 | 369.0 | 356.0 | 232.0 | 236.0 |
| 358 | MR | 335.1 | 333.1 | 334.8 | 343.9 | 362.6 | 384.0 | 394.8 | 404.9 | 388.8 | 372.1 | 355.7 | 352.0 | 250.8 | 248.1 |
| 359 | MR | 345.0 | 335.6 | 340.2 | 359.0 | 371.7 | 389.8 | 403.1 | 417.8 | 403.0 | 377.0 | 361.9 | 355.7 | 250.3 | 249.1 |
| 360 | MR | 343.5 | 337.7 | 338.1 | 348.3 | 346.5 | 350.1 | 361.1 | 371.0 | 375.2 | 375.7 | 372.6 | 364.2 | 255.1 | 255.5 |
| 361 | MR | 336.6 | 335.2 | 347.8 | 354.1 | 355.4 | 362.3 | 381.5 | 388.2 | 391.9 | 386.2 | 377.3 | 363.4 | 250.3 | 251.1 |
| 362 | MR | 345.0 | 335.4 | 329.2 | 344.4 | 343.5 | 347.9 | 358.0 | 366.5 | 371.6 | 375.3 | 374.5 | 365.6 | 251.5 | 252.4 |
| 363 | MR | 334.0 | 329.0 | 328.0 | 351.5 | 368.3 | 378.8 | 384.5 | 406.5 | 401.8 | 384.8 | 366.8 | 352.5 | 232.8 | 237.3 |
| 364 | MR | 338.0 | 318.0 | 333.0 | 342.0 | 341.0 | 344.0 | 355.0 | 361.0 | 369.0 | 373.0 | 371.0 | 356.0 | 251.0 | 253.0 |
| 365 | MR | 336.0 | 318.0 | 335.0 | 340.0 | 340.0 | 342.0 | 352.0 | 359.0 | 366.0 | 369.0 | 368.0 | 352.0 | 253.0 | 254.0 |
| 366 | MR | 335.0 | 320.5 | 334.0 | 339.0 | 339.0 | 341.5 | 350.5 | 357.0 | 363.5 | 367.5 | 366.5 | 350.5 | 254.5 | 255.0 |
| 367 | MR | 339.0 | 336.8 | 344.5 | 349.8 | 347.8 | 350.4 | 359.2 | 371.5 | 376.8 | 374.2 | 368.9 | 360.5 | 261.7 | 261.9 |
| 368 | MR | 341.0 | 322.0 | 330.0 | 342.0 | 342.0 | 346.0 | 355.0 | 362.0 | 370.0 | 374.0 | 373.0 | 360.0 | 251.0 | 251.0 |
| 369 | MR | 345.0 | 337.3 | 335.3 | 347.3 | 345.7 | 350.0 | 360.3 | 370.0 | 374.0 | 375.7 | 373.3 | 365.3 | 253.7 | 254.7 |
| 370 | MR | 344.0 | 339.0 | 341.5 | 350.0 | 348.0 | 351.5 | 362.0 | 372.5 | 376.5 | 376.0 | 372.5 | 364.0 | 256.5 | 257.5 |
| 371 | MR | 334.7 | 329.3 | 327.7 | 351.3 | 368.3 | 378.3 | 384.3 | 406.0 | 401.3 | 384.0 | 366.7 | 353.7 | 232.0 | 235.7 |
| 372 | MR | 332.4 | 335.3 | 334.6 | 336.4 | 347.0 | 347.7 | 355.7 | 361.1 | 350.0 | 344.1 | 341.1 | 340.4 | 246.6 | 248.8 |
| 373 | MR | 346.8 | 343.6 | 346.3 | 353.3 | 364.9 | 381.8 | 397.8 | 405.4 | 384.0 | 362.5 | 356.3 | 352.9 | 248.9 | 246.4 |
| 374 | MR | 335.5 | 329.0 | 326.5 | 351.5 | 368.5 | 378.5 | 385.5 | 406.5 | 401.5 | 384.5 | 366.5 | 353.5 | 235.0 | 238.0 |
| 375 | MR | 402.7 | 384.4 | 384.9 | 404.3 | 401.2 | 405.5 | 389.8 | 431.4 | 437.5 | 423.9 | 406.7 | 406.1 | 248.5 | 245.6 |
| 376 | MR | 337.5 | 330.5 | 329.5 | 352.5 | 369.5 | 379.5 | 385.5 | 406.5 | 401.5 | 385.5 | 368.5 | 355.5 | 232.5 | 236.5 |
| 377 | MR | 304.1 | 291.9 | 294.7 | 308.5 | 324.1 | 340.2 | 358.8 | 363.1 | 358.6 | 358.0 | 354.5 | 330.6 | 244.8 | 240.9 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 378 | MR | 307.2 | 300.1 | 305.1 | 318.0 | 330.4 | 342.4 | 365.9 | 367.9 | 364.0 | 357.7 | 352.1 | 337.0 | 248.3 | 247.8 |
| 379 | MR | 410.1 | 387.2 | 390.3 | 410.0 | 412.5 | 419.3 | 405.9 | 447.3 | 454.2 | 436.0 | 415.7 | 409.4 | 253.6 | 251.0 |
| 380 | MR | 406.0 | 383.1 | 387.1 | 407.1 | 411.1 | 417.6 | 406.2 | 445.1 | 451.3 | 432.6 | 412.3 | 405.9 | 250.7 | 249.0 |
| 381 | MR | 344.6 | 341.7 | 339.1 | 350.0 | 361.6 | 367.5 | 375.5 | 379.2 | 365.2 | 357.5 | 352.8 | 349.8 | 244.5 | 243.4 |
| 382 | MR | 330.9 | 323.5 | 327.8 | 338.9 | 349.0 | 363.9 | 376.1 | 389.0 | 391.8 | 396.7 | 377.8 | 348.7 | 235.6 | 233.5 |
| 383 | MR | 330.9 | 333.3 | 334.5 | 332.7 | 334.4 | 334.7 | 341.8 | 344.1 | 340.2 | 339.4 | 337.6 | 340.2 | 244.6 | 245.1 |
| 384 | MR | 388.4 | 369.2 | 376.4 | 394.3 | 404.1 | 412.3 | 414.5 | 436.0 | 444.5 | 418.9 | 395.7 | 387.9 | 250.2 | 251.8 |
| 385 | MR | 396.6 | 376.0 | 381.7 | 400.4 | 407.8 | 414.8 | 411.8 | 440.4 | 448.3 | 426.0 | 403.5 | 396.2 | 250.5 | 251.0 |
| 386 | MR | 336.2 | 332.5 | 325.9 | 352.9 | 369.2 | 379.4 | 387.1 | 408.0 | 402.1 | 383.6 | 366.0 | 353.5 | 240.1 | 241.9 |
| 387 | MR | 349.3 | 350.8 | 346.8 | 349.1 | 346.6 | 358.7 | 379.0 | 374.9 | 368.1 | 362.6 | 354.2 | 352.8 | 254.7 | 256.1 |
| 388 | MR | 325.7 | 320.4 | 326.1 | 336.1 | 344.9 | 357.5 | 366.2 | 375.7 | 378.1 | 385.9 | 371.7 | 343.0 | 229.5 | 228.2 |
| 389 | MR | 347.0 | 341.4 | 343.1 | 350.5 | 363.2 | 370.4 | 382.2 | 390.4 | 378.5 | 366.8 | 356.8 | 351.3 | 247.3 | 244.5 |
| 390 | MR | 337.6 | 330.8 | 334.9 | 346.0 | 356.9 | 373.4 | 388.5 | 404.9 | 408.3 | 409.7 | 383.3 | 355.4 | 239.1 | 236.8 |
| 391 | MR | 337.0 | 331.0 | 329.0 | 354.0 | 369.0 | 379.0 | 386.0 | 407.0 | 402.0 | 385.0 | 369.0 | 355.0 | 233.0 | 238.0 |
| 392 | MR | 344.0 | 338.0 | 340.0 | 350.0 | 348.0 | 351.0 | 361.0 | 371.0 | 375.0 | 375.0 | 372.0 | 364.0 | 256.0 | 257.0 |
| 393 | MR | 337.8 | 331.0 | 329.8 | 354.0 | 369.8 | 379.8 | 386.5 | 407.5 | 402.8 | 385.8 | 369.0 | 355.8 | 234.3 | 238.0 |
| 394 | MR | 336.0 | 330.5 | 327.5 | 352.5 | 369.0 | 378.5 | 385.5 | 406.0 | 401.5 | 384.0 | 367.5 | 354.0 | 235.0 | 238.5 |
| 395 | MR | 330.6 | 323.0 | 326.1 | 335.2 | 346.6 | 365.1 | 393.1 | 409.4 | 412.9 | 409.6 | 378.6 | 351.5 | 243.3 | 239.5 |
| 396 | MR | 340.4 | 339.5 | 352.5 | 358.3 | 358.9 | 365.4 | 383.8 | 390.6 | 394.5 | 388.8 | 380.0 | 365.9 | 249.0 | 250.1 |
| 397 | MR | 309.6 | 298.9 | 303.8 | 316.8 | 330.4 | 344.7 | 362.4 | 366.0 | 361.8 | 361.4 | 359.1 | 336.5 | 245.0 | 243.0 |
| 398 | MR | 188.9 | 185.7 | 189.7 | 193.6 | 193.8 | 190.4 | 181.3 | 177.8 | 181.7 | 197.1 | 199.6 | 192.8 | 97.3 | 98.7 |
| 399 | MR | 215.0 | 213.0 | 208.0 | 211.0 | 219.0 | 220.0 | 217.0 | 212.0 | 209.0 | 214.0 | 214.0 | 215.0 | 144.0 | 145.0 |
| 400 | MR | 233.8 | 231.0 | 233.1 | 234.3 | 235.7 | 235.0 | 229.4 | 225.1 | 227.6 | 237.4 | 239.3 | 234.3 | 132.9 | 135.4 |
| 401 | MR | 322.8 | 327.3 | 334.0 | 334.0 | 332.8 | 338.3 | 350.3 | 362.8 | 365.0 | 365.3 | 357.3 | 337.5 | 252.8 | 252.3 |
| 402 | MR | 333.5 | 339.9 | 341.0 | 331.6 | 330.5 | 336.8 | 350.6 | 364.5 | 372.5 | 373.8 | 366.2 | 348.4 | 252.2 | 252.2 |
| 403 | MR | 335.0 | 341.0 | 342.3 | 332.0 | 331.5 | 338.8 | 353.3 | 368.0 | 376.8 | 378.0 | 371.8 | 351.8 | 252.0 | 252.0 |
| 404 | MR | 335.7 | 344.9 | 345.3 | 325.5 | 326.9 | 336.0 | 356.3 | 373.1 | 385.5 | 387.4 | 374.3 | 354.0 | 246.0 | 249.0 |
| 405 | MR | 329.8 | 333.9 | 336.5 | 330.8 | 328.8 | 335.2 | 349.5 | 363.9 | 371.3 | 373.5 | 365.6 | 345.2 | 252.5 | 250.5 |
| 406 | MR | 342.9 | 350.5 | 352.0 | 337.6 | 339.2 | 345.8 | 360.2 | 374.6 | 383.4 | 381.2 | 373.5 | 357.1 | 253.6 | 255.2 |
| 407 | MR | 314.2 | 319.2 | 327.5 | 324.3 | 320.8 | 327.9 | 340.9 | 357.8 | 360.4 | 362.9 | 355.8 | 333.8 | 241.2 | 242.8 |
| 408 | MR | 316.8 | 318.8 | 325.9 | 324.3 | 320.0 | 330.4 | 342.2 | 355.8 | 358.3 | 362.0 | 355.0 | 334.1 | 250.6 | 250.0 |
| 409 | MR | 313.5 | 314.3 | 323.5 | 320.1 | 318.5 | 326.4 | 340.7 | 356.6 | 358.2 | 361.8 | 356.0 | 333.9 | 240.6 | 241.5 |
| 410 | MR | 343.3 | 335.8 | 339.4 | 357.0 | 370.4 | 388.8 | 402.0 | 417.4 | 401.9 | 376.3 | 361.2 | 354.6 | 249.0 | 248.1 |
| 411 | MR | 335.2 | 341.3 | 343.0 | 333.7 | 333.3 | 339.2 | 352.5 | 365.0 | 371.5 | 372.0 | 365.2 | 348.3 | 254.7 | 255.0 |
| 412 | MR | 339.9 | 332.4 | 334.6 | 356.0 | 372.7 | 382.1 | 387.8 | 409.4 | 404.7 | 388.4 | 370.4 | 357.9 | 228.8 | 233.5 |
| 413 | MR | 336.8 | 343.0 | 340.4 | 328.7 | 328.4 | 342.4 | 376.0 | 394.6 | 409.4 | 411.0 | 376.6 | 355.4 | 235.6 | 240.6 |
| 414 | MR | 326.1 | 330.1 | 334.5 | 331.3 | 329.0 | 336.3 | 349.9 | 362.6 | 368.2 | 368.7 | 360.6 | 341.2 | 252.1 | 251.4 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 415 | MR | 376.5 | 361.3 | 356.3 | 373.3 | 350.6 | 350.0 | 346.1 | 380.1 | 406.8 | 397.5 | 379.1 | 380.3 | 251.5 | 245.2 |
| 416 | MR | 375.8 | 359.7 | 369.8 | 383.1 | 396.3 | 408.6 | 417.3 | 431.3 | 431.4 | 400.9 | 383.5 | 377.4 | 254.8 | 254.3 |
| 417 | MR | 392.5 | 379.2 | 369.7 | 371.9 | 356.4 | 350.2 | 351.5 | 376.5 | 403.0 | 396.5 | 391.9 | 393.9 | 265.5 | 266.9 |
| 418 | MR | 348.5 | 346.0 | 353.0 | 359.5 | 357.5 | 361.0 | 376.0 | 384.0 | 387.0 | 385.0 | 379.0 | 368.5 | 254.0 | 255.0 |
| 419 | MR | 383.3 | 368.1 | 364.2 | 378.0 | 363.8 | 364.5 | 357.7 | 390.5 | 416.4 | 403.3 | 385.1 | 386.1 | 259.4 | 254.6 |
| 420 | MR | 394.5 | 378.5 | 371.5 | 370.0 | 356.0 | 347.0 | 350.0 | 374.5 | 397.5 | 394.5 | 393.5 | 393.5 | 255.5 | 256.5 |
| 421 | MR | 372.6 | 357.1 | 360.7 | 364.8 | 362.5 | 362.4 | 357.4 | 385.8 | 398.9 | 381.6 | 367.7 | 361.8 | 256.4 | 253.5 |
| 422 | MR | 292.0 | 294.0 | 288.5 | 293.5 | 289.5 | 284.0 | 280.5 | 280.5 | 289.5 | 299.0 | 309.5 | 304.5 | 179.0 | 177.0 |
| 423 | MR | 390.3 | 376.7 | 367.7 | 371.3 | 356.0 | 350.7 | 352.0 | 376.0 | 403.0 | 395.3 | 389.7 | 391.0 | 266.7 | 266.7 |
| 424 | MR | 287.7 | 285.0 | 287.0 | 287.1 | 286.4 | 289.7 | 290.9 | 288.1 | 288.4 | 294.6 | 295.0 | 289.6 | 180.1 | 181.0 |
| 425 | MR | 385.5 | 368.5 | 368.5 | 376.5 | 377.5 | 373.0 | 374.5 | 395.5 | 423.0 | 402.5 | 385.5 | 383.5 | 266.5 | 263.5 |
| 426 | MR | 188.0 | 178.2 | 181.7 | 194.4 | 198.2 | 187.0 | 181.3 | 201.2 | 197.7 | 209.1 | 200.2 | 191.6 | 70.8 | 69.6 |
| 427 | MR | 149.0 | 140.0 | 142.0 | 153.0 | 160.0 | 149.0 | 145.0 | 164.0 | 162.0 | 172.0 | 164.0 | 156.0 | 33.0 | 33.0 |
| 428 | MR | 272.2 | 269.4 | 267.3 | 271.9 | 271.1 | 269.3 | 265.4 | 262.8 | 267.8 | 273.9 | 284.0 | 284.3 | 160.7 | 162.2 |
| 429 | MR | 274.3 | 266.1 | 271.6 | 289.7 | 292.7 | 282.9 | 277.5 | 300.9 | 288.2 | 296.7 | 285.3 | 274.1 | 165.9 | 163.6 |
| 430 | MR | 244.6 | 238.0 | 238.8 | 251.2 | 255.0 | 257.2 | 263.6 | 276.0 | 262.8 | 257.6 | 255.8 | 249.4 | 118.4 | 118.6 |
| 431 | MR | 235.0 | 229.7 | 231.7 | 230.3 | 231.9 | 238.5 | 228.3 | 225.3 | 230.4 | 234.8 | 242.0 | 240.3 | 117.5 | 118.6 |
| 432 | MR | 323.7 | 328.7 | 330.8 | 319.2 | 325.3 | 327.8 | 337.8 | 349.0 | 364.9 | 357.6 | 343.1 | 329.5 | 252.5 | 257.3 |
| 433 | MR | 377.7 | 362.8 | 362.8 | 368.5 | 367.0 | 361.8 | 366.4 | 385.0 | 413.6 | 394.1 | 378.0 | 376.3 | 266.6 | 265.8 |
| 434 | MR | 324.7 | 328.5 | 327.1 | 315.3 | 296.4 | 297.9 | 315.2 | 317.3 | 331.9 | 334.5 | 326.9 | 320.2 | 208.5 | 207.6 |
| 435 | MR | 335.2 | 344.5 | 344.5 | 325.5 | 326.6 | 336.6 | 359.4 | 376.8 | 389.2 | 390.4 | 374.0 | 353.6 | 244.9 | 248.4 |
| 436 | MR | 279.1 | 277.0 | 275.1 | 280.4 | 280.1 | 277.1 | 274.8 | 272.3 | 276.7 | 282.9 | 292.2 | 294.9 | 172.1 | 175.3 |
| 437 | MR | 343.6 | 344.8 | 338.2 | 342.5 | 336.2 | 330.7 | 329.8 | 332.5 | 338.2 | 343.3 | 350.4 | 351.8 | 240.2 | 238.8 |
| 438 | MR | 361.8 | 354.5 | 354.0 | 355.9 | 365.2 | 372.9 | 381.5 | 391.6 | 382.4 | 373.0 | 363.0 | 362.2 | 246.5 | 245.0 |
| 439 | MR | 341.7 | 344.2 | 336.7 | 343.1 | 342.4 | 337.1 | 349.1 | 352.7 | 344.1 | 341.7 | 342.9 | 348.9 | 245.9 | 245.0 |
| 1 | Presente | 310.9 | 311.3 | 308.6 | 305.5 | 303.0 | 300.2 | 297.4 | 310.5 | 315.3 | 313.8 | 312.9 | 314.7 | 214.9 | 216.0 |
| 2 | Presente | 308.1 | 311.9 | 308.0 | 306.9 | 303.4 | 298.9 | 299.1 | 306.5 | 310.4 | 312.1 | 312.4 | 314.7 | 213.9 | 214.7 |
| 3 | Presente | 186.1 | 182.1 | 182.9 | 192.4 | 192.4 | 188.1 | 187.0 | 197.7 | 195.6 | 211.5 | 207.0 | 191.6 | 48.8 | 49.9 |
| 4 | Presente | 310.4 | 312.3 | 308.1 | 305.9 | 306.0 | 304.4 | 300.0 | 310.2 | 315.7 | 319.6 | 316.9 | 315.4 | 213.0 | 216.3 |
| 5 | Presente | 293.2 | 289.8 | 289.3 | 288.1 | 292.8 | 290.7 | 290.4 | 294.5 | 297.6 | 299.7 | 298.3 | 299.1 | 184.1 | 185.3 |
| 6 | Presente | 320.1 | 314.2 | 315.5 | 314.0 | 313.2 | 312.2 | 316.4 | 328.4 | 332.8 | 326.7 | 320.9 | 323.2 | 217.2 | 216.8 |
| 7 | Presente | 310.5 | 313.9 | 309.9 | 308.1 | 306.4 | 301.1 | 299.8 | 309.0 | 312.8 | 312.9 | 313.6 | 315.6 | 215.2 | 215.6 |
| 8 | Presente | 302.9 | 302.9 | 303.8 | 304.5 | 302.6 | 302.0 | 305.5 | 315.6 | 318.3 | 316.7 | 312.5 | 307.9 | 207.4 | 208.2 |
| 9 | Presente | 316.5 | 312.8 | 316.2 | 314.8 | 306.4 | 301.8 | 300.1 | 325.8 | 335.1 | 334.2 | 327.8 | 317.3 | 221.6 | 220.4 |
| 10 | Presente | 310.2 | 304.5 | 305.0 | 302.5 | 289.7 | 276.1 | 280.8 | 301.8 | 317.9 | 322.4 | 323.3 | 310.4 | 218.1 | 219.2 |
| 11 | Presente | 301.8 | 301.0 | 303.9 | 307.3 | 311.1 | 312.7 | 315.7 | 320.9 | 325.1 | 325.2 | 320.2 | 314.7 | 225.4 | 226.2 |
| 12 | Presente | 309.6 | 306.2 | 306.3 | 308.4 | 310.0 | 310.5 | 315.2 | 322.4 | 325.3 | 328.3 | 327.1 | 319.4 | 227.9 | 229.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | Presente | 321.7 | 319.9 | 317.2 | 314.9 | 310.3 | 312.1 | 317.2 | 321.6 | 326.4 | 326.4 | 324.3 | 323.9 | 222.6 | 224.5 |
| 14 | Presente | 277.3 | 275.9 | 275.0 | 273.6 | 262.6 | 253.7 | 255.4 | 274.5 | 284.3 | 287.5 | 291.4 | 279.7 | 180.8 | 180.1 |
| 15 | Presente | 243.7 | 243.0 | 244.3 | 237.0 | 227.7 | 219.3 | 221.0 | 240.0 | 255.3 | 255.3 | 255.7 | 253.0 | 159.3 | 159.3 |
| 16 | Presente | 301.4 | 296.8 | 299.8 | 303.7 | 305.6 | 304.4 | 308.8 | 314.9 | 317.4 | 320.1 | 319.7 | 310.6 | 229.9 | 230.0 |
| 17 | Presente | 244.2 | 245.2 | 246.2 | 243.0 | 232.2 | 229.0 | 233.0 | 246.6 | 251.6 | 252.0 | 259.4 | 251.8 | 149.8 | 151.4 |
| 18 | Presente | 295.0 | 295.0 | 297.0 | 302.0 | 304.0 | 308.0 | 316.0 | 323.0 | 327.0 | 325.0 | 317.0 | 310.0 | 230.0 | 231.0 |
| 19 | Presente | 298.6 | 298.6 | 302.2 | 308.0 | 313.4 | 318.2 | 323.9 | 325.6 | 319.5 | 314.5 | 307.6 | 306.7 | 205.2 | 205.7 |
| 20 | Presente | 307.6 | 309.9 | 308.6 | 304.7 | 301.1 | 306.9 | 316.9 | 324.1 | 323.6 | 318.0 | 311.9 | 311.7 | 217.8 | 218.5 |
| 21 | Presente | 306.0 | 305.0 | 308.0 | 313.0 | 317.0 | 318.0 | 321.0 | 321.0 | 322.0 | 323.0 | 320.0 | 315.0 | 223.0 | 224.0 |
| 22 | Presente | 303.4 | 304.4 | 308.6 | 314.6 | 322.4 | 327.4 | 334.0 | 336.6 | 327.2 | 317.8 | 309.4 | 312.4 | 212.6 | 213.2 |
| 23 | Presente | 311.6 | 312.2 | 314.7 | 319.3 | 323.6 | 327.1 | 330.8 | 331.9 | 330.9 | 326.8 | 321.9 | 321.4 | 219.2 | 221.1 |
| 24 | Presente | 309.3 | 312.3 | 311.0 | 306.3 | 303.0 | 311.0 | 321.3 | 328.0 | 326.7 | 320.0 | 313.0 | 314.0 | 223.7 | 224.7 |
| 25 | Presente | 307.1 | 307.7 | 307.2 | 307.7 | 308.0 | 311.0 | 320.0 | 324.8 | 325.9 | 320.9 | 314.3 | 314.4 | 227.3 | 227.4 |
| 26 | Presente | 305.4 | 306.4 | 306.9 | 307.8 | 308.9 | 311.9 | 322.5 | 326.9 | 327.7 | 321.4 | 314.1 | 314.9 | 229.4 | 230.0 |
| 27 | Presente | 307.8 | 308.2 | 307.5 | 307.9 | 307.6 | 310.5 | 319.7 | 324.2 | 326.2 | 322.0 | 315.3 | 315.3 | 226.6 | 227.5 |
| 28 | Presente | 307.0 | 306.9 | 307.9 | 308.1 | 310.4 | 313.4 | 322.4 | 331.0 | 336.7 | 335.7 | 323.3 | 320.0 | 232.3 | 234.8 |
| 29 | Presente | 306.0 | 307.0 | 308.0 | 309.0 | 311.0 | 313.0 | 324.0 | 329.0 | 329.0 | 322.0 | 314.0 | 315.0 | 232.0 | 232.0 |
| 30 | Presente | 305.7 | 301.5 | 301.1 | 301.2 | 301.9 | 303.9 | 309.0 | 319.0 | 325.7 | 326.2 | 323.2 | 317.3 | 225.8 | 223.2 |
| 31 | Presente | 306.7 | 306.8 | 306.3 | 306.6 | 306.5 | 309.2 | 317.9 | 322.5 | 325.8 | 323.0 | 316.3 | 315.3 | 224.7 | 226.2 |
| 32 | Presente | 306.0 | 303.7 | 306.0 | 312.3 | 316.0 | 316.7 | 319.7 | 320.0 | 322.0 | 323.3 | 320.0 | 315.0 | 223.7 | 224.0 |
| 33 | Presente | 293.9 | 293.3 | 295.3 | 299.8 | 302.8 | 305.9 | 313.7 | 321.0 | 326.2 | 324.8 | 316.4 | 309.3 | 230.1 | 230.9 |
| 34 | Presente | 306.5 | 289.5 | 307.0 | 307.0 | 304.0 | 315.5 | 328.0 | 328.5 | 325.5 | 316.5 | 309.0 | 311.0 | 218.0 | 218.5 |
| 35 | Presente | 299.1 | 299.8 | 303.8 | 310.3 | 316.8 | 322.2 | 328.7 | 331.3 | 322.3 | 313.4 | 305.4 | 307.5 | 208.6 | 209.4 |
| 36 | Presente | 299.7 | 299.9 | 302.2 | 309.4 | 315.8 | 322.3 | 330.2 | 341.1 | 331.4 | 323.4 | 316.4 | 308.1 | 212.6 | 212.8 |
| 37 | Presente | 305.9 | 307.4 | 307.7 | 309.2 | 310.7 | 313.6 | 324.2 | 328.7 | 328.9 | 322.6 | 314.9 | 315.8 | 231.0 | 231.8 |
| 38 | Presente | 288.7 | 287.7 | 284.0 | 280.0 | 268.0 | 257.7 | 259.7 | 280.3 | 293.3 | 295.0 | 298.7 | 289.3 | 196.7 | 196.7 |
| 39 | Presente | 295.4 | 295.1 | 298.4 | 304.8 | 309.3 | 313.3 | 320.1 | 325.9 | 321.6 | 316.2 | 310.9 | 303.9 | 193.5 | 194.0 |
| 40 | Presente | 322.5 | 321.1 | 317.8 | 315.1 | 310.1 | 311.7 | 316.3 | 320.7 | 325.2 | 325.6 | 323.7 | 323.2 | 221.5 | 223.2 |
| 41 | Presente | 320.5 | 320.5 | 319.0 | 313.0 | 293.0 | 287.0 | 292.0 | 313.0 | 333.0 | 334.0 | 332.0 | 325.0 | 221.0 | 223.5 |
| 42 | Presente | 311.0 | 309.5 | 301.5 | 295.5 | 271.0 | 253.0 | 260.0 | 281.5 | 303.5 | 311.5 | 315.5 | 312.0 | 215.5 | 215.5 |
| 43 | Presente | 314.3 | 311.8 | 315.8 | 314.3 | 316.5 | 318.0 | 323.3 | 338.1 | 343.5 | 334.1 | 324.6 | 317.9 | 222.0 | 222.9 |
| 44 | Presente | 315.0 | 312.7 | 315.7 | 314.0 | 315.0 | 316.0 | 319.0 | 338.0 | 342.0 | 332.7 | 325.3 | 317.7 | 223.3 | 222.7 |
| 45 | Presente | 320.5 | 320.5 | 319.0 | 313.0 | 293.0 | 287.0 | 292.0 | 313.0 | 333.0 | 334.0 | 332.0 | 325.0 | 221.0 | 223.5 |
| 46 | Presente | 316.3 | 312.0 | 314.8 | 314.5 | 305.5 | 304.1 | 297.5 | 327.9 | 335.8 | 334.7 | 328.3 | 316.7 | 220.7 | 220.1 |
| 47 | Presente | 305.5 | 300.3 | 300.7 | 298.3 | 286.3 | 273.3 | 277.7 | 298.3 | 313.1 | 317.7 | 318.5 | 305.3 | 213.2 | 213.8 |
| 48 | Presente | 305.3 | 303.2 | 303.4 | 299.5 | 291.5 | 282.3 | 281.4 | 302.3 | 317.4 | 314.9 | 314.3 | 306.0 | 213.3 | 211.0 |
| 49 | Presente | 332.7 | 342.7 | 336.3 | 321.0 | 312.3 | 302.0 | 304.3 | 307.7 | 316.0 | 319.0 | 322.0 | 324.3 | 220.0 | 222.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | Presente | 229.9 | 232.4 | 228.0 | 227.4 | 226.4 | 218.6 | 212.1 | 216.6 | 222.3 | 233.1 | 239.7 | 237.4 | 114.9 | 115.9 |
| 51 | Presente | 223.6 | 223.1 | 223.8 | 221.7 | 212.8 | 208.4 | 210.8 | 225.5 | 232.4 | 235.1 | 237.9 | 230.1 | 130.9 | 132.5 |
| 52 | Presente | 291.2 | 289.9 | 283.7 | 276.4 | 258.9 | 243.7 | 249.0 | 266.2 | 283.3 | 291.7 | 296.2 | 293.5 | 191.3 | 189.3 |
| 53 | Presente | 316.2 | 315.6 | 311.6 | 307.7 | 288.9 | 279.5 | 284.1 | 304.0 | 325.5 | 326.8 | 327.5 | 320.9 | 222.4 | 225.1 |
| 54 | Presente | 273.1 | 271.8 | 272.2 | 267.5 | 256.6 | 247.9 | 249.7 | 269.4 | 284.9 | 286.1 | 283.3 | 277.9 | 183.7 | 183.2 |
| 55 | Presente | 304.8 | 301.8 | 300.7 | 297.3 | 296.9 | 295.3 | 300.0 | 314.6 | 317.1 | 312.8 | 307.9 | 306.5 | 214.3 | 213.8 |
| 56 | Presente | 299.9 | 300.7 | 301.0 | 299.1 | 297.4 | 295.0 | 295.0 | 306.4 | 310.3 | 309.3 | 307.0 | 305.0 | 212.0 | 212.0 |
| 57 | Presente | 305.0 | 303.0 | 305.0 | 312.0 | 316.0 | 316.0 | 318.0 | 320.0 | 322.0 | 323.0 | 320.0 | 315.0 | 224.0 | 225.0 |
| 58 | Presente | 305.0 | 303.0 | 305.0 | 312.0 | 315.0 | 316.0 | 319.0 | 319.0 | 321.0 | 323.0 | 319.0 | 315.0 | 223.0 | 224.0 |
| 59 | Presente | 303.0 | 304.0 | 304.0 | 305.0 | 305.0 | 309.0 | 318.0 | 322.0 | 324.0 | 320.0 | 313.0 | 312.0 | 225.0 | 226.0 |
| 60 | Presente | 306.0 | 303.0 | 301.0 | 301.0 | 291.0 | 292.0 | 302.0 | 321.0 | 326.0 | 318.0 | 314.0 | 306.0 | 216.0 | 220.0 |
| 61 | Presente | 294.5 | 292.0 | 290.0 | 286.5 | 275.0 | 264.0 | 266.5 | 288.0 | 301.0 | 304.0 | 305.0 | 294.5 | 202.0 | 202.5 |
| 62 | Presente | 306.3 | 306.7 | 310.4 | 309.0 | 304.9 | 297.1 | 297.7 | 305.7 | 320.1 | 327.0 | 320.6 | 314.3 | 213.3 | 214.3 |
| 63 | Presente | 289.3 | 293.3 | 297.0 | 303.0 | 300.0 | 292.5 | 295.5 | 305.0 | 310.5 | 311.0 | 303.5 | 297.0 | 216.5 | 217.0 |
| 64 | Presente | 291.2 | 295.0 | 297.2 | 302.5 | 299.8 | 294.3 | 297.2 | 307.9 | 313.0 | 313.9 | 306.3 | 297.9 | 225.7 | 227.1 |
| 65 | Presente | 316.6 | 320.2 | 320.1 | 310.5 | 303.1 | 297.1 | 297.7 | 304.3 | 312.7 | 314.4 | 316.5 | 314.1 | 198.2 | 197.7 |
| 66 | Presente | 286.0 | 290.0 | 292.0 | 297.0 | 292.0 | 300.0 | 306.0 | 317.0 | 323.0 | 323.0 | 313.0 | 296.0 | 228.0 | 227.0 |
| 67 | Presente | 289.0 | 290.0 | 296.0 | 301.0 | 302.0 | 303.0 | 309.0 | 319.0 | 324.0 | 322.0 | 313.0 | 296.0 | 223.0 | 221.0 |
| 68 | Presente | 230.8 | 229.4 | 227.5 | 233.2 | 235.7 | 230.9 | 228.8 | 231.9 | 234.5 | 238.4 | 243.6 | 248.0 | 131.4 | 135.4 |
| 69 | Presente | 191.0 | 185.0 | 183.6 | 195.6 | 199.2 | 200.9 | 200.4 | 206.0 | 204.2 | 206.9 | 208.3 | 199.2 | 67.7 | 68.8 |
| 70 | Presente | 279.2 | 271.2 | 272.2 | 283.7 | 285.4 | 284.5 | 281.8 | 290.2 | 293.2 | 289.8 | 288.9 | 278.9 | 167.9 | 165.6 |
| 71 | Presente | 305.2 | 303.0 | 304.1 | 302.7 | 298.3 | 296.3 | 300.7 | 307.9 | 318.9 | 323.8 | 317.8 | 313.9 | 207.7 | 209.8 |
| 72 | Presente | 350.7 | 358.0 | 354.3 | 337.0 | 321.0 | 308.3 | 311.0 | 315.0 | 324.7 | 330.0 | 335.0 | 339.3 | 227.0 | 231.3 |
| 73 | Presente | 350.5 | 358.0 | 354.0 | 337.0 | 321.0 | 308.0 | 311.0 | 315.0 | 324.5 | 330.0 | 335.0 | 339.0 | 227.0 | 231.0 |
| 74 | Presente | 301.0 | 300.6 | 301.4 | 306.0 | 312.8 | 318.0 | 324.6 | 333.3 | 327.6 | 321.6 | 315.0 | 310.3 | 220.7 | 220.1 |
| 75 | Presente | 330.4 | 325.9 | 324.8 | 320.1 | 312.0 | 311.7 | 313.5 | 319.1 | 325.1 | 326.3 | 329.8 | 331.0 | 218.6 | 221.3 |
| 76 | Presente | 304.7 | 300.6 | 300.9 | 307.2 | 307.2 | 311.2 | 322.9 | 332.5 | 327.9 | 320.6 | 314.0 | 310.6 | 216.6 | 217.0 |
| 77 | Presente | 299.2 | 297.9 | 298.7 | 299.8 | 297.8 | 299.3 | 307.2 | 315.9 | 327.0 | 332.2 | 320.8 | 312.9 | 207.0 | 208.8 |
| 78 | Presente | 289.0 | 286.0 | 291.0 | 292.5 | 296.5 | 300.5 | 310.5 | 323.5 | 318.0 | 310.5 | 297.5 | 294.5 | 182.5 | 185.5 |
| 79 | Presente | 290.3 | 290.2 | 292.1 | 293.7 | 295.6 | 299.2 | 307.9 | 315.4 | 321.3 | 320.2 | 312.7 | 304.1 | 211.9 | 212.8 |
| 80 | Presente | 298.7 | 299.9 | 300.2 | 298.7 | 293.7 | 291.1 | 292.0 | 301.8 | 307.5 | 306.5 | 305.2 | 303.3 | 211.3 | 210.6 |
| 81 | Presente | 299.2 | 300.6 | 301.1 | 299.5 | 298.1 | 295.0 | 295.5 | 306.7 | 311.2 | 309.8 | 307.3 | 304.9 | 211.9 | 212.6 |
| 82 | Presente | 326.9 | 325.7 | 327.1 | 321.4 | 311.5 | 307.3 | 306.7 | 313.1 | 321.5 | 323.0 | 326.7 | 325.9 | 207.7 | 210.9 |
| 83 | Presente | 328.6 | 325.2 | 323.6 | 319.4 | 312.4 | 312.6 | 315.1 | 320.4 | 326.3 | 327.0 | 328.9 | 329.5 | 220.2 | 222.6 |
| 84 | Presente | 300.7 | 296.3 | 297.8 | 299.6 | 297.8 | 296.3 | 298.4 | 315.7 | 316.6 | 315.0 | 310.3 | 302.6 | 205.0 | 203.1 |
| 85 | Presente | 294.3 | 292.3 | 295.0 | 297.3 | 301.0 | 306.0 | 318.3 | 332.3 | 320.0 | 312.0 | 303.3 | 299.7 | 188.0 | 193.3 |
| 86 | Presente | 299.8 | 302.3 | 310.4 | 315.7 | 315.5 | 315.7 | 326.6 | 336.1 | 339.6 | 326.8 | 313.7 | 313.1 | 194.7 | 197.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 87 | Presente | 299.5 | 299.4 | 295.8 | 302.8 | 306.9 | 310.8 | 323.1 | 336.0 | 324.7 | 318.0 | 310.7 | 306.2 | 202.4 | 206.0 |
| 88 | Presente | 303.0 | 302.0 | 290.3 | 307.2 | 304.9 | 305.8 | 319.3 | 329.8 | 326.4 | 321.3 | 312.4 | 307.9 | 213.6 | 215.6 |
| 89 | Presente | 307.0 | 295.8 | 308.3 | 307.0 | 305.1 | 314.0 | 324.9 | 328.1 | 328.2 | 320.2 | 310.7 | 310.1 | 215.2 | 217.0 |
| 90 | Presente | 294.7 | 292.9 | 296.5 | 302.1 | 306.0 | 310.3 | 317.6 | 324.4 | 321.2 | 316.8 | 312.0 | 303.0 | 198.6 | 198.6 |
| 91 | Presente | 296.2 | 294.4 | 298.5 | 305.2 | 309.7 | 314.6 | 322.5 | 331.1 | 326.1 | 321.2 | 315.9 | 305.0 | 203.9 | 203.5 |
| 92 | Presente | 300.2 | 300.0 | 301.7 | 306.4 | 312.7 | 318.0 | 324.7 | 333.0 | 328.3 | 322.8 | 315.8 | 310.0 | 219.2 | 219.0 |
| 93 | Presente | 286.6 | 283.5 | 289.5 | 290.1 | 293.5 | 297.0 | 305.6 | 314.3 | 320.8 | 322.3 | 314.6 | 301.2 | 216.0 | 217.2 |
| 94 | Presente | 315.3 | 316.1 | 314.3 | 308.8 | 303.1 | 301.0 | 302.8 | 308.6 | 315.2 | 316.2 | 316.5 | 314.4 | 210.7 | 211.1 |
| 95 | Presente | 324.7 | 321.5 | 319.9 | 316.7 | 311.3 | 311.8 | 316.1 | 321.0 | 327.0 | 328.0 | 327.5 | 327.8 | 221.6 | 224.0 |
| 96 | Presente | 304.9 | 305.0 | 306.0 | 306.5 | 307.9 | 310.2 | 318.5 | 330.1 | 325.5 | 319.1 | 315.2 | 310.5 | 217.0 | 215.7 |
| 97 | Presente | 304.8 | 293.9 | 302.2 | 306.0 | 303.3 | 312.2 | 323.8 | 329.3 | 327.1 | 319.4 | 309.5 | 308.3 | 211.4 | 214.9 |
| 98 | Presente | 287.3 | 287.3 | 291.1 | 297.6 | 302.9 | 307.9 | 314.0 | 315.6 | 309.2 | 303.6 | 296.4 | 296.0 | 191.7 | 192.4 |
| 99 | Presente | 305.2 | 304.3 | 305.6 | 307.8 | 310.9 | 314.4 | 320.0 | 325.5 | 328.6 | 328.2 | 322.9 | 317.1 | 217.8 | 218.9 |
| 100 | Presente | 300.9 | 301.2 | 302.3 | 308.9 | 316.1 | 323.0 | 330.5 | 341.4 | 331.0 | 322.6 | 315.8 | 308.4 | 215.5 | 215.6 |
| 101 | Presente | 303.5 | 302.3 | 305.5 | 310.2 | 315.2 | 320.2 | 327.2 | 334.5 | 332.3 | 328.2 | 321.5 | 313.6 | 219.9 | 219.7 |
| 102 | Presente | 297.9 | 294.7 | 298.8 | 303.4 | 307.6 | 311.9 | 319.0 | 325.8 | 325.9 | 323.7 | 318.3 | 307.3 | 210.8 | 209.7 |
| 103 | Presente | 302.3 | 304.2 | 296.7 | 306.1 | 308.2 | 309.8 | 321.4 | 334.6 | 328.3 | 322.1 | 315.0 | 309.7 | 212.7 | 214.4 |
| 104 | Presente | 308.3 | 306.0 | 309.9 | 307.3 | 306.9 | 310.6 | 319.3 | 325.6 | 325.9 | 319.7 | 313.5 | 312.1 | 216.0 | 215.4 |
| 105 | Presente | 292.2 | 291.8 | 295.5 | 301.2 | 305.8 | 311.0 | 316.6 | 317.8 | 312.8 | 309.0 | 301.4 | 301.4 | 194.8 | 195.2 |
| 106 | Presente | 302.5 | 301.5 | 304.3 | 309.7 | 315.2 | 320.6 | 327.7 | 335.8 | 331.8 | 326.8 | 320.3 | 311.9 | 218.1 | 217.9 |
| 107 | Presente | 303.3 | 303.0 | 293.3 | 307.1 | 306.6 | 307.6 | 320.3 | 331.4 | 327.3 | 321.6 | 313.7 | 309.1 | 215.1 | 216.3 |
| 108 | Presente | 296.3 | 296.8 | 301.8 | 312.7 | 317.4 | 323.5 | 333.1 | 346.4 | 333.8 | 324.8 | 317.0 | 306.7 | 203.1 | 203.8 |
| 109 | Presente | 302.4 | 300.8 | 291.6 | 305.7 | 304.0 | 306.5 | 319.8 | 330.8 | 325.7 | 320.2 | 311.6 | 307.1 | 209.4 | 212.8 |
| 110 | Presente | 299.6 | 299.4 | 298.0 | 304.2 | 311.4 | 316.4 | 325.1 | 336.7 | 326.4 | 318.7 | 311.5 | 307.4 | 211.4 | 211.8 |
| 111 | Presente | 305.1 | 302.6 | 302.2 | 302.8 | 300.3 | 300.5 | 304.8 | 317.8 | 318.3 | 316.3 | 312.0 | 307.4 | 205.4 | 203.8 |
| 112 | Presente | 307.7 | 308.9 | 307.3 | 305.9 | 303.8 | 303.9 | 308.8 | 316.7 | 318.4 | 316.3 | 312.7 | 311.8 | 203.9 | 202.3 |
| 113 | Presente | 292.7 | 291.6 | 291.8 | 292.6 | 293.5 | 297.0 | 305.0 | 314.3 | 320.6 | 321.0 | 313.5 | 305.7 | 210.4 | 210.4 |
| 114 | Presente | 302.1 | 301.8 | 303.5 | 307.2 | 312.8 | 317.2 | 323.5 | 330.8 | 328.7 | 324.3 | 317.3 | 312.9 | 224.2 | 224.1 |
| 115 | Presente | 307.5 | 308.5 | 307.8 | 305.8 | 304.7 | 305.5 | 311.3 | 318.9 | 320.1 | 316.9 | 312.6 | 311.8 | 207.6 | 206.4 |
| 116 | Presente | 323.6 | 321.3 | 321.9 | 316.1 | 306.6 | 303.4 | 303.8 | 309.4 | 317.0 | 318.6 | 322.7 | 322.5 | 205.1 | 208.1 |
| 117 | Presente | 306.5 | 305.0 | 305.8 | 306.9 | 305.3 | 305.6 | 310.4 | 320.4 | 319.8 | 317.9 | 312.8 | 309.1 | 209.7 | 208.1 |
| 118 | Presente | 306.3 | 304.0 | 303.4 | 303.5 | 300.4 | 300.4 | 305.4 | 318.4 | 319.2 | 316.9 | 312.5 | 308.6 | 205.9 | 204.5 |
| 119 | Presente | 304.1 | 303.9 | 304.1 | 304.7 | 306.1 | 309.3 | 318.1 | 326.6 | 332.9 | 333.0 | 322.0 | 316.8 | 224.1 | 226.2 |
| 120 | Presente | 297.7 | 294.1 | 296.8 | 299.3 | 301.4 | 304.8 | 310.7 | 317.7 | 321.7 | 322.0 | 317.1 | 307.9 | 211.0 | 209.4 |
| 121 | Presente | 294.7 | 294.2 | 297.7 | 303.1 | 307.8 | 312.8 | 318.3 | 319.6 | 315.0 | 311.3 | 304.0 | 303.5 | 199.0 | 199.5 |
| 122 | Presente | 305.1 | 307.0 | 307.9 | 306.6 | 306.4 | 302.8 | 306.0 | 316.4 | 319.4 | 318.3 | 313.5 | 309.6 | 221.8 | 223.6 |
| 123 | Presente | 301.6 | 302.3 | 301.4 | 307.9 | 315.5 | 321.8 | 330.5 | 343.0 | 330.7 | 321.2 | 313.3 | 308.7 | 212.9 | 213.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 124 | Presente | 305.7 | 307.4 | 307.1 | 307.0 | 308.3 | 308.5 | 314.9 | 326.7 | 323.6 | 318.7 | 315.1 | 310.3 | 219.7 | 218.2 |
| 125 | Presente | 300.7 | 300.9 | 298.9 | 305.4 | 311.3 | 315.8 | 326.5 | 339.1 | 327.9 | 320.2 | 312.1 | 308.0 | 206.9 | 209.1 |
| 126 | Presente | 305.4 | 305.5 | 305.4 | 306.2 | 307.0 | 309.8 | 318.3 | 325.9 | 332.6 | 333.0 | 322.2 | 318.0 | 224.5 | 227.2 |
| 127 | Presente | 301.0 | 300.0 | 292.0 | 304.0 | 303.0 | 307.0 | 320.0 | 332.0 | 324.0 | 319.0 | 311.0 | 306.0 | 204.0 | 209.0 |
| 128 | Presente | 299.0 | 299.0 | 293.0 | 302.0 | 303.0 | 307.0 | 320.0 | 333.0 | 323.0 | 317.0 | 310.0 | 305.0 | 200.0 | 206.0 |
| 129 | Presente | 302.0 | 303.8 | 293.8 | 305.9 | 307.3 | 308.3 | 320.7 | 333.7 | 327.4 | 321.7 | 314.3 | 308.8 | 211.7 | 213.9 |
| 130 | Presente | 305.2 | 292.6 | 304.0 | 306.3 | 304.8 | 313.0 | 325.1 | 329.5 | 325.2 | 317.0 | 310.3 | 310.1 | 217.3 | 217.8 |
| 131 | Presente | 300.0 | 300.0 | 291.0 | 303.0 | 303.0 | 306.0 | 319.0 | 332.0 | 324.0 | 319.0 | 311.0 | 306.0 | 204.0 | 208.0 |
| 132 | Presente | 300.4 | 299.2 | 292.0 | 303.2 | 302.4 | 305.8 | 319.8 | 331.6 | 323.2 | 318.0 | 310.2 | 305.4 | 202.4 | 207.4 |
| 133 | Presente | 301.0 | 300.0 | 292.0 | 304.0 | 303.0 | 306.0 | 320.0 | 332.0 | 324.0 | 319.0 | 311.0 | 306.0 | 205.0 | 209.0 |
| 134 | Presente | 306.0 | 289.3 | 307.0 | 306.0 | 303.7 | 314.7 | 326.7 | 328.0 | 325.3 | 316.0 | 308.7 | 310.0 | 216.3 | 217.7 |
| 135 | Presente | 301.0 | 299.0 | 293.0 | 304.0 | 303.0 | 307.0 | 320.0 | 332.0 | 324.0 | 318.0 | 311.0 | 306.0 | 203.0 | 208.0 |
| 136 | Presente | 288.1 | 284.2 | 291.7 | 291.0 | 294.3 | 298.2 | 307.0 | 316.0 | 322.6 | 324.6 | 317.1 | 302.0 | 215.5 | 216.6 |
| 137 | Presente | 296.8 | 295.6 | 300.0 | 307.6 | 312.0 | 316.6 | 324.7 | 333.9 | 327.4 | 321.5 | 316.2 | 305.5 | 200.3 | 200.4 |
| 138 | Presente | 302.1 | 302.3 | 304.3 | 307.5 | 312.1 | 315.9 | 322.4 | 328.7 | 329.1 | 325.8 | 318.0 | 313.8 | 225.8 | 226.5 |
| 139 | Presente | 300.2 | 300.6 | 296.2 | 304.0 | 308.3 | 311.7 | 323.4 | 336.3 | 325.9 | 319.0 | 311.8 | 307.3 | 205.4 | 208.4 |
| 140 | Presente | 290.5 | 289.6 | 291.2 | 292.3 | 293.4 | 296.8 | 305.6 | 314.3 | 321.1 | 321.8 | 313.4 | 304.3 | 209.1 | 209.9 |
| 141 | Presente | 305.3 | 306.1 | 305.6 | 306.6 | 307.3 | 309.6 | 319.6 | 324.3 | 326.6 | 322.5 | 315.6 | 314.7 | 226.6 | 228.1 |
| 142 | Presente | 299.7 | 300.0 | 299.1 | 305.5 | 312.2 | 317.5 | 327.4 | 340.1 | 328.5 | 319.9 | 311.3 | 307.2 | 207.3 | 208.9 |
| 143 | Presente | 303.2 | 304.8 | 304.5 | 305.1 | 307.3 | 309.5 | 316.2 | 327.9 | 324.1 | 318.7 | 314.0 | 309.2 | 217.7 | 216.9 |
| 144 | Presente | 304.2 | 303.5 | 303.3 | 304.4 | 303.9 | 306.5 | 315.1 | 323.6 | 332.5 | 335.8 | 324.7 | 317.7 | 216.4 | 218.4 |
| 145 | Presente | 283.7 | 284.9 | 291.3 | 295.2 | 293.5 | 294.9 | 301.3 | 311.5 | 319.6 | 320.2 | 310.8 | 292.7 | 213.0 | 213.7 |
| 146 | Presente | 301.4 | 307.8 | 315.3 | 320.8 | 318.2 | 309.6 | 311.3 | 320.3 | 326.7 | 328.2 | 320.6 | 306.8 | 207.5 | 205.9 |
| 147 | Presente | 294.1 | 305.4 | 317.4 | 321.3 | 313.4 | 299.8 | 297.3 | 303.0 | 310.1 | 311.8 | 306.0 | 299.8 | 205.5 | 200.8 |
| 148 | Presente | 296.4 | 306.2 | 317.4 | 321.8 | 315.0 | 302.4 | 301.6 | 308.4 | 315.6 | 317.2 | 311.4 | 302.6 | 208.0 | 203.4 |
| 149 | Presente | 339.7 | 351.4 | 355.6 | 339.9 | 318.3 | 304.3 | 301.7 | 306.2 | 313.8 | 322.4 | 328.6 | 331.5 | 213.4 | 218.1 |
| 150 | Presente | 275.9 | 283.1 | 290.9 | 291.3 | 284.3 | 273.2 | 274.9 | 281.2 | 288.5 | 291.7 | 286.6 | 278.2 | 175.6 | 173.6 |
| 151 | Presente | 300.3 | 312.8 | 320.8 | 325.6 | 315.8 | 305.5 | 299.9 | 306.4 | 311.6 | 312.9 | 309.0 | 303.5 | 202.5 | 201.4 |
| 152 | Presente | 302.1 | 310.7 | 317.7 | 315.1 | 304.7 | 295.4 | 294.6 | 298.6 | 304.2 | 308.2 | 306.8 | 300.2 | 192.0 | 192.0 |
| 153 | Presente | 294.5 | 298.6 | 304.9 | 310.5 | 307.5 | 299.8 | 301.1 | 309.5 | 315.5 | 316.8 | 309.4 | 298.0 | 208.4 | 207.8 |
| 154 | Presente | 299.4 | 310.3 | 318.8 | 322.2 | 314.1 | 300.9 | 299.3 | 304.8 | 310.0 | 311.7 | 307.8 | 302.2 | 206.9 | 202.6 |
| 155 | Presente | 326.3 | 333.7 | 331.9 | 316.3 | 301.5 | 289.9 | 290.6 | 294.8 | 303.9 | 310.3 | 314.9 | 317.9 | 200.3 | 204.3 |
| 156 | Presente | 286.0 | 290.0 | 293.0 | 297.0 | 292.0 | 300.0 | 305.0 | 316.0 | 322.0 | 323.0 | 312.0 | 295.0 | 228.0 | 228.0 |
| 157 | Presente | 345.0 | 352.0 | 349.0 | 332.0 | 317.0 | 306.0 | 307.0 | 312.0 | 321.0 | 327.0 | 332.0 | 336.0 | 220.0 | 225.0 |
| 158 | Presente | 301.0 | 298.0 | 294.3 | 281.5 | 259.3 | 240.5 | 249.8 | 272.0 | 292.3 | 300.5 | 304.5 | 302.3 | 198.8 | 196.5 |
| 159 | Presente | 294.2 | 300.8 | 305.0 | 300.7 | 292.2 | 283.1 | 284.1 | 288.8 | 295.6 | 299.2 | 297.9 | 292.7 | 183.4 | 182.9 |
| 160 | Presente | 304.2 | 306.2 | 309.2 | 312.0 | 310.6 | 309.2 | 313.0 | 319.2 | 326.0 | 326.2 | 320.8 | 310.0 | 225.8 | 226.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 161 | Presente | 296.2 | 297.6 | 300.6 | 303.8 | 301.4 | 301.2 | 307.0 | 316.8 | 325.6 | 326.0 | 317.6 | 302.6 | 223.2 | 222.0 |
| 162 | Presente | 293.7 | 293.8 | 296.3 | 300.5 | 299.2 | 300.0 | 306.3 | 316.0 | 326.3 | 326.2 | 316.3 | 299.7 | 222.7 | 219.5 |
| 163 | Presente | 286.8 | 287.3 | 291.0 | 294.5 | 292.3 | 292.3 | 298.8 | 309.0 | 319.1 | 321.0 | 311.6 | 294.6 | 211.6 | 211.0 |
| 164 | Presente | 303.4 | 299.5 | 302.0 | 307.4 | 305.8 | 303.5 | 305.3 | 320.4 | 317.2 | 318.8 | 312.6 | 304.7 | 204.6 | 203.4 |
| 165 | Presente | 301.8 | 301.8 | 304.7 | 308.3 | 312.7 | 317.4 | 323.7 | 330.0 | 330.3 | 327.2 | 319.0 | 313.8 | 221.3 | 221.6 |
| 166 | Presente | 278.7 | 277.9 | 273.5 | 264.6 | 251.9 | 238.1 | 241.9 | 256.4 | 270.5 | 278.8 | 283.3 | 281.3 | 177.1 | 173.2 |
| 167 | Presente | 309.3 | 309.9 | 309.1 | 309.5 | 309.4 | 312.4 | 321.4 | 326.0 | 327.5 | 322.8 | 316.3 | 316.5 | 228.6 | 229.1 |
| 168 | Presente | 294.2 | 292.2 | 292.9 | 289.3 | 282.2 | 271.5 | 270.2 | 290.5 | 304.5 | 301.6 | 303.9 | 295.0 | 200.4 | 198.6 |
| 169 | Presente | 282.5 | 280.5 | 288.2 | 289.7 | 288.9 | 289.7 | 296.6 | 306.5 | 315.1 | 318.6 | 311.7 | 294.3 | 205.0 | 207.1 |
| 170 | Presente | 300.7 | 301.2 | 295.8 | 304.1 | 308.3 | 311.1 | 322.6 | 335.2 | 325.8 | 319.5 | 312.6 | 308.1 | 207.8 | 210.0 |
| 171 | Presente | 267.9 | 274.6 | 281.0 | 279.6 | 272.0 | 261.4 | 263.7 | 269.8 | 276.9 | 280.8 | 276.4 | 268.6 | 162.0 | 161.2 |
| 172 | Presente | 264.6 | 262.3 | 259.8 | 256.1 | 246.2 | 238.3 | 238.6 | 253.3 | 266.7 | 278.2 | 279.0 | 271.1 | 152.4 | 151.2 |
| 173 | Presente | 205.4 | 203.7 | 203.3 | 203.0 | 201.2 | 195.2 | 192.9 | 197.4 | 204.3 | 209.0 | 209.0 | 207.1 | 95.4 | 97.2 |
| 174 | Presente | 302.3 | 298.3 | 298.5 | 297.3 | 299.8 | 299.7 | 301.4 | 308.2 | 311.4 | 310.3 | 308.6 | 305.7 | 181.2 | 179.1 |
| 175 | Presente | 282.4 | 279.5 | 288.1 | 288.1 | 288.8 | 290.9 | 298.6 | 308.7 | 316.6 | 319.6 | 312.3 | 294.8 | 204.8 | 206.8 |
| 176 | Presente | 291.2 | 286.9 | 295.9 | 293.7 | 295.6 | 300.8 | 309.1 | 318.9 | 326.0 | 329.2 | 322.1 | 303.5 | 219.0 | 219.0 |
| 177 | Presente | 299.1 | 297.3 | 301.0 | 307.1 | 312.1 | 317.3 | 324.9 | 333.4 | 328.9 | 324.1 | 318.3 | 308.0 | 210.6 | 210.1 |
| 178 | Presente | 316.5 | 313.4 | 309.7 | 303.4 | 301.9 | 293.1 | 285.3 | 301.0 | 312.7 | 305.7 | 314.6 | 308.4 | * | 218.0 |
| 179 | Presente | 267.5 | 272.7 | 265.5 | 267.6 | 265.0 | 256.7 | 251.6 | 258.7 | 265.0 | 275.0 | 282.3 | 279.6 | 160.1 | 159.7 |
| 180 | Presente | 310.7 | 311.1 | 308.8 | 307.5 | 305.5 | 308.6 | 315.0 | 319.9 | 322.7 | 320.2 | 315.0 | 313.3 | 223.0 | 223.0 |
| 181 | Presente | 301.1 | 301.8 | 301.8 | 308.6 | 315.9 | 322.2 | 331.2 | 343.9 | 331.7 | 321.9 | 313.1 | 308.4 | 210.9 | 211.9 |
| 182 | Presente | 277.3 | 279.0 | 282.9 | 287.7 | 285.3 | 281.5 | 281.5 | 288.1 | 296.1 | 297.8 | 291.6 | 282.0 | 190.3 | 191.1 |
| 183 | Presente | 200.1 | 199.3 | 196.7 | 196.7 | 193.6 | 181.3 | 175.1 | 180.5 | 191.1 | 202.8 | 208.5 | 203.7 | 89.0 | 90.9 |
| 184 | Presente | 269.8 | 268.2 | 268.9 | 265.0 | 256.5 | 248.6 | 249.2 | 268.5 | 282.2 | 281.5 | 281.1 | 273.8 | 178.2 | 177.3 |
| 185 | Presente | 290.6 | 287.7 | 290.7 | 299.1 | 295.1 | 289.9 | 289.7 | 306.8 | 300.6 | 307.9 | 301.8 | 290.8 | 184.6 | 185.0 |
| 186 | Presente | 306.8 | 298.5 | 308.1 | 307.3 | 306.3 | 313.1 | 323.6 | 328.8 | 327.2 | 319.5 | 312.3 | 310.9 | 216.6 | 216.9 |
| 187 | Presente | 284.6 | 281.5 | 288.7 | 288.5 | 290.4 | 293.4 | 302.3 | 311.9 | 319.4 | 322.0 | 313.8 | 298.6 | 206.9 | 208.7 |
| 188 | Presente | 245.6 | 248.9 | 254.5 | 254.5 | 247.7 | 241.2 | 240.8 | 247.9 | 258.5 | 262.5 | 256.9 | 248.8 | 144.1 | 144.9 |
| 189 | Presente | 301.6 | 302.4 | 301.7 | 303.1 | 306.1 | 309.0 | 314.1 | 324.2 | 321.6 | 317.2 | 312.2 | 308.4 | 218.6 | 217.3 |
| 190 | Presente | 251.2 | 250.3 | 247.9 | 245.0 | 243.9 | 239.0 | 237.6 | 241.9 | 248.7 | 248.9 | 245.7 | 247.8 | 145.9 | 148.2 |
| 191 | Presente | 303.4 | 304.9 | 304.0 | 303.0 | 297.8 | 293.8 | 296.0 | 304.3 | 307.6 | 308.9 | 309.1 | 307.5 | 212.7 | 213.0 |
| 192 | Presente | 308.8 | 312.3 | 309.5 | 313.3 | 301.8 | 291.8 | 296.3 | 302.8 | 305.0 | 303.6 | 308.8 | 312.5 | 218.2 | 215.2 |
| 193 | Presente | 205.3 | 203.9 | 205.2 | 204.1 | 203.8 | 199.4 | 196.0 | 199.7 | 204.4 | 204.7 | 200.9 | 201.4 | 102.9 | 106.2 |
| 194 | Presente | 254.7 | 256.0 | 254.8 | 248.2 | 246.1 | 242.2 | 240.1 | 248.1 | 251.8 | 250.3 | 245.2 | 247.4 | 155.9 | 157.1 |
| 195 | Presente | 199.5 | 198.0 | 196.0 | 196.0 | 195.0 | 186.5 | 179.0 | 183.5 | 191.5 | 197.0 | 195.5 | 196.0 | 93.0 | 98.0 |
| 196 | Presente | 314.8 | 310.8 | 306.5 | 300.7 | 300.3 | 290.7 | 282.5 | 297.0 | 307.0 | 306.9 | 311.6 | 308.7 | 216.4 | 215.6 |
| 197 | Presente | 302.5 | 304.9 | 303.7 | 304.4 | 296.0 | 290.5 | 292.9 | 300.8 | 305.0 | 304.4 | 306.3 | 307.0 | 213.3 | 211.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 198 | Presente | 253.8 | 252.6 | 250.9 | 248.2 | 246.5 | 242.7 | 242.3 | 247.1 | 252.4 | 252.3 | 249.5 | 250.8 | 147.7 | 149.6 |
| 199 | Presente | 322.0 | 322.8 | 319.6 | 314.8 | 307.1 | 290.6 | 290.7 | 299.5 | 303.0 | 303.3 | 310.1 | 313.1 | 222.5 | 219.1 |
| 200 | Presente | 324.1 | 324.6 | 323.4 | 307.0 | 302.9 | 293.2 | 291.0 | 299.0 | 304.4 | 306.5 | 306.7 | 308.2 | 213.0 | 212.3 |
| 201 | Presente | 158.9 | 161.2 | 161.3 | 154.3 | 151.1 | 143.3 | 139.8 | 141.6 | 147.5 | 152.3 | 153.8 | 156.0 | 60.0 | 61.7 |
| 202 | Presente | 324.7 | 324.3 | 324.5 | 311.0 | 306.3 | 299.7 | 298.9 | 309.2 | 313.3 | 312.6 | 312.2 | 313.1 | 208.3 | 208.8 |
| 203 | Presente | 306.0 | 309.2 | 308.1 | 308.0 | 296.6 | 290.0 | 291.7 | 299.0 | 304.6 | 302.7 | 306.9 | 307.5 | 215.3 | 213.0 |
| 204 | Presente | 301.7 | 298.4 | 300.1 | 300.9 | 290.8 | 297.1 | 296.9 | 320.7 | 322.4 | 317.2 | 309.7 | 300.7 | 191.5 | 193.5 |
| 205 | Presente | 242.9 | 236.8 | 237.6 | 251.9 | 255.0 | 253.4 | 252.4 | 263.1 | 257.6 | 266.2 | 262.8 | 247.2 | 112.6 | 111.6 |
| 206 | Presente | 297.8 | 293.1 | 296.9 | 297.9 | 294.7 | 306.4 | 310.1 | 329.5 | 322.7 | 315.8 | 305.7 | 300.1 | 189.0 | 196.9 |
| 207 | Presente | 300.4 | 302.8 | 303.3 | 296.1 | 289.7 | 285.5 | 286.2 | 291.6 | 299.1 | 301.2 | 302.3 | 299.4 | 189.8 | 189.2 |
| 208 | Presente | 312.6 | 315.0 | 313.5 | 307.7 | 302.4 | 298.5 | 299.6 | 307.1 | 314.6 | 315.6 | 315.0 | 311.8 | 215.0 | 215.4 |
| 209 | Presente | 209.7 | 208.9 | 207.9 | 209.9 | 210.5 | 205.9 | 199.3 | 203.5 | 208.8 | 217.0 | 222.0 | 219.9 | 104.9 | 105.4 |
| 210 | Presente | 235.0 | 230.3 | 230.0 | 231.7 | 234.0 | 235.6 | 238.3 | 239.1 | 241.3 | 240.4 | 242.3 | 242.9 | 110.5 | 110.4 |
| 211 | Presente | 296.1 | 297.3 | 300.9 | 311.3 | 317.0 | 324.0 | 333.5 | 347.5 | 333.2 | 322.8 | 314.4 | 305.5 | 204.2 | 205.1 |
| 212 | Presente | 202.8 | 202.4 | 199.6 | 199.3 | 199.7 | 190.9 | 185.5 | 190.9 | 197.9 | 206.2 | 211.2 | 208.4 | 92.5 | 94.9 |
| 213 | Presente | 310.4 | 307.0 | 309.3 | 311.0 | 305.3 | 317.4 | 312.3 | 339.2 | 339.7 | 332.5 | 318.4 | 311.6 | 205.8 | 211.4 |
| 214 | Presente | 322.9 | 320.3 | 318.6 | 314.2 | 307.5 | 307.5 | 310.3 | 315.3 | 320.9 | 322.0 | 323.4 | 323.2 | 214.6 | 216.8 |
| 215 | Presente | 309.6 | 305.2 | 304.9 | 302.7 | 303.1 | 301.7 | 306.4 | 319.9 | 322.7 | 318.2 | 312.7 | 311.8 | 212.8 | 211.7 |
| 216 | Presente | 294.7 | 293.6 | 296.9 | 302.0 | 306.0 | 310.7 | 317.3 | 321.6 | 318.3 | 314.3 | 308.7 | 302.8 | 195.3 | 195.3 |
| 217 | Presente | 309.6 | 311.9 | 311.2 | 304.0 | 298.8 | 293.7 | 294.6 | 301.7 | 309.4 | 310.7 | 311.3 | 307.9 | 201.4 | 201.3 |
| 218 | Presente | 244.3 | 242.7 | 241.9 | 240.2 | 239.2 | 232.3 | 230.2 | 237.1 | 244.7 | 248.9 | 249.3 | 247.6 | 130.0 | 131.6 |
| 219 | Presente | 284.5 | 283.0 | 280.0 | 288.5 | 289.5 | 287.5 | 287.0 | 291.5 | 293.0 | 293.5 | 295.5 | 292.5 | 161.0 | 160.5 |
| 220 | Presente | 146.6 | 140.7 | 153.3 | 151.3 | 152.3 | 147.5 | 146.7 | 158.7 | 158.4 | 176.9 | 171.1 | 157.4 | 24.2 | 21.3 |
| 221 | Presente | 328.5 | 324.6 | 323.3 | 319.2 | 312.4 | 312.1 | 315.2 | 320.4 | 326.6 | 327.5 | 329.6 | 330.1 | 220.6 | 223.3 |
| 222 | Presente | 228.9 | 228.7 | 231.9 | 233.3 | 226.4 | 223.6 | 224.8 | 233.3 | 232.4 | 239.5 | 247.1 | 235.4 | 117.6 | 117.1 |
| 223 | Presente | 312.9 | 308.8 | 307.5 | 303.8 | 289.1 | 277.9 | 281.4 | 302.6 | 320.4 | 323.1 | 325.1 | 316.3 | 216.7 | 218.7 |
| 224 | Presente | 183.6 | 179.7 | 182.1 | 181.6 | 186.6 | 188.9 | 180.8 | 183.3 | 185.2 | 189.5 | 193.6 | 191.2 | 76.1 | 77.4 |
| 225 | Presente | 254.8 | 250.3 | 246.5 | 256.4 | 258.8 | 256.4 | 255.1 | 261.1 | 263.2 | 263.5 | 264.4 | 256.9 | 132.0 | 132.0 |
| 226 | Presente | 340.4 | 345.4 | 341.7 | 328.8 | 317.8 | 309.1 | 310.3 | 315.1 | 324.1 | 327.9 | 332.9 | 333.1 | 216.8 | 220.5 |
| 227 | Presente | 306.7 | 307.0 | 302.3 | 298.1 | 294.9 | 288.6 | 285.6 | 298.6 | 306.2 | 307.4 | 308.8 | 308.4 | 206.8 | 206.0 |
| 228 | Presente | 305.0 | 302.3 | 302.9 | 304.2 | 302.6 | 302.6 | 306.3 | 319.1 | 318.6 | 317.1 | 312.2 | 307.2 | 206.7 | 205.0 |
| 229 | Presente | 302.1 | 298.9 | 301.0 | 301.3 | 294.0 | 303.4 | 300.9 | 327.2 | 323.9 | 317.2 | 310.2 | 303.0 | 192.2 | 196.1 |
| 230 | Presente | 295.1 | 297.1 | 306.7 | 322.6 | 323.6 | 329.1 | 342.0 | 358.7 | 345.1 | 332.3 | 319.6 | 311.3 | 196.0 | 198.0 |
| 231 | Presente | 303.0 | 297.2 | 302.6 | 304.1 | 301.1 | 310.6 | 316.9 | 328.6 | 331.4 | 324.7 | 309.1 | 304.7 | 202.5 | 209.1 |
| 232 | Presente | 298.8 | 299.2 | 295.5 | 302.8 | 307.4 | 311.3 | 322.8 | 335.6 | 324.7 | 317.8 | 310.5 | 306.1 | 203.6 | 206.6 |
| 233 | Presente | 300.8 | 301.0 | 300.9 | 307.3 | 313.3 | 318.7 | 329.3 | 342.2 | 330.5 | 321.6 | 312.3 | 308.1 | 205.7 | 207.9 |
| 234 | Presente | 303.0 | 300.6 | 301.4 | 303.8 | 308.8 | 311.1 | 315.9 | 323.5 | 322.3 | 318.8 | 314.0 | 312.8 | 223.6 | 220.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 235 | Presente | 305.0 | 300.7 | 301.0 | 301.0 | 301.3 | 303.7 | 309.3 | 318.7 | 325.3 | 326.0 | 323.0 | 316.3 | 225.0 | 221.3 |
| 236 | Presente | 310.1 | 310.4 | 308.6 | 308.4 | 307.2 | 310.3 | 318.3 | 322.7 | 325.1 | 321.6 | 315.8 | 315.1 | 225.1 | 225.5 |
| 237 | Presente | 306.4 | 307.3 | 307.3 | 308.0 | 308.5 | 311.4 | 321.5 | 326.2 | 327.0 | 321.5 | 314.6 | 315.2 | 228.5 | 229.0 |
| 238 | Presente | 316.1 | 315.9 | 314.5 | 309.1 | 302.4 | 301.0 | 302.8 | 307.9 | 314.4 | 315.7 | 316.8 | 315.1 | 207.6 | 208.6 |
| 239 | Presente | 293.9 | 294.5 | 298.7 | 304.8 | 311.6 | 316.8 | 323.6 | 326.0 | 317.5 | 308.2 | 300.2 | 302.5 | 203.2 | 204.1 |
| 240 | Presente | 311.7 | 308.9 | 309.2 | 311.1 | 303.3 | 319.9 | 304.5 | 341.8 | 338.1 | 331.0 | 319.9 | 312.4 | 204.0 | 208.9 |
| 241 | Presente | 300.1 | 300.6 | 300.3 | 307.0 | 314.1 | 320.1 | 329.5 | 342.3 | 330.2 | 320.7 | 311.9 | 307.4 | 208.8 | 210.0 |
| 242 | Presente | 305.0 | 305.0 | 306.0 | 308.0 | 309.0 | 312.0 | 323.0 | 328.0 | 328.0 | 321.0 | 314.0 | 314.0 | 230.0 | 230.0 |
| 243 | Presente | 300.2 | 300.3 | 295.4 | 303.5 | 307.0 | 310.3 | 322.8 | 335.7 | 325.1 | 318.7 | 311.6 | 306.9 | 204.0 | 207.3 |
| 244 | Presente | 305.5 | 303.5 | 306.0 | 312.3 | 315.8 | 316.5 | 319.5 | 319.8 | 321.5 | 323.3 | 319.5 | 315.0 | 223.5 | 224.0 |
| 245 | Presente | 305.2 | 305.6 | 308.8 | 324.1 | 324.6 | 327.3 | 335.4 | 352.0 | 343.0 | 333.2 | 325.9 | 317.5 | 202.4 | 206.3 |
| 246 | Presente | 293.5 | 291.0 | 292.0 | 288.0 | 279.0 | 269.5 | 270.5 | 291.5 | 307.0 | 306.5 | 303.0 | 295.5 | 202.0 | 200.0 |
| 247 | Presente | 317.7 | 317.3 | 314.1 | 311.7 | 299.1 | 302.5 | 294.1 | 321.7 | 337.7 | 332.6 | 329.7 | 320.9 | 217.2 | 219.3 |
| 248 | Presente | 311.5 | 306.5 | 306.7 | 305.2 | 291.3 | 280.6 | 279.7 | 307.1 | 324.4 | 326.3 | 325.4 | 313.5 | 218.4 | 220.6 |
| 249 | Presente | 287.5 | 286.3 | 290.8 | 292.5 | 295.5 | 298.5 | 307.5 | 315.5 | 322.3 | 322.5 | 314.5 | 302.5 | 216.5 | 218.3 |
| 250 | Presente | 274.7 | 274.3 | 273.1 | 271.6 | 259.9 | 251.4 | 252.8 | 270.7 | 278.8 | 282.4 | 288.7 | 277.4 | 175.2 | 174.4 |
| 251 | Presente | 312.1 | 310.2 | 308.8 | 310.2 | 300.6 | 316.8 | 298.4 | 337.5 | 335.5 | 328.9 | 320.7 | 313.0 | 203.7 | 207.8 |
| 252 | Presente | 301.0 | 304.3 | 311.5 | 318.0 | 318.5 | 321.8 | 335.0 | 342.0 | 351.0 | 324.5 | 312.0 | 316.0 | 195.0 | 197.0 |
| 253 | Presente | 295.0 | 296.0 | 299.0 | 306.0 | 313.0 | 318.0 | 324.0 | 326.0 | 318.0 | 311.0 | 304.0 | 303.0 | 201.0 | 201.0 |
| 254 | Presente | 172.8 | 170.4 | 168.6 | 166.4 | 165.6 | 156.6 | 149.8 | 155.2 | 162.0 | 167.6 | 166.8 | 168.8 | 71.8 | 75.2 |
| 255 | Presente | 226.7 | 226.3 | 225.0 | 223.3 | 222.7 | 217.3 | 214.0 | 218.0 | 224.7 | 225.0 | 221.3 | 223.3 | 121.7 | 125.3 |
| 256 | Presente | 284.5 | 285.0 | 291.7 | 292.8 | 291.0 | 295.8 | 301.7 | 312.4 | 318.8 | 319.6 | 311.4 | 293.7 | 218.1 | 217.6 |
| 257 | Presente | 188.5 | 189.0 | 187.5 | 185.5 | 185.5 | 180.5 | 176.0 | 181.0 | 185.0 | 187.0 | 183.5 | 186.5 | 105.0 | 107.0 |
| 258 | Presente | 332.0 | 335.0 | 332.0 | 316.0 | 310.0 | 299.0 | 298.0 | 305.0 | 309.0 | 311.0 | 312.0 | 316.0 | 216.0 | 216.0 |
| 259 | Presente | 338.5 | 341.5 | 338.0 | 319.0 | 314.0 | 301.5 | 299.5 | 305.0 | 312.0 | 316.0 | 316.5 | 319.5 | 225.5 | 225.5 |
| 260 | Presente | 298.7 | 304.8 | 309.1 | 306.6 | 297.7 | 289.4 | 289.7 | 295.1 | 302.4 | 305.3 | 303.3 | 296.9 | 187.6 | 188.3 |
| 261 | Presente | 290.5 | 291.5 | 296.5 | 300.8 | 300.8 | 303.0 | 309.5 | 319.0 | 326.5 | 324.5 | 314.8 | 298.5 | 222.5 | 220.8 |
| 262 | Presente | 304.9 | 306.6 | 306.4 | 303.7 | 300.2 | 300.1 | 303.0 | 310.5 | 315.2 | 314.2 | 311.6 | 309.1 | 215.1 | 215.8 |
| 263 | Presente | 286.3 | 286.5 | 293.3 | 293.5 | 290.8 | 297.0 | 303.5 | 314.5 | 320.8 | 322.5 | 314.5 | 296.3 | 220.8 | 220.3 |
| 264 | Presente | 301.1 | 296.4 | 299.6 | 303.6 | 305.5 | 304.3 | 308.7 | 314.8 | 317.3 | 319.9 | 319.5 | 310.2 | 230.0 | 230.1 |
| 265 | Presente | 310.8 | 311.8 | 309.9 | 307.2 | 304.0 | 306.5 | 311.8 | 317.1 | 320.4 | 318.4 | 314.4 | 312.5 | 221.8 | 222.0 |
| 266 | Presente | 301.9 | 302.0 | 300.5 | 307.0 | 313.3 | 318.1 | 328.3 | 340.9 | 329.7 | 321.4 | 313.3 | 309.3 | 209.2 | 210.8 |
| 267 | Presente | 303.5 | 304.3 | 303.5 | 310.2 | 318.0 | 324.9 | 333.2 | 345.8 | 333.0 | 322.9 | 315.0 | 310.2 | 215.6 | 216.4 |
| 268 | Presente | 303.0 | 302.2 | 304.3 | 306.6 | 310.9 | 314.0 | 320.5 | 327.3 | 327.0 | 324.1 | 317.6 | 314.0 | 227.9 | 227.6 |
| 269 | Presente | 302.9 | 304.0 | 302.9 | 303.6 | 304.8 | 301.6 | 301.7 | 312.8 | 314.6 | 313.2 | 311.1 | 307.2 | 208.7 | 208.8 |
| 270 | Presente | 304.0 | 301.7 | 301.7 | 305.8 | 312.4 | 315.4 | 321.3 | 329.8 | 325.6 | 321.2 | 316.0 | 314.0 | 223.0 | 220.2 |
| 271 | Presente | 303.8 | 301.8 | 302.7 | 305.2 | 310.3 | 312.8 | 318.9 | 325.8 | 324.3 | 320.3 | 314.7 | 313.9 | 225.9 | 223.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 272 | Presente | 287.2 | 286.2 | 289.7 | 291.4 | 293.5 | 296.7 | 306.0 | 313.8 | 320.0 | 319.9 | 311.6 | 301.6 | 211.6 | 212.7 |
| 273 | Presente | 306.3 | 307.1 | 307.0 | 307.7 | 308.6 | 311.5 | 321.1 | 325.8 | 326.5 | 321.0 | 314.1 | 314.5 | 228.4 | 228.4 |
| 274 | Presente | 305.7 | 306.5 | 307.0 | 308.3 | 309.3 | 312.3 | 323.2 | 327.5 | 328.0 | 321.3 | 314.0 | 314.8 | 230.0 | 230.3 |
| 275 | Presente | 304.1 | 304.5 | 305.1 | 306.6 | 308.3 | 311.0 | 319.2 | 324.7 | 328.6 | 326.2 | 317.9 | 315.4 | 227.4 | 229.5 |
| 276 | Presente | 302.5 | 301.2 | 301.7 | 303.5 | 307.2 | 309.8 | 314.8 | 322.6 | 321.7 | 318.0 | 312.8 | 311.1 | 223.0 | 220.1 |
| 277 | Presente | 299.8 | 300.6 | 302.4 | 305.7 | 309.0 | 312.2 | 319.5 | 324.8 | 329.3 | 326.9 | 319.7 | 313.7 | 224.1 | 225.2 |
| 278 | Presente | 304.4 | 306.1 | 306.0 | 303.3 | 299.9 | 299.5 | 302.2 | 310.0 | 314.7 | 313.8 | 311.3 | 308.7 | 214.8 | 215.5 |
| 279 | Presente | 301.6 | 302.6 | 302.2 | 303.1 | 304.4 | 307.8 | 312.1 | 320.9 | 320.5 | 316.4 | 311.0 | 307.2 | 221.2 | 219.8 |
| 280 | Presente | 302.0 | 300.3 | 300.6 | 302.9 | 307.3 | 309.7 | 314.1 | 322.5 | 321.0 | 317.9 | 313.0 | 311.1 | 221.1 | 217.8 |
| 281 | Presente | 304.0 | 301.7 | 302.6 | 305.4 | 310.8 | 313.5 | 319.3 | 326.6 | 324.7 | 320.6 | 315.2 | 314.2 | 225.6 | 222.6 |
| 282 | Presente | 302.2 | 304.1 | 304.5 | 303.5 | 307.3 | 301.7 | 302.7 | 315.3 | 317.7 | 314.5 | 310.9 | 307.1 | 213.1 | 214.8 |
| 283 | Presente | 301.6 | 304.0 | 302.7 | 303.7 | 304.6 | 308.4 | 312.3 | 322.1 | 320.2 | 316.2 | 310.7 | 306.1 | 219.8 | 219.5 |
| 284 | Presente | 316.8 | 315.3 | 309.0 | 305.8 | 287.0 | 278.3 | 280.3 | 302.0 | 322.0 | 324.5 | 326.0 | 321.3 | 222.8 | 225.5 |
| 285 | Presente | 239.0 | 238.6 | 236.1 | 239.5 | 240.6 | 236.7 | 227.2 | 233.0 | 238.4 | 247.3 | 253.4 | 250.9 | 128.5 | 128.6 |
| 286 | Presente | 219.2 | 218.1 | 216.9 | 216.8 | 214.7 | 205.1 | 201.4 | 207.5 | 216.3 | 223.2 | 225.9 | 222.8 | 108.8 | 110.0 |
| 287 | Presente | 265.0 | 270.0 | 263.0 | 266.0 | 263.7 | 256.0 | 251.7 | 257.7 | 264.0 | 274.3 | 282.3 | 278.0 | 157.0 | 156.7 |
| 288 | Presente | 237.7 | 240.7 | 235.3 | 237.3 | 235.7 | 226.7 | 221.0 | 226.0 | 232.3 | 244.0 | 251.0 | 248.0 | 125.7 | 126.0 |
| 289 | Presente | 305.8 | 302.9 | 304.3 | 304.6 | 298.0 | 312.2 | 303.8 | 335.0 | 328.8 | 321.9 | 313.9 | 307.1 | 195.0 | 201.0 |
| 290 | Presente | 304.5 | 302.5 | 304.7 | 307.4 | 309.1 | 312.0 | 317.7 | 323.7 | 325.4 | 325.5 | 323.4 | 317.3 | 214.7 | 215.7 |
| 291 | Presente | 298.6 | 297.0 | 294.9 | 300.1 | 301.6 | 307.0 | 321.0 | 334.3 | 321.1 | 314.8 | 308.5 | 303.7 | 194.0 | 200.9 |
| 292 | Presente | 293.6 | 288.9 | 293.7 | 295.0 | 299.2 | 302.8 | 308.3 | 317.3 | 323.8 | 327.0 | 320.8 | 307.9 | 227.4 | 227.7 |
| 293 | Presente | 300.0 | 301.0 | 298.0 | 293.5 | 291.0 | 286.5 | 284.0 | 295.0 | 301.5 | 304.0 | 307.5 | 306.0 | 200.5 | 202.5 |
| 294 | Presente | 287.4 | 286.0 | 289.4 | 290.7 | 291.1 | 293.9 | 303.1 | 312.2 | 320.4 | 322.8 | 313.2 | 302.0 | 205.2 | 206.6 |
| 295 | Presente | 316.4 | 319.7 | 318.5 | 312.4 | 306.8 | 301.5 | 301.7 | 310.6 | 319.0 | 320.2 | 319.4 | 315.5 | 223.7 | 224.3 |
| 296 | Presente | 283.6 | 284.9 | 295.7 | 314.6 | 314.7 | 319.9 | 332.6 | 350.8 | 333.6 | 324.0 | 313.3 | 300.6 | 183.5 | 185.5 |
| 297 | Presente | 307.4 | 303.3 | 307.3 | 308.7 | 305.1 | 314.3 | 318.0 | 332.7 | 337.7 | 331.1 | 313.9 | 308.7 | 206.3 | 213.3 |
| 298 | Presente | 307.1 | 307.0 | 306.7 | 307.5 | 308.3 | 311.5 | 320.2 | 328.6 | 335.6 | 336.7 | 325.6 | 320.1 | 224.9 | 227.1 |
| 299 | Presente | 298.8 | 298.3 | 301.5 | 306.7 | 311.7 | 316.3 | 321.8 | 323.3 | 318.8 | 315.2 | 308.0 | 307.3 | 204.2 | 204.6 |
| 300 | Presente | 312.3 | 308.9 | 311.9 | 313.0 | 308.8 | 318.0 | 316.8 | 338.5 | 343.3 | 336.1 | 320.3 | 312.9 | 210.6 | 216.2 |
| 301 | Presente | 308.5 | 308.1 | 307.3 | 307.4 | 306.6 | 309.0 | 316.9 | 322.2 | 327.1 | 325.9 | 319.1 | 317.5 | 223.5 | 225.6 |
| 302 | Presente | 282.0 | 283.0 | 289.0 | 290.0 | 286.0 | 294.0 | 299.0 | 310.0 | 316.0 | 317.0 | 308.5 | 291.0 | 219.5 | 218.5 |
| 303 | Presente | 313.5 | 312.0 | 310.2 | 310.0 | 298.0 | 307.7 | 296.0 | 329.3 | 334.0 | 329.1 | 322.9 | 314.7 | 206.2 | 209.4 |
| 304 | Presente | 316.3 | 313.2 | 310.2 | 303.3 | 302.5 | 291.5 | 284.8 | 302.5 | 312.0 | 304.2 | 313.2 | 308.0 | 220.6 | 217.2 |
| 305 | Presente | 291.8 | 290.4 | 292.9 | 294.9 | 286.7 | 276.9 | 276.4 | 296.6 | 299.7 | 302.3 | 301.6 | 292.8 | 195.1 | 196.5 |
| 306 | Presente | 263.6 | 257.3 | 259.2 | 273.0 | 274.6 | 272.0 | 269.9 | 281.6 | 276.0 | 283.9 | 280.1 | 265.9 | 137.5 | 136.6 |
| 307 | Presente | 241.7 | 240.0 | 237.8 | 242.7 | 244.9 | 242.3 | 234.9 | 240.5 | 243.2 | 248.8 | 255.4 | 255.4 | 135.3 | 136.9 |
| 308 | Presente | 286.2 | 279.4 | 280.0 | 288.7 | 291.6 | 291.3 | 291.5 | 301.1 | 303.3 | 300.2 | 296.4 | 289.2 | 173.2 | 171.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 309 | Presente | 318.7 | 315.6 | 312.8 | 305.1 | 305.1 | 293.5 | 284.9 | 303.5 | 315.1 | 303.5 | 315.9 | 307.6 | 224.3 | 222.1 |
| 310 | Presente | 287.5 | 282.4 | 285.5 | 300.1 | 299.4 | 295.7 | 293.6 | 307.3 | 296.9 | 307.8 | 300.7 | 287.2 | 166.4 | 166.0 |
| 311 | Presente | 304.7 | 301.4 | 303.3 | 306.6 | 305.3 | 304.1 | 307.3 | 320.9 | 319.1 | 318.9 | 313.0 | 306.8 | 207.6 | 206.0 |
| 312 | Presente | 280.9 | 284.4 | 278.5 | 283.8 | 278.3 | 270.8 | 266.8 | 274.8 | 279.0 | 288.0 | 296.5 | 294.3 | 175.8 | 175.0 |
| 313 | Presente | 285.9 | 281.6 | 282.0 | 290.1 | 289.9 | 288.4 | 285.3 | 293.8 | 297.8 | 294.9 | 294.4 | 288.1 | 175.9 | 176.0 |
| 314 | Presente | 311.5 | 305.5 | 307.1 | 306.5 | 294.8 | 285.8 | 283.8 | 311.6 | 326.0 | 328.1 | 325.2 | 311.7 | 219.0 | 220.1 |
| 315 | Presente | 300.6 | 297.2 | 297.6 | 294.6 | 282.6 | 271.8 | 275.2 | 295.0 | 309.7 | 313.9 | 311.5 | 301.1 | 208.3 | 208.0 |
| 316 | Presente | 310.3 | 308.1 | 303.8 | 300.2 | 297.6 | 291.5 | 285.7 | 297.2 | 307.0 | 307.7 | 311.1 | 309.1 | 210.4 | 209.7 |
| 317 | Presente | 187.3 | 185.6 | 183.6 | 184.0 | 180.8 | 170.9 | 166.6 | 170.7 | 179.9 | 190.0 | 193.2 | 190.1 | 75.8 | 77.1 |
| 318 | Presente | 275.1 | 273.6 | 273.1 | 271.1 | 268.6 | 266.4 | 266.7 | 272.6 | 277.2 | 278.9 | 277.2 | 276.7 | 170.2 | 171.7 |
| 319 | Presente | 213.0 | 212.3 | 213.7 | 212.0 | 212.0 | 209.3 | 208.3 | 212.0 | 215.7 | 212.0 | 207.0 | 208.7 | 109.0 | 112.7 |
| 320 | Presente | 312.0 | 315.2 | 310.9 | 306.7 | 306.6 | 305.3 | 300.5 | 311.6 | 318.3 | 321.5 | 320.3 | 318.8 | 215.1 | 218.3 |
| 321 | Presente | 309.9 | 306.9 | 306.9 | 305.1 | 299.9 | 298.7 | 301.9 | 322.4 | 331.1 | 322.8 | 320.4 | 310.3 | 218.1 | 217.9 |
| 322 | Presente | 143.9 | 138.7 | 151.4 | 150.0 | 150.6 | 146.0 | 145.3 | 157.9 | 155.7 | 173.9 | 167.9 | 153.7 | 21.3 | 18.9 |
| 323 | Presente | 321.0 | 318.4 | 315.8 | 314.2 | 312.8 | 312.2 | 309.1 | 322.3 | 326.0 | 327.8 | 321.6 | 319.7 | 219.4 | 220.9 |
| 324 | Presente | 321.3 | 319.2 | 316.7 | 315.8 | 313.4 | 312.7 | 311.2 | 324.2 | 328.2 | 327.4 | 323.5 | 322.9 | 220.1 | 222.0 |
| 325 | Presente | 310.3 | 310.7 | 306.6 | 303.3 | 299.9 | 294.3 | 291.9 | 306.4 | 311.6 | 309.7 | 310.5 | 312.6 | 213.5 | 213.0 |
| 326 | Presente | 308.7 | 306.5 | 306.7 | 304.0 | 298.5 | 289.6 | 287.2 | 307.1 | 320.9 | 316.4 | 318.9 | 307.7 | 213.6 | 210.7 |
| 327 | Presente | 307.0 | 303.0 | 296.0 | 293.0 | 290.0 | 283.0 | 281.0 | 291.0 | 295.0 | 301.0 | 300.0 | 303.0 | 209.0 | 208.0 |
| 328 | Presente | 307.4 | 303.6 | 305.4 | 306.6 | 306.9 | 304.9 | 309.7 | 321.6 | 321.9 | 319.4 | 313.5 | 309.7 | 212.5 | 210.6 |
| 329 | Presente | 304.7 | 302.1 | 304.0 | 304.4 | 304.4 | 302.2 | 308.3 | 318.6 | 319.1 | 317.0 | 311.2 | 307.4 | 211.3 | 209.1 |
| 330 | Presente | 298.3 | 298.3 | 290.3 | 301.3 | 301.3 | 304.3 | 318.3 | 331.0 | 322.0 | 316.3 | 308.7 | 303.3 | 201.0 | 205.7 |
| 331 | Presente | 298.4 | 296.9 | 293.0 | 300.1 | 300.9 | 305.9 | 319.9 | 332.8 | 321.0 | 315.0 | 308.5 | 303.4 | 195.8 | 202.0 |
| 332 | Presente | 308.8 | 310.2 | 309.1 | 306.3 | 303.9 | 305.6 | 312.4 | 319.5 | 320.9 | 317.7 | 313.0 | 313.0 | 207.9 | 206.4 |
| 333 | Presente | 309.6 | 309.5 | 312.0 | 316.4 | 319.5 | 322.3 | 325.4 | 328.3 | 330.0 | 329.3 | 325.1 | 320.6 | 217.2 | 218.0 |
| 334 | Presente | 301.7 | 303.6 | 303.5 | 300.7 | 296.8 | 295.6 | 297.3 | 305.8 | 311.3 | 311.1 | 309.2 | 306.4 | 211.7 | 212.3 |
| 335 | Presente | 303.1 | 304.9 | 305.7 | 304.2 | 303.3 | 300.0 | 302.3 | 312.3 | 316.3 | 315.7 | 311.8 | 308.1 | 217.2 | 219.0 |
| 336 | Presente | 311.6 | 308.2 | 310.7 | 312.4 | 307.1 | 317.8 | 314.5 | 339.0 | 341.7 | 334.5 | 319.3 | 312.7 | 208.4 | 214.0 |
| 337 | Presente | 307.2 | 308.1 | 308.1 | 308.0 | 308.9 | 309.1 | 316.4 | 328.0 | 324.2 | 318.9 | 316.3 | 311.7 | 219.1 | 216.3 |
| 338 | Presente | 299.2 | 298.3 | 292.5 | 301.3 | 301.8 | 306.2 | 319.8 | 332.5 | 322.2 | 316.7 | 309.2 | 304.3 | 199.2 | 204.7 |
| 339 | Presente | 306.2 | 307.5 | 307.3 | 305.5 | 304.4 | 306.3 | 311.6 | 319.2 | 321.2 | 317.3 | 312.6 | 309.3 | 223.7 | 223.3 |
| 340 | Presente | 306.9 | 305.9 | 304.8 | 304.6 | 301.3 | 301.1 | 305.5 | 316.6 | 317.9 | 316.4 | 312.8 | 309.7 | 202.9 | 201.1 |
| 341 | Presente | 304.0 | 301.1 | 300.6 | 300.6 | 296.0 | 296.7 | 303.9 | 319.3 | 321.3 | 316.3 | 312.0 | 305.8 | 211.0 | 211.6 |
| 342 | Presente | 305.3 | 295.3 | 284.5 | 302.0 | 307.0 | 309.0 | 310.3 | 314.0 | 318.5 | 324.8 | 324.8 | 318.3 | 221.0 | 222.0 |
| 343 | Presente | 309.7 | 310.7 | 312.7 | 318.0 | 323.7 | 330.0 | 336.7 | 339.7 | 333.7 | 326.0 | 317.7 | 319.7 | 217.7 | 218.7 |
| 344 | Presente | 315.5 | 313.5 | 312.5 | 315.5 | 306.5 | 322.5 | 304.0 | 345.5 | 343.5 | 335.5 | 324.5 | 316.5 | 209.5 | 213.0 |
| 345 | Presente | 299.0 | 296.0 | 299.0 | 303.0 | 304.0 | 303.0 | 307.0 | 313.0 | 315.0 | 318.0 | 317.0 | 308.0 | 231.0 | 231.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 346 | Presente | 308.2 | 309.0 | 312.0 | 317.3 | 323.0 | 329.2 | 335.3 | 337.7 | 331.3 | 323.5 | 315.5 | 318.3 | 216.8 | 217.8 |
| 347 | Presente | 299.8 | 298.8 | 293.8 | 302.0 | 302.8 | 306.8 | 320.8 | 333.5 | 322.8 | 317.0 | 309.8 | 304.8 | 199.0 | 205.0 |
| 348 | Presente | 301.0 | 300.0 | 295.0 | 303.0 | 304.0 | 308.0 | 322.0 | 335.0 | 324.0 | 318.0 | 311.0 | 306.0 | 200.3 | 206.0 |
| 349 | Presente | 300.5 | 300.7 | 297.8 | 304.5 | 309.9 | 314.0 | 325.0 | 337.6 | 326.7 | 319.6 | 311.9 | 307.8 | 206.3 | 208.7 |
| 350 | Presente | 300.0 | 299.6 | 297.6 | 303.6 | 308.1 | 312.5 | 324.6 | 337.6 | 325.9 | 318.6 | 310.9 | 306.7 | 202.0 | 205.7 |
| 351 | Presente | 303.7 | 304.0 | 305.9 | 308.9 | 312.1 | 315.4 | 321.6 | 325.9 | 329.6 | 328.1 | 322.1 | 316.5 | 219.2 | 220.3 |
| 352 | Presente | 299.0 | 298.0 | 291.0 | 302.0 | 301.0 | 305.0 | 318.0 | 331.0 | 322.0 | 316.0 | 309.0 | 304.0 | 201.0 | 206.0 |
| 353 | Presente | 313.1 | 313.6 | 315.5 | 320.6 | 323.4 | 326.5 | 329.4 | 332.1 | 333.6 | 330.8 | 326.6 | 323.4 | 220.4 | 222.1 |
| 354 | Presente | 301.0 | 299.0 | 295.0 | 302.0 | 303.0 | 308.0 | 321.0 | 335.0 | 323.0 | 317.0 | 310.0 | 306.0 | 199.0 | 205.0 |
| 355 | Presente | 308.0 | 301.9 | 309.7 | 307.8 | 307.1 | 312.2 | 321.9 | 327.5 | 326.5 | 319.4 | 313.2 | 311.8 | 217.2 | 216.5 |
| 356 | Presente | 306.3 | 296.3 | 305.8 | 307.1 | 304.5 | 313.9 | 324.1 | 330.1 | 330.2 | 322.7 | 310.8 | 309.2 | 211.2 | 215.6 |
| 357 | Presente | 300.0 | 298.0 | 294.0 | 301.0 | 301.0 | 306.0 | 320.0 | 333.0 | 322.0 | 316.0 | 309.0 | 304.0 | 197.0 | 204.0 |
| 358 | Presente | 302.1 | 301.1 | 300.8 | 302.8 | 307.5 | 310.0 | 314.8 | 324.2 | 321.6 | 318.1 | 313.4 | 310.5 | 219.8 | 217.1 |
| 359 | Presente | 305.2 | 299.6 | 300.7 | 307.7 | 306.9 | 311.4 | 323.5 | 331.9 | 327.6 | 320.3 | 313.5 | 310.8 | 217.7 | 218.0 |
| 360 | Presente | 303.0 | 297.2 | 293.1 | 304.8 | 308.8 | 309.9 | 310.4 | 315.1 | 319.3 | 322.8 | 320.4 | 315.0 | 225.1 | 225.5 |
| 361 | Presente | 303.1 | 303.3 | 306.5 | 309.6 | 313.1 | 315.4 | 319.7 | 323.3 | 327.2 | 326.7 | 321.0 | 316.3 | 221.3 | 222.1 |
| 362 | Presente | 304.7 | 295.3 | 285.3 | 302.3 | 306.8 | 308.9 | 310.0 | 314.0 | 318.5 | 324.4 | 324.2 | 317.7 | 221.5 | 222.4 |
| 363 | Presente | 299.0 | 299.0 | 293.0 | 301.5 | 303.3 | 306.8 | 320.5 | 333.5 | 322.8 | 316.8 | 309.8 | 304.5 | 199.8 | 205.3 |
| 364 | Presente | 300.0 | 280.0 | 293.0 | 303.0 | 307.0 | 308.0 | 312.0 | 315.0 | 322.0 | 327.0 | 325.0 | 312.0 | 221.0 | 223.0 |
| 365 | Presente | 299.0 | 282.0 | 296.0 | 303.0 | 307.0 | 307.0 | 311.0 | 315.0 | 321.0 | 325.0 | 324.0 | 310.0 | 223.0 | 224.0 |
| 366 | Presente | 299.0 | 284.5 | 296.0 | 303.0 | 306.0 | 306.5 | 310.5 | 314.5 | 320.0 | 324.0 | 322.5 | 309.5 | 224.5 | 225.0 |
| 367 | Presente | 300.3 | 298.6 | 301.0 | 306.6 | 309.8 | 309.8 | 307.9 | 315.7 | 321.0 | 321.3 | 317.3 | 312.3 | 231.7 | 231.9 |
| 368 | Presente | 302.0 | 284.0 | 289.0 | 302.0 | 307.0 | 309.0 | 311.0 | 314.0 | 321.0 | 327.0 | 326.0 | 315.0 | 221.0 | 221.0 |
| 369 | Presente | 304.0 | 297.0 | 290.3 | 304.3 | 308.3 | 310.0 | 310.3 | 315.0 | 319.0 | 323.3 | 322.0 | 316.3 | 223.7 | 224.7 |
| 370 | Presente | 303.0 | 298.5 | 296.0 | 306.0 | 310.0 | 310.5 | 310.5 | 316.0 | 320.0 | 322.5 | 320.0 | 314.5 | 226.5 | 227.5 |
| 371 | Presente | 298.7 | 298.3 | 292.7 | 301.0 | 302.3 | 306.3 | 320.3 | 333.3 | 322.3 | 315.7 | 309.3 | 304.3 | 198.0 | 203.7 |
| 372 | Presente | 300.9 | 303.1 | 304.3 | 302.7 | 307.5 | 300.3 | 300.8 | 314.5 | 317.8 | 314.0 | 310.1 | 306.2 | 215.1 | 217.8 |
| 373 | Presente | 307.8 | 307.1 | 309.2 | 307.6 | 308.1 | 308.7 | 315.8 | 324.6 | 323.8 | 318.5 | 314.5 | 311.8 | 216.2 | 214.6 |
| 374 | Presente | 300.0 | 299.0 | 292.5 | 302.5 | 303.5 | 306.5 | 320.5 | 333.5 | 323.5 | 318.0 | 310.5 | 305.5 | 201.5 | 206.0 |
| 375 | Presente | 308.6 | 305.9 | 306.3 | 306.8 | 299.0 | 313.3 | 302.4 | 335.5 | 330.8 | 324.4 | 316.4 | 309.5 | 198.5 | 203.7 |
| 376 | Presente | 299.5 | 298.5 | 293.5 | 301.5 | 302.5 | 306.5 | 320.5 | 333.5 | 322.5 | 316.5 | 309.5 | 304.5 | 198.5 | 204.5 |
| 377 | Presente | 301.9 | 299.1 | 299.9 | 300.9 | 301.9 | 305.0 | 310.8 | 319.4 | 323.8 | 323.2 | 319.4 | 313.3 | 219.6 | 218.6 |
| 378 | Presente | 298.5 | 299.3 | 301.0 | 303.5 | 306.2 | 309.7 | 318.0 | 323.8 | 328.8 | 326.3 | 319.0 | 312.2 | 221.9 | 223.1 |
| 379 | Presente | 312.9 | 309.9 | 311.1 | 313.2 | 306.0 | 319.7 | 309.3 | 342.5 | 341.5 | 334.0 | 321.4 | 314.1 | 207.2 | 212.0 |
| 380 | Presente | 310.7 | 307.0 | 308.9 | 310.7 | 304.7 | 317.8 | 310.0 | 340.2 | 338.8 | 331.5 | 318.6 | 311.7 | 204.7 | 210.0 |
| 381 | Presente | 305.4 | 306.3 | 304.9 | 304.6 | 303.3 | 304.5 | 308.9 | 316.5 | 317.3 | 314.9 | 311.0 | 308.7 | 211.9 | 211.8 |
| 382 | Presente | 295.7 | 292.4 | 295.8 | 300.2 | 303.7 | 307.9 | 314.8 | 321.2 | 320.8 | 318.5 | 313.9 | 304.4 | 204.9 | 204.0 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 383 | Presente | 299.4 | 300.9 | 301.9 | 300.2 | 300.1 | 296.1 | 296.8 | 308.3 | 312.7 | 311.0 | 307.9 | 305.3 | 212.8 | 214.1 |
| 384 | Presente | 308.7 | 304.5 | 308.8 | 309.9 | 306.7 | 315.2 | 320.5 | 332.8 | 339.1 | 332.6 | 314.9 | 309.7 | 208.8 | 215.7 |
| 385 | Presente | 309.8 | 306.0 | 309.2 | 310.7 | 306.3 | 316.5 | 316.8 | 336.3 | 339.7 | 332.8 | 316.8 | 310.8 | 207.2 | 213.6 |
| 386 | Presente | 301.6 | 302.5 | 292.1 | 305.0 | 305.7 | 307.2 | 320.6 | 333.5 | 325.8 | 320.2 | 312.7 | 307.5 | 207.2 | 210.8 |
| 387 | Presente | 313.3 | 314.0 | 310.7 | 308.7 | 305.4 | 308.0 | 313.4 | 318.1 | 321.6 | 320.6 | 316.3 | 314.4 | 221.4 | 222.1 |
| 388 | Presente | 293.1 | 290.6 | 293.7 | 297.8 | 301.2 | 306.0 | 312.8 | 316.9 | 315.4 | 312.9 | 307.3 | 301.4 | 199.2 | 199.0 |
| 389 | Presente | 304.1 | 302.2 | 303.1 | 301.6 | 301.7 | 299.1 | 305.5 | 316.3 | 317.8 | 314.9 | 309.9 | 306.7 | 213.5 | 211.7 |
| 390 | Presente | 297.0 | 293.8 | 297.7 | 302.6 | 306.5 | 310.8 | 317.9 | 325.0 | 324.3 | 321.8 | 317.0 | 305.9 | 207.7 | 206.7 |
| 391 | Presente | 300.0 | 300.0 | 294.0 | 303.0 | 303.0 | 307.0 | 321.0 | 334.0 | 323.0 | 317.0 | 311.0 | 305.0 | 199.0 | 206.0 |
| 392 | Presente | 303.0 | 298.0 | 295.0 | 306.0 | 310.0 | 310.0 | 310.0 | 315.0 | 319.0 | 322.0 | 320.0 | 315.0 | 226.0 | 227.0 |
| 393 | Presente | 300.8 | 300.0 | 294.8 | 303.0 | 303.8 | 307.8 | 321.5 | 334.5 | 323.8 | 317.8 | 311.0 | 305.8 | 200.3 | 206.0 |
| 394 | Presente | 299.5 | 299.5 | 292.5 | 302.5 | 303.5 | 306.5 | 320.5 | 333.0 | 323.5 | 317.5 | 310.5 | 305.5 | 201.0 | 206.5 |
| 395 | Presente | 300.6 | 297.5 | 299.6 | 300.9 | 302.7 | 305.7 | 311.5 | 319.1 | 324.5 | 325.7 | 320.3 | 311.6 | 214.7 | 213.7 |
| 396 | Presente | 304.8 | 305.0 | 308.5 | 311.8 | 315.5 | 317.6 | 321.2 | 324.1 | 327.4 | 326.6 | 321.5 | 317.0 | 220.0 | 220.6 |
| 397 | Presente | 304.3 | 301.7 | 303.1 | 304.3 | 306.1 | 309.4 | 315.4 | 322.7 | 326.3 | 326.2 | 321.7 | 316.0 | 219.5 | 219.6 |
| 398 | Presente | 159.2 | 156.8 | 158.6 | 160.4 | 159.0 | 149.6 | 140.3 | 144.9 | 152.7 | 162.4 | 161.7 | 159.8 | 67.3 | 69.7 |
| 399 | Presente | 196.0 | 197.0 | 195.0 | 193.0 | 193.0 | 188.0 | 185.0 | 190.0 | 194.0 | 196.0 | 191.0 | 194.0 | 110.0 | 112.0 |
| 400 | Presente | 206.6 | 204.6 | 205.1 | 204.2 | 202.8 | 196.3 | 190.4 | 194.6 | 201.4 | 205.9 | 204.9 | 204.4 | 102.9 | 105.4 |
| 401 | Presente | 289.0 | 290.3 | 296.0 | 301.0 | 301.8 | 303.3 | 309.3 | 318.8 | 324.0 | 322.3 | 313.0 | 296.5 | 222.8 | 221.3 |
| 402 | Presente | 296.1 | 296.9 | 299.9 | 303.6 | 301.5 | 301.5 | 306.9 | 316.5 | 325.8 | 326.8 | 318.2 | 303.0 | 221.2 | 220.2 |
| 403 | Presente | 296.0 | 296.0 | 299.3 | 303.0 | 301.5 | 301.8 | 307.3 | 317.0 | 327.0 | 328.0 | 319.8 | 303.8 | 221.0 | 220.0 |
| 404 | Presente | 294.8 | 295.0 | 299.3 | 302.0 | 299.5 | 298.9 | 305.3 | 314.9 | 326.0 | 329.6 | 319.3 | 304.5 | 213.7 | 214.1 |
| 405 | Presente | 293.6 | 293.1 | 296.4 | 300.8 | 298.8 | 300.1 | 306.6 | 317.0 | 326.5 | 327.7 | 317.8 | 300.5 | 221.5 | 218.7 |
| 406 | Presente | 304.3 | 306.4 | 310.0 | 312.0 | 310.5 | 308.8 | 312.2 | 320.2 | 328.1 | 330.1 | 323.5 | 311.4 | 221.6 | 221.6 |
| 407 | Presente | 278.2 | 279.4 | 286.2 | 289.3 | 287.8 | 289.9 | 295.1 | 305.9 | 312.4 | 313.1 | 304.5 | 287.3 | 210.2 | 210.8 |
| 408 | Presente | 284.9 | 285.7 | 292.0 | 292.2 | 289.5 | 296.1 | 302.1 | 313.3 | 319.4 | 321.0 | 312.6 | 294.5 | 220.6 | 220.0 |
| 409 | Presente | 280.4 | 279.2 | 287.9 | 287.8 | 287.0 | 290.7 | 296.8 | 307.7 | 314.3 | 316.1 | 308.9 | 290.2 | 209.9 | 210.4 |
| 410 | Presente | 331.5 | 336.8 | 332.9 | 317.3 | 307.2 | 296.0 | 293.2 | 297.7 | 305.8 | 308.8 | 314.0 | 314.1 | 224.6 | 225.3 |
| 411 | Presente | 299.2 | 300.3 | 304.0 | 306.7 | 304.8 | 304.2 | 309.3 | 318.0 | 325.8 | 326.8 | 319.2 | 305.3 | 223.7 | 223.0 |
| 412 | Presente | 319.5 | 326.6 | 324.1 | 310.7 | 300.1 | 295.2 | 293.6 | 300.7 | 310.7 | 310.6 | 314.3 | 312.0 | 209.1 | 211.6 |
| 413 | Presente | 299.9 | 299.1 | 299.7 | 302.5 | 300.4 | 303.1 | 311.8 | 322.1 | 334.8 | 341.3 | 326.5 | 316.2 | 205.6 | 207.6 |
| 414 | Presente | 291.6 | 292.4 | 296.4 | 299.8 | 298.9 | 301.3 | 308.4 | 318.1 | 326.3 | 325.2 | 315.7 | 299.1 | 222.1 | 220.4 |
| 415 | Presente | 311.1 | 308.5 | 307.4 | 307.3 | 292.0 | 294.9 | 293.9 | 320.2 | 329.3 | 326.0 | 319.8 | 309.5 | 199.5 | 201.3 |
| 416 | Presente | 310.0 | 304.8 | 311.9 | 310.3 | 309.3 | 315.8 | 325.3 | 330.7 | 336.0 | 328.6 | 315.2 | 312.6 | 216.8 | 220.1 |
| 417 | Presente | 317.0 | 315.3 | 309.0 | 305.4 | 286.7 | 278.6 | 279.5 | 302.1 | 321.6 | 324.8 | 327.0 | 322.6 | 222.0 | 225.9 |
| 418 | Presente | 305.5 | 303.0 | 304.0 | 311.5 | 315.5 | 316.0 | 319.0 | 320.0 | 322.0 | 323.0 | 320.0 | 315.5 | 223.0 | 224.0 |
| 419 | Presente | 314.6 | 313.5 | 311.6 | 309.4 | 294.8 | 297.3 | 293.5 | 320.5 | 332.6 | 329.6 | 325.2 | 316.8 | 209.3 | 211.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 420 | Presente | 314.5 | 310.5 | 307.5 | 302.0 | 286.0 | 278.0 | 280.0 | 300.5 | 317.5 | 321.5 | 324.5 | 318.5 | 213.5 | 215.5 |
| 421 | Presente | 315.3 | 312.1 | 314.3 | 312.7 | 305.6 | 303.6 | 300.7 | 326.7 | 335.6 | 331.2 | 325.8 | 315.9 | 221.0 | 219.5 |
| 422 | Presente | 256.0 | 261.0 | 255.5 | 259.5 | 257.5 | 249.0 | 244.5 | 250.5 | 256.5 | 267.0 | 275.5 | 270.5 | 147.0 | 146.0 |
| 423 | Presente | 317.0 | 315.0 | 309.0 | 306.0 | 287.0 | 278.7 | 280.0 | 302.0 | 322.0 | 325.0 | 327.0 | 321.7 | 222.7 | 225.7 |
| 424 | Presente | 257.7 | 256.0 | 255.9 | 253.6 | 251.4 | 249.1 | 249.9 | 255.1 | 258.9 | 259.6 | 257.0 | 256.6 | 150.1 | 152.0 |
| 425 | Presente | 317.5 | 315.5 | 314.5 | 310.5 | 299.5 | 292.0 | 296.5 | 315.5 | 336.0 | 331.5 | 330.5 | 322.5 | 221.5 | 223.5 |
| 426 | Presente | 172.6 | 168.0 | 169.3 | 178.6 | 179.0 | 175.8 | 174.3 | 185.2 | 183.2 | 197.7 | 192.9 | 178.1 | 37.8 | 39.4 |
| 427 | Presente | 132.0 | 128.0 | 128.0 | 136.0 | 139.0 | 135.0 | 134.0 | 144.0 | 145.0 | 158.0 | 155.0 | 141.0 | 0.0 | 3.0 |
| 428 | Presente | 234.2 | 232.5 | 230.3 | 235.3 | 237.6 | 234.6 | 228.4 | 233.2 | 235.8 | 241.1 | 247.3 | 248.0 | 128.7 | 130.4 |
| 429 | Presente | 260.2 | 256.4 | 259.3 | 273.7 | 272.8 | 269.8 | 269.1 | 283.6 | 271.7 | 285.2 | 276.5 | 261.0 | 133.3 | 133.1 |
| 430 | Presente | 211.2 | 206.0 | 202.4 | 213.2 | 215.6 | 214.2 | 213.2 | 218.0 | 217.8 | 220.6 | 222.8 | 215.4 | 85.4 | 87.6 |
| 431 | Presente | 199.7 | 195.7 | 196.7 | 196.3 | 202.0 | 207.1 | 194.5 | 197.9 | 199.4 | 203.8 | 208.0 | 206.3 | 86.5 | 87.6 |
| 432 | Presente | 302.3 | 303.9 | 308.1 | 310.3 | 309.3 | 303.8 | 304.3 | 311.1 | 321.4 | 325.2 | 318.6 | 309.5 | 214.7 | 215.2 |
| 433 | Presente | 317.1 | 315.0 | 314.0 | 309.1 | 294.9 | 284.5 | 291.9 | 309.4 | 331.9 | 329.8 | 329.9 | 322.0 | 222.1 | 224.9 |
| 434 | Presente | 268.2 | 274.9 | 281.4 | 280.1 | 272.4 | 261.8 | 264.1 | 270.2 | 277.3 | 281.2 | 276.7 | 268.9 | 162.5 | 161.7 |
| 435 | Presente | 294.5 | 294.7 | 298.6 | 301.3 | 298.8 | 298.9 | 306.0 | 315.9 | 326.8 | 329.9 | 319.0 | 305.0 | 213.0 | 213.8 |
| 436 | Presente | 241.1 | 240.0 | 237.6 | 243.4 | 245.4 | 241.1 | 236.4 | 240.9 | 243.7 | 248.9 | 254.9 | 257.9 | 140.1 | 143.3 |
| 437 | Presente | 308.0 | 312.2 | 305.8 | 308.3 | 302.2 | 294.8 | 291.8 | 301.3 | 305.3 | 310.0 | 316.0 | 316.9 | 208.2 | 207.8 |
| 438 | Presente | 317.3 | 312.6 | 311.5 | 307.8 | 308.0 | 307.6 | 310.4 | 323.6 | 327.7 | 324.0 | 318.4 | 318.1 | 213.2 | 212.4 |
| 439 | Presente | 305.6 | 308.9 | 306.0 | 306.7 | 300.1 | 294.5 | 297.1 | 303.9 | 307.0 | 308.5 | 309.7 | 311.6 | 213.9 | 213.8 |

| Código | Modelo | Tmin 03 | Tmin 04 | Tmin 05 | Tmin 06 | Tmin 07 | Tmin 08 | Tmin 09 | Tmin 10 | Tmin 11 | Tmin 12 | Prec 01 | Prec 02 | Prec 03 | Prec 04 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HE | 257.6 | 252.2 | 256.6 | 253.5 | 245.7 | 254.4 | 222.6 | 266.3 | 262.6 | 260.3 | 252.4 | 263.1 | 303.8 | 264.4 |
| 2 | HE | 257.9 | 256.5 | 257.2 | 255.7 | 249.4 | 256.5 | 230.0 | 273.0 | 270.3 | 264.4 | 299.2 | 290.0 | 333.4 | 321.9 |
| 3 | HE | 87.6 | 82.0 | 68.1 | 47.3 | 42.5 | 56.4 | 53.6 | 85.7 | 85.9 | 86.8 | 196.8 | 187.5 | 173.9 | 75.5 |
| 4 | HE | 260.2 | 258.5 | 258.6 | 259.7 | 250.0 | 259.4 | 232.1 | 272.6 | 267.0 | 263.7 | 266.5 | 268.2 | 316.0 | 283.9 |
| 5 | HE | 224.9 | 223.8 | 225.3 | 219.1 | 214.4 | 216.0 | 202.7 | 233.9 | 230.4 | 231.1 | 166.1 | 152.2 | 225.0 | 180.8 |
| 6 | HE | 252.0 | 253.5 | 247.9 | 241.9 | 234.1 | 246.1 | 233.1 | 261.3 | 255.7 | 254.9 | 169.5 | 192.0 | 223.6 | 183.0 |
| 7 | HE | 258.7 | 256.8 | 259.2 | 256.8 | 249.7 | 257.2 | 230.1 | 274.4 | 272.4 | 265.3 | 274.6 | 266.6 | 330.5 | 309.5 |
| 8 | HE | 153.3 | 154.1 | 157.7 | 155.4 | 152.3 | 153.4 | 131.3 | 156.1 | 151.1 | 153.3 | 106.1 | 108.0 | 158.4 | 202.1 |
| 9 | HE | 254.5 | 247.6 | 232.0 | 216.5 | 209.9 | 222.6 | 222.5 | 255.4 | 257.1 | 259.9 | 298.9 | 230.4 | 198.9 | 141.1 |
| 10 | HE | 250.4 | 239.3 | 219.2 | 199.9 | 187.4 | 206.6 | 210.5 | 246.1 | 247.3 | 253.5 | 371.8 | 333.8 | 294.8 | 178.2 |
| 11 | HE | 263.7 | 266.5 | 265.4 | 267.7 | 271.6 | 274.0 | 257.1 | 267.5 | 267.7 | 264.6 | 354.2 | 306.6 | 304.9 | 334.6 |
| 12 | HE | 267.3 | 265.0 | 267.6 | 269.3 | 272.4 | 274.4 | 251.2 | 265.5 | 266.9 | 267.1 | 211.9 | 266.5 | 330.7 | 333.3 |
| 13 | HE | 284.5 | 274.6 | 267.8 | 261.7 | 264.7 | 270.3 | 250.5 | 291.3 | 285.3 | 276.8 | 84.3 | 68.1 | 123.5 | 229.1 |
| 14 | HE | 194.3 | 186.3 | 176.7 | 169.3 | 166.3 | 181.3 | 167.3 | 200.0 | 198.3 | 197.3 | 262.7 | 244.7 | 213.0 | 120.3 |
| 15 | HE | 264.5 | 256.5 | 265.2 | 266.2 | 269.7 | 269.3 | 252.2 | 267.5 | 268.5 | 265.2 | 193.0 | 263.9 | 350.8 | 349.4 |
| 16 | HE | 211.0 | 204.8 | 196.0 | 180.6 | 172.5 | 189.7 | 177.5 | 213.0 | 212.7 | 214.7 | 258.6 | 251.4 | 206.7 | 115.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | HE | 186.8 | 178.2 | 165.6 | 158.0 | 156.0 | 170.2 | 152.4 | 184.4 | 188.8 | 188.2 | 253.4 | 227.8 | 164.8 | 88.0 |
| 18 | HE | 269.0 | 272.0 | 269.0 | 270.0 | 278.0 | 282.0 | 261.0 | 273.0 | 273.0 | 271.0 | 270.0 | 194.0 | 213.0 | 292.0 |
| 19 | HE | 250.7 | 248.1 | 245.2 | 246.4 | 253.8 | 262.2 | 230.7 | 284.3 | 272.0 | 251.2 | 222.3 | 239.8 | 237.5 | 211.3 |
| 20 | HE | 258.5 | 246.6 | 233.1 | 226.7 | 222.5 | 248.2 | 234.3 | 268.6 | 264.0 | 246.6 | 273.9 | 288.9 | 227.7 | 170.3 |
| 21 | HE | 256.0 | 265.0 | 259.0 | 262.0 | 266.0 | 268.0 | 247.0 | 258.0 | 260.0 | 259.0 | 373.0 | 309.0 | 309.0 | 303.0 |
| 22 | HE | 254.6 | 253.0 | 245.8 | 244.4 | 247.0 | 252.8 | 231.6 | 281.8 | 276.2 | 257.8 | 196.2 | 224.0 | 215.8 | 129.4 |
| 23 | HE | 265.7 | 264.8 | 261.2 | 262.6 | 271.3 | 285.7 | 249.6 | 290.0 | 280.9 | 265.1 | 267.1 | 270.7 | 290.7 | 312.3 |
| 24 | HE | 264.7 | 249.7 | 236.7 | 230.7 | 228.3 | 254.7 | 240.7 | 274.7 | 269.7 | 249.3 | 275.0 | 292.0 | 226.0 | 165.7 |
| 25 | HE | 281.2 | 272.1 | 268.7 | 268.9 | 273.0 | 279.8 | 261.6 | 292.2 | 281.9 | 275.5 | 214.6 | 191.2 | 295.2 | 355.2 |
| 26 | HE | 285.2 | 277.0 | 271.6 | 271.4 | 276.3 | 284.2 | 267.4 | 295.3 | 284.7 | 276.7 | 191.2 | 152.3 | 234.1 | 314.4 |
| 27 | HE | 284.4 | 274.7 | 269.0 | 267.7 | 272.7 | 279.4 | 261.5 | 292.8 | 283.2 | 275.4 | 182.1 | 149.8 | 251.7 | 373.1 |
| 28 | HE | 293.2 | 288.8 | 281.3 | 280.6 | 287.4 | 296.2 | 272.1 | 313.5 | 300.6 | 284.1 | 159.3 | 169.8 | 234.1 | 245.5 |
| 29 | HE | 287.0 | 279.0 | 273.0 | 273.0 | 278.0 | 286.0 | 270.0 | 298.0 | 287.0 | 278.0 | 187.0 | 160.0 | 248.0 | 304.0 |
| 30 | HE | 275.5 | 274.7 | 270.9 | 271.2 | 278.2 | 291.9 | 257.6 | 301.7 | 293.0 | 277.1 | 93.4 | 115.2 | 196.5 | 253.5 |
| 31 | HE | 286.7 | 277.0 | 269.1 | 266.1 | 271.2 | 278.1 | 260.7 | 293.7 | 284.1 | 273.9 | 167.7 | 128.9 | 232.2 | 377.6 |
| 32 | HE | 255.0 | 264.0 | 260.0 | 261.3 | 265.7 | 268.3 | 247.0 | 259.7 | 260.0 | 259.0 | 350.3 | 279.7 | 290.0 | 281.7 |
| 33 | HE | 269.4 | 271.6 | 269.0 | 270.0 | 275.9 | 279.9 | 260.1 | 272.7 | 272.9 | 270.7 | 249.2 | 194.7 | 206.8 | 298.6 |
| 34 | HE | 263.5 | 255.5 | 241.0 | 235.5 | 238.5 | 265.5 | 252.5 | 286.5 | 273.5 | 254.5 | 290.0 | 289.5 | 289.0 | 183.5 |
| 35 | HE | 250.4 | 249.1 | 242.1 | 240.4 | 244.1 | 250.2 | 228.1 | 277.9 | 272.2 | 253.5 | 203.4 | 231.6 | 218.5 | 140.1 |
| 36 | HE | 265.4 | 263.0 | 259.9 | 250.1 | 244.8 | 256.2 | 240.1 | 281.8 | 268.1 | 256.8 | 256.5 | 241.4 | 229.3 | 196.7 |
| 37 | HE | 286.8 | 279.2 | 273.4 | 273.2 | 278.6 | 286.0 | 269.6 | 297.4 | 286.7 | 278.7 | 188.7 | 156.7 | 242.2 | 306.3 |
| 38 | HE | 225.7 | 219.3 | 210.7 | 198.3 | 190.0 | 207.0 | 192.7 | 227.0 | 228.7 | 230.0 | 255.3 | 241.3 | 205.0 | 120.0 |
| 39 | HE | 242.9 | 240.2 | 238.2 | 235.0 | 238.0 | 246.9 | 214.7 | 271.3 | 255.1 | 239.6 | 265.6 | 258.7 | 201.7 | 173.8 |
| 40 | HE | 282.2 | 271.5 | 265.6 | 260.2 | 262.7 | 267.6 | 245.7 | 287.8 | 281.8 | 275.1 | 87.9 | 78.0 | 143.4 | 257.0 |
| 41 | HE | 256.0 | 237.0 | 215.0 | 196.5 | 188.0 | 206.0 | 223.0 | 256.0 | 263.0 | 267.0 | 194.5 | 174.0 | 138.5 | 63.0 |
| 42 | HE | 243.5 | 223.5 | 201.5 | 188.5 | 173.5 | 192.0 | 211.0 | 228.5 | 241.5 | 251.5 | 319.0 | 255.0 | 142.0 | 90.5 |
| 43 | HE | 265.3 | 261.6 | 249.8 | 236.6 | 223.6 | 245.1 | 241.4 | 285.5 | 274.6 | 267.3 | 252.3 | 264.0 | 236.6 | 145.6 |
| 44 | HE | 262.7 | 259.0 | 245.0 | 229.0 | 216.0 | 241.0 | 238.0 | 281.0 | 274.0 | 268.0 | 255.0 | 252.3 | 224.7 | 124.7 |
| 45 | HE | 256.0 | 237.0 | 215.0 | 196.5 | 188.0 | 206.0 | 223.0 | 256.0 | 263.0 | 267.0 | 194.5 | 174.0 | 138.5 | 63.0 |
| 46 | HE | 254.1 | 246.7 | 232.2 | 215.9 | 206.3 | 219.6 | 222.5 | 254.5 | 256.9 | 258.8 | 289.6 | 224.1 | 188.3 | 137.5 |
| 47 | HE | 244.4 | 234.5 | 216.7 | 198.8 | 187.6 | 206.1 | 205.5 | 241.7 | 242.6 | 247.8 | 336.5 | 309.8 | 268.1 | 161.8 |
| 48 | HE | 243.5 | 238.0 | 224.8 | 214.3 | 209.9 | 222.8 | 215.4 | 247.8 | 249.0 | 251.9 | 374.1 | 344.8 | 296.2 | 186.2 |
| 49 | HE | 281.0 | 273.0 | 265.7 | 262.7 | 261.0 | 265.3 | 242.0 | 273.7 | 273.3 | 272.7 | 36.3 | 74.7 | 135.3 | 289.7 |
| 50 | HE | 166.5 | 156.3 | 144.4 | 133.2 | 130.6 | 144.8 | 131.6 | 165.1 | 167.5 | 169.2 | 251.5 | 227.7 | 178.2 | 94.2 |
| 51 | HE | 217.4 | 198.7 | 177.6 | 165.2 | 151.7 | 169.2 | 181.7 | 204.1 | 213.0 | 223.9 | 268.2 | 227.6 | 140.6 | 86.5 |
| 52 | HE | 256.7 | 238.6 | 214.0 | 196.6 | 182.9 | 203.4 | 221.1 | 248.3 | 254.5 | 262.1 | 380.4 | 321.0 | 267.6 | 167.4 |
| 53 | HE | 214.8 | 207.5 | 193.6 | 183.7 | 179.5 | 193.1 | 184.5 | 217.7 | 217.6 | 220.3 | 307.7 | 294.1 | 247.5 | 144.2 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | HE | 255.7 | 255.0 | 251.1 | 241.8 | 230.3 | 248.0 | 229.7 | 267.9 | 259.6 | 258.8 | 283.8 | 306.8 | 290.1 | 216.5 |
| 55 | HE | 254.9 | 253.1 | 252.0 | 254.6 | 251.3 | 259.0 | 229.0 | 267.1 | 261.9 | 259.0 | 227.1 | 242.4 | 315.0 | 299.4 |
| 56 | HE | 256.0 | 265.0 | 261.0 | 263.0 | 267.0 | 269.0 | 248.0 | 261.0 | 262.0 | 260.0 | 320.0 | 265.0 | 273.0 | 271.0 |
| 57 | HE | 255.0 | 264.0 | 260.0 | 262.0 | 266.0 | 267.0 | 247.0 | 260.0 | 261.0 | 259.0 | 335.0 | 270.0 | 280.0 | 274.0 |
| 58 | HE | 284.0 | 275.0 | 268.0 | 266.0 | 272.0 | 279.0 | 262.0 | 291.0 | 281.0 | 272.0 | 159.0 | 124.0 | 208.0 | 321.0 |
| 59 | HE | 259.0 | 257.0 | 235.0 | 225.0 | 213.0 | 235.0 | 229.0 | 269.0 | 262.0 | 257.0 | 258.0 | 247.0 | 219.0 | 170.0 |
| 60 | HE | 260.0 | 263.0 | 262.0 | 255.9 | 257.3 | 265.7 | 255.0 | 295.0 | 285.5 | 268.1 | 39.3 | 40.9 | 44.7 | 129.1 |
| 61 | HE | 261.6 | 264.7 | 267.9 | 266.7 | 264.2 | 269.2 | 262.8 | 273.7 | 268.7 | 264.0 | 78.8 | 27.2 | 29.8 | 48.4 |
| 62 | HE | 252.0 | 257.3 | 262.0 | 262.0 | 260.0 | 262.0 | 254.8 | 266.8 | 261.3 | 256.8 | 73.5 | 29.3 | 23.0 | 41.3 |
| 63 | HE | 246.8 | 254.0 | 259.3 | 263.3 | 261.8 | 260.5 | 259.5 | 257.5 | 257.0 | 254.8 | 208.8 | 110.5 | 102.5 | 104.0 |
| 64 | HE | 251.6 | 245.3 | 241.8 | 240.9 | 236.5 | 241.5 | 216.8 | 251.7 | 249.0 | 245.2 | 99.6 | 88.0 | 157.2 | 301.3 |
| 65 | HE | 257.0 | 261.0 | 258.0 | 251.0 | 255.0 | 256.0 | 244.0 | 259.0 | 259.0 | 257.0 | 172.0 | 73.0 | 68.0 | 147.0 |
| 66 | HE | 254.0 | 261.0 | 264.0 | 257.0 | 257.0 | 260.0 | 244.0 | 259.0 | 258.0 | 255.0 | 83.0 | 47.0 | 38.0 | 82.0 |
| 67 | HE | 175.6 | 174.8 | 176.8 | 172.7 | 169.4 | 164.2 | 150.1 | 181.0 | 177.3 | 173.8 | 116.1 | 101.9 | 155.7 | 147.6 |
| 68 | HE | 100.6 | 93.8 | 87.1 | 72.8 | 67.3 | 83.8 | 76.0 | 106.1 | 102.8 | 101.4 | 191.1 | 205.0 | 187.2 | 89.7 |
| 69 | HE | 197.4 | 198.5 | 194.8 | 190.8 | 183.9 | 193.8 | 179.4 | 204.0 | 202.6 | 198.0 | 394.7 | 383.7 | 322.8 | 199.9 |
| 70 | HE | 230.5 | 224.0 | 211.0 | 197.5 | 189.0 | 205.5 | 196.5 | 232.0 | 232.0 | 235.0 | 287.5 | 274.0 | 234.5 | 137.0 |
| 71 | HE | 262.9 | 263.4 | 257.9 | 249.6 | 250.4 | 257.9 | 249.0 | 291.3 | 284.8 | 266.3 | 86.4 | 61.1 | 98.3 | 228.1 |
| 72 | HE | 298.3 | 285.7 | 273.0 | 267.0 | 263.0 | 264.0 | 249.3 | 275.0 | 275.0 | 273.3 | 15.3 | 38.7 | 104.3 | 234.3 |
| 73 | HE | 298.0 | 285.5 | 273.0 | 267.0 | 263.0 | 264.0 | 249.0 | 275.0 | 275.0 | 273.0 | 15.5 | 39.0 | 105.5 | 235.5 |
| 74 | HE | 243.0 | 243.5 | 242.5 | 244.5 | 238.5 | 242.5 | 215.0 | 241.5 | 244.0 | 243.0 | 259.5 | 239.0 | 283.5 | 323.0 |
| 75 | HE | 240.4 | 240.4 | 232.4 | 214.5 | 201.1 | 222.2 | 209.0 | 253.2 | 246.9 | 242.8 | 245.3 | 238.2 | 217.6 | 180.6 |
| 76 | HE | 253.9 | 252.3 | 251.3 | 251.3 | 249.5 | 256.9 | 227.2 | 265.0 | 260.6 | 257.5 | 263.1 | 246.0 | 325.3 | 320.6 |
| 77 | HE | 256.1 | 255.6 | 252.0 | 252.3 | 258.4 | 266.1 | 237.9 | 258.1 | 258.9 | 255.2 | 208.0 | 211.7 | 261.5 | 227.2 |
| 78 | HE | 238.0 | 233.7 | 230.3 | 212.3 | 201.3 | 233.3 | 217.7 | 246.3 | 239.7 | 232.0 | 315.7 | 308.0 | 259.0 | 154.3 |
| 79 | HE | 240.0 | 225.3 | 229.0 | 209.2 | 213.3 | 216.3 | 205.6 | 246.2 | 236.4 | 228.4 | 408.0 | 326.5 | 251.9 | 168.1 |
| 80 | HE | 195.0 | 196.3 | 204.0 | 203.0 | 198.0 | 199.3 | 178.0 | 206.0 | 201.7 | 201.0 | 198.0 | 175.7 | 249.3 | 313.0 |
| 81 | HE | 164.0 | 165.7 | 170.3 | 169.3 | 166.3 | 167.3 | 144.7 | 170.3 | 166.0 | 167.3 | 163.0 | 144.3 | 209.7 | 265.7 |
| 82 | HE | 237.4 | 230.8 | 227.4 | 211.5 | 195.5 | 219.6 | 217.4 | 252.5 | 247.1 | 238.9 | 249.3 | 248.9 | 217.3 | 114.5 |
| 83 | HE | 248.6 | 251.1 | 250.1 | 250.4 | 256.5 | 265.8 | 243.0 | 258.4 | 254.2 | 250.5 | 124.3 | 88.7 | 129.5 | 269.5 |
| 84 | HE | 274.4 | 267.0 | 264.2 | 261.7 | 260.8 | 265.3 | 234.8 | 278.5 | 273.3 | 270.7 | 184.4 | 120.2 | 216.7 | 260.1 |
| 85 | HE | 241.6 | 225.0 | 201.9 | 186.4 | 194.8 | 209.2 | 211.5 | 246.1 | 243.8 | 236.6 | 316.4 | 299.2 | 224.7 | 106.4 |
| 86 | HE | 276.3 | 275.7 | 270.3 | 257.6 | 258.4 | 265.4 | 250.3 | 292.6 | 292.9 | 277.5 | 42.2 | 33.2 | 67.5 | 156.3 |
| 87 | HE | 261.3 | 260.5 | 254.8 | 250.7 | 252.6 | 260.2 | 250.6 | 286.4 | 277.7 | 262.2 | 100.1 | 80.2 | 143.9 | 270.4 |
| 88 | HE | 261.0 | 257.8 | 250.9 | 237.6 | 230.7 | 254.1 | 245.7 | 280.4 | 269.3 | 257.3 | 346.5 | 308.0 | 318.4 | 209.2 |
| 89 | HE | 282.9 | 279.0 | 271.4 | 268.8 | 274.4 | 282.2 | 266.7 | 299.3 | 289.8 | 275.7 | 126.8 | 119.5 | 261.9 | 313.5 |
| 90 | HE | 276.0 | 264.2 | 270.2 | 264.6 | 256.9 | 259.9 | 238.2 | 277.0 | 279.4 | 273.4 | 76.9 | 146.4 | 145.5 | 257.1 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | HE | 256.7 | 256.2 | 254.3 | 248.6 | 247.5 | 256.5 | 230.2 | 280.2 | 263.5 | 250.2 | 248.9 | 241.5 | 227.7 | 193.3 |
| 92 | HE | 274.1 | 271.5 | 266.4 | 259.8 | 256.7 | 267.8 | 251.2 | 289.5 | 274.9 | 263.9 | 242.9 | 195.9 | 215.9 | 240.6 |
| 93 | HE | 254.3 | 258.9 | 259.3 | 258.0 | 261.9 | 267.1 | 241.9 | 253.7 | 255.9 | 255.9 | 193.7 | 137.5 | 150.5 | 266.4 |
| 94 | HE | 267.6 | 258.5 | 253.7 | 250.5 | 249.7 | 255.2 | 225.9 | 271.0 | 265.2 | 260.8 | 80.8 | 71.7 | 130.2 | 215.0 |
| 95 | HE | 282.5 | 277.6 | 271.2 | 260.4 | 262.9 | 268.9 | 253.4 | 294.6 | 290.9 | 278.7 | 58.4 | 41.2 | 77.0 | 150.7 |
| 96 | HE | 262.7 | 260.8 | 258.1 | 256.6 | 246.6 | 261.7 | 245.7 | 281.3 | 269.8 | 260.0 | 331.5 | 288.3 | 305.0 | 253.8 |
| 97 | HE | 260.0 | 253.3 | 242.3 | 233.1 | 231.8 | 256.6 | 245.5 | 280.9 | 266.1 | 251.3 | 310.5 | 295.3 | 291.6 | 200.6 |
| 98 | HE | 237.1 | 234.0 | 230.6 | 231.8 | 239.7 | 247.0 | 216.8 | 269.6 | 256.9 | 236.8 | 215.8 | 234.4 | 232.5 | 205.9 |
| 99 | HE | 260.5 | 263.8 | 261.6 | 264.0 | 270.4 | 276.0 | 249.1 | 262.6 | 263.3 | 260.3 | 154.7 | 132.0 | 193.8 | 279.7 |
| 100 | HE | 267.7 | 265.7 | 261.9 | 251.5 | 244.5 | 257.4 | 243.1 | 284.0 | 270.7 | 258.9 | 258.7 | 236.5 | 230.0 | 195.8 |
| 101 | HE | 275.7 | 274.5 | 270.0 | 265.1 | 264.0 | 273.5 | 251.6 | 293.4 | 278.2 | 266.0 | 218.7 | 188.1 | 207.2 | 225.4 |
| 102 | HE | 265.9 | 266.3 | 262.0 | 258.9 | 258.7 | 268.5 | 241.2 | 290.2 | 273.6 | 259.2 | 224.1 | 197.0 | 217.9 | 217.0 |
| 103 | HE | 261.7 | 259.5 | 257.6 | 246.6 | 237.2 | 259.6 | 247.3 | 280.6 | 268.8 | 259.1 | 329.5 | 250.5 | 299.2 | 219.7 |
| 104 | HE | 261.1 | 254.0 | 244.9 | 242.5 | 235.4 | 254.6 | 240.1 | 279.8 | 267.3 | 253.0 | 243.9 | 271.4 | 264.5 | 207.7 |
| 105 | HE | 242.1 | 238.4 | 233.6 | 235.2 | 244.4 | 254.7 | 219.8 | 276.4 | 261.7 | 241.1 | 226.1 | 241.1 | 223.4 | 209.6 |
| 106 | HE | 273.0 | 271.9 | 267.8 | 262.0 | 259.5 | 269.1 | 248.6 | 290.3 | 275.2 | 263.5 | 236.8 | 205.7 | 216.5 | 230.8 |
| 107 | HE | 262.5 | 259.6 | 253.9 | 242.7 | 234.9 | 257.5 | 247.7 | 281.9 | 271.1 | 259.5 | 324.1 | 281.5 | 294.9 | 213.1 |
| 108 | HE | 256.1 | 250.8 | 250.8 | 238.3 | 235.4 | 244.3 | 228.1 | 270.7 | 257.9 | 247.6 | 285.1 | 278.9 | 236.0 | 178.5 |
| 109 | HE | 257.6 | 254.2 | 247.9 | 233.9 | 227.0 | 252.1 | 242.3 | 275.4 | 264.4 | 253.1 | 363.5 | 313.1 | 339.3 | 206.6 |
| 110 | HE | 261.2 | 259.7 | 258.5 | 246.5 | 236.1 | 256.0 | 241.4 | 279.7 | 268.2 | 257.8 | 317.1 | 255.5 | 259.7 | 193.4 |
| 111 | HE | 243.9 | 242.9 | 232.1 | 220.5 | 206.7 | 228.4 | 217.0 | 256.4 | 250.6 | 244.1 | 253.5 | 244.3 | 202.3 | 184.8 |
| 112 | HE | 245.3 | 241.2 | 232.4 | 228.2 | 218.7 | 238.4 | 224.4 | 259.7 | 252.8 | 242.5 | 254.7 | 295.4 | 321.6 | 195.5 |
| 113 | HE | 258.8 | 257.9 | 253.4 | 255.3 | 263.9 | 272.9 | 247.5 | 274.3 | 268.0 | 258.5 | 81.7 | 74.3 | 145.2 | 219.3 |
| 114 | HE | 280.8 | 276.8 | 271.2 | 265.9 | 264.7 | 275.1 | 258.9 | 294.8 | 279.8 | 269.4 | 230.8 | 189.0 | 233.5 | 276.6 |
| 115 | HE | 250.2 | 244.9 | 236.8 | 233.2 | 224.6 | 244.2 | 228.7 | 265.5 | 256.9 | 245.2 | 243.6 | 300.6 | 310.5 | 195.1 |
| 116 | HE | 259.6 | 263.4 | 260.3 | 247.3 | 246.2 | 252.1 | 235.2 | 276.3 | 279.9 | 265.1 | 35.4 | 26.4 | 54.8 | 133.1 |
| 117 | HE | 249.2 | 248.2 | 239.0 | 227.7 | 220.4 | 240.5 | 224.2 | 264.3 | 258.6 | 250.4 | 262.6 | 251.9 | 234.7 | 175.5 |
| 118 | HE | 244.2 | 242.8 | 231.3 | 221.0 | 206.4 | 228.9 | 218.4 | 256.8 | 250.8 | 244.5 | 256.7 | 246.2 | 201.3 | 186.5 |
| 119 | HE | 282.0 | 278.0 | 270.5 | 269.0 | 275.2 | 283.3 | 264.7 | 299.0 | 288.5 | 274.2 | 137.3 | 129.3 | 263.5 | 266.3 |
| 120 | HE | 267.5 | 267.8 | 259.9 | 255.3 | 259.4 | 274.3 | 242.4 | 298.6 | 282.8 | 263.5 | 183.3 | 152.3 | 189.7 | 209.4 |
| 121 | HE | 246.3 | 243.3 | 239.1 | 240.8 | 249.5 | 260.1 | 225.0 | 281.2 | 267.3 | 246.1 | 228.1 | 242.8 | 229.2 | 213.6 |
| 122 | HE | 266.5 | 264.7 | 264.6 | 264.6 | 260.5 | 268.5 | 238.7 | 279.5 | 270.5 | 263.2 | 297.6 | 258.0 | 343.3 | 321.7 |
| 123 | HE | 262.7 | 260.4 | 257.5 | 244.2 | 232.9 | 253.6 | 240.9 | 280.2 | 269.0 | 258.0 | 332.3 | 266.7 | 263.6 | 197.4 |
| 124 | HE | 264.5 | 263.6 | 261.8 | 262.7 | 252.8 | 263.2 | 243.8 | 281.3 | 270.5 | 261.6 | 318.1 | 283.6 | 337.4 | 285.2 |
| 125 | HE | 257.8 | 255.0 | 253.6 | 238.8 | 228.7 | 253.8 | 237.9 | 273.3 | 263.0 | 253.2 | 348.5 | 297.0 | 276.2 | 187.0 |
| 126 | HE | 286.7 | 280.8 | 271.6 | 268.6 | 274.2 | 282.0 | 265.4 | 299.1 | 289.8 | 275.3 | 132.9 | 114.2 | 236.5 | 272.5 |
| 127 | HE | 253.0 | 249.0 | 245.0 | 230.0 | 221.0 | 249.0 | 237.0 | 269.0 | 257.0 | 248.0 | 331.0 | 294.0 | 333.0 | 198.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 128 | HE | 251.0 | 247.0 | 245.0 | 228.0 | 220.0 | 248.0 | 235.0 | 265.0 | 254.0 | 245.0 | 306.0 | 305.0 | 317.0 | 197.0 |
| 129 | HE | 260.7 | 258.5 | 255.8 | 242.8 | 233.6 | 256.9 | 245.6 | 278.7 | 267.7 | 257.8 | 332.8 | 261.5 | 301.5 | 210.2 |
| 130 | HE | 263.0 | 256.0 | 244.8 | 238.0 | 238.1 | 264.0 | 251.0 | 285.3 | 273.0 | 256.0 | 309.1 | 286.1 | 294.0 | 198.9 |
| 131 | HE | 254.0 | 250.0 | 247.0 | 230.0 | 222.0 | 249.0 | 237.0 | 269.0 | 258.0 | 249.0 | 334.0 | 293.0 | 333.0 | 199.0 |
| 132 | HE | 252.0 | 248.2 | 244.2 | 228.6 | 220.4 | 248.2 | 236.2 | 267.2 | 255.8 | 246.6 | 327.6 | 292.6 | 332.0 | 198.2 |
| 133 | HE | 253.0 | 250.0 | 246.0 | 230.0 | 223.0 | 250.0 | 238.0 | 269.0 | 258.0 | 249.0 | 334.0 | 294.0 | 334.0 | 200.0 |
| 134 | HE | 263.0 | 254.0 | 240.0 | 235.0 | 237.0 | 263.3 | 251.0 | 285.3 | 272.3 | 253.0 | 286.0 | 284.7 | 279.0 | 189.0 |
| 135 | HE | 253.0 | 249.0 | 244.0 | 228.0 | 221.0 | 249.0 | 237.0 | 268.0 | 256.0 | 247.0 | 327.0 | 294.0 | 331.0 | 196.0 |
| 136 | HE | 252.5 | 257.8 | 258.1 | 255.5 | 258.0 | 261.7 | 238.2 | 249.4 | 251.5 | 252.9 | 209.2 | 141.0 | 145.0 | 274.3 |
| 137 | HE | 251.6 | 250.7 | 250.1 | 243.4 | 242.6 | 251.4 | 224.2 | 276.1 | 259.7 | 246.5 | 266.2 | 264.9 | 204.4 | 178.8 |
| 138 | HE | 256.1 | 253.4 | 252.6 | 237.7 | 227.8 | 254.1 | 238.9 | 271.1 | 260.8 | 252.0 | 358.8 | 308.1 | 307.6 | 208.7 |
| 139 | HE | 285.1 | 280.6 | 273.0 | 268.9 | 270.7 | 280.3 | 262.1 | 297.6 | 282.7 | 271.5 | 207.1 | 177.9 | 209.1 | 246.3 |
| 140 | HE | 254.4 | 255.8 | 253.6 | 255.5 | 263.4 | 271.5 | 246.0 | 264.4 | 260.8 | 255.8 | 110.3 | 86.2 | 138.6 | 239.2 |
| 141 | HE | 285.8 | 277.4 | 270.5 | 267.6 | 273.3 | 280.8 | 263.8 | 293.8 | 283.8 | 274.3 | 159.7 | 127.4 | 215.0 | 336.2 |
| 142 | HE | 258.1 | 255.0 | 252.9 | 238.6 | 228.4 | 251.7 | 236.9 | 274.0 | 263.7 | 253.1 | 340.1 | 281.3 | 263.4 | 187.2 |
| 143 | HE | 263.1 | 261.7 | 261.6 | 261.2 | 252.3 | 265.1 | 246.7 | 282.3 | 270.3 | 261.2 | 318.5 | 290.4 | 304.9 | 248.4 |
| 144 | HE | 276.0 | 272.2 | 264.1 | 260.1 | 264.1 | 272.2 | 259.6 | 296.3 | 287.2 | 270.5 | 112.8 | 94.5 | 206.0 | 332.2 |
| 145 | HE | 251.6 | 257.7 | 259.6 | 252.4 | 253.0 | 260.3 | 239.1 | 262.9 | 257.7 | 252.6 | 106.2 | 42.8 | 33.6 | 100.8 |
| 146 | HE | 249.6 | 256.5 | 261.2 | 258.1 | 255.2 | 258.5 | 244.7 | 272.8 | 268.3 | 256.9 | 21.5 | 16.0 | 23.5 | 53.4 |
| 147 | HE | 247.5 | 254.7 | 256.0 | 249.7 | 246.0 | 247.8 | 234.2 | 267.0 | 261.8 | 254.9 | 15.5 | 11.2 | 12.1 | 49.3 |
| 148 | HE | 250.8 | 256.6 | 258.0 | 252.2 | 248.6 | 251.2 | 237.4 | 269.8 | 265.4 | 256.0 | 18.8 | 13.6 | 16.2 | 51.2 |
| 149 | HE | 280.1 | 278.1 | 267.3 | 258.6 | 254.0 | 256.6 | 240.7 | 265.9 | 267.4 | 263.4 | 8.1 | 13.8 | 38.6 | 161.4 |
| 150 | HE | 220.0 | 226.7 | 230.9 | 225.4 | 221.1 | 223.4 | 207.5 | 241.7 | 240.7 | 231.1 | 23.3 | 18.7 | 32.6 | 88.6 |
| 151 | HE | 248.4 | 257.9 | 257.6 | 249.1 | 246.4 | 247.3 | 232.9 | 265.1 | 262.4 | 255.8 | 10.6 | 8.4 | 10.0 | 47.9 |
| 152 | HE | 246.5 | 252.3 | 249.7 | 243.8 | 238.8 | 241.7 | 223.8 | 252.1 | 253.0 | 245.8 | 35.9 | 20.5 | 33.5 | 135.0 |
| 153 | HE | 249.5 | 255.6 | 260.0 | 258.3 | 255.7 | 258.7 | 246.3 | 268.9 | 264.2 | 255.7 | 32.7 | 18.1 | 23.0 | 47.9 |
| 154 | HE | 251.1 | 258.7 | 258.6 | 250.1 | 246.3 | 246.1 | 232.0 | 264.7 | 262.9 | 258.0 | 13.1 | 11.0 | 16.7 | 60.5 |
| 155 | HE | 267.0 | 257.1 | 247.5 | 242.4 | 237.9 | 241.3 | 224.6 | 250.4 | 251.2 | 248.1 | 20.6 | 34.1 | 112.5 | 240.9 |
| 156 | HE | 257.0 | 261.0 | 258.0 | 250.0 | 254.0 | 256.0 | 243.0 | 259.0 | 259.0 | 257.0 | 170.0 | 72.0 | 65.0 | 142.0 |
| 157 | HE | 288.0 | 275.0 | 264.0 | 259.0 | 255.0 | 259.0 | 242.0 | 269.0 | 270.0 | 267.0 | 21.0 | 37.0 | 129.0 | 250.0 |
| 158 | HE | 224.3 | 207.0 | 187.0 | 177.5 | 161.0 | 182.0 | 197.8 | 213.0 | 225.0 | 233.8 | 197.3 | 176.0 | 115.0 | 124.3 |
| 159 | HE | 239.4 | 240.6 | 237.4 | 232.1 | 226.6 | 228.8 | 211.1 | 241.0 | 241.3 | 236.1 | 44.5 | 33.3 | 68.5 | 187.9 |
| 160 | HE | 261.2 | 265.2 | 266.0 | 265.0 | 267.6 | 274.6 | 267.6 | 280.4 | 273.2 | 262.8 | 61.0 | 20.6 | 15.6 | 50.4 |
| 161 | HE | 255.0 | 259.2 | 261.0 | 259.4 | 262.0 | 268.0 | 255.4 | 269.2 | 264.6 | 256.6 | 79.0 | 30.0 | 22.6 | 55.0 |
| 162 | HE | 252.0 | 257.8 | 260.3 | 258.2 | 260.3 | 265.0 | 251.5 | 266.5 | 262.3 | 255.0 | 74.7 | 29.8 | 26.8 | 58.7 |
| 163 | HE | 251.5 | 255.9 | 256.8 | 252.8 | 255.1 | 263.6 | 245.3 | 271.4 | 264.9 | 254.5 | 89.1 | 33.1 | 29.0 | 86.4 |
| 164 | HE | 240.6 | 240.6 | 232.3 | 219.5 | 211.0 | 231.0 | 214.5 | 255.1 | 249.2 | 242.6 | 258.2 | 226.4 | 230.2 | 183.2 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 165 | HE | 279.9 | 277.1 | 270.2 | 266.5 | 269.0 | 279.5 | 255.9 | 297.6 | 282.3 | 268.9 | 219.8 | 190.5 | 203.4 | 223.8 |
| 166 | HE | 202.0 | 184.1 | 164.0 | 153.9 | 139.7 | 156.6 | 166.4 | 189.2 | 196.1 | 207.7 | 220.7 | 206.3 | 132.9 | 96.2 |
| 167 | HE | 284.3 | 274.7 | 270.3 | 270.0 | 274.4 | 281.2 | 263.0 | 294.0 | 284.1 | 277.2 | 211.4 | 186.6 | 287.1 | 369.9 |
| 168 | HE | 231.9 | 226.6 | 216.8 | 207.0 | 202.9 | 215.6 | 204.1 | 236.6 | 237.2 | 239.5 | 516.3 | 489.6 | 402.3 | 251.1 |
| 169 | HE | 245.8 | 252.4 | 252.6 | 245.9 | 248.0 | 258.5 | 232.0 | 253.4 | 250.1 | 247.2 | 122.8 | 67.1 | 76.9 | 229.2 |
| 170 | HE | 258.0 | 255.8 | 255.0 | 241.3 | 231.4 | 255.9 | 241.2 | 274.4 | 263.6 | 254.6 | 362.2 | 302.4 | 326.3 | 224.9 |
| 171 | HE | 208.5 | 215.3 | 219.7 | 214.0 | 208.9 | 211.6 | 194.7 | 229.6 | 230.2 | 220.7 | 25.5 | 20.0 | 39.8 | 109.2 |
| 172 | HE | 180.1 | 162.7 | 142.1 | 124.9 | 113.8 | 133.4 | 140.4 | 181.0 | 179.7 | 188.8 | 352.1 | 304.9 | 259.8 | 126.7 |
| 173 | HE | 137.1 | 139.1 | 138.1 | 136.0 | 132.2 | 133.2 | 110.2 | 134.9 | 133.5 | 133.6 | 123.6 | 132.0 | 165.5 | 173.2 |
| 174 | HE | 216.6 | 217.0 | 215.7 | 208.7 | 203.0 | 212.3 | 196.4 | 222.7 | 221.1 | 223.0 | 250.6 | 244.1 | 274.9 | 222.3 |
| 175 | HE | 246.0 | 253.0 | 252.8 | 246.0 | 247.4 | 256.8 | 230.5 | 248.5 | 246.8 | 245.5 | 132.8 | 74.5 | 85.0 | 226.2 |
| 176 | HE | 249.4 | 253.9 | 254.6 | 250.3 | 249.9 | 249.1 | 231.8 | 242.3 | 244.9 | 248.8 | 233.6 | 133.5 | 139.4 | 300.8 |
| 177 | HE | 264.4 | 263.9 | 261.0 | 255.4 | 253.3 | 262.3 | 238.8 | 285.0 | 269.1 | 256.5 | 257.2 | 239.2 | 258.6 | 224.8 |
| 178 | HE | 257.3 | 254.2 | 254.9 | 251.8 | 245.3 | 250.0 | 224.4 | 263.6 | 262.4 | 262.3 | 127.4 | 162.0 | 234.8 | 266.3 |
| 179 | HE | 198.9 | 199.0 | 205.9 | 204.9 | 200.5 | 201.9 | 180.1 | 208.3 | 204.5 | 203.9 | 196.8 | 175.3 | 249.0 | 306.7 |
| 180 | HE | 274.7 | 263.4 | 261.5 | 262.6 | 266.2 | 271.4 | 247.1 | 285.7 | 275.4 | 270.9 | 206.5 | 184.0 | 305.2 | 409.5 |
| 181 | HE | 261.7 | 258.4 | 255.1 | 240.6 | 230.9 | 251.0 | 239.0 | 277.5 | 267.2 | 255.7 | 336.9 | 267.3 | 261.9 | 199.4 |
| 182 | HE | 231.9 | 238.7 | 244.6 | 239.5 | 239.6 | 246.3 | 234.1 | 263.4 | 255.5 | 242.5 | 120.1 | 98.5 | 83.7 | 145.5 |
| 183 | HE | 130.1 | 131.7 | 132.7 | 129.0 | 125.2 | 124.6 | 103.0 | 127.2 | 124.9 | 125.4 | 88.4 | 99.6 | 122.8 | 165.8 |
| 184 | HE | 210.5 | 203.1 | 190.6 | 180.3 | 176.8 | 190.6 | 181.3 | 214.1 | 214.2 | 216.3 | 335.8 | 317.4 | 268.1 | 157.6 |
| 185 | HE | 218.6 | 216.4 | 207.3 | 199.1 | 194.5 | 210.5 | 193.6 | 228.9 | 225.5 | 221.3 | 340.9 | 322.1 | 291.1 | 212.4 |
| 186 | HE | 263.4 | 257.1 | 247.0 | 243.8 | 239.4 | 259.9 | 247.2 | 284.9 | 270.6 | 255.9 | 286.0 | 270.8 | 259.5 | 204.3 |
| 187 | HE | 248.3 | 253.7 | 253.5 | 250.3 | 253.8 | 262.4 | 236.0 | 249.7 | 249.5 | 248.7 | 151.9 | 101.7 | 125.2 | 270.6 |
| 188 | HE | 186.4 | 193.3 | 199.6 | 195.9 | 193.1 | 198.6 | 180.6 | 214.6 | 211.8 | 199.9 | 37.8 | 34.7 | 52.3 | 89.3 |
| 189 | HE | 263.6 | 261.6 | 264.3 | 264.7 | 258.2 | 268.5 | 249.3 | 284.6 | 272.1 | 263.2 | 311.1 | 275.3 | 333.8 | 308.1 |
| 190 | HE | 188.7 | 188.9 | 189.2 | 188.4 | 183.7 | 186.5 | 158.6 | 185.2 | 186.7 | 188.3 | 122.1 | 136.7 | 208.1 | 260.7 |
| 191 | HE | 257.1 | 253.8 | 255.1 | 254.1 | 248.0 | 257.8 | 227.0 | 266.8 | 262.7 | 258.5 | 273.4 | 269.7 | 319.3 | 279.2 |
| 192 | HE | 261.7 | 257.0 | 261.9 | 256.5 | 253.8 | 258.0 | 234.1 | 273.1 | 278.7 | 265.6 | 313.8 | 321.2 | 376.7 | 327.6 |
| 193 | HE | 144.1 | 146.3 | 148.9 | 147.8 | 143.3 | 144.7 | 116.4 | 140.6 | 142.4 | 142.3 | 114.7 | 118.0 | 160.6 | 202.2 |
| 194 | HE | 201.2 | 199.5 | 199.2 | 195.9 | 187.6 | 190.6 | 170.4 | 193.3 | 197.7 | 201.4 | 80.3 | 97.9 | 143.5 | 208.7 |
| 195 | HE | 139.0 | 139.0 | 141.5 | 140.5 | 133.5 | 135.5 | 107.0 | 136.0 | 137.5 | 136.5 | 106.5 | 127.0 | 194.5 | 238.5 |
| 196 | HE | 255.6 | 253.2 | 252.9 | 250.9 | 244.5 | 249.5 | 224.4 | 260.8 | 258.3 | 259.6 | 117.7 | 162.0 | 248.6 | 308.7 |
| 197 | HE | 256.6 | 253.6 | 255.4 | 252.9 | 249.9 | 255.9 | 229.1 | 266.6 | 267.0 | 259.9 | 306.1 | 319.3 | 376.5 | 348.9 |
| 198 | HE | 189.0 | 188.9 | 189.4 | 189.5 | 184.9 | 187.7 | 160.0 | 185.7 | 187.8 | 188.6 | 154.8 | 156.8 | 233.2 | 286.8 |
| 199 | HE | 268.7 | 260.0 | 266.5 | 259.9 | 252.8 | 255.3 | 234.0 | 273.7 | 280.6 | 268.1 | 81.5 | 164.8 | 192.2 | 262.0 |
| 200 | HE | 261.1 | 252.6 | 253.9 | 249.3 | 239.9 | 239.7 | 224.4 | 250.4 | 254.5 | 255.7 | 34.6 | 94.4 | 149.9 | 295.4 |
| 201 | HE | 110.8 | 112.4 | 113.2 | 111.1 | 107.2 | 107.2 | 84.2 | 102.7 | 107.1 | 110.0 | 54.7 | 72.8 | 110.3 | 192.1 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202 | HE | 256.5 | 251.8 | 250.0 | 247.5 | 238.5 | 239.6 | 223.0 | 246.7 | 251.3 | 254.2 | 69.8 | 132.5 | 239.8 | 348.0 |
| 203 | HE | 260.4 | 255.2 | 259.2 | 254.3 | 251.4 | 255.7 | 231.5 | 268.7 | 271.9 | 262.8 | 315.8 | 336.7 | 372.5 | 326.1 |
| 204 | HE | 229.3 | 220.8 | 209.2 | 193.4 | 176.5 | 201.2 | 206.9 | 243.6 | 243.2 | 237.0 | 261.6 | 233.3 | 191.9 | 111.3 |
| 205 | HE | 145.5 | 141.2 | 131.0 | 119.1 | 117.6 | 133.9 | 124.9 | 156.3 | 153.6 | 149.4 | 261.8 | 245.0 | 242.3 | 129.1 |
| 206 | HE | 238.2 | 232.7 | 229.1 | 214.4 | 205.1 | 229.8 | 220.0 | 254.4 | 241.2 | 233.1 | 278.2 | 290.3 | 255.9 | 155.3 |
| 207 | HE | 248.2 | 240.7 | 235.9 | 233.1 | 229.7 | 235.0 | 207.6 | 246.9 | 243.6 | 239.3 | 82.3 | 72.5 | 120.0 | 231.2 |
| 208 | HE | 266.9 | 258.7 | 255.6 | 253.9 | 252.9 | 258.1 | 226.8 | 271.4 | 265.3 | 262.4 | 152.2 | 120.9 | 193.9 | 259.8 |
| 209 | HE | 141.9 | 144.8 | 143.5 | 143.1 | 141.3 | 142.5 | 120.0 | 144.6 | 138.3 | 140.2 | 127.3 | 149.2 | 179.2 | 154.7 |
| 210 | HE | 146.0 | 144.8 | 139.6 | 128.9 | 124.1 | 128.6 | 112.8 | 143.7 | 142.8 | 144.2 | 108.3 | 129.4 | 159.8 | 132.4 |
| 211 | HE | 256.8 | 251.5 | 249.9 | 235.8 | 230.1 | 242.2 | 229.9 | 270.2 | 259.0 | 248.2 | 320.8 | 287.4 | 257.0 | 197.6 |
| 212 | HE | 132.0 | 132.4 | 135.5 | 131.6 | 129.3 | 129.8 | 107.7 | 131.3 | 127.4 | 128.4 | 107.7 | 124.4 | 153.4 | 209.4 |
| 213 | HE | 254.4 | 249.1 | 244.5 | 231.8 | 220.9 | 234.2 | 231.1 | 273.8 | 260.0 | 252.3 | 241.7 | 250.6 | 220.6 | 145.2 |
| 214 | HE | 274.9 | 268.9 | 263.2 | 254.6 | 255.5 | 261.3 | 240.7 | 283.9 | 281.3 | 272.0 | 53.1 | 45.3 | 85.9 | 168.8 |
| 215 | HE | 251.3 | 251.9 | 247.2 | 238.1 | 228.3 | 245.1 | 228.2 | 264.3 | 256.7 | 255.0 | 262.3 | 282.0 | 291.6 | 208.7 |
| 216 | HE | 246.0 | 245.1 | 240.2 | 238.8 | 243.7 | 254.9 | 219.6 | 279.2 | 261.6 | 243.0 | 239.8 | 254.3 | 196.5 | 166.5 |
| 217 | HE | 254.8 | 246.3 | 242.7 | 242.1 | 240.3 | 245.0 | 214.4 | 257.5 | 251.7 | 248.7 | 127.8 | 115.6 | 177.6 | 258.1 |
| 218 | HE | 171.2 | 172.6 | 171.5 | 170.7 | 166.7 | 168.3 | 145.0 | 171.3 | 170.7 | 169.7 | 211.2 | 216.7 | 264.7 | 328.8 |
| 219 | HE | 197.5 | 197.5 | 195.0 | 190.0 | 183.5 | 192.5 | 173.0 | 195.5 | 201.0 | 200.0 | 257.5 | 246.5 | 225.5 | 157.0 |
| 220 | HE | 55.0 | 34.7 | 21.0 | 3.8 | 0.6 | 19.4 | 16.1 | 46.2 | 58.6 | 67.6 | 215.5 | 188.7 | 145.9 | 48.9 |
| 221 | HE | 280.1 | 277.0 | 270.7 | 259.8 | 261.1 | 267.2 | 252.1 | 294.1 | 292.9 | 279.0 | 48.6 | 35.7 | 75.2 | 158.1 |
| 222 | HE | 151.7 | 142.8 | 127.1 | 113.8 | 109.3 | 126.3 | 113.7 | 148.6 | 152.3 | 155.7 | 188.1 | 173.0 | 117.1 | 54.8 |
| 223 | HE | 251.2 | 236.4 | 213.1 | 194.1 | 178.5 | 200.0 | 210.1 | 244.2 | 245.2 | 252.8 | 549.7 | 472.2 | 447.1 | 257.6 |
| 224 | HE | 112.6 | 116.4 | 111.1 | 110.3 | 110.6 | 110.3 | 86.0 | 114.2 | 108.9 | 109.5 | 109.7 | 143.2 | 181.5 | 140.5 |
| 225 | HE | 164.6 | 163.1 | 155.4 | 150.1 | 142.3 | 153.9 | 141.3 | 168.9 | 167.3 | 165.4 | 256.5 | 266.1 | 227.2 | 132.5 |
| 226 | HE | 274.9 | 264.6 | 258.3 | 255.0 | 250.2 | 256.6 | 236.1 | 267.4 | 267.3 | 264.9 | 42.4 | 49.5 | 149.6 | 315.1 |
| 227 | HE | 249.5 | 247.0 | 247.0 | 245.2 | 238.8 | 244.9 | 218.5 | 250.4 | 252.3 | 250.8 | 199.7 | 206.5 | 268.2 | 286.0 |
| 228 | HE | 245.2 | 244.8 | 235.3 | 222.7 | 211.0 | 232.3 | 218.2 | 259.4 | 253.5 | 246.2 | 256.0 | 246.9 | 217.3 | 181.9 |
| 229 | HE | 232.6 | 225.1 | 217.9 | 202.2 | 185.1 | 211.0 | 211.5 | 246.7 | 243.8 | 236.8 | 255.9 | 246.3 | 207.3 | 107.2 |
| 230 | HE | 251.9 | 237.1 | 236.1 | 217.5 | 219.8 | 226.4 | 222.7 | 258.3 | 250.6 | 240.5 | 384.1 | 338.5 | 274.4 | 185.2 |
| 231 | HE | 255.5 | 249.6 | 241.7 | 234.5 | 226.1 | 242.1 | 234.7 | 277.2 | 255.9 | 246.9 | 253.4 | 270.9 | 235.9 | 166.5 |
| 232 | HE | 255.1 | 252.3 | 251.1 | 236.2 | 226.1 | 252.6 | 236.9 | 269.5 | 259.3 | 250.5 | 357.8 | 305.8 | 298.4 | 200.4 |
| 233 | HE | 257.4 | 253.4 | 250.8 | 235.1 | 225.5 | 250.2 | 235.6 | 271.5 | 262.0 | 251.1 | 339.0 | 285.5 | 258.4 | 179.7 |
| 234 | HE | 269.6 | 266.5 | 270.2 | 269.6 | 265.7 | 273.7 | 256.5 | 290.9 | 277.8 | 270.7 | 335.0 | 266.1 | 317.6 | 315.0 |
| 235 | HE | 273.7 | 273.0 | 269.3 | 270.7 | 279.0 | 292.3 | 257.7 | 300.0 | 291.7 | 275.7 | 85.0 | 108.0 | 184.3 | 249.3 |
| 236 | HE | 280.2 | 269.3 | 265.7 | 265.7 | 269.8 | 275.5 | 255.8 | 289.3 | 280.0 | 274.5 | 172.0 | 159.0 | 277.4 | 395.9 |
| 237 | HE | 284.5 | 275.9 | 270.5 | 270.1 | 275.2 | 282.4 | 265.1 | 294.3 | 284.1 | 276.5 | 207.3 | 171.5 | 254.5 | 350.7 |
| 238 | HE | 268.1 | 259.9 | 254.1 | 248.3 | 247.8 | 253.5 | 226.9 | 271.6 | 267.2 | 261.4 | 49.9 | 37.8 | 83.9 | 173.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 239 | HE | 245.1 | 243.7 | 236.7 | 235.6 | 239.5 | 245.5 | 223.3 | 272.7 | 266.8 | 248.0 | 203.3 | 234.3 | 218.9 | 144.8 |
| 240 | HE | 247.8 | 241.4 | 239.6 | 225.3 | 210.9 | 226.7 | 224.8 | 264.9 | 258.3 | 248.6 | 245.3 | 237.8 | 218.0 | 138.6 |
| 241 | HE | 259.4 | 256.0 | 253.3 | 238.9 | 228.7 | 250.5 | 237.3 | 275.5 | 264.8 | 253.9 | 340.4 | 274.0 | 260.4 | 193.4 |
| 242 | HE | 285.0 | 278.0 | 273.0 | 272.0 | 277.0 | 285.0 | 269.0 | 297.0 | 285.0 | 277.0 | 184.0 | 154.0 | 241.0 | 299.0 |
| 243 | HE | 254.5 | 252.0 | 250.6 | 235.1 | 225.5 | 252.7 | 237.9 | 268.9 | 258.7 | 249.8 | 348.8 | 305.1 | 306.8 | 210.1 |
| 244 | HE | 255.0 | 264.0 | 260.3 | 261.8 | 266.0 | 268.3 | 247.0 | 260.0 | 260.5 | 259.0 | 339.5 | 272.8 | 280.8 | 275.0 |
| 245 | HE | 253.0 | 240.2 | 238.5 | 220.9 | 222.8 | 225.2 | 216.6 | 260.5 | 253.4 | 246.4 | 370.3 | 329.7 | 273.3 | 141.0 |
| 246 | HE | 253.2 | 243.4 | 227.6 | 209.9 | 194.2 | 212.7 | 226.2 | 257.7 | 260.7 | 257.0 | 272.7 | 232.6 | 180.0 | 110.2 |
| 247 | HE | 252.1 | 242.2 | 219.6 | 197.1 | 183.6 | 203.3 | 216.0 | 248.6 | 252.2 | 257.0 | 322.1 | 271.1 | 231.1 | 151.0 |
| 248 | HE | 257.8 | 261.5 | 262.5 | 262.0 | 268.3 | 275.0 | 246.0 | 258.3 | 260.5 | 260.3 | 176.5 | 128.5 | 167.5 | 274.0 |
| 249 | HE | 243.9 | 236.2 | 232.2 | 217.8 | 199.5 | 218.1 | 220.9 | 258.3 | 256.8 | 247.6 | 249.2 | 232.9 | 197.5 | 106.0 |
| 250 | HE | 247.0 | 225.8 | 209.3 | 199.3 | 211.5 | 225.0 | 219.8 | 255.5 | 250.0 | 236.0 | 292.5 | 302.8 | 219.3 | 119.8 |
| 251 | HE | 232.5 | 226.5 | 212.0 | 200.5 | 196.0 | 209.0 | 203.0 | 235.5 | 236.0 | 239.0 | 335.5 | 301.0 | 258.5 | 163.5 |
| 252 | HE | 245.0 | 242.0 | 239.0 | 240.0 | 244.0 | 249.0 | 225.0 | 275.0 | 264.0 | 245.0 | 197.0 | 211.0 | 229.0 | 183.0 |
| 253 | HE | 206.4 | 200.5 | 194.5 | 178.5 | 170.3 | 186.9 | 171.7 | 208.1 | 207.7 | 209.4 | 223.2 | 224.1 | 174.3 | 94.7 |
| 254 | HE | 251.5 | 256.0 | 255.6 | 247.4 | 247.6 | 250.9 | 233.1 | 249.5 | 249.7 | 249.7 | 182.7 | 79.6 | 65.2 | 140.6 |
| 255 | HE | 148.0 | 149.5 | 150.0 | 148.0 | 141.0 | 144.0 | 121.5 | 142.5 | 146.5 | 151.0 | 109.5 | 104.5 | 130.5 | 156.0 |
| 256 | HE | 266.0 | 259.0 | 258.0 | 254.0 | 247.0 | 248.0 | 231.0 | 257.0 | 261.0 | 261.0 | 30.0 | 88.0 | 146.0 | 349.0 |
| 257 | HE | 274.0 | 264.0 | 266.0 | 260.5 | 252.5 | 252.5 | 236.0 | 264.0 | 267.0 | 268.0 | 26.0 | 82.5 | 133.0 | 318.0 |
| 258 | HE | 116.8 | 118.8 | 120.2 | 118.6 | 113.0 | 115.6 | 89.2 | 114.4 | 116.4 | 116.8 | 116.8 | 123.4 | 156.6 | 208.0 |
| 259 | HE | 167.0 | 167.3 | 168.0 | 166.0 | 161.0 | 163.0 | 135.0 | 162.3 | 164.3 | 164.7 | 106.3 | 119.3 | 180.3 | 224.0 |
| 260 | HE | 245.4 | 249.3 | 245.8 | 237.9 | 232.2 | 234.7 | 217.1 | 248.9 | 250.8 | 244.9 | 49.7 | 33.6 | 61.1 | 173.2 |
| 261 | HE | 254.0 | 259.8 | 263.0 | 258.0 | 257.8 | 261.8 | 245.3 | 262.8 | 260.0 | 256.3 | 86.3 | 36.0 | 32.0 | 73.8 |
| 262 | HE | 259.5 | 254.8 | 253.8 | 254.7 | 254.4 | 262.8 | 232.6 | 274.1 | 264.6 | 259.9 | 276.5 | 233.1 | 364.4 | 376.2 |
| 263 | HE | 252.5 | 256.5 | 254.5 | 246.8 | 248.0 | 249.5 | 232.8 | 247.0 | 249.0 | 250.5 | 217.8 | 98.0 | 82.0 | 185.3 |
| 264 | HE | 264.4 | 255.9 | 264.8 | 265.9 | 269.5 | 269.2 | 252.3 | 267.6 | 268.6 | 265.0 | 189.5 | 261.7 | 348.5 | 347.6 |
| 265 | HE | 270.2 | 261.1 | 259.1 | 259.9 | 263.0 | 269.2 | 239.2 | 282.4 | 271.5 | 266.7 | 246.3 | 219.9 | 368.7 | 405.2 |
| 266 | HE | 259.9 | 256.9 | 255.3 | 241.0 | 230.7 | 255.0 | 239.8 | 275.6 | 265.5 | 255.2 | 344.5 | 291.7 | 271.0 | 186.9 |
| 267 | HE | 265.4 | 263.6 | 259.8 | 246.0 | 234.9 | 254.5 | 243.2 | 282.6 | 271.6 | 260.4 | 331.4 | 270.3 | 266.8 | 202.8 |
| 268 | HE | 285.3 | 279.4 | 273.9 | 270.6 | 270.2 | 279.3 | 264.9 | 296.8 | 281.8 | 272.9 | 202.7 | 173.0 | 224.6 | 281.3 |
| 269 | HE | 252.3 | 252.9 | 250.7 | 250.4 | 242.8 | 253.6 | 229.0 | 263.7 | 255.6 | 251.8 | 268.0 | 279.0 | 338.5 | 272.4 |
| 270 | HE | 271.0 | 269.1 | 270.9 | 266.1 | 259.3 | 270.7 | 255.9 | 292.0 | 278.4 | 270.4 | 292.0 | 266.4 | 303.8 | 286.0 |
| 271 | HE | 274.4 | 270.1 | 272.3 | 270.6 | 268.0 | 275.8 | 260.2 | 293.9 | 280.1 | 272.8 | 290.2 | 248.4 | 314.1 | 297.4 |
| 272 | HE | 253.8 | 258.0 | 258.4 | 259.7 | 268.0 | 275.0 | 244.9 | 256.5 | 257.5 | 256.6 | 179.0 | 130.1 | 156.5 | 274.7 |
| 273 | HE | 282.3 | 273.7 | 270.2 | 270.3 | 274.6 | 281.7 | 264.2 | 294.0 | 283.0 | 276.4 | 260.5 | 238.3 | 317.6 | 366.8 |
| 274 | HE | 285.0 | 277.2 | 272.2 | 271.8 | 277.2 | 285.0 | 268.2 | 296.2 | 285.3 | 277.3 | 209.7 | 181.5 | 264.5 | 327.8 |
| 275 | HE | 288.1 | 280.9 | 272.1 | 269.3 | 273.7 | 282.3 | 265.7 | 295.7 | 285.2 | 273.9 | 162.7 | 130.4 | 196.9 | 246.4 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 276 | HE | 268.9 | 265.3 | 268.6 | 269.0 | 266.1 | 273.8 | 255.6 | 290.0 | 277.0 | 269.3 | 325.0 | 254.3 | 324.2 | 317.3 |
| 277 | HE | 265.5 | 268.3 | 266.2 | 267.7 | 275.1 | 278.0 | 256.7 | 266.0 | 267.3 | 265.1 | 242.9 | 172.7 | 192.3 | 269.5 |
| 278 | HE | 259.0 | 254.6 | 253.5 | 254.5 | 254.0 | 262.5 | 232.2 | 273.5 | 264.3 | 259.7 | 272.6 | 232.1 | 359.9 | 369.7 |
| 279 | HE | 266.7 | 262.0 | 264.8 | 267.6 | 265.0 | 273.0 | 251.1 | 287.6 | 274.5 | 265.7 | 298.7 | 233.4 | 330.8 | 310.1 |
| 280 | HE | 265.9 | 263.8 | 267.9 | 267.9 | 262.5 | 270.9 | 253.0 | 288.0 | 275.2 | 268.0 | 330.6 | 266.0 | 329.5 | 320.6 |
| 281 | HE | 274.2 | 270.4 | 272.1 | 270.2 | 266.7 | 275.3 | 259.9 | 293.6 | 280.0 | 272.3 | 290.2 | 250.4 | 315.0 | 294.9 |
| 282 | HE | 258.9 | 258.0 | 254.4 | 255.6 | 246.9 | 256.4 | 233.1 | 269.3 | 260.7 | 255.0 | 271.8 | 277.6 | 342.2 | 276.8 |
| 283 | HE | 165.9 | 168.5 | 167.1 | 168.5 | 166.1 | 167.4 | 146.1 | 171.5 | 164.5 | 165.3 | 161.4 | 157.7 | 193.6 | 177.4 |
| 284 | HE | 280.0 | 276.2 | 269.9 | 259.7 | 260.6 | 266.7 | 249.5 | 291.9 | 290.1 | 278.2 | 49.8 | 39.2 | 78.9 | 163.7 |
| 285 | HE | 254.8 | 253.8 | 252.4 | 254.2 | 250.9 | 259.1 | 228.9 | 267.7 | 261.3 | 257.9 | 228.9 | 246.2 | 320.0 | 301.2 |
| 286 | HE | 230.5 | 226.5 | 214.5 | 199.0 | 187.0 | 215.0 | 205.0 | 238.5 | 234.5 | 228.0 | 338.5 | 310.0 | 240.5 | 143.0 |
| 287 | HE | 288.4 | 278.8 | 270.0 | 265.2 | 270.0 | 277.2 | 260.0 | 295.5 | 286.5 | 274.3 | 158.6 | 116.2 | 208.2 | 351.7 |
| 288 | HE | 257.0 | 237.8 | 213.0 | 198.0 | 180.0 | 201.0 | 216.3 | 244.8 | 250.0 | 260.3 | 587.5 | 505.5 | 440.0 | 287.8 |
| 289 | HE | 264.1 | 261.9 | 263.5 | 266.8 | 261.6 | 270.3 | 247.7 | 284.7 | 272.0 | 262.5 | 317.2 | 265.9 | 299.3 | 292.6 |
| 290 | HE | 253.1 | 250.3 | 249.4 | 233.3 | 223.7 | 251.4 | 235.8 | 267.0 | 257.3 | 248.9 | 347.4 | 301.2 | 289.5 | 194.0 |
| 291 | HE | 253.9 | 257.8 | 257.1 | 259.9 | 269.0 | 274.7 | 246.1 | 259.1 | 258.6 | 256.5 | 144.6 | 108.1 | 142.5 | 247.9 |
| 292 | HE | 251.4 | 248.9 | 245.1 | 246.6 | 254.7 | 265.9 | 230.4 | 286.6 | 273.1 | 252.1 | 231.4 | 244.5 | 232.7 | 216.8 |
| 293 | HE | 258.3 | 261.6 | 262.3 | 262.1 | 262.7 | 262.5 | 249.0 | 260.2 | 260.9 | 260.5 | 305.1 | 224.6 | 210.6 | 337.7 |
| 294 | HE | 273.7 | 270.8 | 266.9 | 259.8 | 254.7 | 266.8 | 252.6 | 289.7 | 275.4 | 265.0 | 258.3 | 202.2 | 247.6 | 265.5 |
| 295 | HE | 250.5 | 250.0 | 246.6 | 242.9 | 245.3 | 256.3 | 223.4 | 280.6 | 263.8 | 246.8 | 234.5 | 233.3 | 194.3 | 164.0 |
| 296 | HE | 260.8 | 266.5 | 264.6 | 251.6 | 249.7 | 255.7 | 238.3 | 278.2 | 282.6 | 269.3 | 31.7 | 21.3 | 42.6 | 112.2 |
| 297 | HE | 261.0 | 256.3 | 249.8 | 239.1 | 227.8 | 238.0 | 236.6 | 282.7 | 264.2 | 257.8 | 246.6 | 262.6 | 218.7 | 146.3 |
| 298 | HE | 263.5 | 255.8 | 243.5 | 239.7 | 236.9 | 258.9 | 247.1 | 285.8 | 269.1 | 253.5 | 258.4 | 254.4 | 245.7 | 185.1 |
| 299 | HE | 149.2 | 150.7 | 151.0 | 147.6 | 144.0 | 144.4 | 122.9 | 147.5 | 146.2 | 146.1 | 151.3 | 156.3 | 202.7 | 265.4 |
| 300 | HE | 260.0 | 254.5 | 247.2 | 239.5 | 229.5 | 241.4 | 236.6 | 282.0 | 260.1 | 252.3 | 240.7 | 263.1 | 222.5 | 152.9 |
| 301 | HE | 263.3 | 256.5 | 255.2 | 253.5 | 249.4 | 254.9 | 228.8 | 268.9 | 267.5 | 265.5 | 145.5 | 259.7 | 258.4 | 316.2 |
| 302 | HE | 251.0 | 254.5 | 252.0 | 244.0 | 246.0 | 248.0 | 232.5 | 248.0 | 248.5 | 248.5 | 197.5 | 87.0 | 73.5 | 154.0 |
| 303 | HE | 244.5 | 234.3 | 224.9 | 209.2 | 191.4 | 211.3 | 219.2 | 256.5 | 257.9 | 250.7 | 243.2 | 218.7 | 176.0 | 89.5 |
| 304 | HE | 258.5 | 254.5 | 256.5 | 250.8 | 244.0 | 250.4 | 223.3 | 265.5 | 266.2 | 264.1 | 119.4 | 180.5 | 233.1 | 260.4 |
| 305 | HE | 229.1 | 226.6 | 220.9 | 214.7 | 208.3 | 220.6 | 202.2 | 235.5 | 233.4 | 233.2 | 577.4 | 541.7 | 458.1 | 320.5 |
| 306 | HE | 170.5 | 167.2 | 158.0 | 146.8 | 144.5 | 160.9 | 148.2 | 179.7 | 177.1 | 172.8 | 288.9 | 267.8 | 266.5 | 146.6 |
| 307 | HE | 175.3 | 177.4 | 177.5 | 176.6 | 175.5 | 172.8 | 155.4 | 182.8 | 178.5 | 173.7 | 126.5 | 101.8 | 145.1 | 150.3 |
| 308 | HE | 204.6 | 206.3 | 199.7 | 195.0 | 188.6 | 200.4 | 189.0 | 215.1 | 211.9 | 208.0 | 275.7 | 268.4 | 247.0 | 173.6 |
| 309 | HE | 260.1 | 256.6 | 258.1 | 253.3 | 246.8 | 251.7 | 225.2 | 269.0 | 268.3 | 267.0 | 110.0 | 180.0 | 232.6 | 279.9 |
| 310 | HE | 199.9 | 197.2 | 188.2 | 181.7 | 179.9 | 195.5 | 177.6 | 209.4 | 207.0 | 201.7 | 283.0 | 268.3 | 261.9 | 151.8 |
| 311 | HE | 245.8 | 246.1 | 237.9 | 224.3 | 214.8 | 235.9 | 218.6 | 261.3 | 255.2 | 247.5 | 247.6 | 223.5 | 224.9 | 183.5 |
| 312 | HE | 216.1 | 216.7 | 224.3 | 224.3 | 218.4 | 219.2 | 199.3 | 228.1 | 223.5 | 220.8 | 229.3 | 193.6 | 267.4 | 272.7 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 313 | HE | 209.0 | 209.3 | 206.4 | 204.0 | 196.1 | 205.2 | 188.6 | 213.1 | 211.3 | 208.7 | 373.2 | 381.6 | 321.3 | 209.5 |
| 314 | HE | 252.4 | 243.0 | 222.9 | 202.3 | 190.0 | 207.4 | 216.7 | 249.2 | 251.8 | 256.5 | 314.0 | 265.2 | 216.1 | 147.5 |
| 315 | HE | 237.7 | 229.3 | 211.8 | 198.1 | 190.6 | 205.4 | 200.5 | 236.3 | 236.9 | 243.0 | 313.0 | 301.8 | 251.0 | 146.4 |
| 316 | HE | 251.5 | 250.0 | 249.3 | 249.1 | 242.8 | 247.6 | 222.0 | 253.4 | 253.4 | 253.7 | 176.1 | 179.4 | 261.2 | 286.9 |
| 317 | HE | 117.5 | 119.8 | 119.3 | 116.6 | 113.4 | 114.1 | 91.6 | 115.6 | 113.3 | 113.2 | 115.3 | 124.0 | 153.4 | 196.1 |
| 318 | HE | 210.4 | 210.6 | 210.4 | 211.9 | 208.1 | 210.1 | 186.4 | 210.4 | 210.0 | 210.0 | 175.1 | 162.0 | 228.7 | 253.0 |
| 319 | HE | 152.3 | 153.0 | 155.3 | 153.7 | 150.0 | 151.0 | 122.7 | 147.0 | 149.0 | 149.0 | 105.3 | 116.7 | 157.7 | 187.7 |
| 320 | HE | 261.3 | 259.8 | 260.8 | 260.8 | 253.3 | 261.0 | 232.7 | 275.5 | 270.0 | 266.1 | 270.6 | 259.9 | 294.4 | 278.4 |
| 321 | HE | 255.7 | 251.1 | 233.3 | 219.5 | 210.5 | 231.1 | 227.2 | 265.3 | 263.0 | 259.5 | 262.4 | 239.8 | 207.7 | 145.0 |
| 322 | HE | 52.0 | 33.9 | 18.6 | 1.0 | -1.9 | 17.7 | 12.4 | 42.6 | 53.1 | 62.1 | 210.1 | 184.1 | 137.9 | 45.6 |
| 323 | HE | 263.7 | 262.3 | 260.7 | 259.9 | 249.3 | 263.9 | 237.1 | 275.9 | 269.6 | 267.4 | 249.5 | 258.4 | 264.4 | 249.0 |
| 324 | HE | 263.9 | 261.3 | 262.2 | 260.2 | 252.4 | 263.4 | 235.5 | 273.6 | 268.9 | 266.8 | 226.4 | 229.9 | 263.9 | 230.8 |
| 325 | HE | 255.5 | 249.5 | 253.6 | 249.7 | 242.8 | 250.6 | 219.5 | 260.3 | 258.9 | 257.5 | 204.5 | 218.4 | 296.1 | 251.4 |
| 326 | HE | 244.9 | 239.9 | 228.6 | 217.2 | 212.5 | 226.1 | 216.6 | 249.9 | 250.9 | 253.4 | 417.4 | 377.5 | 321.1 | 205.8 |
| 327 | HE | 247.0 | 246.0 | 246.0 | 245.0 | 239.0 | 243.0 | 219.0 | 244.0 | 247.0 | 251.0 | 180.0 | 213.0 | 348.0 | 433.0 |
| 328 | HE | 249.8 | 250.4 | 244.9 | 232.8 | 224.4 | 243.0 | 226.2 | 263.3 | 257.6 | 252.2 | 235.8 | 201.5 | 231.8 | 183.0 |
| 329 | HE | 250.4 | 249.7 | 244.0 | 231.1 | 223.6 | 242.3 | 225.2 | 263.6 | 258.6 | 252.7 | 242.2 | 206.3 | 239.2 | 189.3 |
| 330 | HE | 251.0 | 247.0 | 244.3 | 227.3 | 219.3 | 246.7 | 234.7 | 265.3 | 254.3 | 245.3 | 322.0 | 292.3 | 326.3 | 198.7 |
| 331 | HE | 246.0 | 241.9 | 239.5 | 221.5 | 213.8 | 244.4 | 230.1 | 258.0 | 248.1 | 239.6 | 254.5 | 296.4 | 283.3 | 190.5 |
| 332 | HE | 248.9 | 241.4 | 231.8 | 226.6 | 218.5 | 241.1 | 226.7 | 263.3 | 256.3 | 243.4 | 240.6 | 291.5 | 271.5 | 186.9 |
| 333 | HE | 260.3 | 263.4 | 258.2 | 260.4 | 265.6 | 271.1 | 245.7 | 258.1 | 258.8 | 256.6 | 237.5 | 243.8 | 281.6 | 380.3 |
| 334 | HE | 255.9 | 252.0 | 250.6 | 251.6 | 249.9 | 258.8 | 228.2 | 270.5 | 261.8 | 258.3 | 245.1 | 202.6 | 348.5 | 340.3 |
| 335 | HE | 261.1 | 259.2 | 259.3 | 259.7 | 256.1 | 264.8 | 234.4 | 275.3 | 266.6 | 259.8 | 314.6 | 272.5 | 377.2 | 343.1 |
| 336 | HE | 258.0 | 253.0 | 247.4 | 235.4 | 224.7 | 236.2 | 234.1 | 278.6 | 262.2 | 255.6 | 243.3 | 255.6 | 218.9 | 145.8 |
| 337 | HE | 263.6 | 262.6 | 259.5 | 260.5 | 248.0 | 259.7 | 243.0 | 280.5 | 269.8 | 261.4 | 335.4 | 302.3 | 328.9 | 274.7 |
| 338 | HE | 249.0 | 245.2 | 243.2 | 225.2 | 217.2 | 246.8 | 233.2 | 262.0 | 251.8 | 243.5 | 293.8 | 300.7 | 312.0 | 195.3 |
| 339 | HE | 267.3 | 262.9 | 262.9 | 264.1 | 265.2 | 272.4 | 243.9 | 283.5 | 272.5 | 263.5 | 296.0 | 221.3 | 274.0 | 258.3 |
| 340 | HE | 241.5 | 240.0 | 228.9 | 219.2 | 206.7 | 227.9 | 217.3 | 253.9 | 249.3 | 242.3 | 275.2 | 257.8 | 223.4 | 197.5 |
| 341 | HE | 251.3 | 249.3 | 234.3 | 222.7 | 208.9 | 231.3 | 221.4 | 261.8 | 255.8 | 249.0 | 250.3 | 245.2 | 208.0 | 178.4 |
| 342 | HE | 253.5 | 254.0 | 250.5 | 252.5 | 251.5 | 251.0 | 237.3 | 248.3 | 251.8 | 254.5 | 390.5 | 387.5 | 488.5 | 491.8 |
| 343 | HE | 260.7 | 258.0 | 249.3 | 246.7 | 253.3 | 263.3 | 237.3 | 284.7 | 281.7 | 261.7 | 232.0 | 244.3 | 256.0 | 201.0 |
| 344 | HE | 252.5 | 245.5 | 243.5 | 228.0 | 214.5 | 226.5 | 228.5 | 268.5 | 263.5 | 254.5 | 247.0 | 226.0 | 213.5 | 147.0 |
| 345 | HE | 265.0 | 254.0 | 265.0 | 266.0 | 269.0 | 269.0 | 254.0 | 270.0 | 269.0 | 265.0 | 119.0 | 206.0 | 283.0 | 308.0 |
| 346 | HE | 259.8 | 257.8 | 248.7 | 247.0 | 254.5 | 264.7 | 238.2 | 284.8 | 280.8 | 261.8 | 247.3 | 255.8 | 262.8 | 211.7 |
| 347 | HE | 249.0 | 245.8 | 242.8 | 225.5 | 216.8 | 247.0 | 233.5 | 262.0 | 251.8 | 243.8 | 284.8 | 306.0 | 306.3 | 194.5 |
| 348 | HE | 250.0 | 247.0 | 245.0 | 226.7 | 219.0 | 248.0 | 234.0 | 263.0 | 253.0 | 245.0 | 290.0 | 320.3 | 309.7 | 195.7 |
| 349 | HE | 257.3 | 254.6 | 253.4 | 238.7 | 228.7 | 254.4 | 238.0 | 272.6 | 262.1 | 252.9 | 356.6 | 305.0 | 291.2 | 194.8 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 350 | HE | 253.0 | 249.8 | 248.2 | 232.0 | 222.3 | 250.6 | 234.3 | 266.1 | 256.9 | 248.0 | 342.4 | 291.4 | 267.7 | 176.0 |
| 351 | HE | 261.5 | 264.5 | 261.3 | 263.7 | 270.3 | 273.2 | 251.0 | 260.1 | 262.0 | 260.0 | 216.1 | 158.9 | 188.4 | 260.6 |
| 352 | HE | 265.3 | 266.8 | 262.0 | 262.5 | 270.0 | 280.8 | 250.8 | 272.3 | 268.8 | 261.7 | 220.1 | 263.3 | 278.3 | 349.7 |
| 353 | HE | 250.0 | 247.0 | 244.0 | 227.0 | 219.0 | 247.0 | 235.0 | 265.0 | 254.0 | 246.0 | 323.0 | 292.0 | 329.0 | 199.0 |
| 354 | HE | 249.0 | 245.0 | 242.0 | 225.0 | 216.0 | 246.0 | 233.0 | 261.0 | 251.0 | 243.0 | 267.0 | 290.0 | 288.0 | 188.0 |
| 355 | HE | 263.3 | 257.0 | 247.3 | 245.6 | 239.6 | 258.1 | 244.8 | 284.0 | 270.1 | 255.8 | 259.6 | 271.1 | 266.2 | 203.1 |
| 356 | HE | 261.1 | 254.6 | 244.1 | 236.5 | 233.3 | 255.3 | 245.0 | 283.0 | 265.1 | 251.9 | 280.6 | 273.9 | 264.4 | 188.8 |
| 357 | HE | 248.0 | 243.0 | 241.0 | 224.0 | 215.0 | 245.0 | 232.0 | 260.0 | 250.0 | 242.0 | 273.0 | 288.0 | 291.0 | 189.0 |
| 358 | HE | 264.4 | 262.8 | 266.7 | 265.9 | 259.3 | 269.4 | 251.3 | 286.5 | 274.0 | 266.4 | 316.2 | 276.9 | 355.0 | 327.1 |
| 359 | HE | 264.2 | 259.2 | 251.9 | 243.0 | 238.8 | 262.6 | 250.6 | 284.8 | 273.4 | 259.3 | 331.8 | 283.2 | 298.0 | 225.1 |
| 360 | HE | 256.6 | 260.1 | 258.6 | 261.5 | 262.7 | 263.1 | 249.0 | 260.1 | 260.8 | 260.0 | 426.7 | 372.2 | 446.7 | 461.9 |
| 361 | HE | 262.9 | 263.8 | 261.6 | 264.0 | 268.3 | 270.6 | 252.1 | 262.2 | 263.2 | 260.8 | 328.7 | 277.4 | 276.5 | 313.3 |
| 362 | HE | 253.8 | 254.9 | 251.3 | 253.8 | 252.5 | 252.5 | 238.5 | 249.5 | 252.9 | 254.8 | 404.4 | 386.0 | 491.7 | 500.3 |
| 363 | HE | 250.3 | 247.3 | 244.3 | 227.3 | 219.3 | 248.3 | 233.3 | 263.3 | 252.5 | 244.3 | 307.5 | 317.0 | 313.3 | 197.8 |
| 364 | HE | 252.0 | 246.0 | 247.0 | 248.0 | 248.0 | 246.0 | 232.0 | 246.0 | 253.0 | 251.0 | 324.0 | 410.0 | 500.0 | 463.0 |
| 365 | HE | 255.0 | 246.0 | 251.0 | 250.0 | 252.0 | 251.0 | 236.0 | 250.0 | 257.0 | 254.0 | 274.0 | 353.0 | 453.0 | 403.0 |
| 366 | HE | 256.5 | 247.0 | 252.5 | 253.5 | 255.5 | 254.5 | 239.0 | 253.5 | 260.0 | 255.5 | 255.0 | 318.0 | 425.5 | 379.0 |
| 367 | HE | 263.8 | 267.2 | 269.7 | 273.2 | 276.3 | 277.9 | 266.8 | 276.5 | 274.9 | 269.3 | 427.6 | 407.3 | 432.0 | 466.9 |
| 368 | HE | 253.0 | 248.0 | 246.0 | 248.0 | 246.0 | 245.0 | 232.0 | 244.0 | 251.0 | 251.0 | 352.0 | 417.0 | 500.0 | 485.0 |
| 369 | HE | 255.7 | 258.3 | 256.0 | 258.7 | 259.0 | 259.3 | 245.7 | 257.0 | 258.0 | 258.0 | 424.7 | 374.0 | 467.0 | 478.0 |
| 370 | HE | 259.0 | 263.0 | 261.5 | 264.5 | 266.5 | 267.5 | 253.5 | 264.5 | 265.0 | 262.5 | 422.0 | 374.0 | 430.5 | 445.0 |
| 371 | HE | 248.3 | 245.7 | 242.7 | 225.7 | 216.7 | 246.3 | 232.3 | 261.3 | 251.3 | 243.0 | 296.7 | 326.0 | 311.3 | 197.3 |
| 372 | HE | 261.0 | 260.7 | 257.2 | 259.0 | 251.1 | 259.1 | 233.6 | 271.2 | 262.9 | 257.4 | 266.0 | 255.7 | 346.3 | 292.9 |
| 373 | HE | 261.3 | 257.1 | 250.9 | 250.4 | 240.9 | 255.4 | 239.7 | 278.1 | 266.9 | 255.6 | 282.6 | 276.3 | 306.7 | 230.0 |
| 374 | HE | 251.5 | 249.0 | 245.5 | 229.0 | 220.0 | 248.5 | 235.5 | 265.5 | 255.0 | 246.0 | 311.0 | 301.5 | 318.0 | 197.0 |
| 375 | HE | 239.5 | 232.6 | 228.2 | 212.8 | 195.8 | 218.5 | 218.4 | 254.6 | 250.6 | 242.7 | 250.6 | 243.7 | 205.4 | 105.2 |
| 376 | HE | 248.5 | 245.0 | 241.5 | 225.0 | 216.5 | 246.5 | 233.0 | 261.0 | 251.0 | 243.0 | 279.5 | 301.5 | 301.5 | 193.5 |
| 377 | HE | 267.9 | 268.5 | 264.3 | 267.4 | 275.1 | 287.2 | 251.8 | 288.5 | 281.7 | 269.3 | 106.5 | 122.3 | 212.9 | 280.9 |
| 378 | HE | 263.1 | 266.7 | 265.8 | 267.7 | 276.5 | 280.2 | 254.9 | 264.9 | 266.0 | 264.1 | 169.1 | 131.7 | 158.7 | 275.6 |
| 379 | HE | 251.8 | 246.4 | 243.2 | 229.2 | 217.8 | 232.2 | 229.1 | 270.2 | 258.9 | 250.3 | 242.8 | 246.5 | 221.9 | 145.7 |
| 380 | HE | 253.0 | 247.3 | 244.0 | 229.3 | 218.1 | 231.2 | 229.8 | 271.2 | 261.5 | 252.8 | 244.6 | 240.2 | 218.1 | 146.6 |
| 381 | HE | 254.2 | 254.0 | 245.8 | 239.8 | 234.8 | 250.7 | 231.4 | 269.2 | 263.4 | 255.7 | 243.0 | 235.0 | 249.6 | 212.2 |
| 382 | HE | 258.7 | 259.0 | 253.8 | 251.0 | 253.1 | 265.6 | 232.6 | 290.0 | 272.5 | 254.3 | 195.3 | 205.5 | 199.7 | 170.1 |
| 383 | HE | 256.3 | 255.4 | 254.0 | 255.8 | 252.0 | 260.1 | 230.0 | 269.5 | 261.6 | 258.2 | 236.8 | 249.4 | 336.3 | 305.1 |
| 384 | HE | 263.2 | 257.6 | 249.5 | 243.0 | 232.8 | 244.2 | 239.9 | 286.1 | 262.3 | 254.7 | 239.7 | 259.1 | 220.3 | 152.3 |
| 385 | HE | 258.6 | 253.6 | 247.8 | 237.8 | 226.9 | 239.2 | 235.6 | 279.8 | 260.9 | 253.7 | 240.8 | 260.7 | 221.9 | 147.2 |
| 386 | HE | 256.5 | 254.3 | 250.8 | 235.6 | 226.8 | 252.5 | 241.1 | 272.2 | 261.8 | 252.8 | 333.0 | 275.9 | 316.0 | 196.4 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 387 | HE | 274.4 | 262.7 | 259.8 | 259.9 | 263.4 | 268.2 | 241.0 | 283.6 | 273.8 | 270.0 | 169.2 | 164.6 | 297.3 | 392.2 |
| 388 | HE | 252.2 | 251.3 | 244.3 | 243.4 | 250.0 | 264.4 | 225.6 | 286.7 | 269.9 | 249.2 | 222.2 | 209.9 | 191.8 | 157.0 |
| 389 | HE | 253.5 | 252.8 | 248.4 | 235.9 | 227.4 | 245.4 | 227.6 | 265.8 | 260.6 | 256.1 | 259.3 | 234.5 | 257.2 | 196.6 |
| 390 | HE | 262.1 | 262.3 | 258.4 | 255.1 | 255.0 | 265.5 | 236.4 | 288.8 | 271.6 | 256.1 | 219.7 | 209.9 | 217.9 | 200.9 |
| 391 | HE | 249.0 | 246.0 | 244.0 | 226.0 | 218.0 | 248.0 | 234.0 | 262.0 | 252.0 | 244.0 | 286.0 | 313.0 | 308.0 | 195.0 |
| 392 | HE | 258.0 | 262.0 | 261.0 | 263.0 | 265.0 | 266.0 | 252.0 | 264.0 | 264.0 | 262.0 | 423.0 | 372.0 | 432.0 | 449.0 |
| 393 | HE | 250.0 | 246.8 | 244.8 | 226.5 | 218.8 | 248.0 | 234.3 | 262.8 | 252.8 | 244.8 | 289.0 | 316.0 | 309.3 | 195.3 |
| 394 | HE | 251.0 | 247.5 | 245.5 | 227.5 | 219.0 | 248.5 | 235.5 | 265.5 | 254.5 | 246.0 | 308.0 | 298.5 | 319.0 | 196.5 |
| 395 | HE | 273.0 | 271.3 | 262.2 | 258.8 | 263.9 | 278.4 | 248.1 | 300.4 | 286.4 | 266.9 | 192.2 | 177.0 | 191.1 | 225.9 |
| 396 | HE | 261.8 | 263.0 | 260.4 | 262.9 | 267.6 | 270.1 | 250.2 | 260.1 | 261.3 | 259.1 | 312.1 | 275.7 | 275.5 | 319.2 |
| 397 | HE | 264.8 | 265.8 | 263.9 | 267.4 | 274.4 | 284.4 | 251.5 | 276.5 | 273.3 | 266.0 | 113.6 | 112.3 | 190.6 | 267.5 |
| 398 | HE | 107.4 | 110.0 | 112.6 | 112.0 | 105.8 | 107.5 | 80.2 | 105.5 | 105.3 | 106.3 | 103.0 | 97.2 | 151.3 | 203.6 |
| 399 | HE | 153.0 | 154.0 | 155.0 | 152.0 | 145.0 | 149.0 | 126.0 | 148.0 | 152.0 | 156.0 | 126.0 | 117.0 | 141.0 | 172.0 |
| 400 | HE | 142.9 | 145.3 | 146.9 | 146.4 | 141.5 | 143.0 | 115.4 | 140.6 | 142.0 | 142.3 | 129.0 | 128.6 | 179.7 | 237.0 |
| 401 | HE | 254.5 | 261.0 | 264.0 | 257.3 | 257.8 | 260.5 | 244.0 | 260.0 | 258.0 | 255.5 | 82.3 | 46.0 | 37.5 | 81.0 |
| 402 | HE | 257.5 | 262.2 | 262.9 | 260.2 | 263.2 | 269.8 | 255.6 | 275.3 | 269.5 | 259.6 | 82.5 | 30.8 | 24.8 | 63.5 |
| 403 | HE | 259.8 | 264.3 | 265.5 | 261.8 | 263.0 | 271.3 | 255.0 | 278.0 | 272.0 | 262.5 | 83.0 | 28.5 | 26.0 | 69.5 |
| 404 | HE | 257.6 | 259.3 | 257.6 | 254.7 | 258.9 | 268.9 | 257.3 | 287.1 | 276.1 | 263.4 | 72.4 | 40.6 | 48.9 | 235.1 |
| 405 | HE | 255.1 | 261.3 | 262.3 | 259.5 | 261.1 | 267.4 | 250.3 | 271.5 | 265.9 | 258.2 | 84.0 | 30.0 | 25.5 | 60.1 |
| 406 | HE | 261.8 | 265.6 | 265.5 | 263.7 | 266.5 | 273.6 | 264.2 | 284.1 | 276.5 | 264.8 | 57.4 | 20.5 | 20.7 | 72.5 |
| 407 | HE | 246.9 | 252.7 | 253.9 | 244.4 | 245.0 | 251.1 | 230.7 | 250.6 | 248.5 | 246.3 | 138.2 | 54.0 | 41.5 | 117.5 |
| 408 | HE | 252.7 | 255.8 | 254.1 | 246.1 | 247.3 | 249.3 | 233.0 | 247.9 | 249.5 | 250.2 | 208.1 | 92.3 | 78.6 | 172.6 |
| 409 | HE | 248.1 | 254.2 | 254.0 | 243.6 | 242.8 | 249.0 | 226.3 | 245.6 | 245.1 | 244.9 | 193.3 | 80.0 | 59.2 | 139.0 |
| 410 | HE | 263.4 | 259.5 | 252.9 | 244.7 | 239.0 | 262.0 | 249.8 | 283.8 | 272.5 | 259.0 | 328.4 | 276.4 | 293.0 | 228.8 |
| 411 | HE | 258.0 | 261.7 | 263.2 | 261.2 | 264.0 | 271.0 | 260.0 | 275.2 | 268.8 | 260.0 | 69.0 | 27.5 | 21.2 | 54.8 |
| 412 | HE | 244.3 | 240.4 | 238.7 | 219.9 | 211.4 | 243.4 | 228.0 | 255.3 | 245.8 | 238.2 | 262.6 | 300.2 | 268.0 | 182.1 |
| 413 | HE | 254.3 | 254.4 | 251.2 | 248.8 | 249.4 | 257.3 | 248.4 | 282.2 | 269.8 | 255.9 | 60.8 | 69.4 | 128.6 | 237.5 |
| 414 | HE | 253.8 | 258.6 | 261.2 | 257.5 | 257.6 | 261.9 | 246.0 | 264.1 | 261.1 | 256.3 | 90.4 | 37.1 | 34.6 | 71.4 |
| 415 | HE | 235.5 | 223.5 | 208.7 | 191.2 | 175.7 | 198.4 | 210.2 | 248.8 | 252.4 | 247.7 | 213.1 | 193.8 | 156.1 | 85.8 |
| 416 | HE | 266.9 | 260.0 | 249.0 | 244.4 | 237.3 | 254.9 | 245.9 | 289.8 | 269.4 | 257.9 | 242.4 | 237.9 | 176.5 | 152.3 |
| 417 | HE | 257.9 | 238.2 | 213.4 | 199.8 | 179.7 | 200.6 | 214.5 | 244.9 | 250.8 | 260.4 | 637.1 | 551.3 | 486.1 | 317.0 |
| 418 | HE | 255.5 | 263.5 | 260.0 | 261.0 | 265.0 | 268.0 | 247.0 | 258.5 | 260.0 | 259.0 | 348.5 | 281.5 | 301.0 | 289.0 |
| 419 | HE | 246.4 | 233.6 | 218.5 | 201.1 | 186.3 | 206.6 | 218.9 | 254.3 | 258.1 | 254.4 | 226.0 | 202.1 | 161.4 | 85.1 |
| 420 | HE | 249.0 | 231.5 | 209.5 | 192.5 | 173.5 | 195.0 | 201.5 | 243.5 | 241.5 | 249.5 | 623.0 | 540.5 | 516.5 | 286.0 |
| 421 | HE | 254.9 | 249.3 | 234.4 | 219.6 | 212.6 | 227.2 | 227.1 | 259.8 | 260.9 | 261.0 | 281.1 | 231.4 | 197.1 | 131.9 |
| 422 | HE | 185.5 | 187.5 | 192.5 | 192.0 | 188.0 | 189.5 | 169.0 | 193.5 | 188.5 | 190.0 | 250.5 | 210.5 | 281.5 | 317.5 |
| 423 | HE | 257.7 | 238.3 | 212.7 | 199.0 | 180.0 | 200.3 | 216.0 | 245.7 | 250.7 | 260.7 | 607.7 | 523.7 | 459.0 | 299.0 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 424 | HE | 189.6 | 190.0 | 191.0 | 191.4 | 188.1 | 189.7 | 164.1 | 189.4 | 189.7 | 189.6 | 176.7 | 156.3 | 226.7 | 268.7 |
| 425 | HE | 256.5 | 249.5 | 227.5 | 206.0 | 192.0 | 214.5 | 228.5 | 257.5 | 259.5 | 260.5 | 316.5 | 257.0 | 195.5 | 139.0 |
| 426 | HE | 76.8 | 69.3 | 53.7 | 30.8 | 26.1 | 40.9 | 40.0 | 71.2 | 72.4 | 75.8 | 193.0 | 180.4 | 164.7 | 73.2 |
| 427 | HE | 42.0 | 33.0 | 13.0 | -18.0 | -25.0 | -9.0 | -5.0 | 23.0 | 26.0 | 36.0 | 177.0 | 169.0 | 166.0 | 61.0 |
| 428 | HE | 169.1 | 170.5 | 170.8 | 168.7 | 167.1 | 164.6 | 147.4 | 175.3 | 171.0 | 166.6 | 116.6 | 97.1 | 142.3 | 144.3 |
| 429 | HE | 167.7 | 163.7 | 152.4 | 145.0 | 144.7 | 160.0 | 146.2 | 179.7 | 177.3 | 171.2 | 254.4 | 252.3 | 234.6 | 143.1 |
| 430 | HE | 119.2 | 114.2 | 107.4 | 96.8 | 89.0 | 102.6 | 91.2 | 122.4 | 119.8 | 118.0 | 174.0 | 182.4 | 177.8 | 92.4 |
| 431 | HE | 121.9 | 125.2 | 117.4 | 118.7 | 119.3 | 118.2 | 94.3 | 123.2 | 118.5 | 118.1 | 100.2 | 112.6 | 152.9 | 121.9 |
| 432 | HE | 258.1 | 263.7 | 266.6 | 261.1 | 262.6 | 270.1 | 259.5 | 291.0 | 280.8 | 267.1 | 70.1 | 58.5 | 52.1 | 129.2 |
| 433 | HE | 258.5 | 246.3 | 221.2 | 199.6 | 186.8 | 209.6 | 227.0 | 254.5 | 256.8 | 260.9 | 371.4 | 300.5 | 246.8 | 165.3 |
| 434 | HE | 209.0 | 215.8 | 220.2 | 214.4 | 209.3 | 212.0 | 195.2 | 230.1 | 230.6 | 221.1 | 25.4 | 19.9 | 39.5 | 108.5 |
| 435 | HE | 257.9 | 258.9 | 256.3 | 253.5 | 257.6 | 267.4 | 256.6 | 287.6 | 276.0 | 262.9 | 73.3 | 50.0 | 67.9 | 253.3 |
| 436 | HE | 183.2 | 183.3 | 185.7 | 183.9 | 181.1 | 176.6 | 161.2 | 190.4 | 186.2 | 182.3 | 121.5 | 97.9 | 150.2 | 153.6 |
| 437 | HE | 249.7 | 247.1 | 254.1 | 253.4 | 248.4 | 249.9 | 226.4 | 257.8 | 255.3 | 251.7 | 222.5 | 197.8 | 261.5 | 256.0 |
| 438 | HE | 253.0 | 253.1 | 249.5 | 243.3 | 234.2 | 248.6 | 230.4 | 265.5 | 258.5 | 258.8 | 269.0 | 298.4 | 316.2 | 235.2 |
| 439 | HE | 257.7 | 255.2 | 256.6 | 254.9 | 249.6 | 256.0 | 229.4 | 269.5 | 268.4 | 262.4 | 330.2 | 307.3 | 357.6 | 320.7 |
| 1 | MP | 248.0 | 246.9 | 253.6 | 253.3 | 248.1 | 249.9 | 256.2 | 267.5 | 256.8 | 246.1 | 262.7 | 241.5 | 277.8 | 291.6 |
| 2 | MP | 248.7 | 248.8 | 250.5 | 253.0 | 252.8 | 253.0 | 259.1 | 267.8 | 260.9 | 248.8 | 244.9 | 243.0 | 307.9 | 352.4 |
| 3 | MP | 85.5 | 80.4 | 71.1 | 50.6 | 47.1 | 57.1 | 81.7 | 88.6 | 85.1 | 85.7 | 183.6 | 167.6 | 155.5 | 68.1 |
| 4 | MP | 251.3 | 252.2 | 253.5 | 259.1 | 252.0 | 254.5 | 262.7 | 269.0 | 260.0 | 250.4 | 231.5 | 235.5 | 281.6 | 312.5 |
| 5 | MP | 221.9 | 221.4 | 224.5 | 218.9 | 219.0 | 215.8 | 231.8 | 234.7 | 229.2 | 228.8 | 156.1 | 151.9 | 235.4 | 197.8 |
| 6 | MP | 254.6 | 255.8 | 252.9 | 244.3 | 236.4 | 243.4 | 258.4 | 268.1 | 259.7 | 254.8 | 175.9 | 197.3 | 247.9 | 213.6 |
| 7 | MP | 248.7 | 249.5 | 253.6 | 254.1 | 252.6 | 252.7 | 260.7 | 271.4 | 263.4 | 249.2 | 245.6 | 232.9 | 309.9 | 340.8 |
| 8 | MP | 150.3 | 151.1 | 156.7 | 157.4 | 156.3 | 154.3 | 154.6 | 154.3 | 150.9 | 149.3 | 129.0 | 149.1 | 204.6 | 233.0 |
| 9 | MP | 252.1 | 249.5 | 247.5 | 242.4 | 239.7 | 242.4 | 251.1 | 259.8 | 257.9 | 247.7 | 196.8 | 173.8 | 194.2 | 220.4 |
| 10 | MP | 265.0 | 256.2 | 245.8 | 226.0 | 219.4 | 225.4 | 249.7 | 270.1 | 270.4 | 266.2 | 306.4 | 254.7 | 237.4 | 138.5 |
| 11 | MP | 259.1 | 246.8 | 230.0 | 205.8 | 192.2 | 205.8 | 234.0 | 257.3 | 256.3 | 257.9 | 354.6 | 338.1 | 317.9 | 165.7 |
| 12 | MP | 256.3 | 260.9 | 265.1 | 266.7 | 263.7 | 259.4 | 258.0 | 261.2 | 260.1 | 260.3 | 180.9 | 101.9 | 155.5 | 251.2 |
| 13 | MP | 261.7 | 261.7 | 266.3 | 265.8 | 261.7 | 259.2 | 259.0 | 260.8 | 258.8 | 259.1 | 196.4 | 127.8 | 291.0 | 422.8 |
| 14 | MP | 292.3 | 287.7 | 276.2 | 268.8 | 275.4 | 279.3 | 287.3 | 293.7 | 292.4 | 278.7 | 33.4 | 40.8 | 63.1 | 173.8 |
| 15 | MP | 215.0 | 208.7 | 201.3 | 181.2 | 170.4 | 182.4 | 199.4 | 214.1 | 213.1 | 213.8 | 272.9 | 267.0 | 230.8 | 115.7 |
| 16 | MP | 199.3 | 190.3 | 182.7 | 171.3 | 165.3 | 176.3 | 191.3 | 203.0 | 201.3 | 197.3 | 251.3 | 235.3 | 216.0 | 118.3 |
| 17 | MP | 260.0 | 254.8 | 264.8 | 263.4 | 263.0 | 260.5 | 260.8 | 264.1 | 262.4 | 259.9 | 139.5 | 101.0 | 239.6 | 375.4 |
| 18 | MP | 187.8 | 179.0 | 169.4 | 157.2 | 155.2 | 166.4 | 178.4 | 185.4 | 187.8 | 186.4 | 254.4 | 229.6 | 170.0 | 88.4 |
| 19 | MP | 257.0 | 261.0 | 264.0 | 265.0 | 264.0 | 262.0 | 263.0 | 265.0 | 262.0 | 263.0 | 131.0 | 105.0 | 172.0 | 230.0 |
| 20 | MP | 255.1 | 248.7 | 249.2 | 245.1 | 242.9 | 243.7 | 245.0 | 249.9 | 261.6 | 248.1 | 211.0 | 181.0 | 237.8 | 262.5 |
| 21 | MP | 258.7 | 247.6 | 240.1 | 233.3 | 233.5 | 250.2 | 266.3 | 275.6 | 271.0 | 243.6 | 286.3 | 264.4 | 227.3 | 181.1 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | MP | 252.0 | 264.0 | 263.0 | 262.0 | 258.0 | 251.0 | 248.0 | 250.0 | 252.0 | 254.0 | 227.0 | 84.0 | 109.0 | 233.0 |
| 23 | MP | 259.6 | 255.0 | 250.8 | 242.6 | 239.0 | 244.0 | 251.6 | 255.6 | 267.0 | 255.2 | 201.8 | 174.8 | 246.4 | 170.0 |
| 24 | MP | 272.5 | 271.3 | 269.8 | 269.1 | 268.3 | 265.6 | 261.4 | 258.1 | 263.7 | 262.0 | 240.7 | 142.5 | 225.2 | 335.7 |
| 25 | MP | 264.7 | 250.7 | 243.7 | 236.7 | 239.7 | 257.7 | 272.7 | 281.7 | 276.7 | 246.3 | 288.0 | 265.7 | 223.7 | 175.0 |
| 26 | MP | 297.9 | 284.5 | 275.6 | 281.0 | 288.8 | 287.0 | 287.5 | 299.3 | 292.3 | 277.9 | 161.9 | 126.1 | 153.1 | 262.0 |
| 27 | MP | 301.9 | 289.0 | 278.6 | 283.9 | 292.6 | 292.2 | 290.3 | 299.9 | 295.0 | 279.5 | 145.5 | 95.6 | 122.9 | 242.1 |
| 28 | MP | 300.3 | 287.4 | 275.4 | 279.1 | 287.9 | 288.0 | 287.8 | 297.7 | 292.9 | 277.7 | 130.0 | 99.6 | 137.4 | 290.5 |
| 29 | MP | 300.9 | 299.5 | 287.8 | 292.3 | 299.3 | 293.1 | 279.6 | 284.6 | 294.2 | 283.0 | 148.0 | 110.3 | 118.8 | 239.9 |
| 30 | MP | 303.0 | 291.0 | 281.0 | 286.0 | 294.0 | 294.0 | 292.0 | 301.0 | 297.0 | 280.0 | 145.0 | 99.0 | 129.0 | 233.0 |
| 31 | MP | 272.1 | 278.6 | 277.2 | 279.8 | 277.6 | 269.0 | 263.7 | 264.5 | 271.3 | 270.9 | 89.6 | 72.7 | 64.1 | 185.7 |
| 32 | MP | 300.1 | 288.9 | 274.1 | 275.7 | 285.1 | 287.3 | 285.6 | 293.7 | 292.2 | 275.9 | 115.1 | 82.5 | 131.1 | 323.6 |
| 33 | MP | 252.0 | 263.0 | 263.0 | 261.0 | 257.3 | 251.3 | 249.0 | 251.7 | 252.0 | 255.0 | 209.3 | 75.0 | 102.0 | 217.3 |
| 34 | MP | 257.4 | 260.2 | 264.7 | 264.1 | 262.2 | 261.2 | 263.0 | 264.7 | 261.9 | 263.3 | 123.6 | 115.7 | 186.9 | 244.2 |
| 35 | MP | 261.5 | 253.5 | 244.0 | 241.5 | 247.0 | 260.5 | 275.5 | 283.5 | 275.5 | 252.0 | 251.5 | 224.5 | 259.0 | 170.5 |
| 36 | MP | 256.2 | 251.1 | 247.1 | 239.4 | 236.1 | 241.3 | 247.6 | 250.9 | 261.6 | 250.6 | 205.5 | 175.6 | 245.4 | 181.8 |
| 37 | MP | 268.6 | 263.4 | 260.9 | 250.1 | 237.2 | 235.9 | 253.6 | 273.6 | 276.6 | 257.9 | 236.0 | 197.8 | 186.4 | 211.3 |
| 38 | MP | 303.4 | 291.1 | 280.9 | 286.2 | 294.6 | 293.8 | 291.6 | 301.8 | 296.8 | 280.8 | 145.7 | 97.8 | 126.1 | 235.2 |
| 39 | MP | 229.7 | 222.3 | 215.7 | 198.3 | 188.0 | 201.0 | 216.7 | 229.0 | 229.7 | 229.0 | 261.3 | 246.3 | 217.0 | 118.7 |
| 40 | MP | 242.9 | 236.0 | 235.9 | 226.6 | 219.7 | 220.2 | 227.7 | 242.6 | 255.5 | 236.3 | 241.0 | 187.4 | 192.8 | 213.8 |
| 41 | MP | 290.7 | 285.0 | 274.1 | 267.2 | 273.5 | 276.1 | 284.5 | 292.3 | 289.1 | 277.5 | 36.0 | 49.3 | 75.2 | 191.2 |
| 42 | MP | 263.0 | 243.0 | 229.0 | 207.5 | 200.0 | 214.0 | 248.0 | 270.0 | 272.0 | 269.0 | 208.5 | 220.5 | 166.5 | 57.0 |
| 43 | MP | 254.5 | 234.5 | 216.5 | 196.5 | 185.5 | 202.0 | 237.0 | 253.5 | 259.5 | 258.5 | 285.0 | 236.5 | 139.5 | 78.5 |
| 44 | MP | 263.3 | 260.6 | 254.8 | 241.6 | 232.5 | 243.9 | 268.4 | 286.0 | 276.1 | 260.6 | 266.4 | 239.4 | 226.1 | 159.1 |
| 45 | MP | 261.7 | 259.0 | 252.0 | 234.0 | 225.0 | 240.0 | 265.0 | 282.0 | 277.0 | 262.3 | 280.7 | 240.3 | 220.0 | 138.0 |
| 46 | MP | 263.0 | 243.0 | 229.0 | 207.5 | 200.0 | 214.0 | 248.0 | 270.0 | 272.0 | 269.0 | 208.5 | 220.5 | 166.5 | 57.0 |
| 47 | MP | 265.1 | 255.6 | 246.6 | 225.9 | 217.0 | 223.7 | 249.9 | 270.3 | 270.9 | 265.8 | 283.4 | 257.0 | 228.4 | 128.2 |
| 48 | MP | 252.3 | 241.2 | 226.5 | 203.7 | 190.6 | 203.2 | 228.7 | 250.3 | 249.3 | 251.2 | 328.3 | 317.2 | 292.0 | 152.5 |
| 49 | MP | 251.3 | 245.3 | 236.3 | 221.0 | 213.5 | 219.9 | 239.1 | 255.3 | 255.9 | 254.4 | 373.5 | 333.4 | 311.1 | 177.0 |
| 50 | MP | 284.0 | 279.0 | 264.0 | 257.7 | 258.0 | 263.3 | 270.0 | 277.0 | 271.7 | 270.0 | 26.0 | 55.7 | 72.3 | 252.3 |
| 51 | MP | 168.4 | 157.9 | 147.9 | 132.2 | 129.4 | 140.4 | 157.3 | 166.7 | 167.1 | 168.4 | 243.1 | 223.7 | 181.3 | 94.4 |
| 52 | MP | 227.0 | 207.9 | 190.2 | 171.4 | 160.5 | 176.3 | 206.7 | 226.1 | 229.0 | 230.3 | 242.0 | 209.7 | 139.8 | 77.1 |
| 53 | MP | 266.4 | 247.6 | 229.7 | 208.6 | 195.9 | 211.2 | 244.2 | 267.9 | 269.5 | 269.5 | 367.1 | 360.2 | 293.1 | 141.8 |
| 54 | MP | 221.8 | 214.0 | 202.8 | 188.2 | 181.6 | 189.9 | 209.4 | 225.7 | 224.1 | 223.4 | 297.0 | 286.4 | 258.9 | 139.3 |
| 55 | MP | 253.4 | 251.8 | 249.8 | 242.1 | 230.3 | 239.0 | 255.7 | 267.4 | 257.4 | 250.8 | 241.0 | 270.4 | 315.2 | 313.4 |
| 56 | MP | 252.7 | 248.1 | 247.0 | 255.0 | 257.6 | 261.0 | 265.3 | 266.6 | 258.9 | 250.0 | 250.4 | 291.1 | 307.4 | 354.9 |
| 57 | MP | 252.0 | 264.0 | 264.0 | 262.0 | 258.0 | 253.0 | 250.0 | 253.0 | 254.0 | 256.0 | 188.0 | 70.0 | 96.0 | 209.0 |
| 58 | MP | 251.0 | 263.0 | 263.0 | 261.0 | 257.0 | 251.0 | 249.0 | 252.0 | 253.0 | 255.0 | 197.0 | 72.0 | 98.0 | 211.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59 | MP | 300.0 | 287.0 | 274.0 | 278.0 | 288.0 | 287.0 | 285.0 | 294.0 | 290.0 | 274.0 | 118.0 | 79.0 | 115.0 | 264.0 |
| 60 | MP | 262.0 | 259.0 | 244.0 | 232.0 | 222.0 | 234.0 | 260.0 | 274.0 | 269.0 | 255.0 | 266.0 | 238.0 | 231.0 | 178.0 |
| 61 | MP | 236.5 | 229.0 | 220.0 | 200.5 | 189.0 | 200.5 | 220.5 | 236.0 | 236.0 | 236.0 | 284.5 | 273.0 | 245.0 | 132.0 |
| 62 | MP | 246.3 | 255.7 | 264.9 | 267.3 | 271.8 | 275.2 | 275.6 | 271.0 | 271.3 | 257.2 | 40.1 | 38.2 | 14.7 | 55.8 |
| 63 | MP | 254.3 | 259.7 | 263.4 | 266.8 | 264.4 | 265.5 | 265.2 | 264.1 | 262.8 | 259.9 | 189.5 | 89.3 | 87.7 | 79.1 |
| 64 | MP | 258.2 | 252.9 | 243.0 | 238.8 | 238.2 | 243.4 | 248.6 | 259.2 | 251.9 | 245.4 | 62.6 | 89.7 | 107.1 | 282.2 |
| 65 | MP | 257.0 | 262.0 | 263.0 | 257.0 | 252.0 | 251.0 | 254.0 | 255.0 | 256.0 | 257.0 | 143.0 | 139.0 | 201.0 | 134.0 |
| 66 | MP | 251.0 | 258.0 | 265.0 | 259.0 | 254.0 | 252.0 | 252.0 | 251.0 | 253.0 | 252.0 | 67.0 | 69.0 | 68.0 | 53.0 |
| 67 | MP | 172.7 | 172.4 | 175.4 | 172.7 | 173.1 | 165.1 | 179.2 | 181.0 | 179.0 | 172.6 | 119.6 | 118.7 | 173.4 | 146.7 |
| 68 | MP | 102.6 | 97.8 | 91.1 | 73.6 | 69.1 | 79.0 | 100.0 | 110.2 | 105.9 | 102.4 | 166.2 | 178.0 | 165.3 | 72.8 |
| 69 | MP | 199.4 | 202.9 | 200.6 | 191.0 | 184.0 | 189.0 | 203.3 | 208.9 | 206.6 | 200.0 | 354.1 | 341.6 | 309.1 | 182.1 |
| 70 | MP | 256.5 | 267.3 | 266.3 | 259.8 | 265.5 | 269.7 | 271.5 | 269.6 | 275.9 | 258.5 | 31.6 | 32.8 | 20.7 | 139.1 |
| 71 | MP | 296.3 | 294.7 | 279.0 | 265.0 | 263.0 | 266.0 | 277.3 | 283.0 | 279.0 | 275.3 | 19.3 | 29.7 | 33.3 | 177.7 |
| 72 | MP | 296.0 | 294.5 | 279.0 | 265.0 | 263.0 | 266.0 | 277.0 | 283.0 | 279.0 | 275.0 | 19.5 | 30.0 | 33.5 | 178.5 |
| 73 | MP | 241.0 | 240.5 | 238.5 | 239.5 | 237.5 | 239.5 | 244.0 | 243.5 | 243.0 | 239.0 | 267.5 | 259.0 | 339.0 | 424.0 |
| 74 | MP | 244.3 | 243.8 | 241.5 | 221.5 | 207.3 | 217.4 | 239.1 | 257.0 | 251.9 | 242.2 | 232.7 | 234.2 | 232.8 | 208.8 |
| 75 | MP | 250.3 | 247.0 | 245.2 | 249.3 | 253.7 | 257.5 | 261.7 | 263.1 | 255.6 | 247.5 | 323.2 | 288.4 | 326.0 | 397.1 |
| 76 | MP | 256.2 | 256.4 | 253.3 | 252.0 | 248.7 | 244.7 | 244.3 | 245.4 | 247.0 | 249.6 | 194.6 | 102.8 | 230.7 | 283.9 |
| 77 | MP | 234.3 | 232.3 | 232.0 | 214.0 | 197.3 | 212.7 | 233.7 | 247.0 | 243.3 | 230.0 | 279.3 | 236.7 | 254.0 | 164.7 |
| 78 | MP | 235.9 | 220.7 | 226.0 | 201.3 | 194.8 | 188.2 | 212.0 | 237.4 | 240.7 | 223.7 | 370.6 | 258.4 | 258.5 | 194.3 |
| 79 | MP | 192.0 | 192.3 | 202.0 | 204.0 | 202.0 | 200.3 | 204.0 | 204.3 | 200.7 | 196.7 | 232.0 | 223.7 | 314.0 | 360.7 |
| 80 | MP | 160.0 | 161.7 | 168.3 | 170.3 | 169.3 | 168.3 | 169.7 | 168.3 | 165.0 | 162.3 | 193.0 | 187.0 | 266.7 | 305.7 |
| 81 | MP | 235.1 | 229.7 | 233.7 | 217.9 | 204.7 | 217.0 | 239.7 | 254.3 | 248.3 | 233.5 | 222.1 | 207.3 | 223.5 | 123.7 |
| 82 | MP | 237.6 | 244.7 | 249.0 | 249.3 | 247.4 | 241.2 | 237.8 | 234.6 | 237.8 | 242.6 | 94.2 | 58.3 | 46.8 | 148.7 |
| 83 | MP | 274.9 | 264.8 | 258.2 | 258.2 | 263.7 | 265.3 | 267.8 | 279.1 | 270.3 | 262.2 | 174.6 | 121.4 | 152.6 | 260.4 |
| 84 | MP | 234.6 | 223.8 | 201.9 | 183.9 | 185.0 | 190.6 | 217.4 | 242.7 | 247.3 | 230.8 | 316.4 | 283.7 | 250.7 | 123.9 |
| 85 | MP | 275.3 | 284.3 | 280.0 | 265.5 | 268.4 | 274.4 | 287.4 | 285.7 | 291.4 | 275.3 | 16.0 | 15.2 | 18.2 | 102.3 |
| 86 | MP | 252.2 | 261.4 | 261.9 | 261.5 | 265.7 | 262.0 | 254.6 | 253.8 | 260.0 | 253.7 | 56.2 | 48.9 | 37.7 | 157.9 |
| 87 | MP | 259.3 | 256.5 | 253.2 | 243.6 | 237.7 | 246.1 | 266.5 | 279.4 | 272.3 | 255.1 | 304.0 | 237.2 | 283.3 | 199.1 |
| 88 | MP | 288.9 | 290.0 | 278.8 | 281.4 | 289.6 | 283.8 | 270.1 | 273.3 | 282.9 | 275.1 | 108.2 | 75.5 | 102.2 | 259.4 |
| 89 | MP | 269.4 | 257.6 | 263.0 | 258.8 | 256.4 | 256.6 | 265.2 | 276.1 | 272.0 | 259.7 | 41.1 | 116.3 | 142.5 | 343.1 |
| 90 | MP | 260.5 | 257.2 | 255.4 | 246.1 | 235.9 | 233.2 | 243.7 | 260.8 | 269.3 | 251.3 | 222.9 | 169.4 | 188.9 | 219.4 |
| 91 | MP | 280.0 | 275.0 | 270.2 | 267.1 | 259.9 | 256.5 | 265.5 | 281.1 | 283.8 | 266.5 | 217.4 | 147.0 | 151.9 | 237.3 |
| 92 | MP | 243.2 | 247.3 | 253.0 | 247.7 | 242.2 | 243.5 | 245.3 | 243.4 | 243.2 | 247.2 | 128.2 | 105.8 | 149.8 | 201.8 |
| 93 | MP | 273.7 | 267.2 | 256.6 | 252.0 | 257.5 | 259.6 | 263.9 | 274.2 | 269.5 | 260.3 | 56.7 | 64.1 | 82.8 | 181.0 |
| 94 | MP | 286.1 | 288.8 | 279.3 | 266.5 | 273.0 | 278.7 | 289.6 | 291.3 | 294.5 | 277.9 | 17.2 | 19.0 | 28.0 | 112.0 |
| 95 | MP | 264.2 | 259.0 | 259.0 | 261.7 | 255.8 | 260.9 | 272.1 | 282.8 | 275.7 | 258.6 | 301.5 | 247.1 | 254.3 | 238.3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96 | MP | 256.0 | 250.4 | 245.3 | 239.0 | 239.0 | 249.0 | 267.8 | 279.8 | 267.4 | 246.3 | 277.0 | 227.6 | 257.8 | 192.1 |
| 97 | MP | 240.8 | 233.9 | 233.8 | 229.2 | 227.5 | 229.1 | 231.0 | 236.7 | 248.8 | 234.1 | 208.7 | 183.6 | 238.1 | 258.6 |
| 98 | MP | 256.7 | 264.8 | 266.8 | 269.2 | 266.5 | 258.5 | 254.1 | 252.9 | 255.3 | 258.4 | 120.7 | 65.1 | 68.6 | 191.3 |
| 99 | MP | 270.5 | 265.6 | 262.8 | 252.7 | 239.0 | 238.5 | 257.0 | 277.2 | 279.4 | 260.3 | 242.6 | 200.1 | 188.6 | 211.4 |
| 100 | MP | 282.5 | 279.7 | 274.5 | 270.9 | 264.1 | 259.2 | 265.2 | 279.4 | 285.6 | 269.3 | 190.0 | 124.6 | 144.0 | 227.7 |
| 101 | MP | 272.1 | 271.7 | 267.0 | 263.3 | 256.0 | 250.3 | 254.2 | 266.7 | 275.7 | 261.0 | 191.8 | 118.3 | 147.7 | 225.8 |
| 102 | MP | 262.2 | 257.5 | 258.7 | 251.3 | 242.8 | 251.7 | 267.2 | 279.3 | 274.0 | 257.2 | 299.1 | 197.2 | 254.4 | 217.4 |
| 103 | MP | 255.9 | 249.9 | 245.4 | 245.1 | 243.4 | 251.8 | 268.8 | 279.1 | 268.2 | 247.5 | 243.5 | 241.2 | 245.8 | 204.1 |
| 104 | MP | 245.6 | 237.6 | 236.1 | 232.2 | 231.3 | 232.6 | 233.8 | 240.1 | 252.4 | 237.1 | 211.3 | 180.8 | 215.4 | 258.5 |
| 105 | MP | 279.0 | 275.8 | 271.5 | 266.2 | 257.6 | 253.5 | 262.4 | 278.4 | 283.8 | 266.5 | 208.0 | 145.5 | 156.1 | 234.1 |
| 106 | MP | 261.9 | 258.1 | 255.9 | 248.0 | 242.1 | 250.6 | 268.8 | 280.9 | 274.9 | 257.5 | 284.9 | 218.2 | 258.9 | 202.7 |
| 107 | MP | 257.3 | 249.2 | 249.9 | 233.1 | 220.3 | 218.5 | 239.7 | 262.2 | 265.6 | 246.6 | 258.7 | 226.9 | 212.4 | 201.2 |
| 108 | MP | 255.4 | 252.3 | 250.7 | 240.0 | 233.0 | 242.5 | 262.6 | 275.0 | 267.4 | 250.4 | 322.5 | 242.8 | 304.1 | 199.2 |
| 109 | MP | 261.1 | 254.3 | 255.6 | 246.3 | 233.2 | 237.3 | 256.9 | 276.3 | 273.0 | 253.9 | 326.2 | 211.7 | 215.1 | 233.6 |
| 110 | MP | 246.3 | 245.0 | 240.7 | 227.5 | 214.1 | 226.4 | 247.4 | 261.8 | 256.6 | 242.2 | 246.2 | 238.5 | 223.8 | 210.2 |
| 111 | MP | 240.8 | 237.3 | 231.9 | 229.6 | 225.3 | 237.7 | 256.4 | 263.5 | 253.5 | 235.5 | 274.9 | 266.7 | 296.8 | 204.2 |
| 112 | MP | 255.1 | 262.1 | 259.5 | 264.2 | 266.4 | 256.2 | 248.1 | 247.4 | 252.8 | 254.2 | 86.8 | 62.9 | 56.2 | 163.5 |
| 113 | MP | 288.8 | 282.0 | 275.7 | 275.7 | 272.5 | 268.9 | 273.3 | 286.2 | 287.7 | 271.7 | 201.1 | 133.3 | 146.7 | 258.9 |
| 114 | MP | 245.2 | 240.1 | 235.5 | 234.3 | 231.1 | 243.2 | 260.6 | 267.7 | 256.7 | 237.6 | 261.0 | 266.3 | 283.5 | 200.0 |
| 115 | MP | 254.4 | 266.9 | 267.7 | 255.1 | 256.9 | 261.6 | 270.1 | 267.7 | 273.4 | 259.0 | 28.0 | 16.4 | 14.9 | 77.6 |
| 116 | MP | 251.0 | 248.7 | 244.7 | 232.7 | 225.4 | 235.5 | 252.9 | 267.7 | 261.6 | 247.0 | 242.9 | 244.8 | 253.5 | 204.9 |
| 117 | MP | 246.6 | 245.1 | 240.0 | 228.0 | 214.4 | 227.7 | 249.4 | 262.8 | 256.8 | 242.5 | 254.3 | 241.3 | 224.2 | 210.7 |
| 118 | MP | 290.1 | 289.6 | 278.0 | 281.5 | 289.3 | 283.2 | 269.4 | 273.2 | 282.9 | 274.0 | 126.6 | 84.3 | 115.9 | 242.2 |
| 119 | MP | 271.4 | 274.9 | 267.0 | 263.9 | 260.6 | 254.8 | 252.2 | 258.5 | 269.5 | 260.2 | 157.3 | 84.1 | 96.2 | 199.0 |
| 120 | MP | 250.6 | 243.7 | 242.4 | 238.9 | 237.4 | 238.1 | 239.0 | 244.1 | 256.1 | 242.0 | 212.0 | 178.5 | 219.0 | 262.1 |
| 121 | MP | 267.9 | 260.7 | 258.8 | 266.4 | 267.8 | 270.1 | 278.0 | 285.6 | 274.3 | 258.7 | 257.3 | 242.1 | 297.2 | 339.4 |
| 122 | MP | 262.0 | 255.4 | 255.5 | 243.3 | 227.6 | 232.2 | 255.3 | 276.0 | 273.5 | 254.0 | 348.8 | 224.3 | 231.2 | 245.4 |
| 123 | MP | 266.2 | 260.6 | 261.0 | 267.3 | 262.1 | 264.1 | 274.0 | 285.0 | 276.7 | 260.6 | 287.4 | 253.5 | 279.5 | 265.0 |
| 124 | MP | 256.2 | 250.0 | 251.6 | 238.1 | 223.6 | 231.8 | 253.2 | 270.1 | 266.6 | 249.2 | 364.6 | 238.9 | 237.2 | 227.4 |
| 125 | MP | 294.2 | 292.2 | 277.6 | 279.9 | 289.5 | 287.3 | 275.1 | 279.3 | 287.6 | 275.4 | 109.6 | 71.5 | 106.3 | 245.0 |
| 126 | MP | 251.0 | 247.0 | 248.0 | 236.0 | 226.0 | 237.0 | 256.0 | 269.0 | 261.0 | 246.0 | 299.0 | 233.0 | 306.0 | 196.0 |
| 127 | MP | 248.0 | 245.0 | 247.0 | 233.0 | 223.0 | 235.0 | 253.0 | 265.0 | 259.0 | 243.0 | 282.0 | 246.0 | 294.0 | 199.0 |
| 128 | MP | 260.4 | 256.5 | 256.9 | 247.6 | 239.0 | 247.7 | 265.1 | 277.2 | 272.7 | 255.8 | 301.3 | 205.3 | 261.5 | 207.5 |
| 129 | MP | 261.9 | 255.0 | 247.2 | 244.0 | 246.6 | 259.2 | 274.0 | 282.4 | 276.0 | 254.0 | 267.2 | 222.0 | 262.8 | 183.8 |
| 130 | MP | 251.0 | 248.0 | 249.0 | 236.0 | 227.0 | 237.0 | 256.0 | 269.0 | 263.0 | 247.0 | 302.0 | 233.0 | 303.0 | 198.0 |
| 131 | MP | 249.8 | 246.2 | 247.0 | 234.6 | 225.2 | 236.2 | 255.2 | 267.2 | 260.0 | 244.4 | 296.2 | 232.0 | 305.0 | 196.2 |
| 132 | MP | 251.0 | 248.0 | 249.0 | 236.0 | 227.0 | 239.0 | 258.0 | 269.0 | 262.0 | 247.0 | 302.0 | 233.0 | 305.0 | 197.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133 | MP | 260.0 | 252.0 | 243.0 | 240.0 | 246.0 | 258.3 | 274.0 | 283.3 | 273.3 | 250.0 | 251.7 | 223.7 | 251.3 | 177.0 |
| 134 | MP | 250.0 | 247.0 | 247.0 | 234.0 | 226.0 | 237.0 | 257.0 | 268.0 | 260.0 | 244.0 | 295.0 | 233.0 | 303.0 | 193.0 |
| 135 | MP | 243.3 | 248.2 | 253.5 | 247.8 | 241.7 | 242.2 | 242.8 | 239.6 | 240.8 | 245.8 | 143.9 | 112.3 | 143.4 | 198.6 |
| 136 | MP | 253.9 | 248.9 | 249.0 | 237.1 | 226.6 | 225.3 | 237.6 | 256.3 | 265.3 | 246.0 | 244.8 | 194.7 | 192.5 | 218.3 |
| 137 | MP | 254.8 | 250.2 | 251.9 | 239.4 | 226.3 | 236.0 | 254.9 | 269.1 | 265.5 | 249.2 | 357.2 | 247.6 | 267.6 | 234.7 |
| 138 | MP | 294.2 | 287.4 | 277.9 | 279.5 | 279.7 | 276.2 | 276.0 | 285.8 | 289.2 | 273.5 | 182.0 | 121.1 | 127.3 | 237.9 |
| 139 | MP | 245.3 | 252.8 | 254.1 | 257.3 | 257.5 | 249.3 | 244.3 | 242.5 | 245.4 | 249.0 | 94.0 | 62.3 | 52.2 | 159.8 |
| 140 | MP | 301.6 | 289.8 | 276.5 | 279.3 | 288.3 | 289.6 | 286.9 | 295.3 | 293.5 | 277.3 | 117.7 | 81.4 | 120.6 | 281.3 |
| 141 | MP | 256.5 | 250.0 | 250.6 | 237.3 | 222.1 | 228.9 | 251.5 | 270.3 | 267.3 | 248.9 | 358.2 | 228.9 | 228.7 | 233.5 |
| 142 | MP | 266.9 | 259.7 | 261.1 | 266.2 | 261.6 | 264.9 | 273.8 | 286.1 | 278.2 | 260.0 | 290.2 | 259.2 | 247.2 | 240.6 |
| 143 | MP | 272.0 | 277.7 | 271.3 | 271.8 | 278.4 | 273.3 | 261.9 | 263.3 | 272.0 | 265.6 | 74.9 | 54.0 | 63.7 | 219.9 |
| 144 | MP | 243.4 | 250.3 | 256.9 | 254.4 | 249.2 | 247.0 | 245.9 | 245.1 | 246.7 | 245.9 | 82.0 | 91.9 | 101.8 | 72.7 |
| 145 | MP | 238.6 | 246.9 | 253.8 | 259.2 | 262.0 | 262.4 | 256.6 | 253.5 | 254.0 | 244.2 | 98.6 | 65.1 | 39.6 | 29.2 |
| 146 | MP | 238.1 | 247.7 | 252.8 | 251.7 | 254.0 | 254.2 | 253.8 | 253.4 | 250.9 | 241.9 | 49.7 | 28.1 | 12.3 | 21.0 |
| 147 | MP | 240.8 | 249.0 | 253.6 | 255.2 | 256.6 | 257.2 | 254.6 | 253.8 | 252.8 | 243.4 | 68.2 | 38.8 | 17.2 | 22.2 |
| 148 | MP | 277.7 | 285.9 | 279.1 | 261.6 | 256.6 | 261.4 | 271.7 | 277.5 | 273.4 | 267.4 | 15.4 | 13.3 | 9.6 | 90.4 |
| 149 | MP | 208.8 | 217.8 | 226.7 | 229.0 | 231.6 | 233.4 | 228.7 | 226.8 | 225.8 | 214.0 | 60.1 | 41.7 | 18.2 | 38.4 |
| 150 | MP | 239.5 | 251.5 | 256.0 | 251.9 | 254.3 | 254.9 | 256.8 | 256.3 | 254.4 | 242.8 | 29.5 | 17.6 | 7.3 | 19.0 |
| 151 | MP | 238.3 | 250.4 | 255.0 | 246.9 | 244.4 | 249.6 | 254.1 | 257.4 | 253.4 | 239.5 | 38.4 | 18.1 | 10.5 | 74.2 |
| 152 | MP | 239.0 | 247.0 | 252.5 | 258.1 | 259.8 | 259.9 | 256.4 | 253.1 | 253.1 | 245.6 | 130.9 | 76.4 | 64.7 | 52.3 |
| 153 | MP | 240.6 | 251.4 | 256.8 | 252.9 | 254.4 | 254.8 | 256.4 | 257.2 | 254.8 | 244.4 | 36.5 | 23.4 | 9.0 | 24.7 |
| 154 | MP | 267.3 | 266.3 | 253.7 | 241.1 | 238.0 | 243.7 | 253.5 | 259.9 | 255.5 | 251.2 | 20.2 | 30.6 | 41.1 | 179.1 |
| 155 | MP | 257.4 | 252.6 | 242.8 | 238.4 | 237.6 | 242.9 | 248.1 | 258.5 | 251.3 | 244.7 | 60.5 | 86.3 | 103.2 | 278.7 |
| 156 | MP | 257.0 | 262.0 | 263.0 | 256.0 | 251.0 | 250.0 | 253.0 | 255.0 | 257.0 | 257.0 | 143.0 | 142.0 | 202.0 | 131.0 |
| 157 | MP | 288.0 | 285.0 | 269.0 | 257.0 | 255.0 | 261.0 | 271.0 | 278.0 | 274.0 | 271.0 | 20.0 | 35.0 | 46.0 | 192.0 |
| 158 | MP | 235.3 | 217.0 | 201.0 | 184.5 | 172.0 | 193.0 | 223.8 | 239.0 | 243.0 | 240.8 | 174.3 | 159.5 | 110.5 | 105.0 |
| 159 | MP | 231.3 | 238.8 | 239.5 | 234.0 | 232.6 | 236.6 | 239.8 | 243.8 | 239.9 | 228.9 | 42.3 | 33.8 | 30.0 | 126.0 |
| 160 | MP | 253.6 | 257.2 | 261.0 | 268.0 | 270.2 | 270.0 | 272.6 | 270.0 | 266.6 | 257.0 | 103.0 | 54.4 | 27.0 | 30.6 |
| 161 | MP | 249.0 | 254.0 | 258.0 | 261.4 | 260.4 | 259.4 | 260.8 | 260.2 | 258.6 | 251.6 | 72.8 | 41.8 | 27.2 | 29.6 |
| 162 | MP | 246.3 | 252.7 | 257.7 | 259.7 | 258.0 | 255.8 | 257.3 | 257.7 | 256.3 | 250.0 | 71.2 | 44.3 | 36.0 | 33.8 |
| 163 | MP | 239.5 | 244.9 | 251.3 | 256.3 | 255.1 | 252.6 | 250.8 | 249.9 | 249.9 | 244.5 | 73.0 | 71.1 | 66.3 | 43.9 |
| 164 | MP | 244.9 | 244.6 | 241.1 | 225.8 | 216.5 | 226.1 | 242.2 | 259.1 | 252.9 | 242.3 | 239.6 | 223.0 | 244.1 | 224.1 |
| 165 | MP | 287.7 | 284.1 | 275.8 | 275.2 | 273.8 | 268.5 | 268.7 | 279.4 | 286.1 | 271.1 | 191.8 | 121.1 | 130.6 | 228.6 |
| 166 | MP | 211.5 | 193.1 | 176.1 | 159.6 | 147.6 | 162.8 | 191.0 | 210.4 | 211.6 | 213.6 | 201.2 | 190.0 | 132.8 | 86.9 |
| 167 | MP | 300.9 | 287.5 | 277.1 | 281.7 | 290.1 | 289.2 | 289.5 | 300.5 | 294.3 | 279.7 | 155.4 | 124.3 | 152.3 | 277.8 |
| 168 | MP | 237.3 | 232.8 | 226.4 | 212.1 | 204.4 | 210.9 | 227.0 | 240.7 | 240.4 | 239.9 | 492.7 | 449.9 | 398.3 | 236.4 |
| 169 | MP | 235.8 | 242.7 | 249.9 | 245.7 | 239.2 | 237.6 | 234.5 | 230.6 | 235.2 | 238.8 | 92.5 | 90.7 | 105.8 | 122.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 170 | MP | 257.3 | 252.3 | 254.5 | 243.3 | 231.7 | 240.4 | 258.1 | 272.5 | 268.5 | 251.8 | 354.9 | 242.1 | 278.1 | 247.1 |
| 171 | MP | 196.7 | 206.3 | 216.1 | 217.8 | 220.3 | 223.0 | 218.4 | 216.6 | 215.3 | 202.3 | 53.6 | 38.9 | 17.0 | 50.9 |
| 172 | MP | 187.0 | 169.4 | 150.3 | 126.9 | 115.7 | 132.3 | 160.6 | 190.6 | 186.8 | 191.4 | 346.3 | 296.8 | 271.1 | 126.8 |
| 173 | MP | 134.9 | 137.1 | 136.7 | 136.3 | 135.8 | 132.5 | 133.4 | 135.1 | 134.5 | 130.9 | 140.3 | 170.0 | 214.8 | 239.2 |
| 174 | MP | 215.7 | 217.6 | 216.6 | 208.9 | 206.7 | 209.8 | 222.9 | 226.8 | 223.0 | 221.9 | 214.8 | 210.8 | 268.2 | 217.7 |
| 175 | MP | 235.7 | 242.7 | 249.1 | 243.6 | 236.4 | 235.3 | 233.1 | 227.9 | 231.9 | 237.4 | 98.3 | 92.8 | 114.4 | 138.3 |
| 176 | MP | 247.0 | 251.4 | 256.6 | 249.2 | 241.8 | 241.4 | 240.1 | 236.9 | 240.5 | 246.8 | 179.2 | 116.3 | 136.2 | 188.3 |
| 177 | MP | 269.5 | 266.7 | 263.7 | 256.1 | 246.0 | 242.4 | 252.5 | 269.3 | 276.1 | 258.9 | 226.2 | 168.3 | 196.6 | 238.7 |
| 178 | MP | 250.9 | 249.6 | 249.9 | 247.9 | 247.6 | 248.9 | 257.8 | 269.3 | 261.0 | 254.0 | 152.0 | 167.6 | 237.7 | 322.4 |
| 179 | MP | 195.6 | 195.2 | 204.1 | 205.7 | 203.8 | 203.7 | 207.1 | 207.3 | 203.5 | 199.0 | 228.1 | 220.4 | 311.6 | 353.5 |
| 180 | MP | 287.9 | 273.7 | 264.7 | 270.5 | 279.4 | 277.1 | 281.6 | 294.8 | 284.4 | 271.2 | 149.2 | 131.5 | 160.8 | 307.9 |
| 181 | MP | 260.2 | 253.4 | 253.2 | 239.6 | 223.9 | 228.5 | 252.3 | 273.1 | 271.2 | 251.6 | 347.7 | 223.0 | 234.8 | 245.8 |
| 182 | MP | 218.8 | 224.7 | 236.5 | 244.9 | 249.6 | 251.6 | 246.8 | 241.4 | 236.5 | 227.2 | 279.8 | 185.4 | 91.5 | 59.5 |
| 183 | MP | 128.8 | 130.7 | 131.7 | 131.1 | 130.2 | 126.8 | 126.5 | 127.3 | 125.8 | 122.7 | 99.8 | 133.7 | 169.7 | 215.5 |
| 184 | MP | 216.6 | 209.1 | 199.3 | 184.3 | 178.2 | 186.4 | 205.0 | 219.6 | 218.8 | 218.0 | 327.1 | 304.2 | 276.0 | 151.1 |
| 185 | MP | 221.8 | 222.1 | 216.7 | 203.1 | 197.3 | 208.1 | 220.4 | 234.8 | 227.9 | 220.4 | 315.9 | 296.6 | 297.2 | 231.0 |
| 186 | MP | 260.5 | 254.5 | 249.1 | 248.5 | 248.0 | 256.1 | 272.4 | 283.1 | 272.6 | 252.2 | 260.9 | 225.0 | 234.3 | 194.3 |
| 187 | MP | 236.7 | 242.6 | 248.3 | 243.8 | 237.9 | 236.8 | 236.0 | 231.5 | 233.9 | 239.5 | 108.6 | 83.7 | 103.6 | 164.6 |
| 188 | MP | 173.9 | 180.6 | 192.8 | 200.6 | 203.8 | 206.3 | 198.0 | 193.4 | 191.8 | 181.5 | 70.3 | 50.2 | 36.0 | 37.6 |
| 189 | MP | 269.9 | 261.0 | 263.2 | 270.0 | 267.0 | 267.9 | 274.2 | 289.2 | 281.1 | 262.7 | 266.0 | 224.0 | 261.3 | 306.3 |
| 190 | MP | 187.6 | 187.5 | 186.2 | 184.8 | 184.7 | 184.3 | 184.2 | 187.8 | 185.7 | 184.5 | 129.8 | 164.2 | 227.4 | 323.5 |
| 191 | MP | 250.7 | 247.0 | 247.3 | 252.4 | 253.6 | 258.8 | 258.0 | 262.1 | 256.1 | 247.4 | 274.1 | 262.0 | 305.1 | 306.5 |
| 192 | MP | 253.1 | 249.2 | 255.2 | 252.2 | 255.5 | 253.6 | 257.5 | 264.4 | 266.2 | 249.5 | 212.9 | 241.8 | 343.7 | 386.8 |
| 193 | MP | 143.1 | 145.3 | 145.9 | 144.4 | 144.3 | 140.7 | 138.9 | 141.2 | 140.4 | 138.2 | 128.2 | 144.8 | 175.1 | 235.2 |
| 194 | MP | 200.9 | 198.4 | 196.3 | 191.9 | 187.9 | 191.0 | 196.0 | 198.5 | 197.7 | 199.7 | 67.0 | 124.5 | 160.1 | 252.5 |
| 195 | MP | 138.0 | 138.0 | 138.5 | 137.5 | 134.5 | 133.5 | 132.0 | 139.0 | 136.5 | 132.5 | 112.5 | 153.5 | 214.0 | 297.5 |
| 196 | MP | 250.6 | 249.6 | 248.9 | 246.8 | 246.7 | 248.8 | 256.5 | 266.8 | 257.5 | 253.0 | 136.4 | 170.6 | 245.2 | 368.1 |
| 197 | MP | 250.0 | 246.9 | 248.6 | 249.4 | 253.1 | 254.6 | 256.9 | 260.2 | 257.6 | 246.7 | 290.3 | 280.8 | 364.8 | 416.4 |
| 198 | MP | 188.4 | 187.9 | 186.4 | 185.6 | 185.8 | 184.8 | 184.7 | 187.6 | 186.2 | 184.8 | 166.6 | 188.4 | 258.2 | 352.3 |
| 199 | MP | 259.2 | 252.5 | 260.5 | 254.9 | 253.8 | 251.4 | 262.5 | 274.7 | 275.0 | 255.5 | 65.6 | 154.4 | 201.8 | 352.8 |
| 200 | MP | 259.2 | 250.2 | 251.9 | 246.1 | 242.3 | 242.7 | 251.4 | 257.0 | 255.8 | 254.9 | 36.0 | 114.9 | 144.7 | 345.7 |
| 201 | MP | 111.6 | 112.6 | 112.2 | 108.4 | 108.2 | 109.8 | 107.7 | 108.5 | 106.4 | 107.1 | 39.9 | 76.0 | 110.3 | 219.5 |
| 202 | MP | 254.9 | 249.7 | 247.1 | 244.0 | 240.0 | 241.4 | 250.1 | 253.2 | 252.4 | 253.2 | 67.0 | 167.4 | 249.0 | 418.3 |
| 203 | MP | 252.1 | 248.3 | 252.4 | 249.1 | 252.0 | 252.1 | 256.5 | 262.1 | 260.5 | 247.5 | 246.6 | 244.4 | 328.4 | 399.9 |
| 204 | MP | 227.3 | 219.6 | 213.7 | 197.4 | 182.9 | 198.2 | 229.4 | 245.5 | 244.5 | 231.0 | 239.6 | 208.8 | 228.2 | 121.9 |
| 205 | MP | 147.6 | 146.4 | 137.6 | 121.3 | 117.9 | 129.5 | 147.8 | 159.6 | 154.8 | 149.0 | 230.9 | 221.0 | 226.8 | 122.5 |
| 206 | MP | 233.8 | 229.7 | 233.6 | 219.9 | 212.2 | 222.4 | 242.1 | 255.6 | 242.4 | 226.2 | 247.2 | 217.5 | 235.8 | 161.3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 207 | MP | 250.3 | 247.8 | 239.0 | 233.0 | 234.1 | 238.6 | 242.6 | 252.7 | 247.9 | 240.1 | 48.7 | 68.9 | 74.2 | 198.8 |
| 208 | MP | 271.0 | 260.8 | 251.9 | 251.9 | 258.2 | 259.4 | 261.8 | 273.5 | 265.4 | 256.6 | 138.3 | 117.6 | 130.8 | 241.3 |
| 209 | MP | 139.0 | 140.6 | 141.4 | 143.6 | 141.1 | 138.3 | 140.9 | 140.2 | 138.3 | 136.2 | 153.3 | 203.7 | 224.1 | 178.9 |
| 210 | MP | 147.0 | 145.8 | 139.3 | 127.8 | 126.8 | 124.7 | 138.8 | 146.7 | 147.7 | 146.5 | 105.5 | 143.9 | 183.5 | 122.6 |
| 211 | MP | 257.2 | 248.8 | 248.9 | 231.6 | 216.8 | 216.7 | 241.3 | 264.1 | 265.7 | 246.4 | 302.0 | 238.7 | 230.6 | 225.3 |
| 212 | MP | 130.4 | 130.5 | 134.6 | 134.0 | 133.8 | 132.5 | 131.8 | 131.0 | 128.0 | 124.9 | 126.7 | 172.0 | 205.2 | 248.3 |
| 213 | MP | 251.3 | 247.0 | 249.9 | 236.2 | 229.1 | 230.8 | 256.4 | 274.2 | 260.4 | 244.9 | 235.5 | 215.5 | 213.2 | 160.6 |
| 214 | MP | 278.6 | 280.5 | 272.5 | 260.7 | 265.0 | 269.8 | 281.0 | 284.5 | 285.1 | 272.2 | 17.8 | 23.9 | 32.5 | 123.6 |
| 215 | MP | 251.5 | 251.1 | 248.8 | 240.1 | 230.1 | 237.8 | 253.9 | 266.3 | 257.1 | 250.4 | 228.5 | 252.7 | 316.2 | 285.5 |
| 216 | MP | 247.2 | 242.4 | 239.6 | 232.9 | 227.6 | 228.3 | 233.2 | 245.4 | 258.0 | 239.5 | 213.5 | 171.5 | 172.4 | 202.6 |
| 217 | MP | 259.5 | 249.2 | 239.7 | 239.7 | 244.3 | 246.1 | 248.3 | 260.4 | 252.4 | 245.0 | 111.0 | 119.2 | 128.0 | 245.1 |
| 218 | MP | 169.2 | 170.6 | 169.5 | 169.9 | 168.9 | 167.5 | 169.8 | 171.4 | 170.8 | 166.7 | 224.5 | 263.7 | 346.5 | 451.0 |
| 219 | MP | 197.5 | 200.5 | 197.5 | 190.0 | 185.5 | 189.5 | 199.0 | 200.5 | 206.0 | 202.0 | 235.5 | 223.5 | 217.0 | 135.5 |
| 220 | MP | 58.0 | 38.8 | 26.8 | 2.7 | -1.3 | 14.2 | 35.9 | 50.1 | 61.5 | 67.6 | 220.3 | 187.1 | 153.7 | 51.8 |
| 221 | MP | 281.3 | 287.1 | 280.7 | 266.1 | 271.0 | 277.0 | 289.5 | 289.2 | 293.9 | 277.5 | 14.9 | 16.2 | 23.1 | 110.9 |
| 222 | MP | 151.7 | 143.7 | 129.3 | 110.3 | 105.4 | 119.9 | 138.2 | 146.6 | 149.3 | 152.3 | 214.7 | 195.7 | 136.0 | 57.7 |
| 223 | MP | 260.0 | 244.9 | 225.5 | 201.2 | 185.5 | 202.4 | 232.6 | 259.3 | 257.3 | 258.5 | 502.9 | 446.6 | 444.8 | 237.5 |
| 224 | MP | 110.2 | 112.2 | 108.4 | 109.5 | 107.6 | 103.8 | 105.7 | 108.5 | 109.5 | 105.2 | 143.4 | 213.8 | 232.7 | 170.3 |
| 225 | MP | 165.4 | 166.3 | 159.8 | 149.0 | 141.8 | 149.2 | 165.7 | 172.9 | 171.2 | 168.3 | 232.1 | 238.3 | 216.3 | 114.8 |
| 226 | MP | 281.2 | 273.8 | 260.5 | 252.0 | 249.2 | 257.1 | 265.1 | 275.4 | 269.4 | 265.7 | 31.2 | 51.9 | 86.7 | 271.6 |
| 227 | MP | 243.9 | 243.1 | 243.4 | 241.8 | 239.3 | 243.6 | 251.1 | 253.7 | 250.4 | 243.6 | 214.4 | 212.9 | 291.9 | 352.8 |
| 228 | MP | 248.0 | 246.5 | 243.3 | 229.1 | 217.3 | 228.2 | 247.8 | 263.4 | 257.6 | 244.2 | 237.3 | 235.7 | 231.4 | 208.4 |
| 229 | MP | 229.9 | 223.6 | 222.8 | 207.0 | 192.3 | 207.1 | 233.0 | 247.3 | 244.8 | 231.1 | 229.1 | 207.8 | 230.4 | 116.0 |
| 230 | MP | 247.9 | 233.2 | 234.4 | 211.6 | 204.3 | 201.4 | 227.8 | 252.9 | 253.6 | 234.7 | 362.4 | 270.1 | 275.9 | 214.7 |
| 231 | MP | 249.5 | 245.9 | 245.4 | 238.4 | 233.0 | 234.9 | 258.5 | 276.7 | 255.8 | 238.6 | 238.0 | 212.3 | 211.0 | 172.9 |
| 232 | MP | 253.3 | 248.6 | 250.1 | 237.3 | 224.0 | 233.5 | 252.4 | 267.3 | 263.8 | 247.5 | 360.4 | 245.8 | 259.1 | 229.6 |
| 233 | MP | 254.6 | 248.4 | 248.7 | 233.3 | 217.3 | 225.7 | 249.4 | 267.7 | 265.0 | 247.1 | 351.9 | 229.3 | 232.9 | 223.9 |
| 234 | MP | 278.3 | 268.6 | 271.2 | 277.0 | 275.3 | 272.6 | 276.9 | 293.9 | 287.5 | 271.2 | 266.4 | 183.3 | 215.4 | 288.7 |
| 235 | MP | 269.7 | 277.0 | 275.3 | 278.7 | 278.7 | 269.3 | 263.7 | 264.3 | 270.7 | 270.0 | 82.7 | 70.0 | 59.7 | 182.3 |
| 236 | MP | 296.6 | 283.0 | 272.8 | 276.6 | 285.0 | 283.5 | 286.0 | 297.5 | 290.2 | 276.7 | 123.4 | 114.9 | 149.4 | 288.1 |
| 237 | MP | 301.2 | 288.1 | 277.5 | 282.3 | 291.4 | 290.5 | 289.4 | 299.4 | 294.3 | 279.0 | 154.6 | 109.7 | 134.5 | 268.6 |
| 238 | MP | 271.9 | 270.2 | 260.4 | 251.8 | 255.9 | 259.2 | 265.8 | 273.9 | 271.7 | 262.3 | 25.2 | 29.0 | 45.4 | 136.1 |
| 239 | MP | 250.9 | 245.7 | 241.7 | 234.6 | 231.5 | 236.7 | 242.7 | 245.7 | 256.1 | 245.2 | 205.2 | 177.8 | 245.8 | 188.0 |
| 240 | MP | 245.8 | 240.6 | 246.1 | 230.3 | 220.2 | 225.9 | 249.8 | 266.9 | 259.3 | 242.6 | 224.6 | 207.9 | 219.8 | 151.8 |
| 241 | MP | 257.8 | 251.0 | 251.2 | 237.4 | 221.6 | 227.3 | 251.1 | 271.1 | 268.6 | 249.4 | 357.8 | 226.3 | 231.2 | 242.7 |
| 242 | MP | 301.0 | 290.0 | 280.0 | 285.0 | 293.0 | 293.0 | 290.0 | 300.0 | 296.0 | 279.0 | 143.0 | 96.0 | 126.0 | 231.0 |
| 243 | MP | 253.4 | 249.0 | 250.6 | 237.7 | 225.1 | 235.7 | 253.9 | 267.9 | 263.2 | 247.8 | 338.8 | 245.8 | 273.0 | 229.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | MP | 251.5 | 263.0 | 263.3 | 261.0 | 257.5 | 251.5 | 249.0 | 252.0 | 252.5 | 255.0 | 201.0 | 73.0 | 97.5 | 211.0 |
| 245 | MP | 244.2 | 234.3 | 234.5 | 211.9 | 206.4 | 202.6 | 220.1 | 244.9 | 255.4 | 240.4 | 339.2 | 271.9 | 286.9 | 170.9 |
| 246 | MP | 240.5 | 233.5 | 223.0 | 207.5 | 201.0 | 207.5 | 228.0 | 246.0 | 245.5 | 244.0 | 336.5 | 301.5 | 285.0 | 160.0 |
| 247 | MP | 260.2 | 249.4 | 241.4 | 219.6 | 206.2 | 218.7 | 249.7 | 269.6 | 269.7 | 261.4 | 282.8 | 314.3 | 227.0 | 112.2 |
| 248 | MP | 262.6 | 250.9 | 233.8 | 207.0 | 193.6 | 207.4 | 241.4 | 264.5 | 265.6 | 264.2 | 293.9 | 309.5 | 277.3 | 132.2 |
| 249 | MP | 244.3 | 247.5 | 253.0 | 249.8 | 245.5 | 245.5 | 248.0 | 246.3 | 245.5 | 248.5 | 111.8 | 80.8 | 137.0 | 196.3 |
| 250 | MP | 208.5 | 202.6 | 197.6 | 176.6 | 166.8 | 178.9 | 193.8 | 206.3 | 205.7 | 206.9 | 247.8 | 248.6 | 202.4 | 98.0 |
| 251 | MP | 243.5 | 236.7 | 240.0 | 224.0 | 209.8 | 219.1 | 244.5 | 261.3 | 258.1 | 243.5 | 232.2 | 231.9 | 217.9 | 119.5 |
| 252 | MP | 239.0 | 221.0 | 206.3 | 192.3 | 196.5 | 201.0 | 226.0 | 252.0 | 251.5 | 228.0 | 292.5 | 275.5 | 242.8 | 144.5 |
| 253 | MP | 248.0 | 242.0 | 242.0 | 237.0 | 233.0 | 236.0 | 240.0 | 246.0 | 258.0 | 243.0 | 198.0 | 174.0 | 250.0 | 238.0 |
| 254 | MP | 115.8 | 116.8 | 117.2 | 115.6 | 113.4 | 114.6 | 115.2 | 118.4 | 115.4 | 113.2 | 106.6 | 154.8 | 176.4 | 259.2 |
| 255 | MP | 166.0 | 165.3 | 165.0 | 163.0 | 162.0 | 161.0 | 160.3 | 165.3 | 163.3 | 160.7 | 112.0 | 144.7 | 198.3 | 280.0 |
| 256 | MP | 247.8 | 252.9 | 257.0 | 250.0 | 242.9 | 241.6 | 242.1 | 240.3 | 244.0 | 247.1 | 148.3 | 142.4 | 186.2 | 130.0 |
| 257 | MP | 147.5 | 148.5 | 147.0 | 144.0 | 141.0 | 143.0 | 145.5 | 146.5 | 145.5 | 148.0 | 87.5 | 132.5 | 151.0 | 188.5 |
| 258 | MP | 265.0 | 258.0 | 257.0 | 252.0 | 250.0 | 253.0 | 257.0 | 264.0 | 262.0 | 260.0 | 29.0 | 98.0 | 133.0 | 401.0 |
| 259 | MP | 272.0 | 262.5 | 264.0 | 258.0 | 255.5 | 257.0 | 263.0 | 270.5 | 268.5 | 267.0 | 26.5 | 94.0 | 118.5 | 363.5 |
| 260 | MP | 231.6 | 242.5 | 246.7 | 241.5 | 241.2 | 245.5 | 246.6 | 248.1 | 246.0 | 233.3 | 56.5 | 36.9 | 19.8 | 102.8 |
| 261 | MP | 249.5 | 255.8 | 262.0 | 260.0 | 254.3 | 252.5 | 252.8 | 253.3 | 254.5 | 252.3 | 73.8 | 56.0 | 56.3 | 47.8 |
| 262 | MP | 262.0 | 253.7 | 247.4 | 254.1 | 260.7 | 264.9 | 272.4 | 279.9 | 266.3 | 253.1 | 232.9 | 216.0 | 264.2 | 398.2 |
| 263 | MP | 250.5 | 254.5 | 257.5 | 249.3 | 243.0 | 241.5 | 242.3 | 240.5 | 244.5 | 248.5 | 172.5 | 156.5 | 203.3 | 170.5 |
| 264 | MP | 260.0 | 254.4 | 264.6 | 263.2 | 263.0 | 260.5 | 260.9 | 264.3 | 262.8 | 260.0 | 135.6 | 98.8 | 234.8 | 369.7 |
| 265 | MP | 277.4 | 265.2 | 256.0 | 262.3 | 272.5 | 272.4 | 278.3 | 289.9 | 277.2 | 263.1 | 185.0 | 167.3 | 213.2 | 352.4 |
| 266 | MP | 258.5 | 251.9 | 253.1 | 240.2 | 225.2 | 232.7 | 254.4 | 272.3 | 269.2 | 251.2 | 363.0 | 235.7 | 232.1 | 230.4 |
| 267 | MP | 265.0 | 258.6 | 257.8 | 245.3 | 229.1 | 233.3 | 257.2 | 277.7 | 276.6 | 256.6 | 346.2 | 230.0 | 237.0 | 250.2 |
| 268 | MP | 296.6 | 286.9 | 279.7 | 282.0 | 283.0 | 280.5 | 281.2 | 292.5 | 290.8 | 275.2 | 169.9 | 113.6 | 125.3 | 237.4 |
| 269 | MP | 246.3 | 247.2 | 245.0 | 250.3 | 248.1 | 253.9 | 262.5 | 264.1 | 253.4 | 244.6 | 261.2 | 263.0 | 283.8 | 265.0 |
| 270 | MP | 276.1 | 268.0 | 270.6 | 270.9 | 264.9 | 263.8 | 272.7 | 291.5 | 286.9 | 268.9 | 255.8 | 204.3 | 220.3 | 282.0 |
| 271 | MP | 283.9 | 273.8 | 274.6 | 279.5 | 278.6 | 275.7 | 279.2 | 295.5 | 289.8 | 273.8 | 229.0 | 163.6 | 192.2 | 250.6 |
| 272 | MP | 239.6 | 245.1 | 250.0 | 249.9 | 247.5 | 244.1 | 244.4 | 242.7 | 241.7 | 245.8 | 113.4 | 68.6 | 81.0 | 179.2 |
| 273 | MP | 298.8 | 285.4 | 276.6 | 282.8 | 290.7 | 289.0 | 288.6 | 300.1 | 293.9 | 278.6 | 198.0 | 151.9 | 162.9 | 271.7 |
| 274 | MP | 301.3 | 288.7 | 279.2 | 284.8 | 293.2 | 292.0 | 291.0 | 301.2 | 295.3 | 279.3 | 161.0 | 113.3 | 136.5 | 248.2 |
| 275 | MP | 301.9 | 292.9 | 277.2 | 280.1 | 288.8 | 289.2 | 283.3 | 289.5 | 292.0 | 275.8 | 137.1 | 86.3 | 117.3 | 237.5 |
| 276 | MP | 278.4 | 267.9 | 269.5 | 276.8 | 276.3 | 274.1 | 277.8 | 294.1 | 287.0 | 270.2 | 251.6 | 171.0 | 218.4 | 289.7 |
| 277 | MP | 254.6 | 259.1 | 262.9 | 265.6 | 264.6 | 258.7 | 257.2 | 259.0 | 257.1 | 258.9 | 122.7 | 75.5 | 105.6 | 195.7 |
| 278 | MP | 261.1 | 253.3 | 247.2 | 253.8 | 260.2 | 264.4 | 271.7 | 278.9 | 265.6 | 252.8 | 234.3 | 220.7 | 266.9 | 396.1 |
| 279 | MP | 275.8 | 264.1 | 264.0 | 274.4 | 275.5 | 274.8 | 278.6 | 294.0 | 284.2 | 266.0 | 228.2 | 162.9 | 225.8 | 291.7 |
| 280 | MP | 273.7 | 264.4 | 267.6 | 273.9 | 271.3 | 269.5 | 274.8 | 291.8 | 284.9 | 267.8 | 271.4 | 196.4 | 244.7 | 312.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 281 | MP | 282.8 | 273.2 | 274.3 | 278.6 | 276.6 | 273.8 | 278.3 | 294.9 | 289.9 | 273.0 | 233.4 | 169.9 | 198.6 | 254.7 |
| 282 | MP | 254.0 | 253.1 | 251.3 | 257.3 | 253.4 | 255.7 | 265.5 | 271.1 | 261.0 | 249.5 | 241.0 | 244.6 | 279.6 | 250.8 |
| 283 | MP | 162.1 | 164.5 | 165.1 | 169.5 | 166.7 | 163.2 | 168.5 | 166.6 | 164.7 | 161.6 | 187.8 | 204.5 | 235.8 | 197.8 |
| 284 | MP | 282.1 | 286.8 | 279.7 | 265.8 | 270.1 | 275.7 | 288.4 | 289.5 | 292.2 | 277.6 | 15.6 | 18.6 | 25.9 | 116.7 |
| 285 | MP | 252.8 | 249.1 | 247.3 | 254.7 | 257.1 | 260.9 | 265.6 | 267.8 | 258.8 | 249.6 | 243.7 | 291.2 | 306.8 | 355.4 |
| 286 | MP | 226.5 | 224.5 | 214.5 | 198.0 | 180.0 | 193.0 | 222.0 | 239.5 | 237.5 | 223.0 | 295.5 | 236.0 | 248.5 | 155.0 |
| 287 | MP | 298.5 | 290.3 | 273.7 | 272.9 | 282.9 | 286.8 | 284.4 | 290.8 | 292.5 | 275.5 | 99.4 | 69.7 | 109.3 | 312.0 |
| 288 | MP | 267.0 | 247.8 | 227.8 | 207.8 | 190.8 | 207.3 | 238.8 | 263.8 | 265.3 | 267.3 | 542.8 | 502.5 | 448.0 | 253.3 |
| 289 | MP | 270.9 | 261.2 | 261.5 | 272.3 | 271.2 | 271.9 | 276.3 | 291.4 | 280.9 | 261.7 | 258.0 | 212.9 | 234.9 | 296.9 |
| 290 | MP | 251.7 | 247.3 | 248.9 | 235.2 | 221.8 | 232.7 | 251.7 | 265.8 | 261.6 | 246.0 | 342.2 | 242.8 | 259.0 | 217.4 |
| 291 | MP | 242.0 | 249.2 | 253.1 | 256.4 | 256.0 | 248.9 | 246.8 | 245.4 | 244.9 | 248.7 | 101.4 | 65.2 | 53.8 | 166.4 |
| 292 | MP | 256.3 | 250.0 | 248.7 | 246.0 | 243.8 | 244.3 | 244.6 | 248.9 | 260.6 | 247.6 | 213.6 | 176.7 | 220.1 | 265.1 |
| 293 | MP | 252.0 | 254.8 | 259.4 | 256.4 | 251.5 | 254.1 | 256.1 | 256.3 | 256.3 | 258.2 | 183.2 | 153.0 | 245.0 | 291.9 |
| 294 | MP | 279.0 | 272.7 | 269.7 | 266.9 | 259.3 | 256.9 | 267.6 | 284.6 | 284.3 | 266.6 | 232.6 | 158.1 | 176.6 | 258.5 |
| 295 | MP | 252.4 | 249.0 | 247.0 | 238.8 | 231.3 | 229.8 | 236.8 | 250.0 | 261.5 | 244.5 | 209.3 | 156.3 | 163.0 | 193.7 |
| 296 | MP | 253.7 | 266.3 | 269.2 | 258.8 | 260.5 | 265.6 | 271.3 | 268.1 | 273.4 | 259.0 | 27.2 | 15.0 | 11.8 | 65.7 |
| 297 | MP | 258.1 | 254.3 | 255.1 | 243.6 | 236.2 | 235.8 | 262.6 | 282.8 | 264.5 | 249.9 | 253.8 | 234.7 | 209.2 | 163.8 |
| 298 | MP | 258.7 | 252.8 | 245.5 | 243.8 | 245.1 | 253.9 | 271.6 | 283.8 | 270.1 | 248.5 | 239.4 | 210.9 | 225.6 | 180.3 |
| 299 | MP | 147.2 | 149.7 | 150.0 | 149.2 | 148.6 | 146.0 | 146.5 | 147.6 | 146.9 | 143.2 | 167.4 | 203.2 | 279.5 | 363.1 |
| 300 | MP | 255.0 | 251.5 | 251.2 | 243.5 | 236.8 | 235.8 | 261.4 | 281.7 | 259.4 | 244.2 | 233.5 | 215.0 | 203.8 | 164.3 |
| 301 | MP | 262.8 | 252.8 | 247.4 | 247.6 | 247.8 | 251.2 | 256.7 | 265.6 | 257.7 | 250.8 | 66.2 | 121.9 | 155.7 | 306.5 |
| 302 | MP | 249.0 | 254.5 | 256.0 | 249.0 | 242.0 | 241.0 | 242.5 | 242.0 | 245.5 | 247.5 | 163.0 | 164.0 | 227.0 | 150.0 |
| 303 | MP | 245.3 | 235.6 | 233.3 | 215.2 | 201.0 | 214.0 | 242.3 | 260.2 | 260.3 | 247.9 | 239.0 | 247.1 | 212.3 | 101.9 |
| 304 | MP | 250.7 | 249.2 | 252.0 | 247.8 | 246.8 | 248.6 | 257.4 | 270.9 | 263.8 | 254.1 | 146.2 | 186.3 | 236.7 | 317.1 |
| 305 | MP | 232.3 | 231.7 | 228.8 | 217.1 | 209.8 | 218.1 | 229.3 | 241.0 | 235.3 | 232.1 | 523.0 | 481.4 | 458.3 | 325.7 |
| 306 | MP | 172.4 | 171.9 | 163.9 | 149.3 | 145.5 | 156.6 | 171.4 | 182.9 | 178.4 | 172.4 | 252.8 | 239.8 | 245.5 | 135.4 |
| 307 | MP | 173.3 | 174.5 | 176.5 | 178.0 | 177.5 | 170.8 | 181.4 | 181.8 | 180.6 | 172.7 | 135.7 | 124.0 | 167.4 | 149.9 |
| 308 | MP | 207.6 | 210.6 | 206.7 | 196.7 | 190.0 | 196.8 | 213.1 | 221.8 | 216.5 | 210.0 | 266.2 | 259.5 | 259.1 | 181.7 |
| 309 | MP | 252.7 | 251.5 | 253.3 | 249.4 | 249.5 | 250.5 | 258.7 | 274.5 | 266.0 | 257.4 | 132.2 | 185.1 | 232.4 | 337.0 |
| 310 | MP | 202.3 | 203.0 | 196.0 | 183.1 | 179.0 | 190.9 | 200.5 | 212.9 | 208.0 | 201.3 | 253.7 | 245.4 | 251.9 | 151.5 |
| 311 | MP | 249.8 | 248.4 | 246.0 | 230.3 | 219.8 | 229.6 | 247.2 | 263.8 | 258.3 | 245.9 | 216.8 | 206.0 | 227.6 | 213.0 |
| 312 | MP | 212.1 | 212.2 | 221.6 | 224.3 | 220.4 | 219.3 | 227.0 | 226.4 | 222.5 | 216.0 | 255.6 | 230.4 | 318.7 | 304.5 |
| 313 | MP | 210.0 | 212.6 | 210.9 | 203.2 | 195.3 | 200.6 | 212.7 | 217.1 | 215.3 | 210.9 | 338.1 | 342.3 | 308.7 | 185.2 |
| 314 | MP | 263.0 | 251.7 | 236.8 | 212.1 | 199.3 | 211.0 | 242.6 | 264.8 | 265.1 | 263.5 | 286.1 | 297.6 | 254.9 | 128.9 |
| 315 | MP | 245.6 | 236.6 | 222.8 | 203.8 | 193.7 | 202.5 | 225.3 | 245.3 | 244.6 | 246.5 | 299.7 | 298.5 | 262.2 | 136.8 |
| 316 | MP | 247.0 | 246.6 | 245.1 | 245.1 | 243.9 | 245.5 | 253.7 | 257.7 | 252.3 | 247.1 | 197.9 | 189.5 | 282.5 | 361.3 |
| 317 | MP | 115.8 | 118.4 | 118.3 | 117.7 | 117.8 | 115.1 | 115.0 | 115.6 | 114.0 | 110.2 | 127.9 | 159.9 | 211.2 | 277.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 318 | MP | 208.4 | 208.6 | 207.6 | 209.8 | 209.9 | 207.2 | 209.6 | 210.4 | 210.4 | 207.2 | 193.4 | 203.0 | 280.0 | 320.4 |
| 319 | MP | 150.3 | 152.0 | 152.3 | 150.7 | 151.0 | 147.0 | 145.7 | 148.0 | 147.0 | 145.0 | 117.0 | 142.0 | 173.0 | 223.7 |
| 320 | MP | 252.3 | 253.5 | 256.1 | 260.8 | 255.3 | 256.0 | 264.7 | 273.3 | 263.0 | 251.2 | 246.0 | 225.8 | 268.9 | 307.3 |
| 321 | MP | 261.0 | 255.5 | 243.7 | 227.2 | 218.9 | 230.5 | 255.4 | 271.0 | 269.9 | 259.8 | 285.9 | 248.7 | 227.9 | 152.2 |
| 322 | MP | 55.0 | 37.3 | 24.6 | -0.3 | -4.3 | 12.6 | 33.4 | 46.6 | 56.1 | 61.9 | 216.0 | 184.0 | 146.9 | 47.7 |
| 323 | MP | 256.4 | 256.7 | 257.0 | 259.7 | 250.1 | 256.2 | 266.1 | 273.6 | 263.1 | 254.4 | 234.3 | 231.8 | 251.4 | 310.2 |
| 324 | MP | 257.4 | 257.3 | 260.5 | 261.0 | 254.6 | 257.7 | 266.5 | 274.4 | 263.9 | 255.7 | 221.9 | 214.6 | 257.5 | 292.6 |
| 325 | MP | 246.6 | 244.5 | 250.6 | 248.2 | 244.3 | 248.8 | 254.3 | 263.4 | 254.9 | 245.7 | 229.1 | 213.9 | 282.1 | 280.9 |
| 326 | MP | 251.2 | 246.4 | 239.4 | 224.2 | 217.3 | 223.7 | 241.6 | 256.8 | 257.3 | 255.2 | 420.9 | 380.9 | 351.3 | 209.9 |
| 327 | MP | 245.0 | 244.0 | 243.0 | 240.0 | 240.0 | 242.0 | 246.0 | 247.0 | 246.0 | 247.0 | 192.0 | 253.0 | 372.0 | 533.0 |
| 328 | MP | 252.8 | 251.7 | 249.6 | 237.1 | 228.6 | 236.8 | 252.6 | 267.6 | 261.4 | 251.0 | 227.3 | 212.1 | 276.4 | 244.6 |
| 329 | MP | 252.0 | 250.0 | 248.5 | 235.5 | 227.7 | 236.5 | 252.3 | 266.7 | 261.3 | 249.7 | 232.5 | 216.5 | 284.5 | 247.6 |
| 330 | MP | 249.0 | 245.0 | 246.3 | 233.3 | 223.3 | 234.7 | 252.7 | 265.3 | 259.3 | 243.3 | 293.7 | 233.3 | 299.3 | 199.3 |
| 331 | MP | 243.0 | 239.9 | 242.5 | 226.8 | 217.3 | 230.6 | 248.1 | 259.0 | 253.1 | 237.6 | 233.9 | 241.6 | 270.1 | 193.1 |
| 332 | MP | 245.7 | 238.8 | 233.4 | 229.2 | 226.6 | 240.8 | 258.7 | 266.5 | 258.3 | 237.2 | 260.0 | 262.2 | 255.3 | 196.7 |
| 333 | MP | 259.4 | 266.8 | 266.3 | 266.3 | 262.9 | 255.1 | 249.3 | 248.0 | 250.6 | 254.5 | 178.0 | 88.0 | 115.9 | 260.0 |
| 334 | MP | 256.6 | 249.6 | 243.8 | 249.7 | 255.6 | 259.9 | 267.1 | 273.9 | 261.3 | 249.9 | 227.4 | 207.4 | 268.0 | 381.0 |
| 335 | MP | 262.3 | 255.5 | 253.0 | 260.4 | 262.8 | 266.3 | 274.4 | 280.8 | 268.5 | 254.1 | 273.5 | 265.8 | 328.1 | 377.5 |
| 336 | MP | 255.0 | 251.0 | 252.7 | 240.0 | 233.2 | 233.2 | 259.7 | 278.8 | 262.5 | 247.8 | 244.7 | 225.1 | 210.7 | 162.7 |
| 337 | MP | 263.9 | 259.6 | 260.1 | 264.8 | 257.7 | 259.7 | 272.2 | 282.4 | 275.1 | 259.6 | 300.9 | 259.3 | 277.0 | 247.5 |
| 338 | MP | 247.0 | 243.2 | 245.2 | 231.2 | 221.2 | 233.8 | 251.2 | 263.0 | 256.8 | 241.5 | 269.7 | 243.2 | 292.3 | 197.7 |
| 339 | MP | 273.2 | 262.1 | 257.9 | 267.7 | 274.5 | 275.2 | 282.1 | 293.6 | 280.2 | 261.5 | 224.4 | 172.0 | 206.8 | 278.1 |
| 340 | MP | 242.8 | 240.9 | 235.5 | 225.2 | 214.3 | 227.2 | 248.1 | 260.4 | 254.5 | 239.6 | 274.5 | 248.6 | 237.6 | 222.0 |
| 341 | MP | 253.6 | 251.7 | 243.5 | 230.3 | 217.3 | 229.8 | 252.5 | 266.8 | 262.2 | 247.6 | 250.7 | 235.9 | 223.3 | 193.6 |
| 342 | MP | 251.3 | 255.0 | 253.3 | 251.8 | 245.0 | 242.0 | 242.3 | 244.5 | 246.8 | 251.8 | 212.0 | 90.8 | 238.8 | 420.8 |
| 343 | MP | 265.7 | 260.0 | 252.3 | 246.3 | 244.0 | 246.3 | 252.3 | 254.7 | 262.7 | 256.7 | 214.7 | 145.3 | 257.3 | 252.3 |
| 344 | MP | 252.5 | 245.5 | 251.5 | 234.0 | 225.5 | 227.5 | 254.5 | 270.5 | 264.5 | 249.5 | 239.5 | 218.0 | 221.5 | 164.0 |
| 345 | MP | 260.0 | 253.0 | 265.0 | 263.0 | 264.0 | 263.0 | 263.0 | 267.0 | 264.0 | 261.0 | 82.0 | 77.0 | 181.0 | 315.0 |
| 346 | MP | 266.2 | 260.5 | 253.7 | 247.7 | 245.5 | 248.3 | 253.5 | 254.5 | 262.7 | 256.8 | 228.8 | 154.3 | 265.8 | 264.7 |
| 347 | MP | 247.0 | 243.8 | 245.3 | 231.5 | 220.8 | 234.0 | 251.5 | 263.0 | 256.8 | 241.8 | 262.0 | 248.3 | 288.3 | 197.0 |
| 348 | MP | 248.0 | 245.0 | 247.0 | 232.7 | 222.0 | 234.0 | 252.0 | 264.0 | 258.0 | 243.0 | 267.7 | 260.7 | 292.0 | 199.0 |
| 349 | MP | 255.7 | 249.9 | 252.1 | 239.1 | 225.4 | 234.0 | 254.0 | 269.7 | 266.1 | 249.0 | 366.5 | 244.9 | 249.7 | 229.3 |
| 350 | MP | 251.0 | 246.4 | 247.9 | 232.7 | 218.7 | 229.6 | 249.6 | 264.4 | 260.8 | 245.0 | 339.3 | 234.3 | 242.8 | 201.6 |
| 351 | MP | 254.0 | 260.0 | 262.4 | 265.6 | 263.8 | 256.0 | 252.4 | 253.0 | 253.2 | 256.1 | 122.9 | 63.7 | 81.2 | 180.9 |
| 352 | MP | 268.3 | 273.1 | 272.0 | 270.5 | 269.1 | 263.2 | 257.6 | 254.0 | 257.4 | 260.0 | 198.9 | 113.4 | 152.6 | 289.4 |
| 353 | MP | 248.0 | 245.0 | 246.0 | 233.0 | 223.0 | 235.0 | 253.0 | 265.0 | 259.0 | 244.0 | 294.0 | 233.0 | 302.0 | 199.0 |
| 354 | MP | 246.0 | 243.0 | 245.0 | 230.0 | 220.0 | 234.0 | 251.0 | 262.0 | 256.0 | 241.0 | 244.0 | 235.0 | 273.0 | 190.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 355 | MP | 259.1 | 253.4 | 248.8 | 249.4 | 248.1 | 254.8 | 271.4 | 281.7 | 271.6 | 251.6 | 243.7 | 235.7 | 245.4 | 192.4 |
| 356 | MP | 256.5 | 251.4 | 247.2 | 241.5 | 240.7 | 247.8 | 267.9 | 281.7 | 265.4 | 245.3 | 256.7 | 213.9 | 234.1 | 185.4 |
| 357 | MP | 245.0 | 241.0 | 244.0 | 229.0 | 219.0 | 233.0 | 250.0 | 261.0 | 255.0 | 240.0 | 250.0 | 234.0 | 275.0 | 190.0 |
| 358 | MP | 271.2 | 262.2 | 265.9 | 270.9 | 267.4 | 267.5 | 273.4 | 290.2 | 283.2 | 265.5 | 272.3 | 218.0 | 274.1 | 323.9 |
| 359 | MP | 263.5 | 258.2 | 253.9 | 249.0 | 247.3 | 257.6 | 273.1 | 283.5 | 276.7 | 257.4 | 288.2 | 220.1 | 262.7 | 210.3 |
| 360 | MP | 253.6 | 259.4 | 260.6 | 260.2 | 256.2 | 253.1 | 253.0 | 256.4 | 256.3 | 258.0 | 231.0 | 90.9 | 195.7 | 373.4 |
| 361 | MP | 255.3 | 258.2 | 261.7 | 264.0 | 260.9 | 254.9 | 251.7 | 255.0 | 254.9 | 256.0 | 163.1 | 87.7 | 129.1 | 223.0 |
| 362 | MP | 251.3 | 255.4 | 253.8 | 252.9 | 246.4 | 243.0 | 243.5 | 246.0 | 248.0 | 252.4 | 218.9 | 90.6 | 236.9 | 423.6 |
| 363 | MP | 248.3 | 245.3 | 246.3 | 232.3 | 221.3 | 233.3 | 251.3 | 263.3 | 257.5 | 242.3 | 285.5 | 257.8 | 292.0 | 203.8 |
| 364 | MP | 251.0 | 248.0 | 250.0 | 247.0 | 242.0 | 238.0 | 239.0 | 243.0 | 248.0 | 249.0 | 177.0 | 96.0 | 265.0 | 411.0 |
| 365 | MP | 253.0 | 248.0 | 253.0 | 249.0 | 246.0 | 242.0 | 243.0 | 247.0 | 252.0 | 251.0 | 154.0 | 89.0 | 245.0 | 365.0 |
| 366 | MP | 254.5 | 248.0 | 254.5 | 252.0 | 249.5 | 245.5 | 246.5 | 250.5 | 255.0 | 252.0 | 149.0 | 85.5 | 236.5 | 351.5 |
| 367 | MP | 259.1 | 264.3 | 270.2 | 271.9 | 270.4 | 269.4 | 269.4 | 273.4 | 271.5 | 267.7 | 228.8 | 108.8 | 199.6 | 369.1 |
| 368 | MP | 251.0 | 250.0 | 250.0 | 247.0 | 240.0 | 236.0 | 238.0 | 241.0 | 246.0 | 248.0 | 192.0 | 96.0 | 262.0 | 429.0 |
| 369 | MP | 252.7 | 258.3 | 258.0 | 257.7 | 253.0 | 250.0 | 249.7 | 253.0 | 253.0 | 256.0 | 230.0 | 89.7 | 212.0 | 394.0 |
| 370 | MP | 255.5 | 262.0 | 264.0 | 263.5 | 260.5 | 257.0 | 257.0 | 260.5 | 260.0 | 260.5 | 229.0 | 92.5 | 182.0 | 354.5 |
| 371 | MP | 245.7 | 243.0 | 244.7 | 230.7 | 219.7 | 232.0 | 250.3 | 261.7 | 256.3 | 241.0 | 275.3 | 266.0 | 292.7 | 203.0 |
| 372 | MP | 258.0 | 256.3 | 255.2 | 261.6 | 258.1 | 259.1 | 267.5 | 273.0 | 263.3 | 252.8 | 226.7 | 227.2 | 278.4 | 266.2 |
| 373 | MP | 256.8 | 252.7 | 250.3 | 252.9 | 248.6 | 253.4 | 268.5 | 278.0 | 268.4 | 251.1 | 264.9 | 236.0 | 275.0 | 209.0 |
| 374 | MP | 249.5 | 247.0 | 247.5 | 234.0 | 223.0 | 235.5 | 253.5 | 265.5 | 260.0 | 244.0 | 286.5 | 244.0 | 294.0 | 200.5 |
| 375 | MP | 237.7 | 231.6 | 235.1 | 218.8 | 205.2 | 217.2 | 240.8 | 256.6 | 251.2 | 237.1 | 225.5 | 215.2 | 218.7 | 115.7 |
| 376 | MP | 246.5 | 243.0 | 244.5 | 231.0 | 220.5 | 233.5 | 251.0 | 262.0 | 256.0 | 241.0 | 257.0 | 245.0 | 285.0 | 195.5 |
| 377 | MP | 264.4 | 271.9 | 270.8 | 274.8 | 272.5 | 264.4 | 260.1 | 259.4 | 264.0 | 264.7 | 104.6 | 76.5 | 64.6 | 203.4 |
| 378 | MP | 251.7 | 257.5 | 261.9 | 264.6 | 264.1 | 258.1 | 256.7 | 256.6 | 255.3 | 257.6 | 99.2 | 67.8 | 73.2 | 194.5 |
| 379 | MP | 251.3 | 246.5 | 250.5 | 234.6 | 227.3 | 230.1 | 255.4 | 272.8 | 262.2 | 246.9 | 237.3 | 215.0 | 217.5 | 162.8 |
| 380 | MP | 248.9 | 244.5 | 248.7 | 233.7 | 226.2 | 229.3 | 254.1 | 271.6 | 259.2 | 243.5 | 229.4 | 208.9 | 216.5 | 160.1 |
| 381 | MP | 250.0 | 249.2 | 243.8 | 239.9 | 237.2 | 247.0 | 261.9 | 270.1 | 260.6 | 246.9 | 241.8 | 237.1 | 268.8 | 256.5 |
| 382 | MP | 262.9 | 262.1 | 257.8 | 252.3 | 245.6 | 241.8 | 245.7 | 256.0 | 267.8 | 253.4 | 167.7 | 119.8 | 137.6 | 185.7 |
| 383 | MP | 255.0 | 251.4 | 249.3 | 257.2 | 258.5 | 261.4 | 267.2 | 270.3 | 260.4 | 250.9 | 231.7 | 276.0 | 309.9 | 343.9 |
| 384 | MP | 257.9 | 254.7 | 253.5 | 246.8 | 240.1 | 238.4 | 264.5 | 285.4 | 261.6 | 246.0 | 232.7 | 211.8 | 200.9 | 162.7 |
| 385 | MP | 254.7 | 251.0 | 251.9 | 241.5 | 234.4 | 234.7 | 260.4 | 279.8 | 260.7 | 245.5 | 234.9 | 217.5 | 207.8 | 160.5 |
| 386 | MP | 255.3 | 252.3 | 252.6 | 240.6 | 230.8 | 240.8 | 259.2 | 271.9 | 266.4 | 250.8 | 304.6 | 219.1 | 283.3 | 197.1 |
| 387 | MP | 285.2 | 272.4 | 262.0 | 265.5 | 274.4 | 273.2 | 277.8 | 290.2 | 280.3 | 268.7 | 120.2 | 123.9 | 158.3 | 289.1 |
| 388 | MP | 254.0 | 250.6 | 245.9 | 241.7 | 237.7 | 236.5 | 238.8 | 246.8 | 259.5 | 244.8 | 194.7 | 130.2 | 145.3 | 181.9 |
| 389 | MP | 253.4 | 251.4 | 250.4 | 238.6 | 230.1 | 239.0 | 255.0 | 267.6 | 261.2 | 251.0 | 245.4 | 239.8 | 303.9 | 267.5 |
| 390 | MP | 267.3 | 266.5 | 262.6 | 257.3 | 249.4 | 244.7 | 249.6 | 262.3 | 272.4 | 257.2 | 189.0 | 126.7 | 153.0 | 215.1 |
| 391 | MP | 247.0 | 244.0 | 246.0 | 232.0 | 221.0 | 234.0 | 252.0 | 263.0 | 257.0 | 242.0 | 264.0 | 255.0 | 290.0 | 198.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 392 | MP | 255.0 | 261.0 | 263.0 | 262.0 | 259.0 | 256.0 | 256.0 | 260.0 | 259.0 | 260.0 | 229.0 | 92.0 | 185.0 | 358.0 |
| 393 | MP | 248.0 | 244.8 | 246.8 | 232.5 | 221.8 | 234.0 | 252.3 | 263.8 | 257.8 | 242.8 | 266.5 | 257.3 | 291.3 | 198.3 |
| 394 | MP | 248.5 | 245.5 | 247.5 | 233.5 | 223.0 | 235.5 | 253.5 | 265.5 | 259.5 | 244.0 | 282.0 | 240.5 | 296.0 | 198.5 |
| 395 | MP | 276.7 | 279.4 | 269.3 | 268.7 | 268.3 | 262.5 | 256.0 | 261.3 | 272.4 | 263.3 | 170.8 | 103.7 | 91.0 | 210.3 |
| 396 | MP | 255.7 | 259.4 | 262.2 | 263.8 | 260.6 | 253.9 | 250.2 | 252.8 | 253.2 | 255.0 | 166.9 | 84.4 | 111.3 | 219.7 |
| 397 | MP | 261.5 | 268.6 | 270.1 | 273.9 | 271.1 | 263.7 | 259.5 | 258.5 | 261.6 | 263.5 | 112.5 | 70.9 | 58.9 | 192.7 |
| 398 | MP | 106.4 | 109.0 | 109.9 | 109.0 | 107.5 | 103.7 | 102.4 | 105.5 | 104.4 | 103.1 | 116.3 | 123.1 | 166.2 | 226.3 |
| 399 | MP | 152.0 | 153.0 | 152.0 | 148.0 | 145.0 | 148.0 | 150.0 | 152.0 | 151.0 | 153.0 | 102.0 | 149.0 | 164.0 | 210.0 |
| 400 | MP | 142.3 | 144.3 | 143.9 | 142.4 | 142.4 | 139.3 | 138.4 | 141.3 | 140.3 | 138.3 | 142.4 | 158.4 | 198.6 | 274.9 |
| 401 | MP | 251.0 | 258.0 | 264.5 | 259.3 | 254.3 | 252.0 | 252.0 | 251.5 | 253.3 | 252.5 | 66.8 | 68.3 | 66.8 | 52.8 |
| 402 | MP | 247.5 | 253.2 | 258.2 | 263.5 | 262.8 | 261.3 | 260.7 | 259.8 | 258.8 | 251.9 | 73.8 | 52.8 | 41.4 | 35.8 |
| 403 | MP | 247.8 | 253.3 | 259.5 | 264.8 | 263.8 | 261.3 | 260.0 | 258.0 | 259.0 | 253.5 | 69.8 | 56.5 | 54.0 | 37.5 |
| 404 | MP | 244.3 | 249.2 | 257.7 | 266.3 | 269.6 | 266.8 | 262.4 | 258.5 | 259.1 | 251.5 | 101.4 | 109.9 | 52.8 | 72.0 |
| 405 | MP | 246.6 | 252.8 | 257.8 | 261.0 | 258.7 | 256.7 | 256.2 | 257.0 | 256.2 | 251.0 | 73.1 | 54.9 | 49.5 | 38.5 |
| 406 | MP | 249.0 | 253.7 | 259.7 | 269.5 | 272.8 | 271.7 | 270.6 | 266.5 | 263.6 | 255.2 | 128.3 | 86.9 | 49.6 | 37.2 |
| 407 | MP | 241.1 | 247.7 | 253.6 | 247.6 | 240.7 | 239.4 | 238.5 | 236.4 | 239.7 | 241.9 | 111.0 | 118.1 | 146.9 | 101.3 |
| 408 | MP | 250.5 | 254.6 | 257.4 | 249.6 | 242.8 | 241.8 | 242.9 | 241.5 | 245.2 | 248.8 | 167.0 | 156.4 | 210.4 | 162.0 |
| 409 | MP | 240.6 | 246.8 | 252.1 | 244.2 | 235.9 | 235.1 | 234.0 | 230.1 | 234.8 | 239.6 | 153.2 | 152.7 | 203.2 | 139.8 |
| 410 | MP | 263.4 | 258.1 | 254.9 | 250.8 | 247.2 | 257.2 | 272.2 | 282.5 | 276.1 | 257.4 | 288.2 | 216.4 | 255.8 | 215.7 |
| 411 | MP | 250.0 | 254.7 | 258.2 | 264.0 | 264.8 | 264.2 | 264.7 | 263.3 | 261.7 | 253.0 | 71.2 | 45.0 | 29.2 | 29.7 |
| 412 | MP | 241.8 | 238.5 | 242.0 | 225.1 | 213.8 | 228.7 | 245.7 | 256.4 | 251.0 | 236.2 | 243.2 | 246.2 | 259.1 | 188.5 |
| 413 | MP | 242.6 | 250.0 | 257.6 | 261.0 | 261.8 | 255.8 | 246.7 | 244.2 | 247.7 | 246.8 | 44.3 | 55.5 | 36.9 | 104.3 |
| 414 | MP | 248.2 | 253.3 | 259.2 | 259.1 | 254.5 | 252.2 | 252.8 | 253.8 | 254.3 | 251.9 | 80.2 | 60.6 | 60.3 | 46.2 |
| 415 | MP | 235.0 | 223.8 | 215.3 | 195.5 | 183.5 | 199.8 | 234.8 | 252.5 | 252.4 | 241.7 | 213.7 | 204.9 | 191.0 | 92.7 |
| 416 | MP | 261.9 | 256.8 | 251.9 | 248.4 | 244.8 | 249.1 | 271.4 | 288.8 | 269.4 | 250.3 | 234.9 | 200.4 | 164.6 | 158.9 |
| 417 | MP | 267.5 | 247.3 | 226.8 | 207.9 | 188.8 | 205.3 | 236.2 | 262.7 | 264.5 | 267.0 | 588.3 | 535.7 | 489.9 | 285.5 |
| 418 | MP | 252.5 | 262.5 | 263.0 | 261.0 | 257.0 | 251.0 | 249.0 | 250.5 | 252.0 | 255.0 | 209.0 | 75.0 | 110.5 | 227.5 |
| 419 | MP | 249.2 | 236.3 | 228.3 | 208.1 | 196.2 | 210.1 | 242.3 | 261.8 | 262.7 | 253.5 | 237.1 | 248.2 | 200.4 | 89.6 |
| 420 | MP | 256.0 | 238.5 | 217.5 | 194.5 | 175.5 | 193.0 | 221.5 | 251.5 | 247.5 | 252.5 | 611.0 | 521.0 | 530.0 | 290.0 |
| 421 | MP | 264.4 | 256.6 | 247.6 | 229.1 | 222.0 | 229.3 | 253.5 | 272.0 | 272.1 | 265.5 | 311.4 | 255.7 | 232.3 | 135.6 |
| 422 | MP | 181.5 | 183.5 | 190.5 | 194.0 | 190.0 | 188.5 | 193.0 | 191.5 | 187.5 | 186.0 | 295.0 | 271.5 | 356.0 | 364.5 |
| 423 | MP | 267.7 | 248.0 | 227.3 | 208.3 | 189.7 | 206.3 | 238.0 | 264.0 | 265.3 | 267.3 | 559.3 | 514.0 | 464.0 | 265.0 |
| 424 | MP | 189.0 | 189.0 | 188.0 | 188.4 | 189.1 | 186.1 | 187.1 | 189.0 | 188.7 | 186.6 | 194.4 | 194.3 | 260.4 | 315.7 |
| 425 | MP | 266.5 | 256.5 | 242.5 | 217.0 | 205.0 | 220.5 | 252.5 | 274.5 | 272.5 | 267.5 | 301.0 | 329.0 | 246.5 | 125.0 |
| 426 | MP | 74.8 | 68.1 | 57.0 | 32.8 | 29.9 | 41.0 | 68.0 | 73.9 | 71.7 | 74.4 | 179.6 | 160.8 | 148.8 | 67.2 |
| 427 | MP | 39.0 | 30.0 | 15.0 | -13.0 | -16.0 | -6.0 | 24.0 | 24.0 | 25.0 | 35.0 | 165.0 | 152.0 | 144.0 | 52.0 |
| 428 | MP | 167.1 | 168.2 | 169.8 | 170.1 | 169.3 | 163.2 | 174.0 | 174.5 | 173.4 | 165.6 | 124.4 | 117.3 | 163.4 | 142.5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 429 | MP | 169.7 | 169.2 | 161.0 | 146.9 | 144.6 | 156.7 | 171.5 | 184.6 | 178.3 | 170.2 | 234.4 | 229.3 | 231.4 | 150.0 |
| 430 | MP | 119.2 | 117.2 | 110.4 | 95.8 | 90.0 | 98.0 | 116.6 | 126.0 | 123.4 | 120.0 | 156.6 | 164.4 | 161.0 | 72.6 |
| 431 | MP | 120.5 | 121.9 | 115.5 | 118.3 | 116.5 | 111.5 | 114.7 | 118.8 | 120.3 | 114.7 | 131.0 | 168.9 | 196.7 | 144.5 |
| 432 | MP | 244.4 | 251.0 | 262.2 | 270.1 | 275.1 | 276.9 | 274.5 | 269.2 | 264.4 | 253.2 | 155.7 | 110.5 | 47.8 | 45.3 |
| 433 | MP | 267.8 | 254.4 | 236.4 | 211.5 | 199.6 | 216.6 | 249.1 | 273.0 | 271.2 | 268.6 | 359.7 | 361.6 | 290.8 | 146.0 |
| 434 | MP | 197.2 | 206.8 | 216.5 | 218.3 | 220.7 | 223.4 | 218.8 | 217.0 | 215.7 | 202.8 | 53.7 | 38.9 | 16.9 | 50.5 |
| 435 | MP | 244.9 | 249.8 | 258.2 | 265.9 | 268.9 | 265.8 | 260.9 | 256.9 | 258.3 | 251.5 | 87.2 | 104.2 | 50.4 | 80.6 |
| 436 | MP | 180.2 | 180.8 | 184.5 | 184.3 | 184.2 | 176.6 | 189.5 | 189.7 | 188.2 | 180.8 | 126.7 | 114.9 | 168.7 | 152.7 |
| 437 | MP | 245.2 | 242.9 | 251.0 | 251.4 | 250.1 | 252.0 | 257.0 | 258.2 | 253.7 | 246.3 | 242.7 | 228.3 | 304.9 | 290.4 |
| 438 | MP | 249.8 | 250.3 | 248.4 | 243.6 | 235.2 | 242.6 | 257.2 | 266.7 | 255.5 | 250.6 | 220.5 | 233.6 | 299.8 | 292.5 |
| 439 | MP | 250.0 | 247.5 | 249.1 | 251.8 | 254.1 | 254.8 | 256.5 | 262.3 | 258.7 | 247.9 | 258.8 | 253.3 | 331.4 | 359.2 |
| 1 | MR | 243.2 | 244.1 | 252.4 | 251.1 | 245.7 | 245.8 | 227.8 | 244.5 | 246.6 | 243.6 | 278.1 | 249.0 | 280.6 | 282.3 |
| 2 | MR | 242.8 | 246.5 | 251.3 | 251.3 | 246.7 | 247.5 | 233.3 | 251.1 | 253.9 | 248.5 | 316.4 | 273.3 | 303.9 | 301.2 |
| 3 | MR | 78.5 | 74.3 | 63.9 | 41.4 | 33.6 | 40.6 | 58.6 | 76.6 | 79.2 | 81.3 | 192.2 | 162.2 | 142.1 | 68.9 |
| 4 | MR | 244.5 | 248.7 | 255.1 | 259.6 | 250.3 | 252.9 | 237.0 | 249.3 | 250.0 | 247.7 | 282.5 | 263.0 | 287.3 | 279.2 |
| 5 | MR | 217.9 | 218.8 | 225.1 | 225.6 | 219.3 | 214.2 | 207.8 | 222.0 | 223.6 | 225.4 | 142.4 | 129.6 | 187.8 | 193.1 |
| 6 | MR | 248.7 | 253.8 | 255.9 | 249.4 | 239.1 | 247.2 | 234.7 | 254.5 | 252.7 | 251.7 | 158.8 | 164.0 | 188.1 | 197.5 |
| 7 | MR | 243.6 | 247.2 | 253.8 | 252.2 | 247.4 | 248.1 | 233.4 | 251.4 | 255.5 | 248.4 | 316.5 | 262.4 | 307.1 | 298.9 |
| 8 | MR | 147.3 | 148.1 | 150.0 | 150.4 | 148.1 | 142.4 | 135.3 | 148.0 | 145.9 | 147.3 | 110.6 | 117.7 | 165.0 | 219.7 |
| 9 | MR | 242.7 | 243.0 | 243.7 | 239.0 | 237.5 | 243.5 | 252.1 | 253.8 | 248.3 | 243.2 | 264.2 | 257.8 | 281.0 | 245.5 |
| 10 | MR | 257.0 | 253.8 | 246.3 | 228.1 | 219.6 | 223.3 | 224.7 | 256.1 | 254.7 | 259.2 | 217.4 | 189.9 | 177.4 | 151.2 |
| 11 | MR | 255.7 | 248.4 | 234.8 | 214.7 | 200.4 | 210.3 | 211.9 | 251.6 | 248.9 | 257.3 | 279.3 | 281.1 | 245.6 | 189.6 |
| 12 | MR | 259.9 | 262.3 | 260.8 | 260.7 | 267.6 | 277.2 | 244.8 | 276.3 | 275.0 | 262.4 | 504.1 | 542.0 | 554.6 | 403.4 |
| 13 | MR | 261.0 | 257.7 | 259.9 | 259.2 | 256.3 | 259.1 | 244.8 | 270.4 | 269.8 | 261.2 | 205.9 | 285.6 | 346.7 | 333.0 |
| 14 | MR | 258.7 | 257.6 | 256.8 | 253.1 | 262.2 | 264.3 | 257.3 | 268.5 | 263.6 | 259.0 | 176.0 | 163.0 | 243.1 | 228.4 |
| 15 | MR | 215.0 | 211.6 | 205.5 | 185.0 | 173.9 | 184.4 | 180.1 | 214.6 | 212.8 | 216.0 | 209.8 | 218.6 | 175.1 | 130.3 |
| 16 | MR | 196.3 | 190.3 | 183.7 | 169.3 | 162.3 | 173.3 | 171.3 | 199.0 | 197.3 | 196.3 | 191.0 | 189.3 | 159.0 | 129.3 |
| 17 | MR | 261.0 | 251.7 | 258.8 | 259.2 | 261.1 | 262.3 | 247.7 | 270.1 | 269.9 | 261.8 | 167.7 | 272.7 | 347.4 | 324.6 |
| 18 | MR | 187.8 | 181.8 | 170.4 | 155.8 | 152.2 | 162.4 | 157.6 | 183.4 | 186.8 | 186.4 | 196.2 | 188.0 | 130.4 | 99.2 |
| 19 | MR | 261.0 | 264.0 | 262.0 | 261.0 | 272.0 | 281.0 | 249.0 | 278.0 | 276.0 | 264.0 | 470.0 | 454.0 | 546.0 | 394.0 |
| 20 | MR | 240.0 | 240.7 | 239.2 | 231.4 | 229.3 | 241.1 | 227.0 | 267.9 | 257.9 | 236.1 | 302.2 | 368.4 | 362.5 | 241.4 |
| 21 | MR | 252.5 | 247.6 | 245.5 | 245.3 | 244.7 | 257.5 | 238.3 | 256.6 | 254.4 | 240.4 | 235.9 | 273.1 | 211.4 | 187.0 |
| 22 | MR | 252.0 | 261.0 | 254.0 | 253.0 | 259.0 | 267.0 | 236.0 | 267.0 | 268.0 | 258.0 | 437.0 | 425.0 | 447.0 | 340.0 |
| 23 | MR | 246.6 | 248.0 | 242.8 | 229.6 | 226.0 | 238.0 | 233.6 | 267.8 | 264.2 | 243.6 | 253.0 | 304.0 | 289.0 | 141.4 |
| 24 | MR | 253.8 | 256.6 | 255.7 | 253.2 | 256.3 | 267.5 | 244.5 | 280.8 | 274.4 | 252.7 | 448.3 | 522.1 | 528.7 | 394.4 |
| 25 | MR | 258.7 | 250.7 | 249.7 | 249.0 | 250.7 | 264.7 | 244.7 | 262.7 | 260.7 | 243.3 | 234.0 | 271.7 | 208.0 | 181.0 |
| 26 | MR | 260.3 | 261.2 | 262.3 | 265.8 | 278.1 | 288.4 | 260.9 | 281.6 | 267.6 | 263.2 | 379.7 | 352.6 | 359.6 | 282.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | MR | 263.0 | 263.9 | 264.6 | 268.2 | 281.0 | 293.9 | 264.8 | 288.1 | 270.7 | 264.7 | 358.1 | 296.4 | 316.9 | 273.1 |
| 28 | MR | 260.3 | 261.0 | 261.2 | 263.5 | 276.0 | 286.4 | 261.3 | 282.0 | 266.9 | 262.1 | 363.0 | 325.1 | 380.2 | 336.9 |
| 29 | MR | 261.5 | 266.5 | 268.4 | 271.8 | 288.5 | 303.2 | 261.7 | 300.1 | 278.1 | 266.2 | 395.3 | 451.4 | 477.7 | 315.6 |
| 30 | MR | 265.0 | 266.0 | 266.0 | 270.0 | 283.0 | 297.0 | 267.0 | 291.0 | 273.0 | 266.0 | 342.0 | 298.0 | 321.0 | 260.0 |
| 31 | MR | 246.5 | 253.4 | 256.6 | 257.2 | 267.5 | 281.1 | 248.5 | 282.9 | 272.0 | 257.9 | 261.9 | 378.0 | 457.2 | 323.3 |
| 32 | MR | 258.9 | 259.9 | 259.1 | 260.3 | 272.3 | 283.6 | 260.2 | 282.2 | 265.3 | 259.5 | 365.3 | 308.6 | 425.8 | 396.5 |
| 33 | MR | 252.0 | 261.0 | 255.0 | 253.0 | 258.7 | 268.0 | 236.0 | 267.7 | 267.0 | 258.7 | 397.7 | 375.0 | 409.0 | 312.3 |
| 34 | MR | 262.2 | 264.1 | 262.8 | 261.8 | 270.8 | 279.3 | 249.0 | 277.0 | 275.9 | 265.4 | 425.3 | 448.1 | 530.9 | 407.0 |
| 35 | MR | 252.5 | 252.5 | 251.0 | 252.0 | 255.0 | 271.0 | 247.5 | 268.0 | 258.5 | 247.0 | 277.5 | 280.5 | 296.5 | 169.0 |
| 36 | MR | 242.9 | 244.1 | 239.1 | 226.4 | 223.8 | 235.5 | 229.6 | 264.5 | 260.0 | 239.6 | 263.1 | 319.0 | 296.4 | 154.6 |
| 37 | MR | 248.3 | 250.8 | 251.7 | 241.7 | 232.5 | 243.5 | 231.6 | 273.9 | 256.2 | 249.0 | 313.2 | 327.1 | 311.5 | 211.5 |
| 38 | MR | 264.8 | 266.1 | 266.4 | 270.2 | 283.4 | 296.3 | 266.6 | 290.8 | 272.7 | 266.7 | 347.8 | 296.7 | 318.8 | 263.8 |
| 39 | MR | 228.7 | 225.3 | 218.7 | 200.3 | 189.0 | 200.0 | 196.7 | 228.0 | 228.7 | 230.0 | 199.7 | 199.3 | 163.7 | 133.3 |
| 40 | MR | 228.5 | 229.3 | 228.7 | 222.1 | 218.8 | 227.2 | 209.8 | 254.3 | 240.3 | 227.6 | 336.8 | 379.5 | 312.4 | 204.1 |
| 41 | MR | 257.4 | 256.0 | 255.3 | 251.7 | 259.8 | 260.0 | 253.8 | 263.6 | 261.0 | 257.7 | 196.8 | 194.5 | 268.3 | 252.0 |
| 42 | MR | 259.0 | 248.0 | 234.0 | 218.5 | 212.0 | 219.0 | 222.0 | 260.0 | 262.0 | 273.0 | 137.0 | 145.5 | 126.0 | 46.0 |
| 43 | MR | 250.5 | 235.5 | 217.5 | 204.5 | 192.5 | 202.0 | 213.5 | 240.5 | 250.0 | 259.0 | 213.5 | 197.5 | 108.0 | 79.0 |
| 44 | MR | 260.3 | 264.6 | 265.9 | 255.1 | 243.4 | 252.0 | 242.3 | 273.0 | 262.1 | 261.1 | 202.0 | 218.5 | 220.4 | 142.5 |
| 45 | MR | 257.7 | 261.3 | 261.0 | 246.3 | 235.0 | 247.0 | 238.0 | 268.3 | 262.0 | 261.0 | 197.0 | 204.0 | 204.7 | 121.3 |
| 46 | MR | 259.0 | 248.0 | 234.0 | 218.5 | 212.0 | 219.0 | 222.0 | 260.0 | 262.0 | 273.0 | 137.0 | 145.5 | 126.0 | 46.0 |
| 47 | MR | 257.2 | 254.1 | 248.6 | 230.6 | 220.2 | 223.6 | 224.4 | 256.9 | 255.2 | 259.6 | 209.1 | 189.5 | 174.4 | 143.1 |
| 48 | MR | 249.4 | 243.1 | 231.3 | 211.0 | 197.5 | 206.9 | 207.4 | 246.2 | 243.6 | 251.2 | 256.0 | 260.3 | 222.8 | 173.8 |
| 49 | MR | 244.5 | 241.2 | 234.7 | 217.5 | 208.9 | 216.1 | 216.8 | 245.5 | 245.1 | 248.9 | 282.2 | 271.6 | 227.5 | 190.7 |
| 50 | MR | 266.0 | 263.0 | 258.7 | 257.7 | 261.0 | 260.3 | 246.0 | 260.0 | 261.7 | 261.0 | 109.0 | 122.0 | 192.7 | 291.7 |
| 51 | MR | 167.4 | 159.2 | 147.9 | 130.1 | 125.7 | 135.8 | 136.6 | 164.0 | 165.4 | 167.8 | 187.8 | 182.7 | 136.3 | 104.5 |
| 52 | MR | 223.7 | 209.1 | 191.1 | 177.8 | 166.9 | 176.3 | 184.3 | 215.0 | 221.4 | 230.9 | 186.1 | 181.9 | 108.8 | 78.7 |
| 53 | MR | 261.2 | 249.3 | 233.6 | 222.0 | 210.5 | 219.2 | 219.7 | 257.5 | 258.1 | 269.2 | 274.5 | 273.2 | 232.0 | 144.1 |
| 54 | MR | 217.8 | 213.2 | 203.4 | 187.4 | 179.4 | 186.9 | 187.8 | 218.5 | 216.8 | 220.1 | 221.5 | 226.7 | 188.8 | 153.1 |
| 55 | MR | 245.7 | 250.1 | 255.1 | 250.4 | 239.3 | 247.0 | 230.7 | 250.2 | 247.6 | 247.8 | 235.6 | 252.9 | 262.6 | 250.8 |
| 56 | MR | 242.9 | 244.0 | 242.1 | 246.3 | 244.0 | 243.6 | 238.3 | 243.1 | 246.3 | 247.0 | 298.9 | 325.4 | 303.4 | 237.4 |
| 57 | MR | 253.0 | 262.0 | 256.0 | 255.0 | 260.0 | 269.0 | 237.0 | 268.0 | 269.0 | 259.0 | 353.0 | 350.0 | 379.0 | 297.0 |
| 58 | MR | 252.0 | 261.0 | 255.0 | 254.0 | 259.0 | 267.0 | 236.0 | 267.0 | 268.0 | 258.0 | 370.0 | 357.0 | 388.0 | 301.0 |
| 59 | MR | 259.0 | 260.0 | 259.0 | 262.0 | 275.0 | 287.0 | 260.0 | 283.0 | 265.0 | 259.0 | 331.0 | 278.0 | 342.0 | 314.0 |
| 60 | MR | 252.0 | 256.0 | 244.0 | 237.0 | 226.0 | 236.0 | 233.0 | 254.0 | 250.0 | 248.0 | 210.0 | 225.0 | 196.0 | 180.0 |
| 61 | MR | 235.5 | 231.0 | 223.0 | 203.5 | 192.0 | 201.5 | 200.5 | 234.0 | 233.0 | 237.0 | 216.5 | 219.0 | 183.0 | 147.0 |
| 62 | MR | 258.1 | 251.1 | 248.7 | 246.0 | 253.1 | 261.1 | 253.2 | 278.5 | 264.0 | 253.9 | 83.8 | 54.3 | 110.5 | 228.2 |
| 63 | MR | 248.3 | 255.5 | 259.3 | 260.0 | 264.0 | 268.0 | 245.5 | 267.3 | 265.0 | 258.8 | 132.0 | 76.8 | 72.8 | 187.5 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 64 | MR | 253.4 | 258.6 | 263.4 | 264.1 | 267.8 | 274.4 | 252.0 | 272.5 | 270.4 | 263.6 | 135.0 | 65.9 | 71.1 | 206.8 |
| 65 | MR | 237.6 | 234.6 | 233.3 | 235.4 | 235.3 | 234.2 | 223.4 | 235.5 | 237.2 | 236.4 | 260.1 | 236.0 | 271.9 | 323.1 |
| 66 | MR | 259.0 | 262.0 | 257.0 | 252.0 | 255.0 | 257.0 | 240.0 | 259.0 | 262.0 | 259.0 | 383.0 | 244.0 | 330.0 | 478.0 |
| 67 | MR | 256.0 | 260.0 | 262.0 | 256.0 | 258.0 | 260.0 | 239.0 | 258.0 | 260.0 | 256.0 | 184.0 | 129.0 | 147.0 | 302.0 |
| 68 | MR | 169.2 | 169.5 | 173.3 | 175.8 | 171.2 | 157.8 | 156.9 | 169.8 | 171.0 | 168.6 | 105.1 | 96.2 | 135.7 | 151.2 |
| 69 | MR | 94.6 | 90.8 | 85.2 | 66.8 | 59.3 | 72.9 | 77.0 | 100.2 | 98.8 | 96.4 | 176.2 | 162.1 | 145.4 | 83.7 |
| 70 | MR | 192.9 | 198.3 | 197.7 | 188.1 | 178.1 | 186.5 | 180.4 | 199.9 | 200.6 | 195.0 | 361.1 | 302.8 | 259.9 | 202.0 |
| 71 | MR | 244.2 | 241.9 | 241.9 | 237.6 | 246.0 | 253.6 | 246.8 | 269.2 | 254.5 | 243.1 | 116.8 | 91.7 | 255.0 | 294.5 |
| 72 | MR | 279.3 | 273.7 | 263.0 | 260.0 | 263.0 | 261.0 | 253.3 | 268.0 | 269.0 | 265.3 | 57.3 | 73.3 | 144.0 | 247.0 |
| 73 | MR | 279.0 | 273.5 | 263.0 | 260.0 | 263.0 | 261.0 | 253.0 | 268.0 | 269.0 | 265.0 | 57.5 | 74.5 | 145.5 | 248.0 |
| 74 | MR | 234.0 | 235.5 | 234.5 | 235.5 | 234.5 | 229.5 | 221.0 | 232.5 | 237.5 | 233.0 | 295.5 | 276.0 | 309.0 | 343.0 |
| 75 | MR | 234.3 | 238.1 | 238.5 | 221.3 | 206.2 | 216.2 | 212.8 | 237.3 | 236.7 | 236.8 | 217.6 | 241.4 | 202.2 | 198.6 |
| 76 | MR | 241.6 | 243.2 | 242.2 | 242.7 | 242.0 | 241.6 | 234.4 | 243.6 | 246.4 | 245.5 | 412.4 | 361.7 | 331.5 | 266.1 |
| 77 | MR | 249.7 | 249.6 | 247.0 | 241.8 | 240.6 | 246.9 | 228.7 | 266.9 | 266.3 | 250.4 | 269.7 | 290.6 | 355.9 | 268.3 |
| 78 | MR | 231.0 | 235.3 | 242.7 | 221.0 | 200.0 | 221.0 | 207.7 | 242.7 | 228.3 | 227.7 | 284.0 | 296.3 | 269.0 | 135.3 |
| 79 | MR | 231.8 | 219.0 | 228.5 | 208.2 | 203.9 | 205.0 | 191.4 | 248.6 | 227.4 | 222.7 | 401.2 | 387.6 | 300.0 | 175.2 |
| 80 | MR | 188.0 | 190.3 | 197.0 | 199.0 | 195.0 | 188.3 | 183.0 | 196.3 | 194.7 | 194.0 | 203.0 | 182.7 | 257.3 | 348.7 |
| 81 | MR | 157.0 | 159.7 | 162.3 | 164.3 | 162.3 | 155.3 | 149.7 | 161.3 | 159.0 | 160.3 | 167.3 | 151.0 | 217.3 | 296.0 |
| 82 | MR | 239.6 | 245.0 | 257.9 | 235.9 | 217.8 | 228.1 | 212.7 | 252.4 | 243.1 | 245.0 | 196.0 | 204.4 | 224.1 | 89.2 |
| 83 | MR | 232.7 | 235.5 | 238.3 | 238.2 | 249.7 | 262.8 | 223.3 | 258.3 | 246.6 | 238.2 | 407.1 | 303.9 | 464.3 | 361.2 |
| 84 | MR | 257.6 | 257.0 | 256.2 | 253.7 | 254.8 | 252.3 | 240.8 | 253.5 | 256.3 | 256.7 | 424.7 | 302.4 | 287.9 | 262.8 |
| 85 | MR | 239.6 | 231.3 | 223.4 | 204.7 | 205.0 | 214.6 | 196.5 | 256.5 | 237.3 | 231.8 | 259.2 | 264.0 | 182.3 | 95.3 |
| 86 | MR | 260.6 | 258.8 | 257.2 | 247.5 | 253.4 | 254.4 | 258.2 | 265.1 | 266.6 | 259.8 | 88.0 | 72.8 | 145.6 | 176.8 |
| 87 | MR | 240.6 | 238.6 | 240.4 | 240.1 | 251.4 | 263.9 | 235.7 | 271.1 | 250.4 | 240.2 | 270.5 | 198.5 | 429.6 | 365.4 |
| 88 | MR | 249.7 | 254.9 | 260.1 | 254.6 | 245.9 | 258.1 | 238.5 | 266.3 | 254.4 | 249.4 | 337.7 | 309.4 | 333.9 | 189.4 |
| 89 | MR | 252.7 | 255.5 | 257.8 | 260.6 | 277.8 | 293.2 | 253.2 | 291.7 | 268.8 | 258.2 | 402.2 | 390.6 | 606.7 | 387.6 |
| 90 | MR | 261.6 | 253.1 | 261.5 | 256.0 | 253.1 | 251.0 | 241.1 | 257.1 | 260.5 | 252.9 | 91.4 | 158.0 | 175.0 | 264.7 |
| 91 | MR | 238.0 | 242.5 | 243.7 | 236.7 | 233.0 | 241.8 | 223.8 | 266.6 | 249.7 | 240.1 | 327.6 | 348.5 | 362.0 | 235.7 |
| 92 | MR | 252.6 | 257.1 | 257.3 | 252.9 | 251.5 | 265.5 | 243.4 | 281.2 | 261.9 | 254.6 | 323.1 | 272.9 | 281.2 | 245.6 |
| 93 | MR | 245.6 | 250.1 | 251.0 | 248.6 | 253.9 | 260.5 | 232.0 | 255.5 | 254.8 | 249.2 | 403.0 | 370.7 | 455.2 | 380.2 |
| 94 | MR | 246.3 | 244.8 | 244.0 | 242.2 | 244.7 | 241.5 | 235.2 | 244.6 | 246.5 | 246.6 | 230.8 | 214.8 | 221.8 | 226.7 |
| 95 | MR | 259.4 | 258.2 | 257.3 | 250.4 | 258.8 | 261.1 | 259.6 | 270.2 | 266.4 | 259.3 | 109.3 | 92.4 | 170.5 | 164.3 |
| 96 | MR | 250.2 | 253.1 | 257.2 | 262.2 | 256.9 | 265.5 | 244.1 | 258.1 | 251.9 | 250.2 | 316.4 | 286.6 | 275.6 | 216.0 |
| 97 | MR | 251.1 | 253.4 | 257.1 | 253.8 | 249.8 | 262.0 | 239.8 | 267.4 | 253.1 | 245.1 | 306.2 | 291.7 | 311.2 | 186.2 |
| 98 | MR | 226.7 | 226.7 | 224.3 | 216.4 | 214.7 | 226.3 | 213.2 | 254.4 | 243.9 | 222.3 | 288.9 | 352.6 | 347.6 | 231.1 |
| 99 | MR | 248.1 | 253.4 | 252.6 | 253.0 | 260.5 | 271.0 | 238.8 | 269.7 | 268.3 | 252.5 | 421.4 | 427.9 | 496.8 | 379.3 |
| 100 | MR | 250.4 | 253.7 | 253.7 | 243.9 | 233.1 | 245.2 | 234.7 | 276.0 | 258.4 | 251.6 | 313.8 | 317.9 | 301.6 | 202.6 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | MR | 253.0 | 258.5 | 259.0 | 254.5 | 256.0 | 269.5 | 244.0 | 283.8 | 264.9 | 255.6 | 304.3 | 272.3 | 315.6 | 262.6 |
| 102 | MR | 242.4 | 249.4 | 250.5 | 246.9 | 248.5 | 260.6 | 234.2 | 274.6 | 256.8 | 246.7 | 317.8 | 301.1 | 364.1 | 276.0 |
| 103 | MR | 248.0 | 252.4 | 259.1 | 256.6 | 247.6 | 261.9 | 239.2 | 263.9 | 251.5 | 249.4 | 312.8 | 250.9 | 296.3 | 191.9 |
| 104 | MR | 250.9 | 251.4 | 253.9 | 258.8 | 254.8 | 261.6 | 241.0 | 258.4 | 252.4 | 245.1 | 234.6 | 273.4 | 268.1 | 215.9 |
| 105 | MR | 229.5 | 229.5 | 225.9 | 220.0 | 219.8 | 231.7 | 215.8 | 257.8 | 246.1 | 225.1 | 307.6 | 377.3 | 350.9 | 243.3 |
| 106 | MR | 251.3 | 256.9 | 257.0 | 251.6 | 250.2 | 262.8 | 241.2 | 281.3 | 262.7 | 254.4 | 320.0 | 291.0 | 318.4 | 261.0 |
| 107 | MR | 250.5 | 254.5 | 259.5 | 256.4 | 248.5 | 261.4 | 240.8 | 265.8 | 254.9 | 250.5 | 310.9 | 279.0 | 298.7 | 190.9 |
| 108 | MR | 242.7 | 241.1 | 244.9 | 231.3 | 221.4 | 228.1 | 218.3 | 265.5 | 247.4 | 240.6 | 320.7 | 368.4 | 321.4 | 195.8 |
| 109 | MR | 247.2 | 252.2 | 258.9 | 252.0 | 242.7 | 256.1 | 234.6 | 263.7 | 250.6 | 246.1 | 358.8 | 320.2 | 363.3 | 187.4 |
| 110 | MR | 247.7 | 250.4 | 253.5 | 243.8 | 227.8 | 242.2 | 232.8 | 267.6 | 251.2 | 248.8 | 300.9 | 281.1 | 260.4 | 176.0 |
| 111 | MR | 237.2 | 241.5 | 240.5 | 233.1 | 221.0 | 231.0 | 219.7 | 241.6 | 240.6 | 238.1 | 221.5 | 246.1 | 199.8 | 197.7 |
| 112 | MR | 235.7 | 238.0 | 239.3 | 242.8 | 237.5 | 244.8 | 227.4 | 241.5 | 240.0 | 235.0 | 258.0 | 306.1 | 320.5 | 212.3 |
| 113 | MR | 233.0 | 238.3 | 240.8 | 243.5 | 258.8 | 272.4 | 233.7 | 269.3 | 255.0 | 242.4 | 313.3 | 334.9 | 429.3 | 293.3 |
| 114 | MR | 257.1 | 261.3 | 262.0 | 260.0 | 263.3 | 278.5 | 251.0 | 286.3 | 265.7 | 258.6 | 329.5 | 277.7 | 296.1 | 275.0 |
| 115 | MR | 240.2 | 241.3 | 243.1 | 248.1 | 243.8 | 250.6 | 231.7 | 245.5 | 243.3 | 237.2 | 246.8 | 312.7 | 310.9 | 210.6 |
| 116 | MR | 251.5 | 248.4 | 246.3 | 238.3 | 242.1 | 243.2 | 242.2 | 251.2 | 254.3 | 249.8 | 79.1 | 56.4 | 141.3 | 158.2 |
| 117 | MR | 241.2 | 245.9 | 244.7 | 236.6 | 230.7 | 240.1 | 225.7 | 247.8 | 248.5 | 243.2 | 230.6 | 245.9 | 225.8 | 185.3 |
| 118 | MR | 238.1 | 242.2 | 240.7 | 234.6 | 222.2 | 232.6 | 221.4 | 242.5 | 240.8 | 238.5 | 224.0 | 247.5 | 200.4 | 200.3 |
| 119 | MR | 251.7 | 255.4 | 257.5 | 260.8 | 278.0 | 293.7 | 252.4 | 291.0 | 268.4 | 257.1 | 408.3 | 403.1 | 580.7 | 341.0 |
| 120 | MR | 238.8 | 247.5 | 247.1 | 242.9 | 251.1 | 265.6 | 234.2 | 273.4 | 257.3 | 244.6 | 321.4 | 305.4 | 362.8 | 280.0 |
| 121 | MR | 233.7 | 234.6 | 231.4 | 226.1 | 225.3 | 236.9 | 221.0 | 262.0 | 251.4 | 230.0 | 315.5 | 387.8 | 365.0 | 250.4 |
| 122 | MR | 255.4 | 256.5 | 256.1 | 260.6 | 261.6 | 262.4 | 249.4 | 252.6 | 253.7 | 253.2 | 297.3 | 278.0 | 309.2 | 236.2 |
| 123 | MR | 250.5 | 252.2 | 253.7 | 240.2 | 221.8 | 236.3 | 231.8 | 270.2 | 253.4 | 250.0 | 321.4 | 300.1 | 280.1 | 187.0 |
| 124 | MR | 251.5 | 254.6 | 258.0 | 265.3 | 261.5 | 266.1 | 245.9 | 255.9 | 252.5 | 251.8 | 304.0 | 288.7 | 294.1 | 229.6 |
| 125 | MR | 245.1 | 247.9 | 252.5 | 238.6 | 220.5 | 237.6 | 228.2 | 261.7 | 245.9 | 244.0 | 314.1 | 309.2 | 278.7 | 174.3 |
| 126 | MR | 254.7 | 257.4 | 258.4 | 260.7 | 276.5 | 291.3 | 255.7 | 290.1 | 267.9 | 257.7 | 374.8 | 338.0 | 541.0 | 344.8 |
| 127 | MR | 243.0 | 247.0 | 257.0 | 248.0 | 237.0 | 252.0 | 229.0 | 260.0 | 245.0 | 241.0 | 331.0 | 309.0 | 365.0 | 180.0 |
| 128 | MR | 240.0 | 245.0 | 254.0 | 244.0 | 233.0 | 249.0 | 226.0 | 256.0 | 241.0 | 238.0 | 306.0 | 327.0 | 349.0 | 179.0 |
| 129 | MR | 247.6 | 252.4 | 259.2 | 255.0 | 245.0 | 259.1 | 237.3 | 263.7 | 251.2 | 248.5 | 320.7 | 264.8 | 306.6 | 186.7 |
| 130 | MR | 252.0 | 252.1 | 252.5 | 252.9 | 253.2 | 269.0 | 246.0 | 266.2 | 257.1 | 247.7 | 294.6 | 276.5 | 297.4 | 181.7 |
| 131 | MR | 243.0 | 248.0 | 256.0 | 248.0 | 236.0 | 252.0 | 229.0 | 259.0 | 245.0 | 242.0 | 333.0 | 309.0 | 362.0 | 181.0 |
| 132 | MR | 242.0 | 246.4 | 255.8 | 246.8 | 236.0 | 251.2 | 228.2 | 258.0 | 243.6 | 239.8 | 327.6 | 308.0 | 364.0 | 179.8 |
| 133 | MR | 243.0 | 248.0 | 257.0 | 248.0 | 237.0 | 253.0 | 230.0 | 259.0 | 245.0 | 242.0 | 333.0 | 309.0 | 364.0 | 181.0 |
| 134 | MR | 253.0 | 252.0 | 251.0 | 252.0 | 254.0 | 269.3 | 246.0 | 267.3 | 257.3 | 246.0 | 276.7 | 277.7 | 290.7 | 176.0 |
| 135 | MR | 243.0 | 248.0 | 256.0 | 248.0 | 237.0 | 252.0 | 229.0 | 259.0 | 244.0 | 241.0 | 327.0 | 309.0 | 363.0 | 178.0 |
| 136 | MR | 245.1 | 250.0 | 250.8 | 248.0 | 251.8 | 256.9 | 229.3 | 250.4 | 251.0 | 248.0 | 431.3 | 388.4 | 460.5 | 421.2 |
| 137 | MR | 235.7 | 238.7 | 240.3 | 232.4 | 227.1 | 234.2 | 218.2 | 262.7 | 246.3 | 236.9 | 339.2 | 380.4 | 323.6 | 214.6 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 138 | MR | 242.9 | 246.8 | 253.5 | 243.5 | 228.3 | 245.6 | 229.1 | 259.1 | 244.5 | 242.3 | 336.6 | 323.0 | 316.5 | 190.6 |
| 139 | MR | 258.4 | 262.8 | 262.7 | 262.0 | 270.0 | 286.2 | 254.3 | 288.8 | 267.2 | 259.4 | 336.2 | 300.1 | 304.5 | 268.4 |
| 140 | MR | 233.4 | 238.3 | 240.7 | 242.3 | 255.9 | 268.7 | 230.2 | 263.8 | 252.4 | 241.5 | 382.9 | 357.4 | 466.5 | 323.8 |
| 141 | MR | 260.6 | 262.1 | 261.5 | 263.4 | 275.8 | 288.0 | 261.9 | 285.3 | 267.5 | 261.3 | 337.8 | 291.9 | 365.8 | 337.6 |
| 142 | MR | 245.8 | 248.0 | 250.9 | 235.6 | 216.8 | 233.0 | 227.3 | 263.3 | 246.9 | 244.2 | 306.7 | 297.4 | 267.9 | 175.8 |
| 143 | MR | 250.8 | 252.8 | 257.6 | 264.0 | 261.2 | 269.5 | 245.1 | 259.8 | 252.7 | 252.0 | 303.1 | 305.2 | 271.1 | 195.5 |
| 144 | MR | 246.7 | 247.1 | 249.2 | 250.5 | 265.3 | 279.6 | 244.4 | 282.3 | 259.5 | 249.2 | 346.5 | 293.8 | 539.4 | 394.2 |
| 145 | MR | 247.6 | 249.9 | 251.2 | 247.8 | 250.8 | 257.0 | 231.2 | 254.2 | 255.1 | 249.2 | 235.3 | 146.9 | 199.6 | 386.1 |
| 146 | MR | 250.5 | 256.0 | 249.5 | 250.3 | 256.2 | 257.8 | 239.5 | 267.9 | 265.3 | 255.7 | 71.1 | 57.0 | 57.0 | 156.3 |
| 147 | MR | 253.3 | 257.8 | 244.5 | 241.7 | 246.0 | 245.7 | 234.8 | 260.3 | 258.6 | 254.3 | 40.9 | 30.8 | 24.8 | 113.0 |
| 148 | MR | 255.8 | 260.0 | 246.4 | 245.2 | 249.6 | 249.2 | 236.4 | 264.6 | 261.8 | 255.4 | 54.6 | 40.2 | 34.4 | 127.6 |
| 149 | MR | 267.4 | 267.2 | 254.1 | 249.5 | 252.0 | 252.9 | 247.7 | 262.5 | 263.4 | 257.4 | 23.5 | 31.9 | 68.5 | 183.1 |
| 150 | MR | 222.2 | 223.1 | 216.8 | 216.9 | 221.1 | 222.7 | 208.6 | 232.5 | 229.5 | 223.2 | 57.4 | 50.2 | 77.9 | 191.1 |
| 151 | MR | 253.8 | 259.5 | 244.6 | 240.1 | 245.4 | 244.9 | 236.4 | 258.1 | 258.4 | 253.8 | 26.5 | 22.9 | 19.8 | 97.8 |
| 152 | MR | 241.2 | 243.5 | 235.1 | 235.1 | 237.7 | 239.0 | 231.3 | 245.8 | 248.2 | 241.3 | 89.1 | 56.7 | 76.6 | 183.7 |
| 153 | MR | 247.9 | 254.3 | 250.7 | 251.5 | 257.0 | 259.7 | 240.2 | 265.8 | 263.2 | 254.6 | 85.6 | 59.7 | 65.9 | 162.3 |
| 154 | MR | 254.3 | 257.7 | 244.3 | 240.9 | 245.8 | 244.2 | 235.9 | 258.6 | 258.0 | 255.1 | 35.1 | 32.8 | 36.5 | 124.8 |
| 155 | MR | 250.3 | 245.8 | 238.5 | 237.3 | 239.3 | 238.8 | 229.6 | 244.1 | 245.7 | 241.9 | 75.1 | 84.6 | 172.6 | 247.6 |
| 156 | MR | 259.0 | 262.0 | 257.0 | 251.0 | 254.0 | 256.0 | 240.0 | 259.0 | 262.0 | 259.0 | 383.0 | 243.0 | 324.0 | 466.0 |
| 157 | MR | 270.0 | 264.0 | 256.0 | 255.0 | 257.0 | 256.0 | 247.0 | 262.0 | 264.0 | 261.0 | 83.0 | 99.0 | 194.0 | 254.0 |
| 158 | MR | 231.3 | 219.0 | 202.0 | 191.5 | 178.0 | 191.0 | 200.8 | 226.0 | 235.0 | 241.8 | 129.0 | 134.3 | 85.3 | 106.5 |
| 159 | MR | 229.8 | 228.9 | 223.5 | 224.6 | 226.6 | 226.8 | 216.9 | 233.1 | 233.8 | 229.8 | 121.2 | 99.9 | 153.3 | 253.7 |
| 160 | MR | 262.0 | 262.2 | 262.0 | 263.0 | 269.6 | 278.0 | 258.6 | 280.2 | 274.0 | 263.0 | 156.2 | 75.6 | 77.8 | 259.8 |
| 161 | MR | 257.0 | 259.0 | 259.0 | 259.4 | 264.0 | 269.8 | 247.0 | 269.4 | 266.6 | 257.6 | 186.6 | 94.6 | 96.6 | 259.0 |
| 162 | MR | 253.7 | 256.7 | 258.3 | 258.0 | 262.2 | 265.7 | 244.3 | 265.8 | 263.8 | 256.0 | 188.0 | 96.8 | 114.0 | 270.0 |
| 163 | MR | 245.5 | 245.9 | 246.8 | 247.8 | 252.6 | 261.1 | 235.8 | 260.4 | 257.9 | 248.0 | 212.6 | 125.5 | 201.3 | 397.9 |
| 164 | MR | 234.4 | 238.7 | 237.7 | 223.5 | 214.1 | 224.6 | 217.0 | 241.0 | 240.5 | 237.5 | 238.3 | 231.8 | 216.1 | 208.9 |
| 165 | MR | 254.2 | 259.5 | 259.0 | 256.9 | 264.7 | 279.9 | 248.0 | 286.0 | 265.9 | 256.4 | 338.6 | 305.9 | 322.4 | 271.9 |
| 166 | MR | 208.3 | 193.8 | 177.0 | 165.7 | 153.9 | 162.9 | 168.9 | 200.0 | 204.5 | 214.3 | 156.7 | 167.6 | 103.8 | 89.3 |
| 167 | MR | 262.0 | 262.5 | 263.4 | 266.3 | 278.8 | 289.0 | 262.7 | 283.1 | 268.9 | 264.4 | 396.4 | 373.1 | 385.8 | 310.5 |
| 168 | MR | 231.8 | 229.2 | 224.5 | 207.9 | 198.5 | 206.5 | 206.0 | 233.2 | 233.2 | 236.3 | 400.6 | 389.3 | 301.8 | 249.0 |
| 169 | MR | 237.0 | 240.0 | 241.8 | 239.0 | 243.2 | 252.3 | 219.5 | 245.2 | 245.1 | 240.5 | 314.9 | 232.6 | 338.7 | 406.2 |
| 170 | MR | 244.4 | 248.3 | 255.4 | 247.7 | 234.3 | 250.3 | 231.8 | 261.4 | 246.6 | 245.1 | 341.7 | 315.4 | 331.4 | 202.0 |
| 171 | MR | 209.1 | 208.6 | 204.4 | 205.0 | 208.7 | 210.9 | 197.3 | 218.9 | 216.0 | 209.9 | 59.5 | 55.0 | 100.0 | 220.1 |
| 172 | MR | 184.7 | 169.7 | 152.1 | 133.3 | 123.9 | 136.5 | 140.5 | 187.3 | 183.6 | 192.8 | 276.6 | 268.1 | 215.5 | 132.6 |
| 173 | MR | 129.1 | 131.3 | 129.1 | 127.8 | 127.2 | 122.3 | 114.2 | 129.3 | 129.8 | 127.6 | 141.1 | 154.0 | 181.7 | 188.4 |
| 174 | MR | 212.1 | 214.6 | 217.9 | 214.2 | 205.8 | 210.9 | 199.8 | 215.8 | 217.2 | 218.5 | 203.1 | 180.3 | 210.2 | 224.0 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 175 | MR | 236.0 | 240.0 | 241.6 | 238.3 | 242.4 | 250.6 | 218.3 | 241.9 | 241.6 | 238.8 | 334.6 | 252.4 | 359.0 | 388.3 |
| 176 | MR | 249.1 | 253.0 | 253.0 | 249.2 | 248.8 | 248.8 | 227.7 | 242.3 | 246.3 | 248.5 | 468.7 | 387.4 | 480.0 | 550.9 |
| 177 | MR | 244.3 | 249.3 | 250.3 | 243.8 | 240.5 | 251.1 | 231.8 | 273.5 | 255.9 | 247.0 | 343.9 | 342.1 | 399.0 | 267.6 |
| 178 | MR | 244.8 | 245.7 | 247.7 | 244.2 | 243.7 | 239.5 | 230.7 | 249.2 | 251.7 | 248.6 | 183.6 | 186.1 | 240.3 | 271.8 |
| 179 | MR | 191.7 | 193.0 | 199.1 | 201.1 | 197.3 | 190.9 | 185.2 | 198.5 | 197.5 | 196.2 | 201.8 | 182.8 | 255.9 | 339.4 |
| 180 | MR | 255.3 | 254.4 | 255.0 | 257.6 | 268.3 | 272.1 | 252.0 | 266.1 | 259.1 | 256.7 | 320.5 | 318.9 | 332.1 | 300.4 |
| 181 | MR | 249.2 | 250.6 | 252.3 | 237.6 | 219.3 | 233.7 | 229.0 | 269.1 | 251.8 | 247.7 | 323.8 | 300.2 | 283.1 | 190.8 |
| 182 | MR | 231.9 | 228.7 | 231.6 | 232.5 | 238.5 | 246.0 | 228.7 | 253.6 | 241.9 | 232.3 | 293.1 | 146.3 | 224.5 | 423.9 |
| 183 | MR | 123.8 | 126.1 | 124.9 | 123.3 | 122.4 | 114.4 | 106.8 | 121.7 | 121.5 | 120.7 | 95.0 | 115.5 | 141.1 | 183.0 |
| 184 | MR | 212.1 | 207.0 | 198.6 | 181.9 | 174.6 | 183.1 | 183.7 | 212.7 | 211.7 | 214.3 | 248.8 | 247.3 | 202.5 | 163.6 |
| 185 | MR | 214.0 | 216.0 | 213.1 | 198.7 | 190.0 | 200.4 | 196.9 | 220.9 | 220.2 | 217.1 | 302.6 | 288.8 | 250.0 | 213.0 |
| 186 | MR | 252.7 | 254.1 | 256.2 | 258.9 | 256.0 | 265.6 | 244.5 | 264.5 | 254.8 | 247.7 | 275.1 | 264.6 | 262.1 | 194.5 |
| 187 | MR | 236.2 | 240.4 | 242.4 | 240.0 | 246.4 | 255.3 | 221.6 | 247.8 | 243.9 | 239.9 | 386.7 | 310.3 | 438.3 | 383.6 |
| 188 | MR | 187.5 | 184.4 | 185.0 | 187.8 | 191.9 | 197.2 | 178.6 | 202.3 | 194.9 | 187.4 | 72.5 | 44.8 | 119.7 | 216.2 |
| 189 | MR | 250.9 | 252.6 | 258.6 | 265.8 | 266.2 | 274.6 | 246.1 | 264.7 | 255.0 | 254.1 | 294.1 | 296.7 | 309.4 | 232.7 |
| 190 | MR | 180.6 | 180.5 | 180.2 | 178.9 | 177.9 | 175.3 | 163.6 | 177.5 | 179.7 | 178.3 | 176.6 | 185.1 | 226.9 | 244.4 |
| 191 | MR | 243.1 | 243.8 | 247.2 | 248.6 | 243.3 | 245.9 | 231.8 | 246.8 | 248.6 | 245.6 | 331.5 | 288.9 | 295.3 | 238.0 |
| 192 | MR | 248.1 | 248.0 | 254.2 | 248.7 | 248.8 | 247.0 | 235.2 | 254.3 | 263.2 | 250.0 | 284.5 | 284.8 | 334.2 | 298.3 |
| 193 | MR | 136.9 | 138.3 | 138.9 | 138.4 | 137.1 | 132.7 | 120.4 | 134.2 | 136.4 | 133.3 | 163.7 | 153.9 | 165.2 | 177.2 |
| 194 | MR | 191.6 | 190.4 | 190.5 | 187.9 | 184.7 | 183.8 | 174.5 | 185.8 | 189.3 | 189.7 | 132.6 | 151.2 | 179.0 | 193.2 |
| 195 | MR | 131.0 | 131.0 | 132.5 | 131.5 | 127.5 | 124.5 | 112.0 | 129.0 | 130.5 | 126.5 | 154.5 | 171.5 | 212.0 | 223.0 |
| 196 | MR | 243.7 | 244.9 | 245.7 | 243.2 | 242.3 | 239.2 | 230.8 | 247.6 | 248.2 | 246.7 | 172.7 | 192.2 | 253.8 | 296.2 |
| 197 | MR | 243.8 | 244.6 | 247.3 | 244.6 | 243.7 | 243.6 | 232.2 | 247.7 | 252.8 | 246.3 | 361.6 | 337.1 | 352.0 | 303.1 |
| 198 | MR | 181.4 | 180.9 | 180.4 | 179.6 | 178.8 | 176.0 | 165.0 | 178.6 | 180.8 | 178.6 | 219.5 | 210.5 | 254.7 | 269.8 |
| 199 | MR | 253.1 | 249.1 | 257.4 | 250.8 | 249.6 | 244.8 | 237.5 | 254.0 | 265.0 | 250.7 | 108.9 | 173.0 | 203.8 | 263.1 |
| 200 | MR | 248.6 | 242.5 | 245.5 | 241.2 | 237.7 | 233.3 | 228.1 | 240.9 | 244.8 | 243.5 | 77.4 | 145.1 | 178.2 | 269.1 |
| 201 | MR | 102.0 | 104.2 | 105.2 | 103.6 | 105.2 | 102.2 | 86.6 | 97.7 | 99.3 | 98.9 | 105.4 | 114.7 | 143.4 | 179.3 |
| 202 | MR | 244.9 | 241.8 | 241.0 | 239.4 | 236.2 | 232.7 | 227.5 | 238.0 | 242.0 | 242.2 | 132.2 | 201.4 | 288.2 | 319.9 |
| 203 | MR | 247.2 | 246.2 | 250.4 | 245.5 | 245.9 | 244.6 | 233.4 | 249.8 | 256.2 | 247.2 | 356.8 | 331.8 | 343.0 | 297.6 |
| 204 | MR | 230.9 | 235.4 | 233.1 | 211.2 | 192.9 | 204.7 | 202.4 | 242.0 | 239.4 | 243.1 | 211.9 | 191.0 | 195.2 | 74.7 |
| 205 | MR | 137.9 | 137.7 | 130.6 | 113.2 | 109.7 | 121.7 | 125.2 | 148.7 | 147.9 | 143.2 | 241.6 | 209.4 | 201.0 | 124.2 |
| 206 | MR | 235.8 | 241.0 | 254.1 | 237.6 | 225.0 | 235.6 | 214.9 | 250.9 | 234.3 | 233.4 | 249.2 | 262.2 | 274.2 | 134.8 |
| 207 | MR | 228.4 | 226.0 | 225.4 | 226.0 | 226.6 | 225.0 | 216.0 | 226.5 | 229.1 | 228.8 | 240.3 | 220.6 | 234.0 | 250.8 |
| 208 | MR | 248.9 | 248.0 | 247.1 | 245.8 | 247.4 | 244.0 | 234.5 | 245.7 | 248.0 | 248.8 | 376.3 | 326.2 | 277.6 | 263.7 |
| 209 | MR | 136.0 | 138.5 | 135.0 | 137.1 | 135.2 | 130.5 | 123.8 | 133.8 | 131.1 | 133.1 | 124.3 | 149.0 | 172.4 | 172.9 |
| 210 | MR | 143.0 | 140.8 | 135.6 | 128.4 | 122.2 | 121.0 | 117.3 | 137.8 | 139.7 | 141.2 | 101.7 | 120.5 | 142.2 | 133.7 |
| 211 | MR | 244.1 | 242.5 | 245.9 | 231.0 | 217.7 | 226.1 | 219.2 | 266.1 | 247.7 | 241.5 | 344.5 | 362.8 | 328.5 | 208.6 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 212 | MR | 126.4 | 127.3 | 128.2 | 126.8 | 126.1 | 119.5 | 111.4 | 125.0 | 123.3 | 123.0 | 116.2 | 144.0 | 168.6 | 222.0 |
| 213 | MR | 252.8 | 257.5 | 268.8 | 252.5 | 241.0 | 241.4 | 229.4 | 268.8 | 251.9 | 252.2 | 182.3 | 202.1 | 220.5 | 122.6 |
| 214 | MR | 254.0 | 252.4 | 251.0 | 244.9 | 250.8 | 249.7 | 250.2 | 256.8 | 258.5 | 253.8 | 132.3 | 117.9 | 168.9 | 183.9 |
| 215 | MR | 244.1 | 249.1 | 252.6 | 246.3 | 236.7 | 244.9 | 229.7 | 249.5 | 247.8 | 247.0 | 216.4 | 228.4 | 254.0 | 235.0 |
| 216 | MR | 228.8 | 232.5 | 230.0 | 225.2 | 224.4 | 234.0 | 215.0 | 257.5 | 243.6 | 228.8 | 313.8 | 386.1 | 318.4 | 205.5 |
| 217 | MR | 236.8 | 234.8 | 234.2 | 234.9 | 235.8 | 232.5 | 221.8 | 233.5 | 235.1 | 236.5 | 337.8 | 324.4 | 274.2 | 280.2 |
| 218 | MR | 163.2 | 165.7 | 163.3 | 162.9 | 162.3 | 156.8 | 149.5 | 165.0 | 166.7 | 162.7 | 227.9 | 247.3 | 294.0 | 361.3 |
| 219 | MR | 193.5 | 196.5 | 196.5 | 190.0 | 179.5 | 186.5 | 176.0 | 191.5 | 199.0 | 197.0 | 236.0 | 190.5 | 178.5 | 158.5 |
| 220 | MR | 58.0 | 41.6 | 29.8 | 8.6 | 5.5 | 18.6 | 16.1 | 50.2 | 59.6 | 68.6 | 176.4 | 169.0 | 125.5 | 58.8 |
| 221 | MR | 260.6 | 259.2 | 257.7 | 249.1 | 256.3 | 257.2 | 259.5 | 267.6 | 267.3 | 260.1 | 97.0 | 81.0 | 162.5 | 176.4 |
| 222 | MR | 152.9 | 146.7 | 131.3 | 111.3 | 105.3 | 117.7 | 118.6 | 147.3 | 150.3 | 153.7 | 167.7 | 164.6 | 109.0 | 67.4 |
| 223 | MR | 256.4 | 246.0 | 230.1 | 212.4 | 196.8 | 209.2 | 209.8 | 252.2 | 248.6 | 257.5 | 398.8 | 387.6 | 354.0 | 264.6 |
| 224 | MR | 107.2 | 109.4 | 101.7 | 103.5 | 103.5 | 98.2 | 90.5 | 102.4 | 99.7 | 100.6 | 110.4 | 139.9 | 166.4 | 151.4 |
| 225 | MR | 159.4 | 162.0 | 156.5 | 146.5 | 135.0 | 146.2 | 142.6 | 163.9 | 164.8 | 162.4 | 238.4 | 209.2 | 182.6 | 132.2 |
| 226 | MR | 261.9 | 255.4 | 251.0 | 251.0 | 251.3 | 252.2 | 241.1 | 256.6 | 258.7 | 256.9 | 135.3 | 133.8 | 249.6 | 320.6 |
| 227 | MR | 238.3 | 239.6 | 240.9 | 239.1 | 238.2 | 234.4 | 224.6 | 237.4 | 243.1 | 238.9 | 228.7 | 224.1 | 269.4 | 304.5 |
| 228 | MR | 237.9 | 242.5 | 242.0 | 232.7 | 222.1 | 231.8 | 220.4 | 243.4 | 242.8 | 239.8 | 225.7 | 247.6 | 209.1 | 193.8 |
| 229 | MR | 234.7 | 239.8 | 246.7 | 223.8 | 204.1 | 216.5 | 206.0 | 246.1 | 240.6 | 243.6 | 208.6 | 202.9 | 215.5 | 77.9 |
| 230 | MR | 244.9 | 233.4 | 243.0 | 223.9 | 216.9 | 221.3 | 206.1 | 263.8 | 241.6 | 234.9 | 363.9 | 381.7 | 307.2 | 189.2 |
| 231 | MR | 250.2 | 254.3 | 262.7 | 255.6 | 245.6 | 247.6 | 231.5 | 267.5 | 245.5 | 243.4 | 230.7 | 245.1 | 247.6 | 152.5 |
| 232 | MR | 242.1 | 245.5 | 251.8 | 240.5 | 224.6 | 242.2 | 227.1 | 258.0 | 242.8 | 240.5 | 331.9 | 320.0 | 305.9 | 184.0 |
| 233 | MR | 245.4 | 247.5 | 250.4 | 232.3 | 212.2 | 229.5 | 225.1 | 261.7 | 245.6 | 242.5 | 297.0 | 294.4 | 264.1 | 170.3 |
| 234 | MR | 254.4 | 256.7 | 263.8 | 268.8 | 271.7 | 281.7 | 250.7 | 276.6 | 262.9 | 261.7 | 344.7 | 300.8 | 295.0 | 233.1 |
| 235 | MR | 245.0 | 252.0 | 255.3 | 256.7 | 268.7 | 281.3 | 248.7 | 282.3 | 272.0 | 257.0 | 245.7 | 367.7 | 440.0 | 320.7 |
| 236 | MR | 258.0 | 257.9 | 258.9 | 261.2 | 273.4 | 280.9 | 258.1 | 275.2 | 264.4 | 260.6 | 327.4 | 333.5 | 372.7 | 321.3 |
| 237 | MR | 262.1 | 262.8 | 263.3 | 266.8 | 279.6 | 291.6 | 263.4 | 285.6 | 269.2 | 264.1 | 391.8 | 341.6 | 348.8 | 303.1 |
| 238 | MR | 245.6 | 244.0 | 242.9 | 239.7 | 242.9 | 240.3 | 236.2 | 244.6 | 247.1 | 246.1 | 149.2 | 111.1 | 160.8 | 184.6 |
| 239 | MR | 237.6 | 238.7 | 233.7 | 221.6 | 219.2 | 230.9 | 224.7 | 259.5 | 254.7 | 234.2 | 263.2 | 323.5 | 297.6 | 160.1 |
| 240 | MR | 248.8 | 253.2 | 266.7 | 247.3 | 233.0 | 236.0 | 222.8 | 262.9 | 252.3 | 252.2 | 174.4 | 187.7 | 217.4 | 110.9 |
| 241 | MR | 247.4 | 249.0 | 251.0 | 235.4 | 216.3 | 231.6 | 227.5 | 265.9 | 249.1 | 245.6 | 314.9 | 298.3 | 273.2 | 184.0 |
| 242 | MR | 263.0 | 265.0 | 265.0 | 269.0 | 282.0 | 296.0 | 265.0 | 290.0 | 271.0 | 265.0 | 338.0 | 290.0 | 317.0 | 259.0 |
| 243 | MR | 241.5 | 246.0 | 253.5 | 243.7 | 229.3 | 246.7 | 227.9 | 257.9 | 243.1 | 241.1 | 333.4 | 322.4 | 322.3 | 192.0 |
| 244 | MR | 252.0 | 261.0 | 255.3 | 253.5 | 259.0 | 268.0 | 236.0 | 267.8 | 267.5 | 258.3 | 382.5 | 365.3 | 395.5 | 304.8 |
| 245 | MR | 245.0 | 234.5 | 237.8 | 218.6 | 215.0 | 220.8 | 202.1 | 265.9 | 246.5 | 240.4 | 342.1 | 355.7 | 269.1 | 133.3 |
| 246 | MR | 234.5 | 230.5 | 222.0 | 205.5 | 197.5 | 203.5 | 205.5 | 235.5 | 234.0 | 238.0 | 246.5 | 237.0 | 206.5 | 174.0 |
| 247 | MR | 256.2 | 255.1 | 252.4 | 237.6 | 224.2 | 230.7 | 223.5 | 262.6 | 259.1 | 264.6 | 188.6 | 204.1 | 181.0 | 92.1 |
| 248 | MR | 256.6 | 251.3 | 238.8 | 218.5 | 204.4 | 213.3 | 216.6 | 254.7 | 252.9 | 261.1 | 240.4 | 242.9 | 218.8 | 154.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 249 | MR | 246.0 | 249.5 | 251.0 | 249.5 | 256.5 | 265.5 | 234.0 | 260.3 | 257.5 | 250.5 | 386.5 | 351.5 | 502.8 | 369.5 |
| 250 | MR | 209.5 | 205.7 | 201.6 | 179.6 | 169.7 | 180.4 | 174.8 | 208.2 | 206.7 | 209.9 | 191.5 | 205.6 | 156.0 | 111.2 |
| 251 | MR | 245.9 | 249.7 | 260.6 | 241.3 | 223.2 | 229.1 | 217.9 | 258.1 | 251.7 | 253.7 | 170.7 | 184.4 | 197.3 | 82.4 |
| 252 | MR | 244.0 | 231.0 | 229.5 | 215.3 | 217.5 | 225.0 | 205.0 | 266.0 | 242.0 | 231.0 | 257.0 | 291.0 | 198.3 | 114.8 |
| 253 | MR | 236.0 | 236.0 | 234.0 | 224.0 | 220.0 | 232.0 | 223.0 | 263.0 | 253.0 | 231.0 | 258.0 | 303.0 | 325.0 | 201.0 |
| 254 | MR | 107.8 | 109.8 | 111.2 | 110.6 | 109.0 | 106.6 | 94.2 | 106.4 | 108.4 | 105.2 | 168.4 | 174.2 | 178.2 | 191.6 |
| 255 | MR | 159.0 | 158.3 | 159.0 | 157.0 | 155.0 | 152.0 | 140.0 | 155.3 | 157.3 | 154.7 | 155.0 | 162.0 | 196.0 | 209.0 |
| 256 | MR | 250.3 | 252.7 | 251.5 | 246.1 | 246.7 | 249.3 | 228.6 | 245.9 | 250.1 | 249.0 | 401.8 | 267.4 | 333.1 | 439.0 |
| 257 | MR | 139.0 | 140.5 | 142.0 | 140.0 | 138.0 | 137.0 | 125.5 | 135.5 | 137.5 | 139.0 | 168.0 | 158.0 | 161.5 | 143.0 |
| 258 | MR | 254.0 | 249.0 | 250.0 | 246.0 | 245.0 | 243.0 | 234.0 | 250.0 | 252.0 | 249.0 | 74.0 | 141.0 | 181.0 | 326.0 |
| 259 | MR | 261.0 | 253.5 | 257.0 | 253.0 | 250.5 | 247.0 | 239.0 | 255.0 | 257.0 | 255.0 | 64.0 | 129.0 | 160.0 | 292.0 |
| 260 | MR | 236.6 | 235.0 | 229.2 | 228.9 | 231.3 | 232.8 | 223.4 | 239.1 | 239.5 | 235.9 | 126.1 | 106.9 | 175.9 | 267.5 |
| 261 | MR | 254.5 | 258.3 | 260.0 | 257.0 | 257.8 | 261.0 | 239.8 | 260.3 | 261.5 | 256.8 | 200.5 | 106.0 | 132.8 | 299.8 |
| 262 | MR | 246.4 | 247.6 | 245.6 | 247.6 | 250.4 | 251.1 | 243.0 | 248.8 | 248.7 | 248.5 | 342.2 | 321.9 | 342.3 | 289.5 |
| 263 | MR | 252.5 | 254.5 | 251.5 | 245.8 | 247.0 | 247.5 | 228.8 | 244.5 | 249.5 | 249.5 | 463.0 | 319.0 | 386.8 | 542.8 |
| 264 | MR | 261.0 | 251.3 | 258.7 | 259.1 | 261.3 | 262.5 | 247.9 | 270.2 | 270.2 | 261.9 | 164.2 | 270.5 | 344.7 | 321.5 |
| 265 | MR | 253.4 | 253.4 | 251.8 | 253.6 | 261.7 | 262.4 | 248.0 | 256.9 | 254.5 | 253.1 | 316.9 | 318.9 | 352.8 | 294.2 |
| 266 | MR | 247.4 | 249.8 | 253.6 | 239.5 | 220.8 | 237.6 | 229.9 | 264.2 | 248.2 | 246.2 | 309.8 | 305.2 | 272.9 | 174.5 |
| 267 | MR | 252.9 | 254.8 | 255.6 | 242.0 | 223.5 | 237.7 | 233.9 | 273.5 | 256.6 | 252.4 | 331.1 | 312.6 | 293.0 | 194.4 |
| 268 | MR | 260.8 | 264.4 | 265.7 | 266.2 | 273.0 | 288.6 | 257.7 | 290.1 | 267.8 | 261.4 | 320.5 | 275.2 | 273.8 | 257.8 |
| 269 | MR | 238.3 | 243.8 | 245.4 | 249.8 | 243.8 | 245.5 | 234.9 | 242.1 | 240.9 | 241.5 | 306.4 | 298.0 | 322.3 | 244.7 |
| 270 | MR | 254.9 | 258.2 | 264.1 | 264.5 | 260.3 | 272.1 | 248.0 | 278.8 | 262.5 | 261.4 | 296.3 | 304.5 | 288.8 | 227.7 |
| 271 | MR | 257.2 | 259.5 | 265.5 | 269.0 | 273.0 | 284.5 | 253.6 | 281.9 | 265.7 | 263.7 | 324.4 | 292.2 | 285.6 | 219.0 |
| 272 | MR | 238.3 | 242.9 | 244.8 | 244.2 | 254.8 | 265.6 | 230.4 | 259.3 | 254.4 | 244.9 | 449.5 | 402.7 | 500.4 | 365.5 |
| 273 | MR | 261.5 | 262.9 | 263.5 | 267.5 | 280.1 | 291.4 | 262.3 | 284.4 | 269.0 | 264.4 | 452.1 | 424.0 | 377.6 | 291.0 |
| 274 | MR | 263.3 | 264.7 | 265.2 | 268.8 | 282.2 | 295.0 | 265.2 | 288.8 | 271.3 | 265.3 | 377.5 | 334.8 | 334.7 | 274.0 |
| 275 | MR | 260.3 | 262.7 | 261.6 | 263.4 | 275.7 | 290.4 | 260.8 | 288.9 | 267.6 | 259.6 | 371.8 | 324.9 | 391.9 | 290.7 |
| 276 | MR | 254.2 | 256.0 | 262.6 | 268.4 | 273.1 | 282.8 | 250.7 | 274.7 | 262.1 | 260.5 | 335.6 | 286.7 | 300.0 | 231.5 |
| 277 | MR | 256.3 | 258.6 | 257.2 | 257.2 | 267.9 | 277.3 | 243.7 | 273.8 | 272.1 | 258.6 | 485.1 | 447.4 | 495.8 | 369.4 |
| 278 | MR | 246.1 | 247.3 | 245.2 | 247.3 | 249.7 | 250.3 | 242.5 | 248.3 | 248.5 | 248.3 | 340.3 | 323.1 | 339.9 | 285.6 |
| 279 | MR | 253.2 | 254.0 | 258.5 | 266.6 | 272.6 | 280.8 | 250.0 | 268.6 | 259.4 | 256.8 | 297.8 | 254.2 | 294.7 | 219.5 |
| 280 | MR | 252.2 | 254.4 | 261.7 | 268.0 | 269.4 | 278.1 | 248.3 | 271.0 | 259.0 | 259.0 | 320.9 | 293.1 | 313.3 | 240.6 |
| 281 | MR | 257.0 | 259.4 | 265.5 | 268.7 | 271.2 | 282.7 | 252.9 | 281.8 | 265.5 | 263.3 | 317.6 | 292.0 | 288.1 | 220.4 |
| 282 | MR | 245.4 | 249.0 | 249.6 | 257.0 | 251.3 | 251.0 | 239.0 | 245.6 | 244.9 | 244.9 | 276.8 | 280.3 | 309.6 | 241.4 |
| 283 | MR | 159.1 | 162.5 | 159.3 | 164.4 | 161.3 | 155.4 | 150.9 | 159.5 | 157.5 | 158.3 | 158.3 | 155.7 | 186.2 | 200.0 |
| 284 | MR | 260.2 | 258.5 | 257.0 | 249.5 | 256.0 | 255.9 | 258.0 | 264.9 | 265.7 | 259.8 | 111.1 | 95.1 | 162.2 | 181.2 |
| 285 | MR | 242.8 | 244.6 | 242.4 | 246.1 | 243.7 | 243.8 | 238.6 | 243.4 | 245.5 | 246.5 | 291.4 | 326.5 | 305.8 | 237.1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 286 | MR | 226.5 | 230.5 | 226.5 | 205.0 | 182.0 | 200.0 | 197.0 | 235.5 | 224.5 | 223.0 | 301.5 | 273.0 | 243.5 | 119.0 |
| 287 | MR | 257.7 | 258.6 | 257.6 | 257.6 | 269.3 | 280.4 | 259.2 | 281.8 | 264.7 | 257.9 | 356.8 | 285.4 | 428.8 | 404.6 |
| 288 | MR | 263.0 | 247.8 | 230.8 | 219.0 | 203.3 | 214.0 | 215.3 | 254.8 | 255.3 | 266.3 | 422.0 | 419.3 | 355.0 | 265.5 |
| 289 | MR | 252.1 | 253.8 | 257.4 | 266.8 | 269.6 | 276.5 | 247.3 | 263.5 | 255.6 | 253.5 | 296.1 | 283.7 | 272.1 | 216.4 |
| 290 | MR | 241.0 | 244.8 | 251.8 | 240.1 | 224.3 | 242.5 | 225.8 | 256.5 | 241.3 | 239.7 | 326.8 | 317.4 | 303.1 | 178.7 |
| 291 | MR | 236.8 | 242.4 | 244.2 | 244.7 | 257.4 | 268.3 | 232.7 | 262.0 | 256.6 | 244.8 | 424.0 | 411.9 | 482.7 | 347.8 |
| 292 | MR | 238.7 | 240.2 | 237.5 | 232.2 | 231.2 | 242.8 | 226.6 | 267.4 | 256.9 | 235.6 | 323.7 | 397.1 | 375.6 | 256.7 |
| 293 | MR | 258.0 | 261.6 | 262.1 | 259.7 | 261.6 | 265.0 | 243.6 | 264.7 | 266.2 | 261.5 | 468.9 | 467.5 | 483.5 | 443.2 |
| 294 | MR | 254.1 | 258.0 | 259.1 | 254.9 | 250.9 | 264.8 | 244.9 | 281.4 | 262.1 | 256.5 | 317.5 | 265.2 | 284.0 | 244.3 |
| 295 | MR | 231.9 | 236.3 | 236.0 | 230.3 | 228.6 | 237.2 | 218.2 | 260.6 | 246.1 | 233.4 | 308.7 | 358.2 | 323.1 | 204.8 |
| 296 | MR | 255.7 | 251.8 | 249.6 | 241.6 | 244.8 | 247.7 | 244.6 | 255.2 | 257.3 | 253.0 | 62.0 | 41.8 | 121.4 | 146.3 |
| 297 | MR | 258.3 | 263.3 | 272.0 | 259.1 | 247.7 | 245.6 | 235.6 | 275.1 | 254.8 | 255.4 | 186.9 | 209.8 | 212.9 | 127.8 |
| 298 | MR | 253.7 | 255.0 | 257.3 | 258.7 | 255.9 | 265.0 | 243.6 | 267.7 | 254.8 | 246.5 | 253.4 | 251.1 | 260.3 | 181.3 |
| 299 | MR | 142.2 | 144.7 | 143.0 | 141.6 | 141.0 | 134.1 | 126.6 | 142.0 | 142.7 | 141.0 | 161.6 | 178.4 | 232.5 | 301.7 |
| 300 | MR | 255.4 | 260.4 | 268.8 | 260.4 | 248.8 | 247.5 | 234.4 | 273.1 | 249.8 | 249.5 | 203.8 | 225.0 | 226.3 | 137.7 |
| 301 | MR | 251.3 | 247.4 | 248.1 | 246.6 | 246.7 | 247.0 | 231.7 | 246.8 | 247.5 | 245.8 | 216.8 | 229.8 | 281.7 | 335.2 |
| 302 | MR | 251.0 | 253.5 | 249.0 | 244.0 | 245.0 | 247.0 | 229.5 | 246.0 | 250.5 | 249.5 | 435.0 | 295.0 | 375.5 | 492.0 |
| 303 | MR | 246.3 | 247.6 | 250.3 | 231.4 | 214.8 | 222.3 | 216.2 | 256.1 | 253.2 | 257.6 | 162.7 | 173.9 | 173.2 | 66.4 |
| 304 | MR | 245.1 | 246.2 | 249.9 | 244.0 | 243.0 | 240.2 | 229.4 | 248.6 | 253.8 | 249.1 | 175.3 | 205.5 | 238.4 | 276.7 |
| 305 | MR | 226.5 | 227.8 | 226.5 | 212.7 | 200.7 | 208.7 | 206.5 | 230.2 | 229.2 | 229.7 | 478.2 | 456.0 | 378.5 | 314.7 |
| 306 | MR | 162.9 | 163.2 | 156.9 | 141.1 | 136.9 | 148.8 | 148.8 | 171.9 | 171.2 | 166.7 | 265.4 | 226.6 | 218.4 | 139.3 |
| 307 | MR | 169.3 | 171.4 | 171.5 | 177.0 | 174.5 | 163.5 | 161.8 | 172.1 | 171.6 | 167.7 | 117.5 | 97.4 | 131.1 | 156.7 |
| 308 | MR | 201.6 | 207.5 | 206.8 | 197.4 | 187.9 | 197.4 | 189.7 | 210.9 | 210.1 | 205.6 | 254.9 | 223.6 | 207.2 | 184.9 |
| 309 | MR | 246.8 | 247.9 | 251.1 | 245.9 | 245.4 | 241.3 | 231.2 | 252.8 | 256.3 | 252.1 | 164.8 | 205.9 | 237.0 | 284.3 |
| 310 | MR | 192.6 | 194.1 | 188.9 | 175.6 | 171.2 | 183.1 | 177.7 | 201.8 | 201.1 | 195.7 | 264.0 | 234.5 | 222.6 | 149.4 |
| 311 | MR | 238.0 | 242.8 | 242.6 | 229.8 | 220.5 | 230.8 | 221.1 | 244.2 | 244.1 | 240.9 | 221.1 | 222.8 | 209.3 | 200.2 |
| 312 | MR | 208.7 | 210.5 | 217.6 | 221.4 | 215.8 | 208.2 | 205.4 | 216.7 | 215.5 | 212.8 | 223.5 | 190.5 | 262.6 | 305.2 |
| 313 | MR | 204.0 | 208.6 | 208.9 | 201.6 | 189.7 | 198.2 | 189.7 | 208.4 | 209.3 | 205.7 | 344.7 | 299.0 | 258.4 | 210.7 |
| 314 | MR | 257.1 | 251.9 | 241.2 | 221.6 | 207.8 | 215.1 | 218.0 | 254.8 | 252.4 | 260.2 | 230.9 | 231.0 | 198.6 | 151.2 |
| 315 | MR | 242.5 | 237.7 | 226.0 | 207.6 | 196.3 | 202.7 | 203.8 | 239.7 | 238.1 | 245.2 | 226.8 | 236.0 | 194.6 | 154.0 |
| 316 | MR | 240.5 | 242.1 | 241.7 | 241.3 | 240.4 | 236.1 | 228.2 | 241.1 | 244.5 | 241.5 | 231.2 | 209.6 | 276.6 | 300.4 |
| 317 | MR | 110.5 | 113.4 | 111.2 | 109.8 | 109.9 | 103.3 | 95.2 | 110.2 | 110.0 | 107.2 | 124.2 | 140.9 | 175.7 | 226.7 |
| 318 | MR | 202.4 | 202.6 | 200.6 | 202.6 | 202.1 | 197.6 | 190.4 | 204.2 | 205.4 | 203.2 | 210.7 | 199.0 | 248.9 | 251.6 |
| 319 | MR | 143.7 | 145.0 | 145.3 | 144.7 | 143.3 | 139.0 | 126.7 | 140.0 | 143.0 | 140.0 | 152.3 | 151.0 | 162.3 | 166.3 |
| 320 | MR | 246.2 | 249.8 | 255.8 | 259.0 | 252.3 | 253.1 | 237.7 | 251.5 | 253.0 | 249.1 | 291.1 | 247.8 | 274.2 | 281.8 |
| 321 | MR | 250.5 | 250.2 | 241.4 | 227.8 | 218.3 | 228.5 | 229.5 | 252.9 | 251.0 | 250.8 | 213.0 | 213.8 | 184.7 | 157.4 |
| 322 | MR | 55.0 | 40.3 | 28.1 | 5.6 | 1.9 | 15.4 | 13.4 | 46.6 | 54.1 | 63.1 | 172.1 | 165.0 | 119.7 | 55.0 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 323 | MR | 249.9 | 254.4 | 260.6 | 264.5 | 254.4 | 260.2 | 241.1 | 253.9 | 253.2 | 252.0 | 248.6 | 236.9 | 234.3 | 262.6 |
| 324 | MR | 251.7 | 254.0 | 261.2 | 264.0 | 256.2 | 258.8 | 240.4 | 253.7 | 254.6 | 252.4 | 217.6 | 204.9 | 235.9 | 263.5 |
| 325 | MR | 242.2 | 241.5 | 249.2 | 246.4 | 243.6 | 241.7 | 225.8 | 241.7 | 245.7 | 242.3 | 230.6 | 215.1 | 274.2 | 272.1 |
| 326 | MR | 243.7 | 242.0 | 237.0 | 220.2 | 210.9 | 218.3 | 219.2 | 245.1 | 245.8 | 249.6 | 341.3 | 332.3 | 270.9 | 221.9 |
| 327 | MR | 238.0 | 237.0 | 237.0 | 236.0 | 234.0 | 232.0 | 225.0 | 236.0 | 239.0 | 241.0 | 262.0 | 288.0 | 377.0 | 404.0 |
| 328 | MR | 244.0 | 248.8 | 250.4 | 238.5 | 231.4 | 241.3 | 227.3 | 249.9 | 249.8 | 247.3 | 212.5 | 196.0 | 226.7 | 210.4 |
| 329 | MR | 243.4 | 247.7 | 250.0 | 238.1 | 232.3 | 241.5 | 226.2 | 248.7 | 249.3 | 246.5 | 215.3 | 198.8 | 234.7 | 210.4 |
| 330 | MR | 239.7 | 244.3 | 253.7 | 244.7 | 233.3 | 249.0 | 225.7 | 255.3 | 241.3 | 238.3 | 321.3 | 310.3 | 356.0 | 180.7 |
| 331 | MR | 236.0 | 240.9 | 251.8 | 239.8 | 227.8 | 245.6 | 221.1 | 251.5 | 236.6 | 233.6 | 255.5 | 319.9 | 317.8 | 172.6 |
| 332 | MR | 240.9 | 240.2 | 241.6 | 244.1 | 240.1 | 249.6 | 230.4 | 246.2 | 244.4 | 236.4 | 234.1 | 297.0 | 265.3 | 204.9 |
| 333 | MR | 252.2 | 255.8 | 252.2 | 252.0 | 257.0 | 267.4 | 234.6 | 268.6 | 267.5 | 251.6 | 489.3 | 542.0 | 568.5 | 463.8 |
| 334 | MR | 242.8 | 244.1 | 241.7 | 243.6 | 244.6 | 244.5 | 238.1 | 245.6 | 246.7 | 246.3 | 347.2 | 317.0 | 346.6 | 272.9 |
| 335 | MR | 250.1 | 251.4 | 250.1 | 253.8 | 254.1 | 254.8 | 245.8 | 248.5 | 250.0 | 249.8 | 330.1 | 311.3 | 346.8 | 257.2 |
| 336 | MR | 256.0 | 260.6 | 270.7 | 255.9 | 244.8 | 243.6 | 232.7 | 272.3 | 253.6 | 254.3 | 183.5 | 204.9 | 215.8 | 125.2 |
| 337 | MR | 250.6 | 254.6 | 258.2 | 265.1 | 258.4 | 262.6 | 244.3 | 255.1 | 252.0 | 251.6 | 318.9 | 296.3 | 294.1 | 235.1 |
| 338 | MR | 239.0 | 243.2 | 253.2 | 243.2 | 231.2 | 247.8 | 224.2 | 254.3 | 239.8 | 236.5 | 294.8 | 323.0 | 346.2 | 177.7 |
| 339 | MR | 256.0 | 256.8 | 255.9 | 261.5 | 270.3 | 273.1 | 252.1 | 259.8 | 257.2 | 255.5 | 275.1 | 228.7 | 237.1 | 187.7 |
| 340 | MR | 234.6 | 238.8 | 237.7 | 233.3 | 223.3 | 233.0 | 219.7 | 239.9 | 239.2 | 236.3 | 247.5 | 259.4 | 220.4 | 212.7 |
| 341 | MR | 244.4 | 248.3 | 243.3 | 235.4 | 222.5 | 232.9 | 225.2 | 247.0 | 244.8 | 241.9 | 209.7 | 233.8 | 193.4 | 189.9 |
| 342 | MR | 253.5 | 254.3 | 247.8 | 247.8 | 249.0 | 255.0 | 229.3 | 254.3 | 256.8 | 255.5 | 338.8 | 416.8 | 509.5 | 426.5 |
| 343 | MR | 251.7 | 252.0 | 244.3 | 233.7 | 232.0 | 242.3 | 235.3 | 273.7 | 271.7 | 248.7 | 292.0 | 332.3 | 351.3 | 228.0 |
| 344 | MR | 253.5 | 256.5 | 269.5 | 250.0 | 237.5 | 237.5 | 227.5 | 266.5 | 257.5 | 257.5 | 165.5 | 176.0 | 208.5 | 118.0 |
| 345 | MR | 262.0 | 250.0 | 260.0 | 260.0 | 263.0 | 264.0 | 251.0 | 272.0 | 270.0 | 263.0 | 100.0 | 212.0 | 280.0 | 286.0 |
| 346 | MR | 251.5 | 251.8 | 244.7 | 234.7 | 233.5 | 244.7 | 236.5 | 273.7 | 270.8 | 248.8 | 314.3 | 352.7 | 364.0 | 240.0 |
| 347 | MR | 239.0 | 244.3 | 253.8 | 243.5 | 230.8 | 248.0 | 224.5 | 255.0 | 239.8 | 237.3 | 285.8 | 329.0 | 340.8 | 177.0 |
| 348 | MR | 240.0 | 245.0 | 255.0 | 244.3 | 231.7 | 249.0 | 225.0 | 256.0 | 241.0 | 238.0 | 290.3 | 345.7 | 344.7 | 177.7 |
| 349 | MR | 244.3 | 247.3 | 253.1 | 241.1 | 224.5 | 241.7 | 229.0 | 260.6 | 245.1 | 243.2 | 326.7 | 318.1 | 295.1 | 179.7 |
| 350 | MR | 241.2 | 244.6 | 251.1 | 236.7 | 219.3 | 238.0 | 224.0 | 256.2 | 241.1 | 239.2 | 315.3 | 304.0 | 279.2 | 163.2 |
| 351 | MR | 252.2 | 255.3 | 253.3 | 253.4 | 262.9 | 272.9 | 238.0 | 269.2 | 268.3 | 253.7 | 469.9 | 428.7 | 462.9 | 353.5 |
| 352 | MR | 255.1 | 258.0 | 256.0 | 254.8 | 260.0 | 270.5 | 242.0 | 276.5 | 273.5 | 254.5 | 460.9 | 585.4 | 561.0 | 438.9 |
| 353 | MR | 240.0 | 245.0 | 254.0 | 245.0 | 233.0 | 250.0 | 226.0 | 255.0 | 241.0 | 239.0 | 323.0 | 310.0 | 360.0 | 181.0 |
| 354 | MR | 239.0 | 244.0 | 254.0 | 243.0 | 230.0 | 248.0 | 224.0 | 254.0 | 239.0 | 237.0 | 268.0 | 311.0 | 322.0 | 171.0 |
| 355 | MR | 252.5 | 253.8 | 256.0 | 260.7 | 256.9 | 264.0 | 243.7 | 261.5 | 253.9 | 247.4 | 248.0 | 268.4 | 271.3 | 200.0 |
| 356 | MR | 253.5 | 256.0 | 261.1 | 258.1 | 252.3 | 260.8 | 240.0 | 269.9 | 252.8 | 246.4 | 275.9 | 266.7 | 282.9 | 177.7 |
| 357 | MR | 238.0 | 242.0 | 253.0 | 242.0 | 229.0 | 247.0 | 223.0 | 253.0 | 238.0 | 236.0 | 274.0 | 309.0 | 325.0 | 171.0 |
| 358 | MR | 251.1 | 253.2 | 260.7 | 266.7 | 266.4 | 275.4 | 246.5 | 268.2 | 256.8 | 256.5 | 302.1 | 302.5 | 337.6 | 247.1 |
| 359 | MR | 252.1 | 254.5 | 257.1 | 256.4 | 252.9 | 266.9 | 245.1 | 266.3 | 256.8 | 250.4 | 315.6 | 275.1 | 296.4 | 202.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | MR | 257.3 | 260.9 | 256.6 | 257.0 | 260.9 | 268.1 | 240.0 | 267.4 | 267.5 | 262.0 | 402.7 | 440.2 | 526.3 | 436.4 |
| 361 | MR | 257.9 | 258.2 | 255.7 | 256.0 | 263.0 | 273.4 | 238.7 | 271.7 | 270.8 | 257.3 | 513.9 | 530.0 | 536.3 | 394.0 |
| 362 | MR | 253.8 | 255.1 | 248.6 | 249.0 | 250.5 | 256.5 | 230.5 | 255.8 | 258.1 | 256.0 | 354.2 | 420.2 | 520.8 | 437.5 |
| 363 | MR | 239.3 | 243.3 | 253.3 | 242.3 | 230.3 | 247.3 | 224.3 | 254.3 | 239.5 | 237.3 | 306.5 | 342.0 | 344.3 | 180.8 |
| 364 | MR | 253.0 | 246.0 | 244.0 | 243.0 | 245.0 | 248.0 | 226.0 | 250.0 | 256.0 | 252.0 | 265.0 | 414.0 | 473.0 | 375.0 |
| 365 | MR | 255.0 | 246.0 | 247.0 | 245.0 | 249.0 | 251.0 | 230.0 | 254.0 | 259.0 | 253.0 | 224.0 | 355.0 | 424.0 | 330.0 |
| 366 | MR | 255.5 | 245.5 | 248.5 | 248.0 | 251.0 | 253.0 | 233.5 | 257.5 | 262.5 | 254.5 | 212.0 | 322.0 | 401.0 | 316.5 |
| 367 | MR | 264.8 | 268.6 | 268.8 | 269.5 | 276.3 | 285.6 | 257.2 | 285.2 | 283.1 | 271.7 | 453.1 | 553.6 | 583.7 | 473.3 |
| 368 | MR | 253.0 | 249.0 | 244.0 | 244.0 | 244.0 | 247.0 | 225.0 | 249.0 | 255.0 | 251.0 | 291.0 | 426.0 | 482.0 | 397.0 |
| 369 | MR | 256.7 | 259.3 | 254.0 | 254.7 | 257.0 | 264.0 | 236.7 | 263.3 | 264.0 | 260.0 | 389.0 | 427.0 | 527.3 | 438.3 |
| 370 | MR | 259.5 | 263.5 | 259.5 | 260.0 | 265.0 | 272.5 | 244.0 | 272.0 | 271.5 | 264.5 | 409.0 | 454.0 | 525.0 | 432.5 |
| 371 | MR | 237.7 | 242.7 | 252.0 | 241.7 | 228.7 | 246.7 | 223.3 | 253.3 | 238.7 | 236.0 | 296.3 | 352.7 | 345.0 | 180.0 |
| 372 | MR | 248.5 | 251.1 | 250.7 | 258.0 | 252.2 | 251.2 | 240.8 | 246.7 | 246.8 | 247.1 | 274.6 | 260.0 | 303.9 | 240.5 |
| 373 | MR | 249.2 | 251.4 | 254.0 | 261.4 | 256.0 | 259.8 | 241.2 | 253.7 | 250.3 | 246.4 | 268.3 | 272.4 | 300.1 | 223.6 |
| 374 | MR | 240.0 | 245.5 | 254.5 | 245.0 | 232.0 | 249.5 | 226.5 | 256.5 | 242.0 | 239.0 | 311.0 | 323.5 | 348.5 | 179.0 |
| 375 | MR | 242.1 | 246.8 | 258.4 | 236.9 | 218.2 | 227.8 | 213.8 | 254.6 | 246.3 | 249.0 | 188.4 | 196.9 | 209.9 | 80.8 |
| 376 | MR | 238.5 | 244.0 | 253.5 | 243.0 | 230.5 | 247.5 | 224.0 | 254.0 | 239.0 | 237.0 | 280.5 | 324.5 | 336.5 | 175.5 |
| 377 | MR | 243.1 | 250.2 | 251.3 | 253.3 | 262.1 | 274.0 | 244.1 | 275.4 | 268.1 | 252.9 | 304.7 | 415.2 | 518.2 | 371.6 |
| 378 | MR | 250.7 | 254.8 | 255.0 | 255.1 | 266.4 | 276.5 | 242.7 | 271.6 | 269.2 | 255.7 | 415.1 | 427.1 | 480.6 | 391.9 |
| 379 | MR | 252.8 | 257.4 | 269.5 | 250.6 | 239.1 | 239.8 | 228.4 | 267.9 | 254.4 | 254.7 | 174.8 | 189.9 | 216.0 | 120.5 |
| 380 | MR | 251.2 | 255.6 | 268.5 | 250.4 | 238.2 | 239.9 | 227.1 | 266.5 | 251.6 | 251.8 | 180.8 | 198.1 | 223.0 | 120.9 |
| 381 | MR | 243.0 | 248.3 | 249.3 | 246.0 | 242.7 | 249.4 | 234.0 | 251.2 | 250.2 | 245.8 | 239.7 | 233.7 | 254.6 | 225.9 |
| 382 | MR | 235.8 | 242.6 | 242.2 | 237.7 | 239.2 | 249.7 | 226.8 | 267.2 | 252.3 | 239.4 | 273.5 | 333.1 | 350.5 | 225.3 |
| 383 | MR | 244.4 | 246.4 | 244.0 | 248.1 | 245.3 | 245.1 | 240.2 | 244.4 | 245.6 | 247.2 | 279.1 | 306.4 | 311.9 | 235.9 |
| 384 | MR | 258.2 | 262.8 | 270.4 | 263.9 | 252.4 | 250.1 | 237.5 | 276.0 | 251.4 | 250.9 | 206.3 | 223.8 | 223.9 | 139.4 |
| 385 | MR | 255.7 | 260.5 | 270.1 | 258.3 | 246.5 | 245.6 | 233.4 | 272.7 | 251.5 | 251.7 | 193.4 | 216.3 | 223.4 | 129.1 |
| 386 | MR | 244.5 | 249.7 | 257.7 | 250.5 | 238.9 | 254.1 | 232.1 | 261.1 | 247.2 | 244.5 | 328.9 | 288.9 | 336.5 | 177.7 |
| 387 | MR | 253.5 | 252.8 | 252.2 | 253.2 | 261.4 | 262.5 | 248.1 | 259.9 | 255.6 | 254.2 | 291.3 | 321.7 | 354.8 | 301.1 |
| 388 | MR | 231.2 | 235.9 | 232.7 | 229.1 | 230.9 | 241.2 | 220.7 | 260.7 | 248.3 | 231.7 | 310.3 | 348.6 | 334.9 | 203.8 |
| 389 | MR | 245.2 | 249.9 | 253.6 | 243.5 | 236.5 | 244.7 | 229.1 | 249.4 | 250.3 | 248.0 | 230.7 | 218.7 | 251.7 | 220.5 |
| 390 | MR | 239.4 | 246.1 | 246.9 | 242.4 | 243.1 | 254.0 | 230.0 | 270.9 | 254.2 | 243.2 | 306.2 | 323.1 | 368.0 | 258.7 |
| 391 | MR | 239.0 | 244.0 | 254.0 | 244.0 | 231.0 | 249.0 | 225.0 | 255.0 | 240.0 | 237.0 | 287.0 | 338.0 | 342.0 | 177.0 |
| 392 | MR | 259.0 | 263.0 | 259.0 | 259.0 | 264.0 | 271.0 | 243.0 | 271.0 | 270.0 | 264.0 | 409.0 | 453.0 | 527.0 | 434.0 |
| 393 | MR | 240.0 | 244.8 | 254.8 | 244.5 | 231.8 | 249.0 | 225.3 | 255.8 | 240.8 | 237.8 | 289.5 | 341.0 | 344.0 | 177.3 |
| 394 | MR | 240.5 | 245.5 | 255.0 | 245.0 | 233.0 | 249.5 | 226.5 | 256.5 | 241.5 | 239.0 | 308.5 | 319.5 | 351.0 | 178.5 |
| 395 | MR | 242.1 | 249.7 | 248.9 | 247.0 | 258.3 | 274.4 | 238.5 | 278.0 | 260.8 | 247.6 | 386.6 | 395.4 | 370.7 | 295.9 |
| 396 | MR | 256.8 | 257.4 | 254.5 | 254.6 | 261.6 | 271.6 | 236.7 | 270.3 | 269.5 | 255.8 | 492.9 | 518.4 | 520.0 | 396.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 397 | MR | 245.4 | 251.3 | 252.7 | 254.3 | 261.9 | 273.4 | 243.6 | 274.2 | 269.5 | 253.9 | 348.6 | 410.7 | 498.0 | 367.4 |
| 398 | MR | 100.4 | 102.1 | 102.6 | 102.0 | 99.6 | 95.4 | 84.2 | 99.5 | 100.4 | 98.3 | 137.5 | 126.7 | 154.8 | 175.8 |
| 399 | MR | 144.0 | 145.0 | 146.0 | 144.0 | 142.0 | 142.0 | 130.0 | 141.0 | 143.0 | 144.0 | 188.0 | 175.0 | 173.0 | 158.0 |
| 400 | MR | 135.9 | 137.3 | 137.2 | 136.4 | 135.4 | 130.6 | 119.4 | 134.4 | 136.0 | 133.3 | 179.4 | 170.6 | 190.3 | 211.9 |
| 401 | MR | 256.0 | 260.0 | 261.5 | 256.3 | 258.3 | 260.0 | 239.0 | 258.5 | 260.0 | 256.5 | 183.8 | 128.0 | 146.0 | 302.3 |
| 402 | MR | 255.5 | 256.2 | 256.8 | 257.5 | 262.8 | 270.5 | 246.7 | 269.8 | 266.2 | 257.2 | 194.0 | 104.9 | 141.5 | 349.6 |
| 403 | MR | 254.8 | 255.3 | 256.5 | 256.8 | 262.0 | 270.3 | 245.8 | 269.0 | 266.0 | 257.5 | 196.3 | 103.8 | 171.0 | 361.0 |
| 404 | MR | 252.1 | 247.3 | 248.3 | 249.4 | 257.8 | 269.7 | 245.4 | 272.6 | 264.2 | 253.1 | 264.0 | 174.9 | 253.1 | 565.3 |
| 405 | MR | 252.9 | 255.6 | 256.2 | 256.3 | 260.6 | 266.2 | 242.5 | 266.0 | 264.1 | 255.5 | 199.7 | 103.7 | 138.8 | 318.5 |
| 406 | MR | 258.4 | 257.2 | 257.6 | 259.8 | 266.3 | 275.7 | 255.3 | 277.7 | 270.7 | 260.2 | 185.4 | 103.4 | 142.9 | 364.0 |
| 407 | MR | 244.7 | 247.7 | 247.4 | 241.7 | 243.5 | 249.0 | 223.9 | 244.5 | 247.9 | 244.4 | 312.7 | 191.7 | 245.8 | 395.4 |
| 408 | MR | 252.5 | 254.2 | 251.0 | 245.6 | 246.5 | 248.1 | 229.2 | 245.5 | 250.5 | 250.2 | 447.3 | 304.6 | 380.2 | 521.3 |
| 409 | MR | 242.6 | 245.5 | 245.3 | 239.8 | 240.3 | 245.0 | 219.9 | 237.8 | 242.7 | 241.7 | 434.1 | 283.4 | 357.6 | 419.3 |
| 410 | MR | 250.9 | 253.8 | 257.1 | 256.9 | 252.4 | 266.3 | 244.2 | 265.1 | 255.4 | 249.9 | 312.2 | 269.0 | 288.4 | 204.7 |
| 411 | MR | 259.0 | 258.7 | 259.2 | 260.0 | 266.0 | 273.0 | 251.0 | 273.3 | 268.7 | 259.0 | 162.0 | 88.7 | 103.8 | 280.5 |
| 412 | MR | 235.1 | 239.8 | 250.5 | 236.9 | 223.0 | 242.9 | 219.0 | 249.6 | 234.6 | 232.5 | 260.2 | 323.1 | 299.7 | 165.1 |
| 413 | MR | 242.3 | 237.8 | 240.2 | 240.9 | 249.4 | 262.1 | 229.3 | 267.1 | 247.5 | 239.0 | 209.9 | 150.8 | 349.3 | 343.2 |
| 414 | MR | 253.7 | 256.2 | 257.9 | 256.4 | 257.8 | 261.2 | 239.8 | 261.6 | 261.7 | 256.4 | 216.6 | 116.2 | 150.6 | 313.4 |
| 415 | MR | 236.5 | 236.5 | 227.9 | 206.7 | 193.0 | 203.1 | 208.0 | 245.7 | 246.4 | 252.8 | 148.1 | 150.5 | 144.9 | 54.3 |
| 416 | MR | 259.9 | 261.9 | 265.5 | 265.4 | 257.8 | 260.9 | 244.4 | 274.0 | 256.5 | 251.6 | 231.8 | 227.4 | 184.4 | 154.9 |
| 417 | MR | 263.0 | 248.0 | 229.5 | 218.7 | 200.8 | 211.9 | 213.7 | 254.6 | 255.8 | 266.8 | 461.3 | 456.9 | 388.0 | 300.2 |
| 418 | MR | 252.5 | 260.5 | 255.0 | 253.0 | 258.0 | 267.0 | 236.0 | 266.5 | 267.0 | 259.0 | 385.5 | 368.5 | 411.5 | 314.0 |
| 419 | MR | 248.0 | 245.5 | 240.0 | 222.5 | 209.7 | 217.5 | 216.0 | 255.0 | 254.2 | 261.1 | 155.8 | 165.6 | 155.0 | 61.8 |
| 420 | MR | 254.0 | 238.5 | 220.5 | 202.5 | 185.5 | 199.0 | 201.5 | 249.5 | 244.5 | 253.5 | 488.5 | 470.5 | 422.5 | 309.5 |
| 421 | MR | 254.6 | 251.9 | 245.1 | 228.1 | 220.0 | 225.8 | 228.1 | 255.7 | 254.1 | 256.4 | 212.3 | 191.1 | 173.6 | 142.0 |
| 422 | MR | 178.5 | 181.5 | 185.5 | 188.0 | 184.0 | 177.5 | 174.0 | 183.5 | 181.5 | 183.0 | 251.0 | 215.5 | 287.5 | 359.5 |
| 423 | MR | 263.3 | 248.3 | 230.3 | 219.3 | 202.0 | 213.0 | 215.0 | 255.7 | 255.7 | 266.7 | 437.3 | 432.7 | 368.0 | 279.0 |
| 424 | MR | 182.6 | 183.0 | 181.0 | 181.4 | 181.1 | 177.7 | 168.6 | 183.0 | 184.7 | 181.6 | 228.0 | 201.3 | 242.4 | 248.1 |
| 425 | MR | 260.5 | 259.5 | 250.5 | 234.0 | 223.0 | 232.5 | 226.5 | 264.5 | 259.5 | 266.5 | 234.0 | 239.0 | 200.5 | 130.0 |
| 426 | MR | 68.0 | 62.1 | 50.0 | 24.8 | 16.9 | 25.0 | 44.7 | 62.6 | 65.7 | 70.4 | 185.9 | 155.6 | 134.6 | 67.6 |
| 427 | MR | 32.0 | 23.0 | 7.0 | -23.0 | -32.0 | -25.0 | 0.0 | 13.0 | 18.0 | 30.0 | 176.0 | 148.0 | 136.0 | 54.0 |
| 428 | MR | 163.1 | 164.5 | 165.5 | 169.7 | 166.3 | 155.5 | 154.3 | 164.5 | 164.8 | 160.8 | 107.7 | 92.8 | 127.5 | 148.9 |
| 429 | MR | 161.3 | 161.7 | 155.4 | 140.6 | 136.3 | 147.4 | 148.5 | 172.4 | 171.5 | 166.0 | 234.8 | 221.7 | 199.5 | 140.9 |
| 430 | MR | 112.2 | 110.2 | 104.4 | 88.8 | 80.0 | 91.6 | 93.6 | 116.0 | 115.4 | 113.6 | 165.4 | 147.6 | 140.6 | 86.6 |
| 431 | MR | 116.5 | 118.2 | 108.7 | 113.5 | 113.5 | 106.4 | 99.3 | 111.8 | 109.5 | 109.7 | 102.6 | 109.3 | 139.9 | 129.4 |
| 432 | MR | 260.0 | 254.2 | 254.3 | 254.2 | 260.3 | 268.7 | 255.3 | 281.6 | 267.1 | 256.5 | 216.5 | 109.4 | 172.7 | 324.6 |
| 433 | MR | 262.6 | 256.4 | 243.4 | 229.6 | 218.5 | 229.2 | 223.8 | 263.0 | 258.2 | 267.2 | 276.8 | 272.2 | 234.4 | 153.1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 434 | MR | 209.7 | 209.2 | 204.9 | 205.5 | 209.1 | 211.3 | 197.7 | 219.4 | 216.5 | 210.5 | 59.5 | 54.8 | 99.2 | 218.8 |
| 435 | MR | 251.5 | 246.4 | 247.1 | 247.8 | 256.6 | 268.8 | 243.6 | 272.4 | 262.7 | 251.5 | 258.2 | 174.8 | 271.9 | 525.7 |
| 436 | MR | 176.2 | 177.3 | 181.1 | 185.8 | 182.1 | 168.6 | 168.2 | 178.7 | 180.2 | 176.8 | 110.5 | 92.6 | 132.8 | 158.3 |
| 437 | MR | 241.3 | 240.8 | 248.4 | 251.4 | 247.1 | 239.8 | 233.0 | 245.4 | 247.0 | 242.7 | 215.7 | 192.9 | 250.9 | 277.6 |
| 438 | MR | 243.7 | 248.5 | 253.6 | 252.4 | 242.5 | 249.6 | 233.0 | 249.6 | 247.5 | 247.8 | 206.2 | 209.1 | 241.9 | 245.2 |
| 439 | MR | 243.7 | 245.3 | 249.9 | 249.3 | 245.9 | 246.3 | 232.3 | 250.2 | 253.9 | 247.8 | 325.9 | 281.9 | 320.7 | 289.3 |
| 1 | Presente | 213.6 | 211.2 | 215.0 | 208.3 | 201.3 | 202.9 | 202.3 | 210.5 | 213.6 | 211.6 | 248.9 | 219.3 | 276.3 | 272.1 |
| 2 | Presente | 214.5 | 215.5 | 215.7 | 210.7 | 204.4 | 205.3 | 210.0 | 218.1 | 221.8 | 216.5 | 275.2 | 235.9 | 300.7 | 326.3 |
| 3 | Presente | 48.5 | 40.4 | 22.1 | 2.7 | 2.3 | 8.4 | 31.6 | 42.6 | 45.1 | 48.6 | 166.9 | 149.9 | 139.4 | 63.4 |
| 4 | Presente | 216.2 | 216.5 | 215.1 | 212.5 | 203.0 | 205.1 | 210.2 | 214.4 | 217.0 | 215.7 | 277.1 | 248.6 | 292.9 | 286.5 |
| 5 | Presente | 184.9 | 182.8 | 181.3 | 174.2 | 171.0 | 166.8 | 180.8 | 185.4 | 187.9 | 191.8 | 151.7 | 134.9 | 204.6 | 171.6 |
| 6 | Presente | 214.7 | 214.8 | 206.9 | 197.9 | 192.3 | 196.4 | 206.1 | 214.5 | 215.1 | 216.7 | 163.9 | 179.4 | 217.7 | 181.3 |
| 7 | Presente | 214.7 | 215.8 | 218.0 | 211.9 | 205.0 | 206.0 | 210.1 | 218.4 | 222.6 | 216.4 | 268.3 | 223.2 | 301.9 | 314.3 |
| 8 | Presente | 209.4 | 207.6 | 203.6 | 195.0 | 191.1 | 194.6 | 202.3 | 207.2 | 209.0 | 207.6 | 239.1 | 232.5 | 257.5 | 245.8 |
| 9 | Presente | 219.2 | 211.4 | 197.8 | 180.6 | 177.8 | 179.3 | 196.0 | 210.5 | 215.8 | 221.3 | 285.9 | 225.3 | 212.8 | 140.0 |
| 10 | Presente | 216.4 | 203.8 | 184.4 | 163.8 | 154.3 | 164.3 | 186.0 | 205.3 | 208.5 | 216.5 | 328.4 | 301.4 | 270.3 | 161.9 |
| 11 | Presente | 228.9 | 230.0 | 228.4 | 225.8 | 226.0 | 228.5 | 228.6 | 230.2 | 229.7 | 227.7 | 356.0 | 415.3 | 437.8 | 399.0 |
| 12 | Presente | 230.4 | 227.1 | 228.1 | 225.3 | 224.1 | 225.7 | 227.9 | 228.9 | 229.2 | 227.3 | 189.1 | 274.1 | 358.7 | 355.8 |
| 13 | Presente | 225.5 | 225.8 | 225.1 | 218.3 | 219.0 | 219.4 | 225.9 | 225.8 | 228.5 | 225.6 | 105.3 | 106.4 | 166.9 | 226.0 |
| 14 | Presente | 176.0 | 168.0 | 157.3 | 139.2 | 134.7 | 145.2 | 157.1 | 171.2 | 173.4 | 176.8 | 237.0 | 231.6 | 189.8 | 106.6 |
| 15 | Presente | 159.3 | 149.3 | 137.7 | 127.3 | 128.3 | 137.3 | 147.3 | 158.0 | 159.3 | 159.3 | 218.0 | 205.7 | 179.7 | 111.3 |
| 16 | Presente | 231.4 | 222.5 | 229.2 | 227.3 | 230.3 | 231.4 | 232.5 | 234.1 | 233.6 | 229.2 | 151.8 | 264.5 | 370.2 | 359.7 |
| 17 | Presente | 149.8 | 139.8 | 124.4 | 113.8 | 117.2 | 126.4 | 133.4 | 142.4 | 148.8 | 149.4 | 217.8 | 197.8 | 141.2 | 82.2 |
| 18 | Presente | 233.0 | 234.0 | 231.0 | 228.0 | 231.0 | 233.0 | 233.0 | 233.0 | 232.0 | 231.0 | 309.0 | 325.0 | 388.0 | 365.0 |
| 19 | Presente | 209.0 | 206.7 | 201.2 | 193.1 | 191.9 | 197.4 | 204.0 | 205.9 | 204.9 | 203.1 | 248.5 | 286.6 | 308.6 | 261.3 |
| 20 | Presente | 217.5 | 204.6 | 190.1 | 180.7 | 182.5 | 195.2 | 205.3 | 210.6 | 214.0 | 202.6 | 286.1 | 283.9 | 234.4 | 182.1 |
| 21 | Presente | 220.0 | 227.0 | 221.0 | 218.0 | 218.0 | 219.0 | 219.0 | 220.0 | 222.0 | 221.0 | 356.0 | 369.0 | 404.0 | 362.0 |
| 22 | Presente | 216.6 | 214.0 | 203.8 | 192.6 | 190.0 | 198.0 | 209.6 | 212.8 | 213.2 | 211.2 | 216.0 | 255.0 | 266.8 | 164.8 |
| 23 | Presente | 222.8 | 223.0 | 219.1 | 214.2 | 214.2 | 218.7 | 222.4 | 222.4 | 220.8 | 219.2 | 339.7 | 396.1 | 428.0 | 378.3 |
| 24 | Presente | 223.7 | 207.7 | 193.7 | 184.7 | 188.7 | 202.7 | 211.7 | 216.7 | 219.7 | 205.3 | 286.0 | 283.7 | 231.0 | 177.0 |
| 25 | Presente | 228.3 | 227.6 | 226.3 | 223.2 | 225.0 | 227.7 | 229.9 | 231.8 | 230.8 | 229.2 | 295.4 | 290.0 | 320.3 | 314.6 |
| 26 | Presente | 231.0 | 230.9 | 228.6 | 225.4 | 227.7 | 231.3 | 233.8 | 234.3 | 232.7 | 230.7 | 275.0 | 250.4 | 283.0 | 295.3 |
| 27 | Presente | 228.3 | 228.0 | 226.1 | 222.7 | 225.1 | 227.4 | 230.3 | 231.2 | 230.1 | 228.1 | 263.4 | 253.8 | 318.0 | 354.0 |
| 28 | Presente | 235.3 | 236.8 | 234.9 | 233.2 | 235.9 | 237.2 | 237.0 | 238.1 | 236.1 | 234.0 | 270.5 | 327.5 | 372.5 | 315.9 |
| 29 | Presente | 233.0 | 233.0 | 230.0 | 227.0 | 229.0 | 233.0 | 236.0 | 236.0 | 235.0 | 232.0 | 268.0 | 259.0 | 293.0 | 284.0 |
| 30 | Presente | 224.3 | 225.8 | 225.6 | 222.0 | 221.6 | 224.7 | 228.5 | 231.2 | 230.0 | 227.9 | 166.1 | 235.2 | 296.6 | 294.7 |
| 31 | Presente | 227.2 | 227.3 | 225.1 | 221.1 | 223.5 | 225.5 | 229.2 | 229.2 | 228.1 | 225.7 | 248.9 | 234.4 | 336.9 | 396.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Presente | 220.0 | 227.0 | 222.0 | 218.0 | 218.3 | 220.0 | 220.0 | 221.7 | 222.0 | 222.0 | 326.7 | 328.7 | 373.0 | 334.7 |
| 33 | Presente | 233.4 | 234.1 | 231.8 | 228.8 | 230.8 | 232.9 | 233.0 | 232.7 | 231.9 | 231.4 | 287.3 | 330.9 | 388.3 | 380.7 |
| 34 | Presente | 219.5 | 212.5 | 196.0 | 186.5 | 191.0 | 205.5 | 216.5 | 220.5 | 220.5 | 211.5 | 299.5 | 296.5 | 302.5 | 197.5 |
| 35 | Presente | 212.4 | 210.1 | 200.1 | 189.4 | 187.1 | 194.5 | 205.6 | 208.9 | 208.9 | 206.6 | 223.0 | 266.1 | 271.6 | 176.8 |
| 36 | Presente | 215.6 | 214.9 | 209.6 | 192.0 | 180.5 | 186.9 | 205.1 | 211.4 | 213.0 | 213.2 | 310.1 | 333.3 | 320.2 | 254.0 |
| 37 | Presente | 232.8 | 233.1 | 230.4 | 227.2 | 229.6 | 233.0 | 235.6 | 236.3 | 234.7 | 232.7 | 271.1 | 255.4 | 288.8 | 286.8 |
| 38 | Presente | 190.7 | 182.3 | 171.7 | 156.3 | 152.0 | 163.0 | 173.7 | 186.0 | 189.7 | 192.0 | 224.7 | 212.3 | 178.3 | 110.0 |
| 39 | Presente | 196.7 | 194.5 | 189.3 | 176.5 | 171.9 | 176.6 | 186.7 | 191.0 | 192.9 | 192.8 | 296.1 | 312.0 | 276.0 | 232.5 |
| 40 | Presente | 223.9 | 223.8 | 223.3 | 216.9 | 217.2 | 217.3 | 222.9 | 223.8 | 226.3 | 224.0 | 113.3 | 122.0 | 188.2 | 248.5 |
| 41 | Presente | 217.0 | 197.0 | 180.0 | 163.5 | 159.0 | 164.0 | 189.0 | 207.0 | 215.0 | 222.0 | 200.5 | 177.0 | 152.5 | 57.0 |
| 42 | Presente | 210.5 | 189.5 | 171.5 | 158.5 | 148.5 | 157.0 | 183.0 | 195.5 | 206.5 | 212.5 | 286.5 | 225.5 | 131.0 | 82.5 |
| 43 | Presente | 223.3 | 218.6 | 205.8 | 190.6 | 183.5 | 190.0 | 209.4 | 221.0 | 219.1 | 220.1 | 265.6 | 247.0 | 241.8 | 156.1 |
| 44 | Presente | 220.7 | 216.0 | 202.0 | 184.0 | 177.0 | 187.0 | 206.0 | 217.0 | 219.0 | 220.7 | 266.0 | 235.0 | 229.3 | 132.0 |
| 45 | Presente | 217.0 | 197.0 | 180.0 | 163.5 | 159.0 | 164.0 | 189.0 | 207.0 | 215.0 | 222.0 | 200.5 | 177.0 | 152.5 | 57.0 |
| 46 | Presente | 218.5 | 210.2 | 197.9 | 180.4 | 175.2 | 176.6 | 195.0 | 209.3 | 215.1 | 220.0 | 280.7 | 225.1 | 207.3 | 135.5 |
| 47 | Presente | 210.4 | 198.9 | 181.4 | 161.7 | 153.5 | 163.1 | 182.4 | 200.7 | 203.6 | 210.8 | 299.3 | 280.2 | 245.5 | 146.8 |
| 48 | Presente | 208.5 | 202.0 | 189.7 | 175.5 | 174.2 | 178.8 | 192.1 | 204.5 | 208.9 | 213.9 | 342.8 | 309.5 | 273.9 | 173.6 |
| 49 | Presente | 227.0 | 229.0 | 224.7 | 222.7 | 222.0 | 222.3 | 222.0 | 224.0 | 225.7 | 223.0 | 59.0 | 74.3 | 116.3 | 258.0 |
| 50 | Presente | 116.3 | 116.1 | 116.7 | 112.4 | 109.3 | 108.6 | 112.3 | 115.3 | 112.9 | 115.3 | 104.9 | 106.7 | 153.1 | 187.1 |
| 51 | Presente | 130.0 | 118.1 | 102.4 | 88.5 | 91.5 | 100.5 | 112.5 | 123.1 | 127.6 | 130.8 | 209.4 | 193.8 | 150.3 | 88.3 |
| 52 | Presente | 184.3 | 164.1 | 146.3 | 133.1 | 123.9 | 132.6 | 155.2 | 171.3 | 178.7 | 185.8 | 240.2 | 201.9 | 128.6 | 79.5 |
| 53 | Presente | 220.6 | 201.7 | 181.4 | 165.5 | 155.4 | 163.2 | 188.0 | 207.0 | 214.0 | 222.5 | 356.0 | 302.0 | 266.3 | 148.2 |
| 54 | Presente | 180.4 | 172.0 | 157.3 | 144.4 | 143.5 | 149.7 | 163.3 | 176.5 | 179.1 | 183.2 | 261.3 | 252.2 | 217.7 | 133.3 |
| 55 | Presente | 213.7 | 212.0 | 205.1 | 192.8 | 183.3 | 190.0 | 201.7 | 209.4 | 210.6 | 213.8 | 245.8 | 266.1 | 285.0 | 238.3 |
| 56 | Presente | 211.9 | 212.1 | 210.0 | 209.0 | 205.0 | 208.0 | 211.3 | 212.1 | 214.9 | 215.0 | 268.1 | 288.0 | 293.0 | 291.3 |
| 57 | Presente | 221.0 | 228.0 | 223.0 | 220.0 | 220.0 | 222.0 | 221.0 | 223.0 | 224.0 | 223.0 | 292.0 | 308.0 | 347.0 | 320.0 |
| 58 | Presente | 220.0 | 227.0 | 222.0 | 219.0 | 219.0 | 220.0 | 220.0 | 222.0 | 223.0 | 222.0 | 306.0 | 315.0 | 356.0 | 324.0 |
| 59 | Presente | 227.0 | 227.0 | 224.0 | 221.0 | 224.0 | 226.0 | 229.0 | 229.0 | 227.0 | 225.0 | 238.0 | 223.0 | 288.0 | 324.0 |
| 60 | Presente | 217.0 | 214.0 | 192.0 | 180.0 | 173.0 | 181.0 | 200.0 | 210.0 | 211.0 | 212.0 | 263.0 | 246.0 | 231.0 | 175.0 |
| 61 | Presente | 196.5 | 188.0 | 175.0 | 158.5 | 153.0 | 162.5 | 176.5 | 191.0 | 194.0 | 198.0 | 248.5 | 236.5 | 202.0 | 123.0 |
| 62 | Presente | 217.5 | 220.7 | 220.7 | 214.8 | 214.1 | 216.7 | 223.7 | 224.7 | 224.5 | 219.2 | 57.1 | 50.8 | 64.6 | 140.0 |
| 63 | Presente | 220.5 | 226.0 | 230.3 | 229.3 | 226.3 | 227.0 | 228.5 | 228.0 | 226.0 | 223.8 | 216.5 | 115.3 | 108.0 | 148.8 |
| 64 | Presente | 229.1 | 232.7 | 235.4 | 233.1 | 230.2 | 233.4 | 235.0 | 235.1 | 233.3 | 230.9 | 229.7 | 111.3 | 124.4 | 161.2 |
| 65 | Presente | 200.9 | 201.8 | 201.5 | 201.2 | 196.9 | 198.0 | 198.0 | 200.8 | 202.3 | 198.8 | 131.0 | 129.8 | 178.9 | 295.4 |
| 66 | Presente | 229.0 | 233.0 | 229.0 | 222.0 | 221.0 | 221.0 | 224.0 | 224.0 | 225.0 | 226.0 | 381.0 | 313.0 | 352.0 | 387.0 |
| 67 | Presente | 225.0 | 231.0 | 234.0 | 226.0 | 223.0 | 223.0 | 223.0 | 222.0 | 223.0 | 223.0 | 201.0 | 189.0 | 178.0 | 234.0 |
| 68 | Presente | 136.6 | 134.5 | 132.8 | 127.7 | 125.4 | 117.2 | 130.9 | 136.1 | 137.0 | 135.6 | 113.0 | 99.6 | 143.5 | 133.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 69 | Presente | 63.6 | 55.8 | 40.9 | 23.4 | 23.1 | 32.8 | 51.0 | 64.2 | 63.8 | 63.4 | 150.2 | 159.3 | 151.6 | 76.4 |
| 70 | Presente | 160.9 | 161.5 | 151.6 | 142.8 | 140.0 | 144.2 | 154.4 | 162.8 | 164.6 | 161.0 | 327.2 | 313.6 | 284.6 | 185.1 |
| 71 | Presente | 212.3 | 214.6 | 213.9 | 206.6 | 206.4 | 207.9 | 216.2 | 215.4 | 217.3 | 212.5 | 89.4 | 84.1 | 138.6 | 263.9 |
| 72 | Presente | 239.3 | 238.7 | 232.0 | 228.0 | 227.0 | 225.0 | 229.3 | 231.0 | 232.0 | 226.3 | 36.7 | 51.3 | 87.7 | 210.0 |
| 73 | Presente | 239.0 | 238.5 | 232.0 | 228.0 | 227.0 | 225.0 | 229.0 | 231.0 | 232.0 | 226.0 | 37.0 | 52.0 | 88.5 | 211.0 |
| 74 | Presente | 222.0 | 223.0 | 218.9 | 206.2 | 197.0 | 203.6 | 215.9 | 220.7 | 221.3 | 221.7 | 314.4 | 286.6 | 309.7 | 291.4 |
| 75 | Presente | 224.7 | 227.8 | 227.3 | 215.5 | 214.4 | 215.4 | 226.3 | 222.5 | 230.5 | 224.6 | 50.8 | 48.8 | 88.3 | 162.7 |
| 76 | Presente | 218.6 | 216.1 | 206.9 | 195.1 | 190.2 | 202.2 | 213.2 | 218.6 | 219.5 | 216.4 | 337.2 | 287.2 | 303.4 | 245.7 |
| 77 | Presente | 210.0 | 211.9 | 211.6 | 207.7 | 207.5 | 208.4 | 211.6 | 212.1 | 211.0 | 209.3 | 156.2 | 148.0 | 234.4 | 314.3 |
| 78 | Presente | 187.5 | 181.5 | 166.5 | 147.0 | 133.0 | 148.0 | 168.0 | 175.5 | 180.5 | 182.0 | 354.5 | 309.0 | 267.5 | 170.0 |
| 79 | Presente | 214.0 | 215.8 | 214.5 | 212.7 | 215.5 | 216.2 | 216.6 | 215.9 | 215.0 | 213.9 | 240.1 | 250.1 | 282.3 | 297.3 |
| 80 | Presente | 210.7 | 211.3 | 209.8 | 206.9 | 203.7 | 206.7 | 209.6 | 211.6 | 214.4 | 213.5 | 341.5 | 291.1 | 304.9 | 314.2 |
| 81 | Presente | 211.8 | 212.8 | 210.3 | 208.7 | 204.5 | 208.0 | 211.6 | 212.4 | 214.3 | 214.5 | 262.1 | 290.2 | 296.1 | 292.0 |
| 82 | Presente | 215.3 | 219.8 | 220.6 | 210.6 | 207.7 | 208.7 | 214.6 | 212.3 | 219.3 | 213.7 | 50.8 | 36.1 | 74.4 | 132.0 |
| 83 | Presente | 225.3 | 227.5 | 226.9 | 216.8 | 215.9 | 216.7 | 226.0 | 223.6 | 229.8 | 225.0 | 59.6 | 59.3 | 101.1 | 170.4 |
| 84 | Presente | 199.3 | 197.8 | 189.5 | 169.3 | 159.3 | 167.4 | 181.8 | 196.1 | 198.7 | 200.8 | 250.7 | 255.3 | 234.6 | 195.6 |
| 85 | Presente | 194.0 | 189.3 | 183.0 | 161.0 | 147.3 | 165.0 | 177.7 | 183.0 | 186.3 | 188.0 | 328.7 | 318.7 | 283.3 | 184.7 |
| 86 | Presente | 200.6 | 180.8 | 153.9 | 135.3 | 141.0 | 149.6 | 173.5 | 185.6 | 189.3 | 189.8 | 313.5 | 300.2 | 244.9 | 130.9 |
| 87 | Presente | 207.1 | 205.3 | 200.7 | 180.3 | 168.3 | 182.7 | 194.8 | 200.8 | 203.3 | 205.0 | 364.6 | 332.1 | 323.6 | 232.5 |
| 88 | Presente | 216.6 | 214.8 | 205.2 | 188.6 | 181.9 | 192.1 | 207.5 | 215.4 | 216.3 | 214.3 | 360.9 | 320.2 | 338.1 | 228.5 |
| 89 | Presente | 219.5 | 212.8 | 198.5 | 190.7 | 190.8 | 198.9 | 212.6 | 219.8 | 215.1 | 209.5 | 278.0 | 265.3 | 261.8 | 203.7 |
| 90 | Presente | 201.0 | 202.3 | 197.7 | 185.4 | 179.7 | 184.2 | 194.7 | 199.4 | 200.2 | 199.4 | 273.1 | 304.5 | 283.2 | 222.7 |
| 91 | Presente | 206.5 | 207.7 | 204.3 | 190.3 | 181.9 | 186.1 | 199.1 | 204.5 | 205.4 | 205.4 | 303.2 | 327.4 | 341.1 | 264.5 |
| 92 | Presente | 221.1 | 222.3 | 217.8 | 205.7 | 197.4 | 203.6 | 215.5 | 219.8 | 220.0 | 220.1 | 311.0 | 292.3 | 296.9 | 282.4 |
| 93 | Presente | 217.9 | 221.3 | 221.0 | 217.1 | 216.3 | 216.9 | 216.0 | 212.4 | 213.2 | 216.2 | 285.2 | 302.9 | 339.0 | 347.3 |
| 94 | Presente | 212.5 | 212.8 | 212.2 | 208.3 | 206.3 | 206.7 | 208.8 | 211.2 | 213.8 | 212.0 | 121.1 | 122.9 | 165.3 | 217.4 |
| 95 | Presente | 226.2 | 227.7 | 227.2 | 217.4 | 217.9 | 218.7 | 227.6 | 225.6 | 230.4 | 226.2 | 64.4 | 62.2 | 105.1 | 158.9 |
| 96 | Presente | 218.4 | 217.7 | 212.8 | 206.5 | 197.8 | 204.9 | 213.1 | 217.8 | 218.6 | 218.2 | 340.2 | 312.3 | 301.4 | 260.4 |
| 97 | Presente | 216.3 | 210.3 | 197.3 | 185.1 | 184.8 | 195.0 | 208.8 | 215.8 | 212.4 | 207.3 | 333.2 | 304.9 | 309.6 | 219.2 |
| 98 | Presente | 195.7 | 192.7 | 186.3 | 177.9 | 177.5 | 183.1 | 190.0 | 191.7 | 190.9 | 189.1 | 240.7 | 276.0 | 299.2 | 256.2 |
| 99 | Presente | 220.9 | 223.0 | 220.5 | 217.1 | 216.5 | 218.2 | 219.9 | 220.6 | 221.9 | 220.6 | 259.8 | 271.0 | 325.9 | 335.5 |
| 100 | Presente | 217.7 | 217.8 | 211.9 | 194.1 | 181.3 | 188.8 | 207.7 | 214.0 | 215.7 | 215.9 | 314.1 | 330.2 | 316.1 | 246.2 |
| 101 | Presente | 222.0 | 224.0 | 220.2 | 209.4 | 202.4 | 207.6 | 217.8 | 221.8 | 222.0 | 221.6 | 283.0 | 283.5 | 317.2 | 288.5 |
| 102 | Presente | 212.1 | 215.6 | 212.7 | 203.2 | 196.1 | 200.3 | 209.2 | 213.5 | 213.4 | 213.0 | 286.4 | 294.4 | 344.1 | 291.9 |
| 103 | Presente | 215.8 | 215.5 | 210.7 | 195.6 | 186.1 | 197.8 | 208.2 | 214.7 | 215.8 | 216.2 | 339.7 | 266.3 | 316.8 | 238.6 |
| 104 | Presente | 217.5 | 211.1 | 199.4 | 193.1 | 189.5 | 196.8 | 209.5 | 215.3 | 214.4 | 209.2 | 264.1 | 285.7 | 276.0 | 226.3 |
| 105 | Presente | 198.5 | 195.5 | 188.4 | 180.4 | 180.8 | 186.7 | 192.8 | 194.9 | 194.0 | 192.1 | 253.8 | 291.1 | 294.5 | 260.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 106 | Presente | 220.2 | 221.9 | 217.9 | 205.5 | 197.0 | 202.5 | 214.7 | 219.3 | 219.8 | 219.5 | 303.3 | 303.8 | 323.0 | 293.6 |
| 107 | Presente | 217.5 | 216.1 | 207.9 | 192.9 | 185.6 | 196.4 | 209.8 | 216.9 | 218.1 | 216.5 | 334.1 | 293.2 | 310.0 | 231.1 |
| 108 | Presente | 208.9 | 203.8 | 199.8 | 178.5 | 168.8 | 172.7 | 193.2 | 200.4 | 202.6 | 203.6 | 318.2 | 351.8 | 322.6 | 241.6 |
| 109 | Presente | 213.5 | 211.2 | 202.7 | 185.0 | 178.1 | 189.3 | 203.6 | 211.0 | 211.4 | 210.1 | 382.5 | 327.9 | 363.4 | 227.9 |
| 110 | Presente | 213.7 | 213.1 | 208.6 | 190.5 | 177.3 | 187.7 | 202.8 | 209.7 | 212.2 | 213.9 | 336.2 | 305.2 | 298.8 | 231.5 |
| 111 | Presente | 202.2 | 200.4 | 188.6 | 173.5 | 164.1 | 173.1 | 187.0 | 198.4 | 201.6 | 201.1 | 261.1 | 256.2 | 224.6 | 196.2 |
| 112 | Presente | 202.9 | 198.7 | 187.2 | 178.9 | 173.5 | 182.2 | 195.4 | 199.7 | 202.3 | 199.0 | 297.8 | 313.4 | 329.4 | 212.0 |
| 113 | Presente | 211.3 | 212.3 | 210.8 | 209.6 | 212.9 | 214.0 | 215.4 | 215.9 | 213.5 | 212.1 | 180.7 | 198.1 | 259.7 | 264.8 |
| 114 | Presente | 226.2 | 227.1 | 223.2 | 213.8 | 208.0 | 213.5 | 222.2 | 225.2 | 224.7 | 224.6 | 305.1 | 291.4 | 307.8 | 310.3 |
| 115 | Presente | 207.2 | 201.9 | 190.8 | 183.4 | 178.8 | 187.2 | 199.7 | 204.0 | 205.8 | 201.5 | 283.3 | 321.0 | 318.6 | 211.4 |
| 116 | Presente | 212.3 | 216.4 | 217.1 | 206.3 | 204.1 | 204.5 | 212.2 | 209.3 | 217.1 | 211.3 | 56.3 | 43.5 | 86.3 | 145.3 |
| 117 | Presente | 207.2 | 205.0 | 194.1 | 179.7 | 175.7 | 183.4 | 194.2 | 205.7 | 209.5 | 206.8 | 263.1 | 256.7 | 250.9 | 183.8 |
| 118 | Presente | 203.1 | 200.8 | 188.3 | 174.0 | 164.4 | 174.0 | 188.4 | 198.8 | 201.8 | 201.5 | 265.9 | 257.5 | 224.5 | 198.1 |
| 119 | Presente | 226.5 | 227.1 | 225.6 | 223.8 | 226.9 | 228.0 | 228.7 | 229.0 | 226.5 | 225.1 | 257.8 | 265.8 | 414.2 | 336.9 |
| 120 | Presente | 211.6 | 216.2 | 212.0 | 203.1 | 200.1 | 204.7 | 210.8 | 214.4 | 214.1 | 212.7 | 252.7 | 250.8 | 296.4 | 274.9 |
| 121 | Presente | 202.7 | 200.6 | 194.4 | 186.9 | 186.4 | 191.9 | 198.0 | 200.0 | 198.9 | 197.0 | 257.3 | 297.5 | 304.2 | 264.2 |
| 122 | Presente | 223.4 | 223.5 | 221.7 | 217.8 | 212.8 | 215.6 | 218.8 | 220.6 | 222.5 | 221.2 | 291.6 | 274.6 | 327.4 | 306.5 |
| 123 | Presente | 215.7 | 214.2 | 207.5 | 187.2 | 172.8 | 183.6 | 202.8 | 210.2 | 213.0 | 214.0 | 361.0 | 322.2 | 318.3 | 245.6 |
| 124 | Presente | 220.5 | 220.6 | 216.9 | 213.3 | 204.1 | 208.1 | 214.9 | 219.3 | 220.5 | 220.6 | 322.5 | 313.1 | 325.2 | 281.1 |
| 125 | Presente | 210.8 | 209.0 | 203.6 | 183.5 | 170.3 | 183.2 | 197.9 | 204.6 | 207.5 | 209.2 | 366.3 | 335.1 | 314.5 | 231.2 |
| 126 | Presente | 227.6 | 228.5 | 226.6 | 224.0 | 227.0 | 228.2 | 229.8 | 229.3 | 227.3 | 225.6 | 233.7 | 229.4 | 377.9 | 338.4 |
| 127 | Presente | 209.0 | 206.0 | 200.0 | 181.0 | 172.0 | 185.0 | 198.0 | 205.0 | 205.0 | 205.0 | 350.0 | 312.0 | 362.0 | 222.0 |
| 128 | Presente | 206.0 | 204.0 | 199.0 | 178.0 | 169.0 | 183.0 | 195.0 | 201.0 | 202.0 | 202.0 | 323.0 | 328.0 | 348.0 | 224.0 |
| 129 | Presente | 215.0 | 214.5 | 208.9 | 192.3 | 182.8 | 194.3 | 206.3 | 213.2 | 214.7 | 214.8 | 345.2 | 277.1 | 321.1 | 231.1 |
| 130 | Presente | 219.0 | 213.0 | 199.2 | 189.0 | 190.1 | 204.2 | 215.0 | 219.3 | 220.0 | 213.0 | 317.2 | 293.3 | 306.0 | 213.5 |
| 131 | Presente | 209.0 | 207.0 | 201.0 | 181.0 | 172.0 | 185.0 | 198.0 | 205.0 | 206.0 | 206.0 | 352.0 | 312.0 | 361.0 | 224.0 |
| 132 | Presente | 208.0 | 205.2 | 199.0 | 179.6 | 171.2 | 184.2 | 197.2 | 203.2 | 203.8 | 203.6 | 346.6 | 310.8 | 361.0 | 222.4 |
| 133 | Presente | 209.0 | 207.0 | 201.0 | 181.0 | 173.0 | 186.0 | 199.0 | 205.0 | 206.0 | 206.0 | 353.0 | 312.0 | 362.0 | 224.0 |
| 134 | Presente | 219.0 | 211.0 | 195.0 | 186.0 | 190.0 | 203.3 | 215.0 | 219.3 | 218.3 | 210.0 | 298.7 | 292.7 | 293.7 | 204.0 |
| 135 | Presente | 209.0 | 206.0 | 199.0 | 180.0 | 172.0 | 185.0 | 198.0 | 204.0 | 204.0 | 204.0 | 347.0 | 312.0 | 359.0 | 220.0 |
| 136 | Presente | 217.2 | 221.2 | 221.1 | 216.7 | 215.0 | 215.1 | 213.7 | 209.2 | 210.7 | 214.9 | 326.1 | 337.2 | 359.8 | 380.6 |
| 137 | Presente | 203.7 | 203.5 | 200.1 | 184.5 | 176.6 | 180.4 | 194.2 | 200.0 | 201.3 | 201.5 | 310.9 | 338.7 | 299.2 | 247.1 |
| 138 | Presente | 228.3 | 229.3 | 225.0 | 217.7 | 214.7 | 219.5 | 225.9 | 227.3 | 226.2 | 225.4 | 292.1 | 300.1 | 300.1 | 290.5 |
| 139 | Presente | 209.5 | 208.2 | 203.9 | 184.4 | 172.3 | 185.9 | 198.1 | 204.1 | 206.6 | 208.3 | 375.8 | 340.7 | 342.2 | 247.9 |
| 140 | Presente | 210.6 | 212.3 | 211.4 | 209.8 | 212.1 | 212.8 | 213.3 | 212.8 | 211.3 | 210.9 | 211.4 | 218.0 | 267.9 | 278.9 |
| 141 | Presente | 228.6 | 229.1 | 226.5 | 222.6 | 225.3 | 227.8 | 230.9 | 231.0 | 229.6 | 227.3 | 240.0 | 231.4 | 304.7 | 344.6 |
| 142 | Presente | 211.1 | 209.0 | 202.7 | 182.3 | 168.6 | 180.6 | 197.6 | 204.7 | 207.7 | 209.1 | 359.5 | 323.5 | 306.9 | 233.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143 | Presente | 218.9 | 218.7 | 216.4 | 211.2 | 202.8 | 208.8 | 214.1 | 219.2 | 219.8 | 220.0 | 324.6 | 331.8 | 305.0 | 246.0 |
| 144 | Presente | 219.0 | 220.2 | 219.4 | 216.4 | 218.1 | 219.0 | 221.1 | 221.0 | 219.1 | 218.1 | 199.1 | 197.1 | 319.5 | 369.4 |
| 145 | Presente | 215.4 | 220.9 | 222.2 | 216.7 | 213.7 | 214.5 | 214.0 | 214.1 | 214.7 | 214.5 | 235.3 | 191.1 | 211.5 | 289.0 |
| 146 | Presente | 210.6 | 217.5 | 220.5 | 218.3 | 215.2 | 215.8 | 215.7 | 216.9 | 216.8 | 211.2 | 95.3 | 61.9 | 60.1 | 91.9 |
| 147 | Presente | 208.9 | 215.8 | 215.4 | 209.7 | 206.0 | 204.8 | 208.2 | 210.3 | 208.6 | 206.3 | 48.9 | 30.5 | 24.6 | 71.8 |
| 148 | Presente | 211.8 | 218.0 | 217.4 | 213.2 | 208.6 | 208.2 | 210.4 | 212.8 | 211.8 | 208.4 | 67.2 | 39.6 | 33.8 | 76.6 |
| 149 | Presente | 226.4 | 231.2 | 226.1 | 220.6 | 218.0 | 219.3 | 221.7 | 224.5 | 224.4 | 217.4 | 18.4 | 26.5 | 49.4 | 157.4 |
| 150 | Presente | 178.9 | 184.7 | 187.8 | 185.5 | 181.6 | 181.5 | 180.8 | 182.9 | 182.7 | 177.9 | 67.4 | 50.9 | 62.5 | 126.1 |
| 151 | Presente | 208.8 | 217.5 | 215.6 | 209.1 | 206.4 | 204.9 | 208.4 | 209.9 | 209.4 | 205.8 | 29.5 | 22.3 | 19.1 | 66.9 |
| 152 | Presente | 197.8 | 205.3 | 206.6 | 204.4 | 200.7 | 202.0 | 202.6 | 204.1 | 204.7 | 196.1 | 61.5 | 41.0 | 55.1 | 154.5 |
| 153 | Presente | 211.6 | 217.9 | 221.1 | 219.6 | 216.6 | 217.6 | 218.8 | 218.9 | 217.6 | 212.9 | 127.3 | 74.0 | 75.4 | 106.9 |
| 154 | Presente | 209.3 | 216.3 | 215.3 | 209.9 | 206.5 | 204.4 | 207.4 | 210.2 | 209.5 | 207.1 | 37.9 | 30.8 | 33.3 | 84.4 |
| 155 | Presente | 210.2 | 210.9 | 207.3 | 204.2 | 201.8 | 202.6 | 204.6 | 206.9 | 208.2 | 202.6 | 44.3 | 55.6 | 105.9 | 214.6 |
| 156 | Presente | 229.0 | 233.0 | 229.0 | 221.0 | 220.0 | 220.0 | 223.0 | 224.0 | 225.0 | 226.0 | 381.0 | 313.0 | 347.0 | 377.0 |
| 157 | Presente | 230.0 | 229.0 | 224.0 | 221.0 | 219.0 | 220.0 | 222.0 | 225.0 | 227.0 | 222.0 | 49.0 | 65.0 | 117.0 | 220.0 |
| 158 | Presente | 191.3 | 173.0 | 157.0 | 147.5 | 136.0 | 148.0 | 170.8 | 182.0 | 191.0 | 194.8 | 177.0 | 156.5 | 105.5 | 111.0 |
| 159 | Presente | 187.8 | 192.7 | 193.9 | 192.5 | 188.4 | 188.5 | 188.9 | 190.9 | 191.9 | 186.4 | 80.4 | 67.7 | 102.3 | 208.4 |
| 160 | Presente | 229.6 | 233.2 | 233.0 | 232.0 | 232.6 | 236.2 | 240.0 | 239.2 | 236.6 | 230.0 | 175.4 | 103.0 | 86.2 | 156.0 |
| 161 | Presente | 225.0 | 229.2 | 230.0 | 228.4 | 228.0 | 230.0 | 231.0 | 231.2 | 229.6 | 224.6 | 215.0 | 131.4 | 112.6 | 170.2 |
| 162 | Presente | 222.0 | 227.7 | 229.3 | 227.0 | 226.3 | 227.0 | 228.3 | 228.7 | 227.3 | 223.0 | 216.0 | 139.0 | 137.2 | 188.8 |
| 163 | Presente | 212.5 | 216.9 | 217.8 | 215.8 | 214.6 | 216.6 | 216.8 | 217.9 | 217.9 | 214.0 | 218.1 | 162.6 | 199.6 | 248.1 |
| 164 | Presente | 200.7 | 199.3 | 190.3 | 174.9 | 170.0 | 178.5 | 187.6 | 201.1 | 203.1 | 202.1 | 258.1 | 242.1 | 247.1 | 203.0 |
| 165 | Presente | 224.1 | 225.7 | 221.2 | 213.2 | 210.0 | 214.8 | 221.5 | 224.0 | 223.7 | 222.7 | 299.1 | 308.5 | 316.1 | 289.4 |
| 166 | Presente | 168.9 | 149.5 | 132.2 | 121.4 | 111.3 | 119.5 | 140.1 | 156.3 | 162.0 | 169.6 | 197.6 | 183.4 | 121.0 | 88.7 |
| 167 | Presente | 230.0 | 229.4 | 227.9 | 224.7 | 226.8 | 229.2 | 231.7 | 233.2 | 232.3 | 230.4 | 298.2 | 298.1 | 332.9 | 336.2 |
| 168 | Presente | 196.4 | 190.2 | 179.9 | 166.5 | 165.2 | 170.7 | 182.2 | 193.5 | 197.1 | 201.5 | 462.3 | 425.5 | 354.6 | 230.7 |
| 169 | Presente | 206.1 | 211.7 | 212.8 | 207.3 | 203.7 | 204.1 | 202.2 | 200.0 | 203.2 | 206.0 | 239.6 | 228.2 | 264.9 | 314.4 |
| 170 | Presente | 211.3 | 210.5 | 206.7 | 188.3 | 176.8 | 189.3 | 200.8 | 207.3 | 209.5 | 211.1 | 377.8 | 333.4 | 359.2 | 260.6 |
| 171 | Presente | 165.8 | 171.5 | 175.4 | 173.8 | 169.8 | 170.1 | 168.5 | 170.6 | 170.7 | 165.1 | 67.8 | 55.3 | 75.5 | 153.2 |
| 172 | Presente | 146.0 | 126.6 | 105.9 | 86.8 | 80.0 | 91.5 | 114.4 | 142.9 | 142.3 | 150.5 | 322.7 | 276.5 | 236.2 | 120.4 |
| 173 | Presente | 99.1 | 101.1 | 99.1 | 94.7 | 91.9 | 90.3 | 93.2 | 97.1 | 97.5 | 96.6 | 121.6 | 135.4 | 168.1 | 182.4 |
| 174 | Presente | 178.6 | 177.8 | 171.7 | 162.3 | 159.2 | 162.1 | 172.8 | 177.9 | 181.0 | 184.5 | 208.0 | 193.7 | 235.6 | 201.5 |
| 175 | Presente | 206.2 | 211.9 | 212.6 | 207.0 | 203.3 | 203.2 | 201.3 | 197.3 | 200.3 | 204.7 | 247.0 | 237.2 | 272.9 | 313.3 |
| 176 | Presente | 220.1 | 224.0 | 224.4 | 219.1 | 215.5 | 214.9 | 212.7 | 207.9 | 210.5 | 216.7 | 424.0 | 402.4 | 440.3 | 485.2 |
| 177 | Presente | 212.8 | 214.4 | 211.0 | 197.6 | 188.6 | 193.4 | 206.3 | 211.6 | 212.2 | 212.2 | 322.8 | 340.2 | 389.5 | 300.2 |
| 178 | Presente | 214.8 | 214.5 | 214.9 | 208.8 | 204.3 | 203.1 | 206.4 | 216.2 | 218.7 | 216.7 | 136.8 | 146.5 | 224.2 | 268.9 |
| 179 | Presente | 160.7 | 160.0 | 164.1 | 161.2 | 157.3 | 155.9 | 161.1 | 165.5 | 164.5 | 164.2 | 193.8 | 167.9 | 240.4 | 287.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 180 | Presente | 223.1 | 221.2 | 220.5 | 217.6 | 219.2 | 220.3 | 222.2 | 225.8 | 225.0 | 223.8 | 247.8 | 246.2 | 287.6 | 338.0 |
| 181 | Presente | 214.4 | 211.9 | 204.7 | 183.8 | 169.8 | 180.4 | 200.4 | 208.0 | 210.9 | 211.7 | 365.7 | 319.3 | 319.4 | 249.7 |
| 182 | Presente | 193.8 | 198.7 | 203.6 | 200.5 | 199.5 | 202.3 | 203.1 | 204.3 | 200.9 | 195.4 | 255.0 | 172.2 | 184.3 | 242.4 |
| 183 | Presente | 93.8 | 94.7 | 93.7 | 88.1 | 85.2 | 82.0 | 85.0 | 88.7 | 88.5 | 88.7 | 84.0 | 100.4 | 127.3 | 163.5 |
| 184 | Presente | 175.4 | 166.8 | 153.3 | 139.8 | 139.9 | 146.5 | 159.6 | 171.6 | 174.7 | 178.6 | 293.8 | 275.3 | 237.1 | 145.8 |
| 185 | Presente | 181.8 | 179.1 | 168.6 | 156.3 | 154.8 | 163.8 | 170.3 | 184.0 | 184.8 | 183.2 | 305.7 | 292.4 | 275.4 | 205.3 |
| 186 | Presente | 219.4 | 214.1 | 201.9 | 194.5 | 192.4 | 201.0 | 213.4 | 219.3 | 217.2 | 212.5 | 299.9 | 282.4 | 270.2 | 221.2 |
| 187 | Presente | 208.6 | 213.1 | 213.2 | 208.9 | 206.6 | 206.7 | 205.3 | 201.4 | 203.1 | 207.0 | 252.3 | 254.2 | 295.5 | 320.2 |
| 188 | Presente | 147.1 | 152.0 | 157.0 | 156.5 | 153.0 | 154.5 | 151.4 | 153.1 | 152.7 | 147.8 | 70.9 | 51.3 | 92.1 | 133.9 |
| 189 | Presente | 218.9 | 218.6 | 219.0 | 214.5 | 207.4 | 211.9 | 214.7 | 220.5 | 221.2 | 222.0 | 309.0 | 315.7 | 351.4 | 303.8 |
| 190 | Presente | 150.6 | 151.5 | 150.2 | 146.9 | 143.7 | 143.3 | 142.6 | 146.5 | 148.7 | 147.5 | 128.5 | 144.3 | 213.9 | 264.8 |
| 191 | Presente | 214.1 | 212.8 | 212.2 | 208.0 | 201.8 | 206.5 | 207.0 | 213.8 | 216.6 | 213.6 | 304.7 | 260.6 | 294.1 | 280.2 |
| 192 | Presente | 218.0 | 216.0 | 221.2 | 213.5 | 209.9 | 209.1 | 214.1 | 221.3 | 231.2 | 217.5 | 220.5 | 218.5 | 311.2 | 328.1 |
| 193 | Presente | 107.1 | 109.3 | 109.9 | 106.4 | 103.3 | 101.7 | 100.4 | 103.6 | 105.4 | 103.3 | 125.6 | 126.8 | 158.8 | 194.1 |
| 194 | Presente | 161.6 | 161.4 | 160.3 | 155.9 | 149.6 | 150.6 | 153.4 | 155.8 | 158.5 | 156.9 | 78.7 | 104.9 | 153.9 | 212.8 |
| 195 | Presente | 101.0 | 102.0 | 102.5 | 99.5 | 93.5 | 92.5 | 91.0 | 98.0 | 99.5 | 95.5 | 111.5 | 134.0 | 200.0 | 243.5 |
| 196 | Presente | 213.7 | 214.0 | 213.9 | 208.8 | 204.2 | 203.8 | 206.9 | 215.6 | 215.8 | 215.0 | 125.0 | 148.6 | 235.8 | 300.8 |
| 197 | Presente | 213.6 | 212.6 | 214.3 | 209.0 | 205.1 | 206.6 | 209.6 | 215.2 | 220.8 | 214.3 | 297.8 | 266.6 | 328.0 | 343.3 |
| 198 | Presente | 151.4 | 151.9 | 150.4 | 147.6 | 144.8 | 144.0 | 144.0 | 147.6 | 149.8 | 148.6 | 165.0 | 168.2 | 241.6 | 290.2 |
| 199 | Presente | 222.2 | 218.1 | 225.6 | 216.9 | 210.8 | 207.2 | 214.7 | 221.8 | 232.0 | 217.0 | 68.9 | 124.2 | 181.6 | 277.5 |
| 200 | Presente | 218.0 | 213.1 | 215.0 | 209.2 | 201.6 | 198.5 | 206.3 | 210.2 | 213.5 | 209.8 | 43.7 | 96.7 | 145.9 | 287.7 |
| 201 | Presente | 71.1 | 75.2 | 75.2 | 72.4 | 70.2 | 69.2 | 66.3 | 67.7 | 69.0 | 65.0 | 57.3 | 73.8 | 112.2 | 193.0 |
| 202 | Presente | 214.9 | 212.7 | 211.0 | 207.4 | 200.3 | 198.6 | 205.5 | 207.3 | 211.0 | 209.2 | 77.3 | 138.4 | 244.1 | 346.6 |
| 203 | Presente | 215.7 | 214.2 | 218.4 | 211.5 | 207.9 | 207.6 | 211.7 | 217.3 | 224.0 | 214.5 | 258.0 | 239.3 | 309.7 | 325.3 |
| 204 | Presente | 187.9 | 177.6 | 167.7 | 151.6 | 138.5 | 148.7 | 170.4 | 180.5 | 187.5 | 187.7 | 279.6 | 229.8 | 218.2 | 119.3 |
| 205 | Presente | 108.2 | 103.4 | 88.0 | 72.4 | 75.3 | 85.6 | 100.6 | 114.0 | 113.8 | 110.8 | 213.5 | 203.4 | 207.4 | 116.0 |
| 206 | Presente | 196.8 | 190.6 | 186.5 | 168.9 | 162.2 | 170.2 | 183.2 | 190.6 | 187.4 | 187.7 | 302.7 | 285.7 | 276.6 | 176.4 |
| 207 | Presente | 192.3 | 193.9 | 194.3 | 192.4 | 188.6 | 189.5 | 189.4 | 191.7 | 194.6 | 191.3 | 120.5 | 119.4 | 154.9 | 230.5 |
| 208 | Presente | 215.9 | 215.5 | 214.6 | 211.8 | 209.4 | 209.8 | 210.5 | 214.7 | 216.2 | 215.4 | 220.4 | 202.6 | 226.9 | 266.6 |
| 209 | Presente | 105.0 | 106.1 | 100.9 | 98.1 | 96.3 | 96.5 | 101.0 | 101.8 | 98.2 | 101.1 | 124.1 | 142.0 | 166.2 | 147.9 |
| 210 | Presente | 110.0 | 105.8 | 92.9 | 78.7 | 76.9 | 77.7 | 92.3 | 102.7 | 104.7 | 108.0 | 106.6 | 129.2 | 156.3 | 120.1 |
| 211 | Presente | 209.8 | 204.5 | 198.9 | 176.2 | 164.6 | 170.4 | 193.3 | 201.0 | 203.5 | 204.3 | 354.6 | 356.1 | 340.6 | 262.6 |
| 212 | Presente | 95.6 | 95.3 | 95.7 | 90.0 | 88.0 | 86.5 | 89.2 | 92.0 | 90.3 | 91.0 | 105.4 | 126.4 | 153.1 | 192.5 |
| 213 | Presente | 212.6 | 206.2 | 201.8 | 186.8 | 181.4 | 178.8 | 197.4 | 209.2 | 204.0 | 204.6 | 255.7 | 236.6 | 234.0 | 161.1 |
| 214 | Presente | 219.1 | 220.6 | 220.4 | 211.8 | 210.8 | 211.3 | 218.7 | 217.6 | 223.1 | 218.8 | 68.0 | 69.9 | 108.7 | 173.6 |
| 215 | Presente | 210.8 | 210.0 | 202.7 | 191.0 | 183.6 | 189.8 | 200.7 | 208.9 | 210.2 | 212.4 | 228.0 | 244.2 | 285.1 | 219.3 |
| 216 | Presente | 197.8 | 198.5 | 192.0 | 181.2 | 177.7 | 183.3 | 192.0 | 195.9 | 196.4 | 195.0 | 273.0 | 316.5 | 273.9 | 222.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 217 | Presente | 202.8 | 202.4 | 201.7 | 200.5 | 197.8 | 197.8 | 197.7 | 201.6 | 202.9 | 201.9 | 181.6 | 189.5 | 215.0 | 271.0 |
| 218 | Presente | 133.2 | 134.6 | 132.2 | 128.7 | 125.7 | 124.0 | 127.6 | 132.1 | 133.7 | 131.7 | 195.3 | 213.6 | 270.3 | 339.6 |
| 219 | Presente | 160.5 | 159.5 | 149.5 | 141.0 | 138.5 | 142.5 | 149.0 | 154.5 | 163.0 | 163.0 | 223.5 | 206.5 | 196.5 | 143.5 |
| 220 | Presente | 19.0 | -2.4 | -18.2 | -40.1 | -39.0 | -26.7 | -9.1 | 5.2 | 19.6 | 28.6 | 196.3 | 170.2 | 131.5 | 47.9 |
| 221 | Presente | 226.1 | 228.2 | 227.7 | 216.8 | 216.4 | 217.2 | 227.5 | 224.5 | 231.3 | 226.0 | 55.0 | 53.3 | 98.9 | 166.0 |
| 222 | Presente | 114.7 | 103.7 | 84.3 | 67.1 | 67.6 | 79.6 | 93.6 | 104.6 | 111.3 | 115.7 | 184.7 | 169.8 | 114.3 | 53.6 |
| 223 | Presente | 217.1 | 201.3 | 179.5 | 159.1 | 146.8 | 158.7 | 182.3 | 205.0 | 207.4 | 215.6 | 466.2 | 403.9 | 385.0 | 231.4 |
| 224 | Presente | 76.2 | 77.4 | 68.3 | 64.8 | 64.6 | 64.2 | 67.7 | 70.4 | 67.7 | 69.0 | 112.0 | 135.9 | 163.6 | 132.5 |
| 225 | Presente | 127.4 | 125.2 | 110.1 | 100.1 | 96.9 | 103.4 | 116.3 | 126.9 | 128.8 | 128.4 | 214.3 | 218.2 | 198.7 | 120.6 |
| 226 | Presente | 223.2 | 221.4 | 218.4 | 216.0 | 212.3 | 215.2 | 216.1 | 220.3 | 222.4 | 218.7 | 70.6 | 78.3 | 151.0 | 285.1 |
| 227 | Presente | 208.0 | 207.2 | 207.0 | 202.1 | 197.5 | 197.5 | 200.1 | 203.8 | 209.8 | 207.1 | 186.4 | 185.2 | 251.2 | 282.1 |
| 228 | Presente | 203.2 | 201.5 | 191.1 | 175.2 | 167.6 | 175.9 | 188.5 | 200.8 | 203.8 | 203.0 | 260.8 | 257.8 | 235.7 | 193.0 |
| 229 | Presente | 191.7 | 182.6 | 176.8 | 160.1 | 146.6 | 157.0 | 174.0 | 182.2 | 188.6 | 189.3 | 270.8 | 237.8 | 232.4 | 116.7 |
| 230 | Presente | 207.9 | 191.2 | 185.9 | 160.0 | 156.8 | 158.4 | 182.2 | 191.6 | 194.6 | 195.5 | 393.0 | 361.0 | 334.3 | 242.5 |
| 231 | Presente | 212.5 | 206.6 | 197.4 | 186.5 | 182.0 | 181.6 | 199.5 | 211.7 | 200.8 | 200.6 | 278.5 | 267.7 | 250.5 | 185.0 |
| 232 | Presente | 208.1 | 206.6 | 202.1 | 182.3 | 170.0 | 183.6 | 196.1 | 202.3 | 204.8 | 206.5 | 374.8 | 339.6 | 333.7 | 240.7 |
| 233 | Presente | 210.4 | 207.4 | 200.1 | 178.8 | 165.2 | 178.1 | 195.6 | 202.7 | 206.0 | 207.1 | 358.3 | 321.1 | 302.2 | 227.9 |
| 234 | Presente | 222.4 | 222.7 | 224.7 | 218.8 | 213.2 | 216.3 | 219.4 | 225.5 | 226.5 | 228.6 | 344.5 | 310.5 | 328.9 | 302.3 |
| 235 | Presente | 223.0 | 225.0 | 224.3 | 221.7 | 223.0 | 225.3 | 228.7 | 231.3 | 230.0 | 227.0 | 154.7 | 227.0 | 283.0 | 291.0 |
| 236 | Presente | 226.0 | 224.9 | 223.9 | 220.7 | 222.8 | 224.5 | 227.1 | 229.0 | 228.4 | 226.7 | 241.8 | 252.9 | 311.8 | 347.8 |
| 237 | Presente | 230.1 | 229.8 | 227.5 | 224.4 | 227.1 | 230.1 | 232.4 | 233.3 | 232.0 | 230.1 | 296.5 | 280.7 | 306.2 | 326.7 |
| 238 | Presente | 210.7 | 212.0 | 211.8 | 206.3 | 204.2 | 204.5 | 208.0 | 209.0 | 213.2 | 210.4 | 75.4 | 62.6 | 109.5 | 173.7 |
| 239 | Presente | 207.1 | 204.7 | 194.7 | 184.6 | 182.5 | 189.9 | 200.7 | 203.7 | 203.5 | 201.2 | 223.1 | 269.5 | 272.5 | 183.0 |
| 240 | Presente | 206.8 | 199.4 | 198.1 | 182.3 | 174.0 | 174.0 | 190.8 | 200.9 | 202.3 | 201.6 | 254.4 | 223.8 | 234.0 | 153.0 |
| 241 | Presente | 212.4 | 210.0 | 203.0 | 182.0 | 168.0 | 179.3 | 198.4 | 205.8 | 208.8 | 209.9 | 364.3 | 321.1 | 311.6 | 243.5 |
| 242 | Presente | 231.0 | 232.0 | 229.0 | 226.0 | 228.0 | 232.0 | 234.0 | 235.0 | 233.0 | 231.0 | 265.0 | 253.0 | 289.0 | 282.0 |
| 243 | Presente | 208.5 | 207.0 | 202.6 | 182.7 | 171.1 | 185.2 | 196.9 | 202.9 | 205.1 | 206.8 | 365.8 | 334.6 | 340.3 | 247.5 |
| 244 | Presente | 220.0 | 227.0 | 222.3 | 218.5 | 218.8 | 220.3 | 220.0 | 222.0 | 222.5 | 222.0 | 314.3 | 320.0 | 360.5 | 326.8 |
| 245 | Presente | 209.0 | 194.2 | 186.5 | 162.9 | 160.4 | 161.6 | 181.1 | 191.9 | 196.4 | 199.4 | 341.9 | 320.9 | 305.4 | 186.0 |
| 246 | Presente | 197.5 | 190.5 | 177.0 | 162.5 | 161.5 | 165.5 | 180.0 | 193.5 | 197.0 | 202.0 | 301.5 | 272.0 | 246.5 | 156.0 |
| 247 | Presente | 214.2 | 203.4 | 191.4 | 174.6 | 164.2 | 168.7 | 190.7 | 204.9 | 211.7 | 214.7 | 266.8 | 237.9 | 204.5 | 107.6 |
| 248 | Presente | 216.6 | 205.5 | 185.6 | 163.2 | 153.1 | 161.3 | 187.5 | 205.1 | 211.1 | 218.9 | 305.3 | 271.7 | 247.4 | 142.9 |
| 249 | Presente | 219.3 | 221.5 | 221.0 | 217.5 | 217.5 | 218.5 | 218.0 | 215.3 | 215.5 | 217.5 | 249.0 | 261.8 | 341.0 | 328.5 |
| 250 | Presente | 170.5 | 162.6 | 153.6 | 134.6 | 130.8 | 141.5 | 151.7 | 165.2 | 167.7 | 170.9 | 213.5 | 215.2 | 166.7 | 89.5 |
| 251 | Presente | 203.1 | 194.4 | 192.3 | 177.2 | 164.8 | 168.1 | 185.5 | 195.4 | 201.0 | 200.9 | 246.7 | 221.3 | 216.1 | 115.0 |
| 252 | Presente | 204.0 | 180.0 | 159.3 | 144.3 | 152.5 | 160.0 | 181.0 | 192.0 | 194.0 | 189.0 | 299.5 | 308.5 | 243.8 | 155.8 |
| 253 | Presente | 205.0 | 202.0 | 195.0 | 186.0 | 184.0 | 190.0 | 199.0 | 201.0 | 200.0 | 198.0 | 219.0 | 243.0 | 290.0 | 233.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 254 | Presente | 77.8 | 80.8 | 81.2 | 78.6 | 74.0 | 74.6 | 73.2 | 76.4 | 77.4 | 74.2 | 110.8 | 128.8 | 163.4 | 212.6 |
| 255 | Presente | 129.0 | 129.3 | 129.0 | 125.0 | 121.0 | 120.0 | 119.0 | 124.3 | 126.3 | 123.7 | 111.0 | 125.7 | 184.7 | 229.0 |
| 256 | Presente | 219.9 | 223.7 | 222.9 | 215.6 | 211.8 | 212.0 | 212.0 | 209.9 | 212.6 | 216.0 | 387.5 | 324.3 | 340.8 | 360.8 |
| 257 | Presente | 109.0 | 111.5 | 111.0 | 108.0 | 103.0 | 104.0 | 104.5 | 105.5 | 107.5 | 107.0 | 102.0 | 111.5 | 142.0 | 160.0 |
| 258 | Presente | 223.0 | 220.0 | 220.0 | 215.0 | 210.0 | 209.0 | 213.0 | 219.0 | 221.0 | 215.0 | 40.0 | 90.0 | 141.0 | 346.0 |
| 259 | Presente | 230.0 | 224.5 | 227.0 | 221.0 | 214.5 | 212.0 | 218.0 | 224.0 | 226.0 | 221.0 | 35.0 | 82.5 | 125.5 | 308.0 |
| 260 | Presente | 193.5 | 198.9 | 200.2 | 197.7 | 193.5 | 193.9 | 193.9 | 195.3 | 196.8 | 191.5 | 103.6 | 84.8 | 117.9 | 217.7 |
| 261 | Presente | 223.5 | 229.3 | 231.5 | 226.5 | 222.8 | 223.5 | 223.8 | 224.3 | 224.5 | 223.8 | 222.3 | 155.8 | 161.0 | 227.0 |
| 262 | Presente | 214.4 | 214.8 | 212.8 | 210.3 | 208.5 | 212.6 | 215.4 | 217.7 | 217.4 | 216.5 | 285.5 | 265.0 | 314.2 | 344.1 |
| 263 | Presente | 222.5 | 225.5 | 223.5 | 215.8 | 213.0 | 212.5 | 212.8 | 210.0 | 213.5 | 217.5 | 443.5 | 378.0 | 388.3 | 449.8 |
| 264 | Presente | 231.4 | 222.1 | 229.2 | 227.3 | 230.5 | 231.7 | 232.7 | 234.4 | 234.0 | 229.3 | 148.7 | 262.5 | 367.6 | 357.0 |
| 265 | Presente | 221.4 | 220.2 | 218.1 | 215.0 | 216.4 | 218.2 | 219.5 | 223.2 | 222.3 | 221.0 | 257.1 | 256.6 | 316.3 | 339.6 |
| 266 | Presente | 212.9 | 210.9 | 205.3 | 185.2 | 171.7 | 184.2 | 199.8 | 206.6 | 209.5 | 211.2 | 362.7 | 332.2 | 310.9 | 231.9 |
| 267 | Presente | 218.3 | 216.9 | 209.8 | 189.0 | 174.0 | 184.6 | 205.3 | 212.6 | 215.6 | 216.4 | 365.9 | 332.4 | 329.3 | 253.3 |
| 268 | Presente | 229.8 | 230.4 | 227.7 | 220.7 | 217.0 | 221.6 | 227.7 | 230.1 | 227.8 | 227.4 | 278.8 | 273.6 | 273.0 | 286.5 |
| 269 | Presente | 208.5 | 210.9 | 205.6 | 201.2 | 194.8 | 199.1 | 206.3 | 207.4 | 208.3 | 208.8 | 322.9 | 303.9 | 323.1 | 278.8 |
| 270 | Presente | 222.6 | 223.4 | 223.3 | 212.9 | 204.2 | 209.6 | 217.0 | 223.5 | 224.9 | 227.4 | 308.6 | 328.1 | 329.9 | 291.9 |
| 271 | Presente | 225.2 | 225.5 | 226.5 | 219.8 | 215.0 | 218.5 | 222.6 | 228.0 | 228.2 | 230.0 | 315.1 | 300.1 | 312.9 | 275.8 |
| 272 | Presente | 213.8 | 215.9 | 215.0 | 212.3 | 213.7 | 214.4 | 214.4 | 212.7 | 212.6 | 212.9 | 260.0 | 265.5 | 301.9 | 312.0 |
| 273 | Presente | 229.5 | 228.9 | 227.4 | 224.3 | 226.2 | 229.2 | 231.3 | 233.1 | 232.0 | 230.4 | 356.4 | 357.4 | 343.4 | 325.9 |
| 274 | Presente | 231.3 | 231.2 | 229.2 | 225.8 | 228.2 | 232.0 | 234.2 | 235.2 | 233.3 | 231.3 | 296.2 | 287.5 | 304.5 | 301.2 |
| 275 | Presente | 230.4 | 230.8 | 227.2 | 223.3 | 225.0 | 227.8 | 231.4 | 230.5 | 228.4 | 226.3 | 258.3 | 254.9 | 320.5 | 290.3 |
| 276 | Presente | 222.2 | 222.0 | 223.6 | 219.0 | 214.3 | 217.4 | 219.6 | 225.4 | 226.0 | 227.3 | 330.3 | 290.6 | 330.8 | 301.6 |
| 277 | Presente | 228.5 | 228.6 | 226.2 | 223.2 | 225.1 | 226.2 | 226.7 | 227.0 | 227.1 | 225.6 | 296.6 | 294.2 | 330.3 | 331.7 |
| 278 | Presente | 214.1 | 214.5 | 212.5 | 210.1 | 208.0 | 212.2 | 215.0 | 217.2 | 217.2 | 216.3 | 284.0 | 266.0 | 312.2 | 339.9 |
| 279 | Presente | 221.2 | 220.0 | 220.9 | 218.8 | 214.7 | 217.8 | 219.0 | 224.3 | 224.5 | 224.0 | 289.8 | 252.4 | 320.8 | 289.4 |
| 280 | Presente | 220.2 | 220.4 | 222.4 | 217.0 | 210.4 | 213.5 | 216.3 | 222.8 | 223.9 | 226.1 | 331.0 | 307.2 | 354.8 | 316.2 |
| 281 | Presente | 225.0 | 225.4 | 226.1 | 219.0 | 213.4 | 217.1 | 221.9 | 227.4 | 228.0 | 229.5 | 313.4 | 304.3 | 319.0 | 278.1 |
| 282 | Presente | 214.9 | 216.0 | 209.7 | 206.4 | 198.9 | 201.7 | 209.4 | 211.6 | 212.6 | 212.6 | 296.4 | 291.6 | 313.6 | 275.8 |
| 283 | Presente | 220.1 | 219.8 | 219.3 | 217.6 | 211.6 | 214.9 | 216.3 | 221.7 | 222.0 | 221.5 | 303.1 | 295.3 | 306.6 | 286.1 |
| 284 | Presente | 223.0 | 202.8 | 181.0 | 166.0 | 152.0 | 162.0 | 186.0 | 207.0 | 213.0 | 222.3 | 518.8 | 446.3 | 399.8 | 256.3 |
| 285 | Presente | 128.1 | 129.5 | 124.1 | 123.5 | 121.1 | 120.4 | 127.1 | 127.5 | 124.5 | 126.3 | 160.7 | 151.0 | 182.6 | 171.3 |
| 286 | Presente | 112.2 | 113.7 | 112.0 | 106.7 | 104.0 | 101.7 | 104.9 | 109.0 | 109.7 | 109.2 | 141.8 | 155.1 | 210.8 | 273.7 |
| 287 | Presente | 157.0 | 157.3 | 162.0 | 159.0 | 155.0 | 153.3 | 159.0 | 163.3 | 161.7 | 162.0 | 196.0 | 168.7 | 241.7 | 295.0 |
| 288 | Presente | 126.0 | 126.7 | 128.3 | 125.3 | 122.3 | 121.3 | 125.7 | 128.3 | 126.0 | 128.3 | 161.0 | 139.3 | 203.7 | 250.7 |
| 289 | Presente | 197.2 | 189.2 | 187.0 | 170.0 | 158.1 | 166.0 | 180.7 | 188.5 | 192.3 | 192.7 | 260.9 | 236.9 | 237.3 | 126.7 |
| 290 | Presente | 216.7 | 215.6 | 210.3 | 204.0 | 202.4 | 203.4 | 208.3 | 212.0 | 215.1 | 213.4 | 234.9 | 262.1 | 339.2 | 273.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 291 | Presente | 200.5 | 197.3 | 193.3 | 170.9 | 160.8 | 178.1 | 188.0 | 192.4 | 194.0 | 195.2 | 276.8 | 323.9 | 297.7 | 211.3 |
| 292 | Presente | 229.0 | 231.6 | 231.8 | 228.2 | 227.3 | 229.0 | 228.6 | 226.2 | 226.3 | 228.2 | 399.7 | 425.6 | 431.0 | 443.4 |
| 293 | Presente | 204.0 | 204.5 | 202.5 | 200.5 | 196.5 | 195.5 | 198.0 | 199.5 | 204.5 | 202.0 | 239.5 | 228.5 | 287.0 | 327.5 |
| 294 | Presente | 206.9 | 209.5 | 209.3 | 206.5 | 206.4 | 206.9 | 206.8 | 205.8 | 205.6 | 206.6 | 220.4 | 205.9 | 260.5 | 292.6 |
| 295 | Presente | 224.6 | 224.0 | 223.2 | 219.7 | 216.8 | 217.3 | 217.8 | 222.5 | 224.3 | 223.7 | 257.0 | 193.8 | 242.7 | 271.4 |
| 296 | Presente | 195.7 | 179.3 | 178.0 | 150.9 | 148.6 | 146.2 | 168.9 | 177.6 | 180.4 | 183.4 | 409.2 | 352.4 | 316.4 | 225.1 |
| 297 | Presente | 217.0 | 211.5 | 203.2 | 192.5 | 186.8 | 182.8 | 202.4 | 216.7 | 204.1 | 205.3 | 260.3 | 252.4 | 234.0 | 169.1 |
| 298 | Presente | 227.3 | 228.0 | 226.8 | 224.7 | 227.7 | 228.6 | 229.8 | 229.7 | 227.2 | 226.2 | 242.9 | 252.1 | 405.7 | 378.8 |
| 299 | Presente | 207.7 | 206.2 | 200.5 | 193.2 | 192.0 | 197.4 | 203.6 | 205.5 | 204.4 | 202.6 | 261.9 | 303.6 | 311.3 | 267.5 |
| 300 | Presente | 219.0 | 213.3 | 206.8 | 193.6 | 188.2 | 182.9 | 203.6 | 217.8 | 208.2 | 209.8 | 259.8 | 245.0 | 227.3 | 160.3 |
| 301 | Presente | 226.5 | 227.1 | 225.0 | 220.4 | 223.0 | 224.5 | 228.8 | 228.0 | 227.5 | 224.9 | 231.5 | 209.5 | 312.0 | 392.5 |
| 302 | Presente | 221.0 | 224.5 | 221.0 | 214.0 | 211.0 | 211.0 | 212.5 | 211.0 | 213.5 | 216.5 | 423.0 | 362.5 | 387.5 | 404.0 |
| 303 | Presente | 203.3 | 192.1 | 185.4 | 169.9 | 157.8 | 163.2 | 183.2 | 195.1 | 202.4 | 203.6 | 237.4 | 212.5 | 196.6 | 93.4 |
| 304 | Presente | 215.1 | 214.2 | 216.5 | 207.8 | 202.8 | 202.6 | 204.6 | 215.6 | 220.8 | 217.1 | 131.7 | 162.5 | 223.2 | 272.0 |
| 305 | Presente | 193.0 | 190.0 | 181.8 | 171.5 | 168.0 | 174.3 | 180.8 | 192.6 | 193.3 | 195.1 | 498.9 | 466.4 | 421.9 | 300.8 |
| 306 | Presente | 133.1 | 128.9 | 114.2 | 100.2 | 102.3 | 112.3 | 123.9 | 137.1 | 137.0 | 134.2 | 232.9 | 219.8 | 224.8 | 129.6 |
| 307 | Presente | 137.3 | 137.4 | 133.5 | 131.6 | 130.5 | 125.8 | 136.4 | 139.1 | 138.5 | 135.7 | 125.3 | 99.5 | 135.8 | 137.4 |
| 308 | Presente | 168.5 | 169.3 | 159.4 | 150.0 | 146.7 | 151.8 | 163.0 | 172.2 | 173.4 | 171.0 | 247.7 | 239.3 | 235.9 | 170.0 |
| 309 | Presente | 216.8 | 216.6 | 218.3 | 210.3 | 205.8 | 204.5 | 207.0 | 219.9 | 223.3 | 220.1 | 120.5 | 160.7 | 221.0 | 284.4 |
| 310 | Presente | 163.0 | 160.0 | 146.4 | 135.0 | 137.2 | 147.7 | 153.4 | 167.3 | 167.2 | 163.3 | 236.3 | 227.7 | 229.8 | 140.3 |
| 311 | Presente | 203.9 | 202.5 | 193.4 | 177.0 | 171.2 | 179.4 | 190.0 | 203.0 | 206.0 | 204.9 | 247.7 | 233.8 | 239.5 | 196.5 |
| 312 | Presente | 177.1 | 176.8 | 181.3 | 179.4 | 174.4 | 172.0 | 180.3 | 183.7 | 182.5 | 180.8 | 222.9 | 180.8 | 253.6 | 257.9 |
| 313 | Presente | 172.0 | 171.6 | 161.9 | 154.9 | 151.1 | 155.2 | 163.6 | 171.1 | 173.3 | 171.7 | 313.1 | 314.1 | 283.4 | 192.4 |
| 314 | Presente | 217.2 | 206.6 | 188.9 | 168.2 | 158.9 | 165.4 | 189.3 | 206.0 | 211.2 | 218.6 | 294.8 | 261.6 | 226.8 | 138.9 |
| 315 | Presente | 203.7 | 194.3 | 177.5 | 161.2 | 156.2 | 162.4 | 179.0 | 195.6 | 198.9 | 206.0 | 268.5 | 260.6 | 219.5 | 131.5 |
| 316 | Presente | 210.5 | 210.8 | 209.3 | 206.1 | 201.7 | 200.6 | 204.3 | 208.3 | 211.6 | 210.0 | 178.5 | 168.2 | 258.1 | 293.4 |
| 317 | Presente | 80.5 | 82.4 | 80.3 | 75.6 | 73.4 | 71.3 | 73.8 | 77.2 | 77.0 | 76.2 | 108.6 | 122.9 | 160.0 | 209.2 |
| 318 | Presente | 172.4 | 172.6 | 170.6 | 169.6 | 167.1 | 165.6 | 169.4 | 172.2 | 173.4 | 172.2 | 176.2 | 172.0 | 232.8 | 251.1 |
| 319 | Presente | 114.3 | 116.0 | 116.3 | 112.7 | 110.0 | 108.0 | 106.7 | 110.0 | 112.0 | 110.0 | 115.0 | 122.7 | 156.3 | 183.7 |
| 320 | Presente | 217.3 | 217.8 | 217.8 | 214.8 | 207.3 | 208.0 | 211.7 | 217.5 | 220.0 | 217.1 | 274.2 | 225.6 | 275.8 | 284.4 |
| 321 | Presente | 215.3 | 210.0 | 193.2 | 177.6 | 173.3 | 180.8 | 198.6 | 209.5 | 213.4 | 215.9 | 276.5 | 247.6 | 226.3 | 151.7 |
| 322 | Presente | 16.0 | -3.7 | -20.4 | -42.7 | -41.7 | -28.7 | -11.6 | 1.6 | 14.1 | 23.1 | 191.4 | 166.6 | 125.6 | 44.6 |
| 323 | Presente | 219.7 | 219.6 | 216.1 | 211.7 | 202.2 | 207.8 | 213.1 | 216.8 | 218.6 | 219.4 | 251.6 | 234.2 | 244.6 | 254.9 |
| 324 | Presente | 220.5 | 219.1 | 218.3 | 213.5 | 206.7 | 209.7 | 212.8 | 217.3 | 220.0 | 219.9 | 221.1 | 200.4 | 246.3 | 244.7 |
| 325 | Presente | 211.9 | 208.5 | 212.6 | 205.5 | 199.9 | 201.2 | 199.8 | 207.7 | 212.2 | 210.3 | 198.8 | 184.5 | 263.3 | 251.6 |
| 326 | Presente | 208.7 | 203.0 | 192.0 | 177.5 | 175.9 | 180.8 | 193.3 | 205.0 | 209.8 | 215.0 | 405.0 | 369.8 | 324.1 | 208.6 |
| 327 | Presente | 208.0 | 208.0 | 207.0 | 203.0 | 199.0 | 200.0 | 203.0 | 205.0 | 208.0 | 210.0 | 189.0 | 223.0 | 354.0 | 435.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 328 | Presente | 210.0 | 208.8 | 201.1 | 186.3 | 181.0 | 188.1 | 197.9 | 208.6 | 211.8 | 211.3 | 234.1 | 210.3 | 259.9 | 198.9 |
| 329 | Presente | 209.5 | 207.7 | 200.0 | 183.7 | 179.4 | 186.3 | 196.2 | 206.7 | 211.3 | 210.5 | 239.2 | 211.2 | 262.9 | 202.6 |
| 330 | Presente | 206.3 | 204.0 | 198.3 | 178.3 | 169.3 | 182.7 | 194.7 | 201.3 | 202.3 | 202.3 | 339.3 | 312.3 | 355.3 | 224.7 |
| 331 | Presente | 202.0 | 198.9 | 194.5 | 172.8 | 163.8 | 179.6 | 190.1 | 195.0 | 196.1 | 196.6 | 269.3 | 318.9 | 312.9 | 217.9 |
| 332 | Presente | 206.9 | 199.1 | 186.9 | 178.1 | 174.8 | 185.3 | 197.7 | 202.5 | 205.3 | 199.4 | 273.7 | 303.1 | 278.7 | 202.4 |
| 333 | Presente | 221.0 | 222.8 | 218.2 | 214.4 | 213.0 | 214.5 | 215.7 | 216.0 | 217.6 | 217.6 | 332.1 | 389.6 | 428.4 | 434.7 |
| 334 | Presente | 210.8 | 211.4 | 209.6 | 207.6 | 204.7 | 208.8 | 212.1 | 214.7 | 214.8 | 214.3 | 278.8 | 249.9 | 309.6 | 320.0 |
| 335 | Presente | 218.1 | 218.5 | 216.9 | 213.7 | 209.1 | 212.8 | 216.2 | 217.5 | 219.0 | 217.8 | 309.0 | 291.6 | 351.8 | 327.7 |
| 336 | Presente | 216.0 | 210.0 | 204.5 | 190.3 | 185.2 | 181.0 | 200.7 | 213.8 | 206.2 | 207.6 | 256.8 | 239.9 | 229.9 | 160.8 |
| 337 | Presente | 219.6 | 219.6 | 214.5 | 210.5 | 200.0 | 203.7 | 213.3 | 218.0 | 219.3 | 219.6 | 339.8 | 321.7 | 318.1 | 277.3 |
| 338 | Presente | 205.0 | 202.2 | 197.2 | 176.2 | 167.2 | 181.8 | 193.2 | 199.0 | 199.8 | 200.5 | 310.7 | 323.0 | 342.7 | 222.7 |
| 339 | Presente | 224.0 | 222.8 | 220.9 | 217.5 | 217.2 | 219.9 | 221.1 | 224.5 | 224.8 | 222.5 | 261.9 | 220.5 | 252.5 | 246.6 |
| 340 | Presente | 200.3 | 197.8 | 185.3 | 172.0 | 164.0 | 173.1 | 187.3 | 196.6 | 200.2 | 199.3 | 291.1 | 268.0 | 241.9 | 211.1 |
| 341 | Presente | 209.4 | 206.7 | 191.3 | 176.9 | 167.6 | 176.7 | 192.5 | 203.1 | 205.6 | 205.3 | 254.6 | 248.4 | 222.9 | 185.8 |
| 342 | Presente | 222.5 | 222.3 | 216.5 | 214.8 | 212.8 | 214.3 | 214.3 | 214.5 | 216.8 | 219.8 | 305.3 | 398.8 | 515.8 | 489.5 |
| 343 | Presente | 220.7 | 218.0 | 206.3 | 195.7 | 194.0 | 199.3 | 211.3 | 216.7 | 218.7 | 214.7 | 242.7 | 279.3 | 317.3 | 240.7 |
| 344 | Presente | 211.5 | 203.5 | 202.5 | 186.0 | 179.5 | 176.5 | 195.5 | 205.5 | 207.5 | 207.5 | 252.5 | 214.0 | 228.5 | 161.0 |
| 345 | Presente | 233.0 | 222.0 | 231.0 | 229.0 | 233.0 | 235.0 | 236.0 | 238.0 | 236.0 | 231.0 | 90.0 | 206.0 | 301.0 | 318.0 |
| 346 | Presente | 220.5 | 217.8 | 206.7 | 196.7 | 195.5 | 201.3 | 212.5 | 216.5 | 217.8 | 214.8 | 260.3 | 294.8 | 327.5 | 254.0 |
| 347 | Presente | 205.0 | 202.8 | 197.3 | 176.5 | 166.8 | 182.0 | 193.5 | 199.0 | 199.8 | 200.8 | 300.8 | 329.0 | 337.3 | 222.0 |
| 348 | Presente | 206.0 | 204.0 | 199.0 | 177.7 | 168.0 | 183.0 | 194.0 | 200.0 | 201.0 | 202.0 | 306.0 | 345.7 | 342.0 | 224.0 |
| 349 | Presente | 210.3 | 208.6 | 204.1 | 184.3 | 171.6 | 184.8 | 198.0 | 204.6 | 207.1 | 208.9 | 373.8 | 341.1 | 327.3 | 236.6 |
| 350 | Presente | 206.8 | 204.4 | 199.3 | 178.4 | 165.8 | 180.6 | 193.6 | 199.6 | 202.4 | 204.0 | 359.8 | 322.0 | 302.0 | 214.8 |
| 351 | Presente | 223.8 | 224.5 | 221.3 | 218.3 | 218.9 | 220.0 | 220.5 | 221.0 | 222.0 | 221.0 | 285.0 | 276.0 | 307.2 | 315.8 |
| 352 | Presente | 206.0 | 204.0 | 198.0 | 178.0 | 169.0 | 183.0 | 195.0 | 201.0 | 202.0 | 203.0 | 341.0 | 312.0 | 358.0 | 225.0 |
| 353 | Presente | 223.9 | 225.0 | 221.0 | 215.8 | 216.0 | 219.0 | 221.9 | 221.1 | 221.5 | 220.5 | 330.6 | 434.1 | 438.6 | 412.0 |
| 354 | Presente | 205.0 | 202.0 | 197.0 | 176.0 | 166.0 | 182.0 | 193.0 | 198.0 | 199.0 | 200.0 | 283.0 | 311.0 | 317.0 | 214.0 |
| 355 | Presente | 219.3 | 214.0 | 202.2 | 196.2 | 192.8 | 199.8 | 212.7 | 218.4 | 216.7 | 212.3 | 271.9 | 284.8 | 278.4 | 219.9 |
| 356 | Presente | 218.1 | 211.6 | 199.2 | 188.5 | 187.3 | 193.8 | 208.9 | 217.7 | 211.0 | 207.2 | 307.1 | 281.7 | 281.4 | 207.7 |
| 357 | Presente | 204.0 | 200.0 | 196.0 | 175.0 | 165.0 | 181.0 | 192.0 | 197.0 | 198.0 | 199.0 | 289.0 | 309.0 | 320.0 | 215.0 |
| 358 | Presente | 219.1 | 219.2 | 220.8 | 214.8 | 207.4 | 211.6 | 214.5 | 221.3 | 222.4 | 224.5 | 319.0 | 322.5 | 385.4 | 323.6 |
| 359 | Presente | 219.3 | 216.2 | 205.9 | 193.7 | 190.3 | 202.6 | 214.1 | 219.5 | 220.4 | 216.4 | 340.1 | 292.6 | 309.1 | 242.0 |
| 360 | Presente | 225.6 | 227.9 | 224.6 | 223.0 | 223.2 | 225.4 | 225.0 | 226.4 | 226.3 | 226.0 | 352.0 | 408.4 | 510.2 | 490.7 |
| 361 | Presente | 226.9 | 225.7 | 223.0 | 220.3 | 219.9 | 221.8 | 221.7 | 223.6 | 223.9 | 222.8 | 339.0 | 380.1 | 398.6 | 374.4 |
| 362 | Presente | 222.8 | 223.1 | 217.4 | 216.0 | 214.1 | 215.5 | 215.5 | 216.0 | 218.0 | 220.4 | 318.2 | 400.6 | 524.5 | 501.4 |
| 363 | Presente | 205.3 | 203.3 | 198.3 | 177.3 | 167.3 | 182.3 | 193.3 | 199.3 | 200.5 | 201.3 | 323.5 | 343.0 | 345.3 | 227.8 |
| 364 | Presente | 222.0 | 215.0 | 214.0 | 211.0 | 211.0 | 211.0 | 211.0 | 213.0 | 218.0 | 217.0 | 241.0 | 402.0 | 496.0 | 435.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 365 | Presente | 224.0 | 215.0 | 217.0 | 213.0 | 215.0 | 215.0 | 215.0 | 217.0 | 222.0 | 219.0 | 204.0 | 346.0 | 450.0 | 381.0 |
| 366 | Presente | 225.5 | 215.0 | 218.5 | 216.0 | 218.0 | 218.0 | 218.5 | 220.5 | 225.0 | 220.5 | 192.5 | 314.0 | 427.5 | 364.0 |
| 367 | Presente | 233.4 | 236.0 | 237.0 | 235.9 | 238.4 | 242.4 | 242.2 | 244.0 | 241.5 | 236.6 | 378.2 | 490.6 | 535.8 | 518.2 |
| 368 | Presente | 222.0 | 217.0 | 213.0 | 211.0 | 209.0 | 209.0 | 210.0 | 211.0 | 216.0 | 216.0 | 265.0 | 412.0 | 501.0 | 460.0 |
| 369 | Presente | 224.7 | 226.3 | 222.0 | 220.7 | 220.0 | 222.0 | 221.7 | 223.0 | 223.0 | 224.0 | 344.3 | 401.0 | 519.0 | 497.0 |
| 370 | Presente | 227.5 | 230.5 | 227.5 | 226.0 | 227.0 | 229.0 | 229.0 | 230.5 | 230.0 | 228.5 | 353.5 | 417.0 | 502.5 | 482.5 |
| 371 | Presente | 203.7 | 201.7 | 196.7 | 175.7 | 165.7 | 181.0 | 192.3 | 197.7 | 199.3 | 200.0 | 312.7 | 352.7 | 344.0 | 227.0 |
| 372 | Presente | 217.6 | 218.7 | 213.2 | 210.6 | 203.1 | 205.1 | 211.5 | 213.8 | 214.9 | 215.1 | 289.2 | 269.8 | 311.5 | 284.9 |
| 373 | Presente | 217.2 | 214.1 | 205.1 | 200.4 | 193.3 | 198.3 | 210.2 | 214.9 | 215.3 | 212.7 | 295.1 | 287.8 | 308.8 | 241.3 |
| 374 | Presente | 206.5 | 205.0 | 199.5 | 179.0 | 169.0 | 183.5 | 195.5 | 201.5 | 203.0 | 203.0 | 328.0 | 325.0 | 348.5 | 224.5 |
| 375 | Presente | 199.1 | 190.6 | 188.1 | 171.7 | 159.2 | 166.2 | 181.8 | 190.6 | 195.2 | 195.8 | 256.8 | 231.4 | 225.3 | 115.3 |
| 376 | Presente | 204.5 | 202.0 | 196.5 | 176.0 | 166.5 | 181.5 | 193.0 | 198.0 | 199.0 | 200.0 | 295.5 | 324.5 | 332.5 | 220.5 |
| 377 | Presente | 220.1 | 222.0 | 219.9 | 218.0 | 217.9 | 220.9 | 224.3 | 226.4 | 225.2 | 222.9 | 195.5 | 259.4 | 334.3 | 332.5 |
| 378 | Presente | 225.2 | 226.2 | 224.4 | 221.7 | 224.2 | 225.3 | 225.9 | 225.6 | 225.4 | 223.8 | 246.0 | 269.1 | 301.9 | 343.4 |
| 379 | Presente | 211.8 | 205.0 | 202.2 | 185.8 | 180.6 | 178.1 | 196.4 | 207.3 | 205.5 | 205.8 | 255.7 | 226.6 | 232.5 | 162.0 |
| 380 | Presente | 210.3 | 203.6 | 200.7 | 184.7 | 178.8 | 177.3 | 195.1 | 205.9 | 202.9 | 203.2 | 256.3 | 232.9 | 236.9 | 162.1 |
| 381 | Presente | 211.9 | 211.0 | 200.8 | 190.7 | 188.2 | 194.0 | 204.0 | 210.8 | 213.7 | 210.8 | 262.0 | 241.7 | 260.7 | 227.8 |
| 382 | Presente | 206.0 | 209.4 | 205.4 | 195.0 | 189.4 | 193.9 | 202.8 | 207.3 | 207.5 | 206.4 | 241.1 | 295.2 | 306.7 | 232.5 |
| 383 | Presente | 213.3 | 214.4 | 211.5 | 209.8 | 205.1 | 208.4 | 212.2 | 213.4 | 214.6 | 215.2 | 260.0 | 283.8 | 309.4 | 294.2 |
| 384 | Presente | 220.2 | 214.6 | 205.5 | 195.8 | 190.0 | 185.3 | 205.5 | 220.4 | 206.3 | 207.6 | 259.9 | 249.5 | 231.1 | 168.1 |
| 385 | Presente | 216.5 | 210.6 | 203.9 | 191.4 | 185.6 | 181.9 | 201.4 | 214.8 | 204.9 | 206.1 | 257.4 | 247.3 | 233.9 | 163.0 |
| 386 | Presente | 211.5 | 210.3 | 204.6 | 185.6 | 175.8 | 188.3 | 201.1 | 207.9 | 209.3 | 209.8 | 349.4 | 294.7 | 342.1 | 221.0 |
| 387 | Presente | 221.2 | 219.8 | 218.7 | 215.7 | 216.7 | 217.4 | 219.6 | 223.3 | 222.5 | 221.7 | 213.2 | 235.5 | 293.0 | 326.0 |
| 388 | Presente | 201.2 | 203.0 | 196.3 | 187.1 | 184.5 | 189.9 | 197.7 | 201.2 | 201.2 | 199.2 | 262.7 | 281.6 | 277.2 | 206.7 |
| 389 | Presente | 212.3 | 210.5 | 203.6 | 187.8 | 182.1 | 188.8 | 199.1 | 208.3 | 212.6 | 212.8 | 251.3 | 231.4 | 275.5 | 212.6 |
| 390 | Presente | 209.0 | 212.4 | 209.3 | 198.7 | 191.7 | 195.8 | 205.3 | 210.0 | 210.2 | 209.7 | 275.5 | 304.8 | 339.1 | 273.5 |
| 391 | Presente | 205.0 | 203.0 | 198.0 | 177.0 | 167.0 | 183.0 | 194.0 | 199.0 | 200.0 | 201.0 | 302.0 | 338.0 | 339.0 | 223.0 |
| 392 | Presente | 227.0 | 230.0 | 227.0 | 225.0 | 226.0 | 228.0 | 228.0 | 230.0 | 229.0 | 228.0 | 354.0 | 416.0 | 504.0 | 485.0 |
| 393 | Presente | 206.0 | 203.8 | 198.8 | 177.5 | 167.8 | 183.0 | 194.3 | 199.8 | 200.8 | 201.8 | 305.0 | 341.0 | 341.0 | 223.3 |
| 394 | Presente | 206.5 | 204.5 | 199.5 | 178.5 | 169.0 | 183.5 | 195.5 | 201.5 | 202.5 | 203.0 | 325.0 | 320.5 | 349.5 | 223.5 |
| 395 | Presente | 215.9 | 219.3 | 214.6 | 208.0 | 206.7 | 211.2 | 215.3 | 218.3 | 217.8 | 215.7 | 286.9 | 308.2 | 293.4 | 290.4 |
| 396 | Presente | 225.2 | 224.4 | 221.5 | 218.6 | 218.1 | 219.9 | 219.7 | 221.6 | 222.2 | 221.1 | 330.7 | 377.4 | 393.5 | 379.9 |
| 397 | Presente | 221.1 | 222.4 | 221.1 | 218.8 | 218.2 | 221.3 | 224.0 | 225.7 | 225.3 | 223.2 | 220.9 | 256.5 | 320.4 | 325.0 |
| 398 | Presente | 70.4 | 73.0 | 73.5 | 70.0 | 65.6 | 64.2 | 64.2 | 68.5 | 69.0 | 68.3 | 111.6 | 108.6 | 147.5 | 185.7 |
| 399 | Presente | 114.0 | 116.0 | 116.0 | 112.0 | 107.0 | 109.0 | 109.0 | 111.0 | 113.0 | 112.0 | 116.0 | 125.0 | 153.0 | 177.0 |
| 400 | Presente | 105.9 | 108.3 | 107.9 | 104.4 | 101.4 | 99.4 | 99.4 | 103.4 | 105.0 | 103.3 | 140.1 | 141.5 | 181.8 | 227.7 |
| 401 | Presente | 225.0 | 231.0 | 233.5 | 226.3 | 223.3 | 223.0 | 223.0 | 222.5 | 223.3 | 223.5 | 201.3 | 187.5 | 176.8 | 233.5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 402 | Presente | 222.5 | 227.2 | 227.8 | 226.5 | 225.8 | 228.2 | 228.9 | 229.2 | 228.2 | 223.5 | 213.8 | 141.8 | 151.7 | 217.3 |
| 403 | Presente | 221.8 | 226.3 | 227.5 | 225.8 | 224.0 | 226.3 | 227.0 | 227.0 | 227.0 | 223.5 | 208.0 | 137.3 | 175.0 | 224.0 |
| 404 | Presente | 216.5 | 219.3 | 219.3 | 217.4 | 217.1 | 220.0 | 222.2 | 223.2 | 223.1 | 218.1 | 222.3 | 192.7 | 190.1 | 307.1 |
| 405 | Presente | 220.9 | 226.6 | 227.2 | 225.3 | 223.9 | 225.5 | 225.5 | 227.0 | 226.1 | 222.3 | 220.1 | 144.7 | 157.3 | 216.8 |
| 406 | Presente | 224.2 | 228.2 | 228.6 | 227.8 | 227.8 | 231.5 | 233.9 | 233.4 | 231.6 | 226.2 | 185.6 | 132.4 | 136.8 | 202.3 |
| 407 | Presente | 212.7 | 217.7 | 218.4 | 210.7 | 206.8 | 207.7 | 206.9 | 205.4 | 207.7 | 209.9 | 304.4 | 241.6 | 258.1 | 315.9 |
| 408 | Presente | 222.5 | 225.2 | 223.0 | 215.6 | 212.5 | 212.6 | 213.1 | 210.9 | 214.0 | 217.7 | 430.5 | 366.0 | 385.5 | 430.3 |
| 409 | Presente | 211.6 | 216.5 | 216.3 | 208.8 | 204.0 | 204.1 | 202.9 | 199.1 | 202.8 | 207.6 | 393.8 | 322.9 | 344.9 | 349.5 |
| 410 | Presente | 228.1 | 221.8 | 229.2 | 222.3 | 215.0 | 212.4 | 218.2 | 224.1 | 227.5 | 217.9 | 51.3 | 99.7 | 138.4 | 267.7 |
| 411 | Presente | 226.0 | 229.7 | 230.2 | 229.0 | 229.0 | 232.0 | 233.5 | 233.3 | 231.7 | 226.0 | 182.3 | 120.2 | 114.3 | 173.0 |
| 412 | Presente | 215.2 | 214.3 | 214.2 | 211.6 | 207.7 | 208.0 | 208.7 | 212.7 | 213.4 | 210.2 | 121.3 | 139.9 | 208.7 | 322.6 |
| 413 | Presente | 208.8 | 210.8 | 211.2 | 207.9 | 205.4 | 205.7 | 206.8 | 208.5 | 206.9 | 206.9 | 120.6 | 124.3 | 198.5 | 248.6 |
| 414 | Presente | 222.7 | 227.2 | 228.9 | 225.6 | 222.6 | 223.2 | 223.8 | 224.8 | 224.8 | 223.4 | 241.4 | 169.2 | 181.8 | 232.8 |
| 415 | Presente | 193.5 | 180.5 | 168.7 | 151.5 | 141.5 | 150.0 | 175.0 | 187.5 | 195.4 | 196.7 | 223.1 | 194.0 | 174.7 | 86.7 |
| 416 | Presente | 223.9 | 217.0 | 204.0 | 196.4 | 192.8 | 194.9 | 212.4 | 223.8 | 214.4 | 212.3 | 270.3 | 243.2 | 188.9 | 170.5 |
| 417 | Presente | 223.9 | 203.2 | 180.7 | 166.8 | 150.7 | 161.1 | 185.1 | 207.7 | 213.8 | 222.9 | 559.0 | 482.3 | 433.8 | 284.8 |
| 418 | Presente | 220.5 | 226.5 | 222.0 | 218.0 | 218.0 | 220.0 | 220.0 | 220.5 | 222.0 | 222.0 | 321.5 | 327.5 | 380.5 | 339.0 |
| 419 | Presente | 205.5 | 191.6 | 180.0 | 163.5 | 154.0 | 160.1 | 183.0 | 197.0 | 204.7 | 207.6 | 229.2 | 203.6 | 181.6 | 83.7 |
| 420 | Presente | 215.0 | 195.5 | 172.5 | 153.5 | 139.5 | 152.0 | 175.5 | 204.5 | 203.5 | 211.5 | 559.5 | 479.5 | 455.5 | 270.5 |
| 421 | Presente | 218.0 | 211.4 | 198.4 | 182.1 | 179.6 | 182.1 | 198.7 | 211.4 | 216.6 | 220.7 | 288.2 | 233.2 | 216.1 | 134.6 |
| 422 | Presente | 147.5 | 148.5 | 150.5 | 148.0 | 144.0 | 143.5 | 150.0 | 151.5 | 148.5 | 151.0 | 245.5 | 201.5 | 272.5 | 303.5 |
| 423 | Presente | 223.7 | 203.3 | 180.7 | 166.7 | 151.0 | 161.3 | 186.0 | 208.0 | 213.7 | 222.7 | 533.0 | 458.7 | 412.3 | 266.7 |
| 424 | Presente | 152.6 | 153.0 | 151.0 | 149.4 | 147.1 | 145.7 | 148.1 | 151.4 | 152.7 | 151.6 | 185.4 | 171.4 | 229.6 | 256.6 |
| 425 | Presente | 219.5 | 210.5 | 192.5 | 172.0 | 163.0 | 171.5 | 194.5 | 210.5 | 214.5 | 220.5 | 312.5 | 269.0 | 224.5 | 133.0 |
| 426 | Presente | 37.8 | 28.1 | 7.9 | -14.3 | -14.7 | -7.4 | 17.9 | 28.1 | 31.6 | 37.4 | 163.8 | 144.7 | 133.6 | 62.3 |
| 427 | Presente | 2.0 | -10.0 | -34.0 | -62.0 | -64.0 | -58.0 | -28.0 | -22.0 | -17.0 | -3.0 | 148.0 | 134.0 | 129.0 | 49.0 |
| 428 | Presente | 131.1 | 130.5 | 126.8 | 123.7 | 122.3 | 117.6 | 128.4 | 131.5 | 131.0 | 128.6 | 115.3 | 95.0 | 132.6 | 130.9 |
| 429 | Presente | 130.7 | 126.7 | 112.6 | 99.9 | 102.9 | 113.1 | 123.1 | 137.3 | 137.3 | 133.2 | 221.2 | 218.0 | 210.6 | 134.3 |
| 430 | Presente | 81.2 | 75.2 | 59.4 | 44.8 | 43.0 | 50.6 | 66.6 | 80.0 | 80.4 | 80.0 | 140.0 | 146.0 | 146.2 | 78.0 |
| 431 | Presente | 85.5 | 86.2 | 74.4 | 73.5 | 73.5 | 72.2 | 76.3 | 79.8 | 77.5 | 77.7 | 107.1 | 109.2 | 141.2 | 114.9 |
| 432 | Presente | 218.5 | 223.5 | 226.3 | 222.2 | 221.3 | 224.4 | 228.2 | 229.4 | 226.1 | 220.5 | 152.4 | 111.5 | 119.1 | 173.6 |
| 433 | Presente | 221.6 | 208.4 | 187.4 | 167.5 | 158.0 | 167.6 | 192.1 | 210.0 | 214.2 | 221.6 | 354.3 | 297.3 | 261.9 | 152.1 |
| 434 | Presente | 166.3 | 172.1 | 175.9 | 174.3 | 170.3 | 170.5 | 169.0 | 171.0 | 171.1 | 165.6 | 67.8 | 55.2 | 74.9 | 152.1 |
| 435 | Presente | 216.3 | 218.5 | 218.1 | 215.8 | 215.4 | 217.8 | 220.3 | 221.3 | 221.5 | 217.0 | 205.7 | 183.8 | 193.5 | 296.4 |
| 436 | Presente | 144.2 | 143.3 | 141.7 | 138.9 | 137.1 | 129.6 | 142.2 | 145.7 | 146.2 | 143.8 | 118.2 | 94.7 | 138.5 | 138.7 |
| 437 | Presente | 209.6 | 206.9 | 211.6 | 209.0 | 204.8 | 202.7 | 207.2 | 212.4 | 213.7 | 210.7 | 211.9 | 180.7 | 241.4 | 236.0 |
| 438 | Presente | 211.3 | 210.8 | 204.7 | 196.3 | 189.0 | 194.6 | 204.2 | 210.0 | 210.8 | 214.0 | 212.1 | 219.7 | 266.5 | 227.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 439 | Presente | 214.8 | 214.3 | 215.1 | 209.9 | 204.7 | 206.0 | 209.4 | 217.2 | 221.9 | 215.8 | 283.7 | 240.9 | 314.4 | 326.2 |
| Código | Modelo | Prec 05 | Prec 06 | Prec 07 | Prec 08 | Prec 09 | Prec 10 | Prec 11 | Prec 12 | Bio1 mean | Bio2 mean | Bio3 mean | Bio4 mean | Bio5 mean | Bio6 mean |
| 1 | HE | 287.3 | 248.8 | 228.6 | 233.1 | 204.7 | 174.8 | 226.6 | 280.7 | 259.2 | 98.6 | 85.8 | 421.9 | 315.3 | 201.1 |
| 2 | HE | 293.1 | 237.9 | 189.3 | 177.3 | 161.0 | 147.5 | 185.4 | 311.8 | 260.4 | 94.3 | 85.0 | 440.3 | 314.7 | 204.4 |
| 3 | HE | 17.0 | 8.3 | 11.2 | 22.1 | 42.9 | 67.9 | 105.2 | 139.1 | 112.5 | 160.3 | 76.1 | 1028.9 | 211.5 | 2.2 |
| 4 | HE | 258.2 | 181.8 | 128.4 | 145.2 | 144.8 | 135.1 | 181.0 | 259.5 | 261.5 | 97.5 | 83.2 | 423.5 | 319.6 | 203.0 |
| 5 | HE | 166.7 | 126.9 | 100.2 | 117.5 | 134.0 | 147.1 | 145.3 | 143.5 | 237.2 | 112.3 | 82.0 | 478.7 | 302.1 | 166.3 |
| 6 | HE | 128.0 | 101.1 | 65.8 | 76.2 | 87.3 | 126.6 | 191.7 | 189.9 | 264.4 | 110.6 | 78.4 | 530.7 | 332.8 | 192.3 |
| 7 | HE | 302.0 | 247.8 | 218.2 | 204.4 | 165.7 | 152.4 | 206.8 | 317.2 | 261.6 | 95.3 | 85.8 | 429.9 | 315.6 | 205.0 |
| 8 | HE | 217.3 | 255.4 | 190.1 | 164.3 | 116.6 | 116.4 | 128.9 | 133.7 | 170.1 | 113.3 | 86.1 | 502.0 | 239.7 | 108.6 |
| 9 | HE | 90.3 | 54.6 | 60.1 | 28.6 | 38.9 | 59.7 | 104.7 | 194.2 | 260.6 | 113.1 | 71.1 | 1125.8 | 335.9 | 177.8 |
| 10 | HE | 130.9 | 90.0 | 57.1 | 61.0 | 79.5 | 153.7 | 167.8 | 287.9 | 249.2 | 108.8 | 63.8 | 1709.6 | 323.4 | 154.3 |
| 11 | HE | 262.5 | 134.9 | 84.4 | 35.3 | 21.7 | 34.8 | 33.1 | 170.0 | 270.5 | 85.3 | 83.9 | 463.7 | 325.6 | 224.7 |
| 12 | HE | 255.0 | 113.0 | 68.6 | 13.0 | 8.5 | 9.8 | 10.2 | 78.4 | 271.4 | 88.2 | 83.0 | 416.4 | 328.3 | 222.6 |
| 13 | HE | 320.8 | 254.9 | 172.0 | 150.2 | 100.9 | 82.4 | 154.8 | 167.8 | 271.6 | 95.9 | 87.7 | 359.8 | 326.7 | 218.2 |
| 14 | HE | 64.3 | 36.7 | 28.7 | 49.0 | 60.0 | 127.3 | 134.0 | 216.7 | 194.7 | 93.0 | 72.0 | 1183.0 | 255.7 | 127.3 |
| 15 | HE | 268.0 | 131.8 | 67.5 | 12.7 | 11.1 | 7.8 | 8.1 | 58.3 | 269.2 | 78.5 | 79.8 | 487.5 | 320.1 | 222.2 |
| 16 | HE | 73.7 | 46.7 | 38.4 | 67.1 | 95.4 | 143.0 | 145.6 | 240.5 | 218.6 | 111.0 | 70.3 | 1240.0 | 291.4 | 134.7 |
| 17 | HE | 51.0 | 22.4 | 17.4 | 40.0 | 59.2 | 111.4 | 99.2 | 184.6 | 190.8 | 107.2 | 73.0 | 1031.4 | 259.4 | 113.6 |
| 18 | HE | 276.0 | 157.0 | 78.0 | 23.0 | 16.0 | 30.0 | 39.0 | 137.0 | 271.0 | 78.0 | 78.0 | 592.0 | 327.0 | 228.0 |
| 19 | HE | 73.9 | 25.8 | 15.3 | 7.2 | 8.7 | 25.1 | 92.4 | 215.2 | 256.6 | 109.1 | 81.2 | 310.3 | 325.6 | 191.9 |
| 20 | HE | 100.6 | 46.3 | 30.7 | 33.1 | 66.3 | 108.8 | 151.1 | 220.5 | 257.5 | 108.8 | 75.5 | 728.7 | 324.1 | 180.7 |
| 21 | HE | 217.0 | 95.0 | 73.0 | 36.0 | 35.0 | 65.0 | 56.0 | 222.0 | 268.0 | 95.0 | 90.0 | 258.0 | 323.0 | 218.0 |
| 22 | HE | 54.8 | 23.2 | 18.8 | 4.0 | 5.0 | 15.4 | 70.6 | 164.2 | 262.6 | 111.0 | 75.4 | 308.6 | 336.6 | 190.0 |
| 23 | HE | 130.7 | 42.1 | 20.3 | 6.0 | 4.1 | 9.6 | 68.3 | 194.5 | 271.0 | 102.9 | 86.6 | 321.9 | 332.2 | 213.8 |
| 24 | HE | 98.0 | 44.7 | 31.0 | 33.0 | 66.3 | 111.3 | 152.0 | 220.0 | 261.3 | 106.3 | 74.0 | 752.0 | 328.0 | 184.7 |
| 25 | HE | 266.3 | 137.4 | 109.2 | 90.0 | 88.1 | 97.1 | 144.4 | 266.9 | 270.8 | 86.3 | 83.6 | 398.6 | 325.9 | 223.2 |
| 26 | HE | 195.6 | 103.4 | 91.2 | 94.0 | 89.4 | 99.9 | 157.9 | 235.0 | 272.3 | 84.1 | 81.8 | 452.9 | 327.7 | 225.4 |
| 27 | HE | 301.8 | 163.6 | 120.0 | 106.3 | 99.4 | 104.0 | 146.2 | 243.4 | 270.8 | 86.8 | 83.2 | 403.3 | 326.2 | 222.7 |
| 28 | HE | 208.9 | 128.7 | 106.7 | 60.3 | 28.4 | 30.9 | 78.6 | 153.4 | 276.8 | 83.2 | 79.1 | 602.4 | 336.7 | 232.3 |
| 29 | HE | 205.0 | 100.0 | 86.0 | 71.0 | 71.0 | 87.0 | 153.0 | 225.0 | 274.0 | 83.0 | 81.0 | 455.0 | 329.0 | 227.0 |
| 30 | HE | 213.8 | 93.6 | 70.5 | 30.0 | 9.7 | 7.3 | 23.8 | 65.5 | 268.4 | 85.3 | 80.8 | 602.3 | 326.2 | 221.4 |
| 31 | HE | 323.5 | 171.1 | 133.6 | 112.5 | 85.3 | 85.2 | 129.5 | 218.6 | 269.6 | 87.5 | 82.8 | 418.0 | 325.8 | 221.1 |
| 32 | HE | 195.3 | 87.7 | 67.7 | 33.0 | 34.7 | 64.7 | 49.3 | 205.3 | 268.0 | 93.7 | 88.3 | 290.3 | 323.3 | 218.0 |
| 33 | HE | 285.7 | 147.4 | 69.2 | 17.7 | 10.8 | 23.4 | 34.2 | 138.7 | 270.0 | 77.0 | 78.6 | 592.9 | 326.2 | 228.8 |
| 34 | HE | 102.5 | 25.5 | 17.0 | 42.0 | 83.0 | 165.5 | 183.0 | 239.0 | 260.5 | 102.5 | 72.0 | 632.5 | 328.5 | 186.5 |
| 35 | HE | 56.6 | 22.2 | 19.3 | 4.0 | 5.1 | 14.2 | 71.7 | 170.9 | 258.2 | 110.0 | 75.8 | 296.5 | 331.3 | 187.1 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36 | HE | 102.5 | 47.9 | 42.8 | 30.1 | 95.3 | 140.4 | 218.8 | 258.0 | 260.9 | 111.1 | 68.9 | 430.7 | 341.1 | 180.5 |
| 37 | HE | 199.3 | 100.3 | 88.1 | 80.2 | 78.7 | 92.4 | 155.0 | 228.3 | 273.8 | 83.3 | 81.7 | 457.9 | 328.9 | 227.2 |
| 38 | HE | 75.7 | 50.7 | 36.3 | 60.0 | 89.3 | 134.7 | 146.7 | 248.0 | 230.0 | 102.7 | 69.3 | 1314.7 | 298.7 | 152.0 |
| 39 | HE | 78.9 | 23.2 | 19.9 | 12.3 | 26.5 | 68.4 | 142.6 | 223.3 | 248.6 | 121.6 | 78.5 | 339.2 | 325.9 | 171.9 |
| 40 | HE | 333.0 | 260.6 | 182.1 | 156.4 | 116.4 | 96.3 | 160.3 | 177.9 | 270.5 | 97.4 | 88.8 | 348.4 | 325.7 | 216.7 |
| 41 | HE | 80.0 | 46.5 | 22.5 | 21.0 | 16.0 | 46.5 | 91.5 | 128.5 | 256.0 | 119.0 | 68.0 | 1834.5 | 334.0 | 159.0 |
| 42 | HE | 98.0 | 70.0 | 37.0 | 48.5 | 44.0 | 103.5 | 121.0 | 170.0 | 241.0 | 105.0 | 62.0 | 2171.0 | 315.5 | 148.5 |
| 43 | HE | 68.9 | 27.1 | 11.0 | 15.5 | 54.6 | 108.1 | 143.5 | 204.9 | 266.5 | 112.1 | 69.8 | 721.9 | 343.5 | 183.5 |
| 44 | HE | 71.7 | 31.3 | 13.7 | 19.3 | 52.0 | 98.0 | 138.0 | 206.0 | 265.0 | 114.0 | 69.0 | 836.0 | 342.0 | 177.0 |
| 45 | HE | 80.0 | 46.5 | 22.5 | 21.0 | 16.0 | 46.5 | 91.5 | 128.5 | 256.0 | 119.0 | 68.0 | 1834.5 | 334.0 | 159.0 |
| 46 | HE | 93.3 | 52.4 | 49.3 | 26.9 | 37.0 | 62.6 | 102.8 | 185.3 | 260.1 | 114.1 | 70.5 | 1136.0 | 336.0 | 175.2 |
| 47 | HE | 117.2 | 82.5 | 54.6 | 62.1 | 83.1 | 149.5 | 160.7 | 275.6 | 245.2 | 108.6 | 65.2 | 1596.2 | 318.6 | 153.5 |
| 48 | HE | 113.0 | 76.1 | 62.8 | 56.4 | 66.3 | 117.5 | 171.1 | 282.4 | 249.7 | 104.1 | 72.3 | 1168.3 | 317.4 | 174.2 |
| 49 | HE | 414.0 | 556.3 | 452.0 | 349.7 | 267.7 | 161.0 | 150.0 | 87.3 | 271.7 | 96.0 | 78.0 | 638.3 | 342.7 | 220.0 |
| 50 | HE | 52.3 | 28.2 | 21.6 | 44.6 | 59.7 | 114.8 | 109.0 | 190.2 | 169.5 | 108.1 | 71.5 | 1142.7 | 238.3 | 87.9 |
| 51 | HE | 76.1 | 62.1 | 32.0 | 50.1 | 36.8 | 87.8 | 109.2 | 152.2 | 219.8 | 114.0 | 65.6 | 1984.9 | 296.2 | 123.9 |
| 52 | HE | 159.9 | 103.1 | 54.5 | 49.1 | 50.9 | 103.2 | 168.0 | 275.0 | 253.0 | 111.8 | 64.5 | 1905.5 | 327.5 | 155.4 |
| 53 | HE | 91.4 | 69.7 | 52.6 | 54.8 | 60.9 | 115.3 | 145.3 | 242.1 | 218.8 | 102.0 | 70.6 | 1279.5 | 286.4 | 142.8 |
| 54 | HE | 168.4 | 114.3 | 64.7 | 89.1 | 118.8 | 162.6 | 193.4 | 279.5 | 254.4 | 99.7 | 73.9 | 620.1 | 317.1 | 183.3 |
| 55 | HE | 306.1 | 219.3 | 175.3 | 158.9 | 138.3 | 196.0 | 200.4 | 260.3 | 256.4 | 91.0 | 85.7 | 337.7 | 310.3 | 205.0 |
| 56 | HE | 179.0 | 84.0 | 63.0 | 30.0 | 33.0 | 61.0 | 42.0 | 188.0 | 269.0 | 92.0 | 89.0 | 307.0 | 323.0 | 220.0 |
| 57 | HE | 185.0 | 85.0 | 65.0 | 31.0 | 35.0 | 65.0 | 46.0 | 198.0 | 268.0 | 93.0 | 89.0 | 301.0 | 323.0 | 219.0 |
| 58 | HE | 266.0 | 141.0 | 122.0 | 122.0 | 100.0 | 105.0 | 158.0 | 217.0 | 269.0 | 86.0 | 83.0 | 417.0 | 324.0 | 221.0 |
| 59 | HE | 79.0 | 39.0 | 25.0 | 34.0 | 57.0 | 93.0 | 145.0 | 198.0 | 254.0 | 105.0 | 68.0 | 997.0 | 326.0 | 173.0 |
| 60 | HE | 299.3 | 306.4 | 190.2 | 116.3 | 38.6 | 18.4 | 32.0 | 38.4 | 264.2 | 91.3 | 79.8 | 617.9 | 327.0 | 213.2 |
| 61 | HE | 220.1 | 314.4 | 236.7 | 166.6 | 72.2 | 70.3 | 122.1 | 225.1 | 266.3 | 69.6 | 78.4 | 484.4 | 313.9 | 225.7 |
| 62 | HE | 220.8 | 311.3 | 248.8 | 216.0 | 108.3 | 94.5 | 149.8 | 233.3 | 262.0 | 75.0 | 78.5 | 502.8 | 311.0 | 216.5 |
| 63 | HE | 97.3 | 316.8 | 204.0 | 173.0 | 161.3 | 99.3 | 150.5 | 281.0 | 262.0 | 75.0 | 78.5 | 502.8 | 311.0 | 216.5 |
| 64 | HE | 486.0 | 471.3 | 355.9 | 276.9 | 216.6 | 200.1 | 189.1 | 171.0 | 254.9 | 111.0 | 88.4 | 413.0 | 320.6 | 195.7 |
| 65 | HE | 534.0 | 443.0 | 158.0 | 55.0 | 11.0 | 27.0 | 113.0 | 271.0 | 264.0 | 77.0 | 75.0 | 554.0 | 323.0 | 221.0 |
| 66 | HE | 327.0 | 328.0 | 140.0 | 53.0 | 15.0 | 22.0 | 77.0 | 155.0 | 265.0 | 81.0 | 78.0 | 586.0 | 324.0 | 221.0 |
| 67 | HE | 134.3 | 114.9 | 84.3 | 87.6 | 91.8 | 110.3 | 113.9 | 117.9 | 182.8 | 102.8 | 78.0 | 490.5 | 248.1 | 117.2 |
| 68 | HE | 54.9 | 20.3 | 24.0 | 39.1 | 82.1 | 114.4 | 131.0 | 182.7 | 124.7 | 147.0 | 78.9 | 771.3 | 208.3 | 23.1 |
| 69 | HE | 176.3 | 88.6 | 77.5 | 139.4 | 156.2 | 252.8 | 300.1 | 432.6 | 219.6 | 126.9 | 82.3 | 479.7 | 293.3 | 140.0 |
| 70 | HE | 91.0 | 64.5 | 45.0 | 61.0 | 89.0 | 136.0 | 154.0 | 267.5 | 235.5 | 105.5 | 69.0 | 1385.0 | 305.0 | 153.0 |
| 71 | HE | 372.9 | 282.2 | 181.2 | 98.4 | 39.9 | 29.3 | 67.5 | 130.0 | 259.5 | 96.1 | 81.4 | 565.7 | 323.8 | 206.4 |
| 72 | HE | 395.0 | 486.3 | 442.0 | 326.7 | 190.7 | 136.3 | 114.0 | 70.3 | 281.0 | 101.3 | 75.3 | 913.3 | 358.0 | 225.0 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 73 | HE | 395.5 | 488.0 | 442.5 | 328.5 | 192.5 | 138.0 | 116.0 | 71.5 | 281.0 | 101.5 | 75.5 | 902.5 | 358.0 | 225.0 |
| 74 | HE | 394.5 | 434.0 | 307.0 | 313.0 | 234.5 | 230.5 | 268.5 | 250.5 | 249.0 | 96.5 | 85.5 | 427.5 | 307.5 | 195.5 |
| 75 | HE | 97.4 | 44.1 | 33.4 | 45.2 | 59.1 | 118.5 | 177.1 | 220.3 | 246.3 | 115.0 | 72.6 | 803.9 | 316.6 | 159.3 |
| 76 | HE | 348.4 | 303.1 | 254.3 | 209.7 | 196.3 | 217.3 | 230.5 | 293.7 | 254.7 | 89.9 | 86.1 | 371.2 | 307.5 | 203.7 |
| 77 | HE | 111.7 | 32.4 | 18.1 | 7.0 | 4.2 | 8.0 | 18.4 | 92.5 | 262.4 | 103.5 | 83.5 | 379.1 | 325.7 | 202.4 |
| 78 | HE | 56.7 | 7.0 | 5.0 | 18.3 | 57.0 | 149.0 | 194.7 | 248.0 | 242.3 | 126.0 | 68.0 | 497.7 | 332.3 | 147.3 |
| 79 | HE | 51.6 | 9.6 | 11.4 | 8.7 | 78.2 | 157.8 | 352.9 | 343.5 | 243.5 | 140.9 | 68.3 | 591.7 | 350.8 | 146.2 |
| 80 | HE | 360.3 | 390.7 | 285.0 | 285.7 | 200.0 | 190.3 | 228.7 | 214.7 | 211.7 | 107.3 | 82.7 | 547.3 | 282.3 | 153.3 |
| 81 | HE | 330.3 | 388.3 | 309.0 | 275.7 | 180.0 | 174.0 | 192.3 | 187.3 | 181.0 | 110.7 | 85.0 | 506.0 | 251.0 | 121.3 |
| 82 | HE | 54.4 | 13.5 | 5.2 | 13.5 | 53.9 | 115.8 | 150.6 | 195.2 | 247.9 | 126.7 | 71.2 | 667.0 | 335.0 | 158.1 |
| 83 | HE | 349.7 | 149.2 | 110.4 | 60.6 | 17.9 | 14.9 | 19.2 | 79.9 | 253.7 | 94.2 | 79.4 | 619.1 | 322.8 | 204.8 |
| 84 | HE | 399.3 | 289.8 | 273.8 | 213.2 | 165.6 | 159.4 | 136.8 | 206.7 | 267.3 | 91.8 | 88.4 | 429.2 | 320.2 | 216.8 |
| 85 | HE | 31.7 | 1.0 | 2.1 | 8.7 | 22.3 | 183.4 | 201.1 | 276.3 | 245.9 | 143.7 | 69.9 | 954.9 | 339.6 | 135.3 |
| 86 | HE | 323.5 | 312.4 | 207.0 | 154.4 | 68.4 | 50.7 | 118.6 | 107.3 | 272.3 | 100.2 | 85.6 | 502.5 | 331.0 | 214.4 |
| 87 | HE | 417.0 | 224.8 | 138.6 | 75.1 | 26.9 | 17.7 | 45.5 | 89.9 | 259.2 | 99.4 | 78.8 | 647.3 | 332.2 | 206.9 |
| 88 | HE | 107.5 | 26.8 | 16.6 | 28.0 | 103.2 | 157.5 | 191.9 | 273.7 | 258.7 | 104.1 | 69.8 | 612.5 | 329.8 | 181.9 |
| 89 | HE | 293.3 | 135.1 | 105.6 | 81.4 | 45.1 | 37.9 | 75.2 | 145.2 | 272.4 | 90.6 | 80.4 | 608.0 | 336.7 | 224.6 |
| 90 | HE | 367.1 | 386.5 | 356.0 | 301.1 | 205.4 | 173.2 | 172.3 | 213.6 | 267.4 | 90.8 | 72.5 | 876.0 | 336.8 | 212.4 |
| 91 | HE | 112.4 | 35.6 | 20.0 | 21.4 | 51.3 | 105.3 | 163.5 | 252.7 | 255.5 | 111.9 | 74.6 | 454.7 | 331.1 | 181.9 |
| 92 | HE | 177.1 | 78.8 | 68.4 | 49.2 | 89.4 | 103.4 | 148.2 | 204.1 | 264.6 | 99.4 | 72.8 | 415.1 | 333.0 | 197.4 |
| 93 | HE | 313.1 | 172.5 | 84.9 | 28.8 | 23.5 | 46.1 | 39.1 | 175.5 | 259.0 | 84.8 | 76.7 | 585.2 | 322.3 | 212.4 |
| 94 | HE | 367.7 | 294.3 | 241.5 | 185.9 | 172.8 | 157.0 | 174.1 | 167.9 | 260.6 | 100.6 | 90.4 | 358.6 | 316.7 | 206.2 |
| 95 | HE | 327.4 | 295.9 | 193.2 | 151.9 | 80.0 | 61.0 | 141.9 | 136.0 | 272.5 | 96.9 | 87.1 | 420.5 | 328.3 | 217.4 |
| 96 | HE | 152.7 | 51.6 | 32.5 | 45.0 | 97.6 | 155.8 | 200.6 | 283.8 | 263.1 | 100.1 | 75.2 | 381.2 | 330.1 | 197.8 |
| 97 | HE | 110.3 | 23.5 | 19.1 | 27.8 | 106.5 | 159.6 | 192.8 | 239.4 | 258.0 | 106.8 | 73.2 | 574.4 | 329.3 | 184.6 |
| 98 | HE | 71.8 | 25.2 | 16.5 | 8.4 | 10.8 | 29.5 | 101.2 | 221.1 | 244.3 | 112.5 | 81.0 | 314.6 | 315.6 | 177.5 |
| 99 | HE | 261.1 | 123.4 | 81.6 | 26.9 | 13.8 | 10.3 | 38.8 | 84.3 | 267.6 | 96.3 | 85.1 | 448.7 | 328.6 | 216.4 |
| 100 | HE | 103.9 | 47.8 | 40.7 | 30.6 | 98.1 | 135.0 | 214.2 | 242.9 | 262.2 | 108.9 | 67.6 | 413.4 | 341.4 | 181.3 |
| 101 | HE | 163.8 | 71.3 | 75.9 | 59.1 | 79.2 | 108.0 | 159.1 | 210.2 | 267.4 | 100.5 | 75.6 | 455.8 | 334.5 | 202.4 |
| 102 | HE | 140.4 | 64.6 | 55.2 | 50.4 | 51.6 | 91.2 | 150.6 | 210.7 | 260.0 | 102.1 | 78.0 | 503.9 | 326.3 | 196.1 |
| 103 | HE | 110.0 | 39.8 | 21.4 | 25.3 | 95.5 | 144.8 | 212.6 | 282.4 | 260.7 | 104.7 | 70.1 | 521.1 | 334.6 | 186.1 |
| 104 | HE | 89.0 | 32.5 | 19.2 | 38.4 | 77.3 | 135.7 | 176.1 | 218.8 | 260.3 | 106.5 | 77.4 | 499.9 | 326.2 | 189.5 |
| 105 | HE | 85.0 | 28.0 | 16.4 | 11.2 | 11.6 | 31.5 | 101.6 | 205.4 | 247.7 | 113.6 | 82.1 | 302.4 | 317.8 | 180.3 |
| 106 | HE | 166.3 | 71.2 | 66.6 | 48.2 | 87.6 | 117.2 | 166.3 | 222.6 | 265.7 | 102.9 | 73.6 | 444.4 | 335.8 | 197.0 |
| 107 | HE | 105.1 | 31.6 | 19.3 | 32.2 | 92.0 | 146.2 | 198.0 | 277.4 | 260.4 | 102.9 | 70.2 | 572.9 | 331.4 | 185.6 |
| 108 | HE | 60.3 | 29.9 | 23.2 | 19.9 | 80.0 | 149.8 | 254.3 | 300.8 | 256.0 | 122.6 | 68.6 | 471.6 | 346.4 | 168.8 |
| 109 | HE | 107.9 | 26.1 | 11.9 | 26.4 | 105.9 | 163.8 | 202.5 | 276.0 | 256.7 | 107.4 | 69.9 | 574.1 | 330.8 | 178.1 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | HE | 109.6 | 35.0 | 24.1 | 43.1 | 115.6 | 175.0 | 246.6 | 264.0 | 258.5 | 108.5 | 67.6 | 414.9 | 336.7 | 177.3 |
| 111 | HE | 97.4 | 26.2 | 23.1 | 35.3 | 53.3 | 93.3 | 157.8 | 219.4 | 249.3 | 116.0 | 74.7 | 727.8 | 318.3 | 164.1 |
| 112 | HE | 125.6 | 64.6 | 34.4 | 46.7 | 77.9 | 129.2 | 163.6 | 217.5 | 251.8 | 116.4 | 79.9 | 592.5 | 318.4 | 173.5 |
| 113 | HE | 230.3 | 87.7 | 84.0 | 55.5 | 21.4 | 8.8 | 29.3 | 46.2 | 257.6 | 91.0 | 81.0 | 644.0 | 321.0 | 209.4 |
| 114 | HE | 196.3 | 90.4 | 86.3 | 84.0 | 89.1 | 96.6 | 142.2 | 216.8 | 268.1 | 93.8 | 76.0 | 408.7 | 330.8 | 208.0 |
| 115 | HE | 123.3 | 61.5 | 27.8 | 32.0 | 86.1 | 136.5 | 159.7 | 209.0 | 254.2 | 113.2 | 79.7 | 548.8 | 320.1 | 178.8 |
| 116 | HE | 380.7 | 352.5 | 220.1 | 178.3 | 84.2 | 69.4 | 108.1 | 109.3 | 262.7 | 105.2 | 87.8 | 490.9 | 323.6 | 204.1 |
| 117 | HE | 107.9 | 33.6 | 35.6 | 46.0 | 60.8 | 109.6 | 176.0 | 249.9 | 254.2 | 112.2 | 77.0 | 608.2 | 320.4 | 175.7 |
| 118 | HE | 98.4 | 28.9 | 21.1 | 35.0 | 55.0 | 90.2 | 151.2 | 215.7 | 249.9 | 116.2 | 74.4 | 746.5 | 319.2 | 164.4 |
| 119 | HE | 253.2 | 123.2 | 92.7 | 63.7 | 31.0 | 31.5 | 76.5 | 139.5 | 270.6 | 88.7 | 80.6 | 604.0 | 333.0 | 223.7 |
| 120 | HE | 159.0 | 63.7 | 58.8 | 36.8 | 25.0 | 30.4 | 68.7 | 135.5 | 258.6 | 97.6 | 79.6 | 527.9 | 322.1 | 200.1 |
| 121 | HE | 86.0 | 27.3 | 15.2 | 9.7 | 9.6 | 26.2 | 94.4 | 205.4 | 251.4 | 110.6 | 82.4 | 307.3 | 319.6 | 186.4 |
| 122 | HE | 260.8 | 149.2 | 111.6 | 113.9 | 142.0 | 172.3 | 247.0 | 321.7 | 264.9 | 89.7 | 83.6 | 304.0 | 319.5 | 212.8 |
| 123 | HE | 101.6 | 31.4 | 18.4 | 41.1 | 101.6 | 170.0 | 216.9 | 277.6 | 260.0 | 112.6 | 65.6 | 426.4 | 343.0 | 172.8 |
| 124 | HE | 196.0 | 83.0 | 56.7 | 74.4 | 123.1 | 178.3 | 215.9 | 338.9 | 264.5 | 96.4 | 78.2 | 307.8 | 326.7 | 204.1 |
| 125 | HE | 94.7 | 19.2 | 13.0 | 36.4 | 112.5 | 186.9 | 241.0 | 293.2 | 256.6 | 114.3 | 67.2 | 447.3 | 339.1 | 170.3 |
| 126 | HE | 262.2 | 126.9 | 107.0 | 67.8 | 42.3 | 39.0 | 75.7 | 147.9 | 271.3 | 88.6 | 80.8 | 567.3 | 333.0 | 224.0 |
| 127 | HE | 95.0 | 20.0 | 5.0 | 22.0 | 106.0 | 190.0 | 226.0 | 291.0 | 254.0 | 112.0 | 70.0 | 532.0 | 332.0 | 172.0 |
| 128 | HE | 70.0 | 25.0 | 3.0 | 14.0 | 95.0 | 171.0 | 223.0 | 248.0 | 252.0 | 114.0 | 69.0 | 528.0 | 333.0 | 169.0 |
| 129 | HE | 103.6 | 34.3 | 19.8 | 29.1 | 104.5 | 154.2 | 210.1 | 280.3 | 259.4 | 105.5 | 69.5 | 537.4 | 333.7 | 182.8 |
| 130 | HE | 101.4 | 29.0 | 15.4 | 45.1 | 81.0 | 155.2 | 193.0 | 252.2 | 260.7 | 102.0 | 72.0 | 589.3 | 329.5 | 188.9 |
| 131 | HE | 93.0 | 23.0 | 7.0 | 24.0 | 109.0 | 187.0 | 223.0 | 287.0 | 254.0 | 111.0 | 69.0 | 560.0 | 332.0 | 172.0 |
| 132 | HE | 92.8 | 19.2 | 4.6 | 21.8 | 105.4 | 192.8 | 228.0 | 292.0 | 253.2 | 112.4 | 70.0 | 529.6 | 331.6 | 171.2 |
| 133 | HE | 94.0 | 22.0 | 6.0 | 23.0 | 108.0 | 187.0 | 223.0 | 287.0 | 254.0 | 111.0 | 69.0 | 551.0 | 332.0 | 173.0 |
| 134 | HE | 102.0 | 25.0 | 18.3 | 39.0 | 85.3 | 164.0 | 180.7 | 236.7 | 260.0 | 103.3 | 72.3 | 630.3 | 328.0 | 186.0 |
| 135 | HE | 95.0 | 18.0 | 4.0 | 21.0 | 105.0 | 191.0 | 227.0 | 291.0 | 254.0 | 112.0 | 70.0 | 525.0 | 332.0 | 172.0 |
| 136 | HE | 396.9 | 210.5 | 91.9 | 28.3 | 16.9 | 34.2 | 53.8 | 205.0 | 259.1 | 87.5 | 75.4 | 562.1 | 324.7 | 209.1 |
| 137 | HE | 89.6 | 36.5 | 10.7 | 14.7 | 52.2 | 95.3 | 154.5 | 250.7 | 254.1 | 117.6 | 74.4 | 434.3 | 333.9 | 176.6 |
| 138 | HE | 88.9 | 19.6 | 11.2 | 26.6 | 106.8 | 178.5 | 237.3 | 300.8 | 255.6 | 112.5 | 68.0 | 465.9 | 336.3 | 172.3 |
| 139 | HE | 184.5 | 111.7 | 116.5 | 95.4 | 79.3 | 88.9 | 129.2 | 183.7 | 269.5 | 90.9 | 78.8 | 429.4 | 329.3 | 214.7 |
| 140 | HE | 287.2 | 125.7 | 103.3 | 62.7 | 22.7 | 15.6 | 24.2 | 63.1 | 256.9 | 91.5 | 80.6 | 638.3 | 321.9 | 209.0 |
| 141 | HE | 286.3 | 152.2 | 130.2 | 118.5 | 93.7 | 100.2 | 152.7 | 213.3 | 270.6 | 86.0 | 82.0 | 446.0 | 326.6 | 222.6 |
| 142 | HE | 94.4 | 22.1 | 14.8 | 38.3 | 105.9 | 180.1 | 232.3 | 282.4 | 256.4 | 115.0 | 66.6 | 444.7 | 340.1 | 168.6 |
| 143 | HE | 170.7 | 69.7 | 53.8 | 58.4 | 105.8 | 153.4 | 211.2 | 313.0 | 263.4 | 96.7 | 76.9 | 355.6 | 327.9 | 202.8 |
| 144 | HE | 365.2 | 173.4 | 122.3 | 84.1 | 39.2 | 26.7 | 56.6 | 117.0 | 266.5 | 95.8 | 79.7 | 628.2 | 335.8 | 216.2 |
| 145 | HE | 345.1 | 320.8 | 172.3 | 78.1 | 25.3 | 43.3 | 91.5 | 160.9 | 257.6 | 84.4 | 78.2 | 595.0 | 320.2 | 213.0 |
| 146 | HE | 166.2 | 241.6 | 170.3 | 125.8 | 56.8 | 41.6 | 48.7 | 51.5 | 264.8 | 101.3 | 82.2 | 558.5 | 328.2 | 205.9 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 147 | HE | 163.1 | 266.1 | 229.6 | 195.3 | 95.0 | 65.2 | 55.9 | 42.2 | 257.3 | 98.1 | 80.6 | 561.8 | 321.3 | 200.8 |
| 148 | HE | 176.0 | 264.0 | 234.8 | 169.8 | 83.4 | 61.8 | 59.8 | 45.8 | 260.2 | 98.8 | 83.0 | 533.4 | 321.8 | 203.4 |
| 149 | HE | 387.3 | 544.0 | 456.4 | 402.1 | 230.5 | 189.4 | 144.8 | 59.6 | 273.7 | 104.4 | 72.9 | 936.9 | 355.6 | 213.4 |
| 150 | HE | 243.7 | 377.3 | 278.8 | 228.1 | 125.5 | 94.5 | 99.3 | 89.0 | 232.2 | 102.2 | 84.6 | 419.5 | 293.8 | 173.5 |
| 151 | HE | 164.4 | 278.1 | 264.6 | 246.0 | 119.6 | 76.0 | 64.6 | 34.8 | 258.9 | 102.1 | 81.8 | 564.5 | 325.6 | 201.4 |
| 152 | HE | 335.8 | 449.2 | 416.1 | 345.3 | 212.4 | 148.3 | 160.8 | 143.6 | 252.6 | 104.2 | 81.9 | 431.7 | 318.0 | 191.3 |
| 153 | HE | 184.0 | 255.1 | 190.6 | 151.9 | 69.9 | 62.1 | 81.0 | 90.4 | 260.4 | 89.8 | 81.7 | 524.8 | 317.0 | 207.7 |
| 154 | HE | 216.3 | 386.2 | 343.4 | 296.6 | 157.7 | 99.2 | 88.3 | 52.1 | 258.4 | 99.7 | 82.9 | 499.0 | 322.2 | 202.6 |
| 155 | HE | 473.3 | 620.7 | 509.0 | 398.4 | 257.4 | 180.3 | 156.9 | 90.9 | 258.0 | 105.7 | 77.9 | 792.7 | 334.1 | 199.1 |
| 156 | HE | 524.0 | 442.0 | 157.0 | 53.0 | 11.0 | 27.0 | 112.0 | 267.0 | 264.0 | 77.0 | 74.0 | 510.0 | 323.0 | 220.0 |
| 157 | HE | 471.0 | 614.0 | 502.0 | 391.0 | 250.0 | 171.0 | 156.0 | 97.0 | 276.0 | 104.0 | 78.0 | 856.0 | 352.0 | 219.0 |
| 158 | HE | 76.0 | 91.5 | 29.5 | 58.5 | 24.0 | 87.8 | 98.8 | 127.0 | 228.3 | 109.0 | 64.3 | 2089.0 | 304.5 | 136.0 |
| 159 | HE | 418.3 | 518.8 | 411.3 | 320.4 | 200.0 | 156.8 | 166.9 | 146.8 | 241.6 | 105.6 | 84.9 | 405.7 | 305.9 | 182.2 |
| 160 | HE | 220.2 | 283.8 | 192.2 | 111.2 | 37.4 | 24.0 | 41.0 | 87.4 | 273.2 | 81.0 | 80.2 | 563.0 | 326.4 | 225.8 |
| 161 | HE | 223.6 | 308.6 | 155.8 | 93.4 | 33.8 | 30.6 | 55.2 | 97.0 | 267.6 | 80.4 | 76.4 | 630.2 | 326.0 | 222.0 |
| 162 | HE | 262.5 | 323.2 | 166.7 | 80.8 | 28.7 | 32.8 | 54.5 | 109.0 | 265.7 | 80.3 | 74.5 | 679.2 | 326.5 | 219.5 |
| 163 | HE | 349.9 | 326.6 | 184.5 | 101.3 | 29.4 | 31.5 | 65.1 | 134.0 | 257.3 | 84.6 | 76.6 | 672.1 | 321.0 | 211.0 |
| 164 | HE | 98.1 | 58.5 | 48.1 | 55.7 | 77.8 | 138.1 | 198.0 | 236.5 | 250.5 | 115.4 | 76.3 | 635.6 | 320.4 | 170.0 |
| 165 | HE | 161.4 | 83.6 | 89.7 | 73.3 | 70.2 | 90.0 | 143.8 | 199.2 | 267.9 | 95.6 | 78.7 | 464.5 | 330.8 | 210.0 |
| 166 | HE | 64.2 | 72.2 | 30.8 | 64.1 | 31.6 | 80.0 | 95.2 | 135.0 | 207.2 | 118.0 | 68.1 | 1815.7 | 283.3 | 111.3 |
| 167 | HE | 282.9 | 150.5 | 110.0 | 92.4 | 92.1 | 100.6 | 141.1 | 261.1 | 272.4 | 86.4 | 83.6 | 394.5 | 327.5 | 224.7 |
| 168 | HE | 153.7 | 108.6 | 88.1 | 95.5 | 107.1 | 200.8 | 243.9 | 397.5 | 238.6 | 103.8 | 73.9 | 1097.9 | 304.9 | 165.1 |
| 169 | HE | 427.6 | 232.6 | 125.3 | 54.6 | 17.7 | 26.0 | 57.8 | 148.2 | 251.1 | 91.1 | 76.4 | 517.3 | 318.6 | 199.9 |
| 170 | HE | 101.8 | 25.2 | 15.5 | 29.3 | 115.5 | 185.2 | 239.2 | 313.0 | 257.1 | 109.7 | 68.7 | 468.3 | 335.2 | 176.8 |
| 171 | HE | 284.8 | 431.3 | 303.1 | 257.7 | 145.9 | 113.2 | 126.5 | 120.0 | 220.5 | 104.0 | 85.0 | 383.9 | 282.5 | 160.8 |
| 172 | HE | 81.4 | 68.7 | 59.6 | 65.6 | 61.7 | 119.7 | 154.6 | 229.5 | 191.7 | 135.3 | 67.0 | 1898.7 | 280.1 | 80.0 |
| 173 | HE | 207.0 | 225.9 | 209.8 | 195.6 | 126.2 | 103.8 | 126.8 | 131.9 | 149.2 | 106.6 | 88.4 | 359.4 | 210.1 | 90.3 |
| 174 | HE | 192.1 | 146.7 | 94.0 | 148.3 | 140.0 | 192.7 | 227.3 | 226.2 | 238.5 | 129.5 | 84.5 | 494.2 | 311.5 | 159.2 |
| 175 | HE | 419.4 | 222.3 | 119.9 | 47.6 | 16.2 | 24.3 | 56.4 | 157.2 | 251.0 | 92.4 | 75.2 | 513.1 | 319.6 | 197.3 |
| 176 | HE | 635.8 | 347.8 | 112.6 | 27.7 | 9.1 | 18.4 | 90.6 | 290.9 | 261.4 | 89.1 | 73.0 | 507.3 | 329.2 | 207.9 |
| 177 | HE | 143.7 | 49.6 | 46.4 | 39.1 | 73.6 | 129.7 | 195.7 | 277.9 | 260.3 | 107.6 | 73.9 | 459.1 | 333.4 | 188.6 |
| 178 | HE | 350.8 | 373.5 | 323.4 | 255.3 | 207.6 | 174.7 | 187.0 | 159.4 | 259.1 | 92.5 | 81.2 | 664.0 | 316.5 | 203.1 |
| 179 | HE | 360.7 | 392.5 | 286.1 | 287.6 | 198.9 | 190.4 | 223.7 | 214.3 | 213.9 | 106.1 | 83.2 | 551.9 | 282.6 | 155.9 |
| 180 | HE | 330.9 | 192.9 | 162.7 | 155.8 | 126.6 | 117.7 | 190.2 | 308.6 | 267.4 | 91.2 | 86.1 | 322.7 | 322.7 | 217.6 |
| 181 | HE | 95.9 | 28.1 | 17.7 | 38.9 | 97.0 | 167.9 | 215.1 | 282.4 | 259.0 | 115.3 | 65.7 | 443.0 | 343.9 | 169.8 |
| 182 | HE | 452.9 | 510.6 | 298.7 | 166.8 | 53.8 | 37.7 | 58.8 | 94.6 | 242.0 | 87.3 | 80.7 | 514.4 | 297.8 | 190.3 |
| 183 | HE | 211.4 | 261.0 | 216.2 | 209.0 | 153.5 | 113.0 | 123.4 | 124.9 | 141.4 | 105.1 | 82.6 | 611.1 | 208.5 | 82.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 184 | HE | 91.4 | 60.8 | 49.8 | 58.7 | 68.8 | 129.1 | 158.9 | 262.9 | 215.4 | 104.3 | 71.8 | 1180.7 | 283.2 | 138.9 |
| 185 | HE | 115.8 | 80.1 | 69.0 | 87.0 | 115.1 | 182.0 | 206.8 | 278.5 | 235.1 | 121.3 | 78.3 | 678.6 | 308.3 | 154.4 |
| 186 | HE | 100.1 | 29.2 | 18.4 | 38.2 | 79.2 | 149.5 | 181.1 | 233.2 | 261.5 | 103.6 | 75.2 | 515.4 | 329.2 | 192.2 |
| 187 | HE | 393.7 | 180.3 | 105.0 | 43.5 | 19.2 | 29.0 | 41.6 | 152.9 | 253.3 | 92.2 | 76.0 | 563.8 | 322.0 | 201.4 |
| 188 | HE | 282.1 | 323.2 | 213.9 | 127.3 | 52.7 | 42.7 | 45.2 | 53.1 | 200.8 | 99.5 | 83.6 | 377.6 | 262.5 | 144.1 |
| 189 | HE | 220.7 | 77.3 | 62.0 | 76.9 | 109.1 | 162.1 | 209.1 | 379.5 | 263.4 | 93.1 | 79.3 | 343.1 | 324.2 | 207.4 |
| 190 | HE | 353.9 | 398.6 | 345.8 | 311.5 | 176.8 | 128.9 | 147.2 | 148.6 | 196.2 | 98.5 | 89.8 | 284.7 | 251.2 | 142.4 |
| 191 | HE | 258.7 | 208.3 | 156.7 | 154.5 | 148.5 | 157.6 | 176.3 | 258.2 | 257.0 | 92.4 | 85.5 | 396.3 | 309.1 | 201.8 |
| 192 | HE | 341.8 | 252.2 | 242.9 | 185.3 | 185.4 | 159.1 | 210.6 | 383.4 | 261.1 | 88.4 | 84.3 | 496.0 | 313.4 | 209.1 |
| 193 | HE | 211.9 | 191.1 | 174.9 | 149.2 | 96.4 | 117.0 | 157.8 | 164.4 | 153.4 | 97.6 | 91.1 | 246.4 | 207.0 | 100.4 |
| 194 | HE | 279.1 | 272.1 | 190.5 | 196.2 | 128.6 | 159.0 | 201.8 | 127.0 | 202.4 | 92.4 | 86.2 | 366.2 | 256.1 | 149.4 |
| 195 | HE | 312.5 | 368.5 | 334.0 | 287.5 | 157.5 | 118.0 | 139.0 | 143.0 | 145.0 | 95.5 | 87.5 | 419.5 | 199.5 | 91.0 |
| 196 | HE | 359.3 | 390.8 | 340.2 | 295.7 | 219.1 | 183.1 | 193.4 | 155.3 | 257.3 | 91.2 | 81.6 | 643.7 | 314.8 | 203.8 |
| 197 | HE | 347.3 | 257.0 | 226.4 | 159.4 | 161.1 | 170.1 | 210.1 | 347.7 | 256.7 | 89.3 | 87.4 | 415.2 | 307.1 | 205.1 |
| 198 | HE | 385.4 | 439.1 | 368.4 | 329.1 | 185.0 | 141.5 | 169.3 | 183.4 | 198.4 | 101.0 | 90.7 | 255.9 | 254.0 | 143.5 |
| 199 | HE | 367.6 | 312.2 | 302.3 | 277.7 | 212.9 | 171.7 | 184.5 | 193.2 | 263.3 | 89.1 | 76.4 | 742.2 | 323.2 | 207.2 |
| 200 | HE | 421.5 | 433.7 | 375.3 | 346.1 | 217.9 | 212.1 | 214.0 | 117.1 | 258.6 | 97.6 | 76.7 | 746.7 | 325.0 | 198.5 |
| 201 | HE | 263.7 | 311.5 | 257.7 | 219.0 | 124.3 | 146.2 | 181.5 | 127.5 | 110.0 | 83.2 | 81.5 | 355.7 | 161.5 | 60.0 |
| 202 | HE | 465.6 | 448.4 | 334.2 | 313.6 | 208.7 | 209.0 | 215.5 | 137.3 | 260.1 | 104.6 | 82.3 | 562.4 | 325.0 | 198.6 |
| 203 | HE | 331.5 | 266.1 | 230.0 | 184.1 | 177.8 | 176.8 | 216.6 | 312.9 | 258.2 | 88.3 | 86.3 | 463.0 | 309.4 | 207.4 |
| 204 | HE | 48.6 | 17.0 | 8.4 | 13.3 | 42.3 | 109.1 | 147.5 | 201.9 | 239.0 | 131.2 | 70.7 | 994.5 | 322.6 | 138.5 |
| 205 | HE | 75.6 | 33.9 | 43.4 | 65.0 | 108.8 | 145.6 | 171.8 | 232.5 | 175.7 | 152.5 | 78.3 | 784.1 | 266.2 | 72.4 |
| 206 | HE | 84.2 | 14.4 | 12.1 | 30.1 | 89.8 | 141.5 | 165.8 | 189.9 | 244.8 | 121.8 | 72.3 | 523.8 | 329.5 | 162.2 |
| 207 | HE | 408.5 | 348.7 | 259.3 | 214.8 | 170.3 | 163.5 | 175.2 | 163.4 | 243.7 | 105.1 | 90.2 | 342.1 | 303.6 | 187.6 |
| 208 | HE | 371.5 | 303.3 | 263.2 | 203.0 | 185.6 | 167.9 | 164.1 | 210.0 | 261.3 | 95.8 | 89.4 | 382.5 | 315.8 | 209.3 |
| 209 | HE | 123.4 | 126.3 | 127.7 | 83.2 | 64.4 | 88.1 | 90.2 | 113.0 | 155.6 | 109.0 | 86.2 | 386.5 | 222.0 | 96.2 |
| 210 | HE | 81.2 | 47.4 | 26.8 | 49.5 | 62.8 | 113.1 | 119.9 | 122.5 | 167.0 | 139.2 | 83.2 | 623.3 | 243.2 | 76.7 |
| 211 | HE | 68.6 | 24.3 | 22.4 | 26.6 | 94.3 | 169.5 | 284.7 | 316.7 | 255.6 | 122.4 | 66.4 | 464.5 | 347.5 | 164.6 |
| 212 | HE | 252.6 | 294.5 | 233.8 | 227.0 | 165.6 | 129.1 | 124.0 | 137.0 | 146.1 | 107.9 | 85.5 | 455.3 | 212.3 | 86.7 |
| 213 | HE | 75.5 | 15.5 | 5.9 | 17.0 | 57.8 | 120.5 | 125.0 | 169.5 | 258.7 | 117.9 | 72.7 | 624.9 | 340.0 | 178.8 |
| 214 | HE | 323.5 | 278.5 | 190.3 | 157.7 | 99.6 | 83.1 | 143.9 | 130.8 | 266.9 | 100.3 | 88.6 | 407.5 | 323.5 | 210.8 |
| 215 | HE | 165.5 | 104.8 | 62.0 | 81.2 | 111.1 | 147.2 | 201.0 | 274.9 | 256.6 | 106.2 | 75.9 | 588.4 | 322.7 | 183.6 |
| 216 | HE | 91.3 | 26.9 | 21.4 | 14.3 | 20.8 | 50.3 | 117.6 | 195.7 | 249.2 | 115.6 | 79.8 | 354.6 | 321.6 | 177.7 |
| 217 | HE | 403.0 | 353.7 | 295.3 | 229.9 | 225.9 | 189.6 | 183.2 | 207.7 | 252.9 | 104.7 | 90.8 | 374.6 | 312.2 | 197.5 |
| 218 | HE | 417.0 | 489.9 | 424.0 | 377.5 | 262.6 | 184.0 | 228.0 | 230.8 | 185.7 | 111.2 | 88.0 | 413.9 | 249.7 | 124.0 |
| 219 | HE | 138.0 | 97.0 | 64.5 | 91.5 | 96.0 | 156.0 | 203.0 | 226.5 | 221.0 | 135.5 | 86.0 | 471.5 | 295.5 | 138.5 |
| 220 | HE | 34.4 | 28.7 | 17.2 | 26.4 | 46.2 | 68.9 | 82.7 | 126.8 | 76.7 | 156.6 | 71.7 | 1377.2 | 176.9 | -40.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 221 | HE | 328.2 | 316.3 | 201.6 | 148.4 | 78.2 | 58.8 | 133.0 | 129.7 | 272.8 | 98.7 | 86.2 | 477.0 | 330.2 | 216.3 |
| 222 | HE | 32.1 | 16.7 | 16.4 | 39.9 | 61.0 | 84.1 | 76.1 | 137.2 | 164.9 | 134.2 | 73.8 | 1118.2 | 247.1 | 66.7 |
| 223 | HE | 176.7 | 122.3 | 75.5 | 73.4 | 101.0 | 196.8 | 234.6 | 404.3 | 248.9 | 113.4 | 63.0 | 1868.9 | 325.1 | 146.8 |
| 224 | HE | 78.1 | 69.0 | 75.8 | 42.5 | 34.6 | 63.3 | 57.2 | 85.4 | 127.7 | 115.3 | 88.6 | 248.2 | 193.6 | 64.2 |
| 225 | HE | 105.9 | 52.4 | 42.2 | 81.4 | 106.3 | 169.0 | 194.5 | 273.1 | 187.9 | 138.4 | 81.7 | 645.5 | 265.5 | 96.9 |
| 226 | HE | 587.7 | 601.8 | 469.4 | 381.6 | 275.0 | 210.2 | 164.2 | 109.5 | 272.6 | 108.8 | 81.3 | 706.0 | 345.4 | 212.3 |
| 227 | HE | 366.7 | 391.0 | 304.8 | 271.7 | 221.4 | 209.7 | 230.2 | 225.4 | 252.5 | 96.7 | 85.7 | 519.7 | 309.2 | 197.2 |
| 228 | HE | 98.0 | 27.5 | 32.5 | 39.4 | 55.1 | 107.1 | 174.2 | 234.6 | 250.7 | 114.8 | 75.4 | 677.0 | 319.1 | 167.6 |
| 229 | HE | 47.8 | 14.1 | 6.2 | 13.6 | 47.4 | 125.3 | 149.6 | 189.1 | 242.3 | 128.9 | 70.9 | 784.6 | 327.2 | 146.6 |
| 230 | HE | 51.9 | 14.8 | 12.6 | 14.3 | 82.4 | 164.4 | 292.0 | 324.3 | 254.0 | 138.8 | 68.1 | 604.0 | 358.7 | 156.8 |
| 231 | HE | 85.6 | 19.8 | 12.0 | 25.0 | 84.9 | 143.2 | 151.2 | 186.3 | 255.0 | 112.0 | 74.1 | 587.8 | 331.4 | 181.2 |
| 232 | HE | 90.0 | 17.7 | 10.6 | 29.2 | 108.6 | 182.2 | 238.8 | 300.4 | 254.2 | 113.4 | 68.0 | 459.3 | 335.6 | 170.0 |
| 233 | HE | 79.8 | 16.7 | 11.0 | 33.1 | 91.7 | 170.6 | 218.7 | 275.4 | 256.1 | 118.4 | 66.4 | 465.9 | 342.2 | 165.2 |
| 234 | HE | 233.5 | 126.4 | 87.0 | 82.3 | 121.0 | 151.8 | 229.5 | 332.2 | 266.4 | 89.6 | 80.8 | 393.7 | 323.5 | 213.2 |
| 235 | HE | 218.0 | 95.3 | 68.3 | 30.0 | 9.3 | 6.3 | 20.0 | 62.0 | 268.0 | 85.3 | 80.7 | 622.7 | 326.0 | 221.3 |
| 236 | HE | 320.6 | 172.9 | 132.6 | 110.3 | 99.1 | 101.6 | 131.1 | 250.1 | 269.7 | 89.1 | 84.8 | 361.0 | 325.1 | 220.7 |
| 237 | HE | 241.1 | 126.2 | 104.2 | 96.8 | 94.4 | 100.9 | 156.2 | 255.5 | 271.8 | 85.1 | 82.5 | 435.7 | 327.0 | 224.4 |
| 238 | HE | 341.2 | 298.6 | 205.1 | 177.2 | 146.4 | 138.5 | 178.1 | 118.8 | 259.7 | 102.2 | 90.4 | 369.5 | 316.8 | 204.2 |
| 239 | HE | 56.9 | 22.2 | 19.0 | 4.0 | 5.7 | 14.4 | 74.2 | 173.7 | 253.1 | 109.9 | 76.0 | 309.3 | 326.0 | 182.5 |
| 240 | HE | 60.2 | 11.8 | 4.9 | 13.0 | 45.4 | 103.1 | 127.8 | 175.4 | 256.3 | 122.4 | 72.4 | 683.3 | 341.8 | 173.7 |
| 241 | HE | 94.2 | 23.8 | 15.5 | 39.0 | 99.8 | 174.5 | 220.8 | 282.0 | 257.3 | 115.7 | 65.9 | 445.0 | 342.3 | 168.0 |
| 242 | HE | 206.0 | 101.0 | 89.0 | 78.0 | 75.0 | 91.0 | 153.0 | 220.0 | 272.0 | 84.0 | 82.0 | 480.0 | 328.0 | 226.0 |
| 243 | HE | 77.4 | 20.4 | 9.2 | 20.7 | 97.1 | 164.6 | 229.1 | 284.3 | 254.8 | 113.1 | 68.1 | 478.5 | 335.7 | 171.1 |
| 244 | HE | 188.3 | 86.3 | 66.0 | 32.0 | 34.5 | 64.8 | 47.8 | 202.0 | 268.0 | 93.5 | 88.8 | 290.3 | 323.3 | 218.5 |
| 245 | HE | 31.1 | 5.0 | 3.0 | 6.0 | 37.4 | 139.4 | 227.7 | 349.4 | 256.2 | 137.6 | 71.3 | 518.2 | 352.0 | 160.4 |
| 246 | HE | 94.4 | 41.9 | 22.1 | 22.7 | 32.4 | 66.7 | 121.3 | 194.3 | 257.0 | 118.7 | 67.7 | 1348.6 | 337.7 | 164.2 |
| 247 | HE | 123.4 | 77.3 | 44.2 | 37.3 | 43.0 | 98.3 | 121.9 | 205.8 | 250.8 | 111.0 | 63.6 | 1764.7 | 326.5 | 153.1 |
| 248 | HE | 276.0 | 150.0 | 84.0 | 41.3 | 33.0 | 73.5 | 43.0 | 155.8 | 260.5 | 85.0 | 78.8 | 597.3 | 322.5 | 215.3 |
| 249 | HE | 56.0 | 15.5 | 6.0 | 12.1 | 41.1 | 89.3 | 134.0 | 193.7 | 253.4 | 124.9 | 71.8 | 831.9 | 337.7 | 164.7 |
| 250 | HE | 30.0 | 4.0 | 2.0 | 4.5 | 34.8 | 170.8 | 235.0 | 256.8 | 250.0 | 142.0 | 68.0 | 850.8 | 351.0 | 144.3 |
| 251 | HE | 101.0 | 72.0 | 63.5 | 50.5 | 55.0 | 97.0 | 145.5 | 248.5 | 238.0 | 105.0 | 71.5 | 1227.5 | 307.0 | 161.5 |
| 252 | HE | 55.0 | 24.0 | 14.0 | 5.0 | 8.0 | 28.0 | 93.0 | 220.0 | 253.0 | 113.0 | 79.0 | 321.0 | 326.0 | 184.0 |
| 253 | HE | 59.9 | 36.5 | 31.6 | 66.0 | 96.1 | 133.8 | 131.7 | 213.1 | 214.5 | 113.1 | 71.0 | 1212.8 | 288.7 | 130.8 |
| 254 | HE | 510.3 | 412.8 | 155.3 | 56.0 | 16.9 | 33.6 | 120.6 | 265.7 | 257.8 | 83.9 | 75.5 | 463.6 | 320.0 | 209.4 |
| 255 | HE | 200.5 | 163.5 | 106.0 | 126.5 | 93.5 | 135.5 | 192.0 | 106.5 | 145.5 | 78.0 | 90.0 | 245.0 | 189.0 | 103.0 |
| 256 | HE | 422.0 | 482.0 | 317.0 | 393.0 | 306.0 | 237.0 | 201.0 | 108.0 | 265.0 | 98.0 | 77.0 | 706.0 | 335.0 | 209.0 |
| 257 | HE | 448.5 | 425.0 | 379.0 | 389.5 | 261.5 | 228.5 | 209.5 | 128.0 | 270.0 | 96.0 | 73.5 | 888.5 | 341.5 | 212.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 258 | HE | 279.6 | 274.6 | 219.4 | 191.6 | 130.0 | 120.0 | 151.6 | 138.8 | 120.0 | 88.0 | 86.6 | 376.6 | 172.8 | 71.6 |
| 259 | HE | 304.0 | 336.0 | 301.3 | 271.7 | 150.7 | 118.7 | 133.3 | 132.0 | 173.0 | 98.0 | 90.3 | 293.7 | 226.7 | 119.0 |
| 260 | HE | 418.5 | 503.2 | 374.9 | 295.2 | 179.4 | 150.4 | 188.7 | 200.8 | 246.9 | 105.7 | 86.0 | 369.3 | 309.4 | 187.3 |
| 261 | HE | 279.0 | 284.8 | 128.8 | 41.8 | 13.0 | 18.5 | 60.8 | 136.3 | 265.5 | 82.0 | 77.3 | 609.0 | 326.5 | 220.8 |
| 262 | HE | 345.3 | 262.9 | 188.3 | 175.1 | 170.3 | 208.1 | 243.3 | 336.8 | 260.5 | 92.9 | 86.5 | 351.2 | 315.2 | 208.4 |
| 263 | HE | 603.3 | 465.5 | 163.3 | 56.8 | 16.0 | 37.3 | 139.8 | 306.3 | 259.3 | 84.5 | 75.0 | 446.0 | 322.5 | 210.0 |
| 264 | HE | 264.8 | 128.1 | 64.0 | 12.3 | 11.0 | 7.7 | 8.3 | 57.4 | 269.1 | 78.2 | 79.3 | 496.1 | 319.9 | 221.8 |
| 265 | HE | 360.5 | 243.9 | 179.4 | 171.8 | 158.6 | 169.7 | 244.6 | 343.4 | 265.8 | 92.2 | 86.7 | 309.5 | 320.4 | 215.0 |
| 266 | HE | 96.6 | 21.1 | 14.4 | 38.0 | 112.0 | 185.8 | 239.5 | 289.3 | 258.2 | 114.0 | 67.0 | 443.4 | 340.9 | 171.7 |
| 267 | HE | 103.3 | 34.1 | 18.0 | 41.6 | 98.4 | 167.8 | 207.5 | 280.5 | 262.2 | 112.6 | 65.0 | 428.5 | 345.8 | 174.0 |
| 268 | HE | 213.5 | 131.2 | 114.6 | 116.7 | 86.0 | 89.5 | 141.5 | 203.9 | 269.9 | 88.0 | 79.6 | 407.7 | 327.3 | 217.0 |
| 269 | HE | 202.9 | 125.4 | 83.2 | 101.0 | 124.5 | 162.8 | 200.5 | 273.0 | 256.0 | 101.0 | 83.9 | 344.8 | 314.6 | 194.8 |
| 270 | HE | 171.4 | 75.8 | 60.9 | 66.5 | 118.5 | 152.4 | 230.4 | 280.2 | 266.5 | 94.8 | 75.0 | 396.3 | 329.8 | 204.2 |
| 271 | HE | 238.6 | 123.5 | 91.9 | 89.2 | 104.3 | 131.4 | 204.4 | 296.0 | 268.3 | 88.9 | 79.8 | 388.5 | 325.8 | 215.0 |
| 272 | HE | 296.1 | 146.0 | 91.6 | 48.5 | 23.6 | 44.9 | 36.2 | 125.9 | 257.3 | 88.0 | 80.4 | 607.9 | 320.3 | 211.5 |
| 273 | HE | 255.8 | 128.2 | 108.6 | 81.2 | 87.4 | 91.7 | 158.7 | 297.0 | 271.5 | 85.2 | 83.1 | 415.7 | 326.5 | 224.3 |
| 274 | HE | 208.3 | 105.0 | 93.7 | 78.3 | 81.5 | 91.0 | 157.7 | 250.3 | 272.7 | 84.0 | 81.8 | 453.3 | 328.0 | 225.8 |
| 275 | HE | 216.0 | 105.7 | 121.7 | 87.0 | 60.9 | 57.8 | 95.4 | 147.3 | 271.0 | 86.1 | 81.2 | 460.4 | 328.6 | 223.3 |
| 276 | HE | 247.1 | 132.6 | 94.7 | 92.5 | 127.2 | 148.2 | 230.6 | 359.0 | 265.9 | 88.9 | 81.6 | 371.9 | 322.6 | 214.3 |
| 277 | HE | 252.1 | 160.4 | 90.1 | 42.2 | 25.0 | 33.8 | 54.6 | 140.0 | 269.6 | 87.6 | 82.2 | 515.7 | 329.3 | 223.2 |
| 278 | HE | 341.0 | 261.6 | 188.7 | 175.4 | 168.6 | 207.8 | 241.3 | 331.6 | 260.1 | 92.7 | 86.4 | 354.2 | 314.7 | 208.0 |
| 279 | HE | 247.0 | 111.0 | 96.9 | 108.7 | 126.3 | 145.6 | 230.4 | 409.2 | 264.6 | 88.7 | 82.9 | 343.6 | 321.0 | 214.7 |
| 280 | HE | 224.8 | 104.8 | 74.1 | 82.5 | 126.1 | 167.3 | 222.7 | 366.5 | 264.5 | 90.9 | 80.7 | 372.1 | 322.5 | 210.4 |
| 281 | HE | 226.0 | 112.1 | 84.4 | 87.3 | 103.3 | 138.2 | 201.4 | 290.2 | 268.1 | 89.9 | 78.8 | 390.3 | 326.6 | 213.4 |
| 282 | HE | 191.3 | 106.7 | 64.0 | 85.7 | 104.4 | 155.1 | 190.6 | 269.7 | 258.7 | 97.5 | 81.6 | 345.9 | 317.7 | 198.9 |
| 283 | HE | 159.2 | 159.5 | 147.9 | 117.6 | 87.2 | 107.5 | 119.9 | 140.1 | 182.6 | 114.4 | 85.5 | 427.9 | 253.4 | 120.4 |
| 284 | HE | 323.3 | 299.1 | 196.0 | 152.3 | 84.1 | 67.0 | 139.0 | 128.4 | 272.5 | 99.4 | 86.9 | 440.4 | 329.5 | 215.9 |
| 285 | HE | 298.7 | 219.4 | 169.7 | 165.1 | 140.7 | 202.7 | 214.4 | 271.6 | 256.5 | 91.2 | 85.0 | 348.4 | 311.2 | 204.5 |
| 286 | HE | 45.0 | 6.0 | 3.0 | 15.0 | 52.0 | 168.5 | 209.5 | 256.5 | 235.5 | 131.0 | 68.0 | 637.5 | 323.5 | 133.0 |
| 287 | HE | 297.3 | 154.7 | 124.8 | 98.2 | 62.5 | 55.4 | 83.6 | 194.4 | 269.8 | 89.2 | 83.3 | 434.6 | 327.1 | 220.4 |
| 288 | HE | 219.8 | 161.0 | 92.5 | 86.5 | 99.0 | 170.0 | 279.3 | 443.5 | 252.0 | 110.3 | 63.0 | 1959.0 | 326.0 | 152.0 |
| 289 | HE | 214.8 | 93.0 | 86.0 | 89.8 | 112.5 | 148.4 | 228.7 | 406.5 | 263.8 | 90.8 | 81.5 | 298.2 | 322.1 | 211.6 |
| 290 | HE | 77.0 | 16.0 | 7.8 | 23.8 | 95.4 | 166.7 | 228.1 | 282.4 | 253.6 | 114.8 | 68.0 | 466.7 | 336.0 | 168.3 |
| 291 | HE | 276.7 | 140.8 | 99.8 | 49.5 | 18.6 | 24.3 | 26.2 | 88.4 | 258.8 | 89.1 | 80.8 | 614.8 | 321.3 | 211.9 |
| 292 | HE | 87.3 | 27.6 | 15.2 | 8.8 | 8.5 | 23.7 | 90.0 | 203.9 | 256.1 | 108.9 | 82.6 | 306.1 | 323.3 | 192.0 |
| 293 | HE | 402.2 | 201.8 | 84.0 | 11.8 | 6.3 | 10.8 | 29.5 | 196.7 | 267.3 | 78.1 | 76.9 | 596.5 | 327.0 | 226.1 |
| 294 | HE | 166.9 | 77.1 | 57.2 | 58.1 | 97.7 | 109.1 | 160.1 | 223.6 | 265.0 | 98.5 | 71.8 | 392.5 | 333.3 | 197.0 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 295 | HE | 94.0 | 33.5 | 15.2 | 12.9 | 29.6 | 59.3 | 122.3 | 211.8 | 251.4 | 113.1 | 77.9 | 416.0 | 324.4 | 179.7 |
| 296 | HE | 363.8 | 371.4 | 218.9 | 173.7 | 75.3 | 61.7 | 89.2 | 105.0 | 266.4 | 106.4 | 88.7 | 484.7 | 327.3 | 207.7 |
| 297 | HE | 89.9 | 17.0 | 5.0 | 13.0 | 61.3 | 116.4 | 129.6 | 194.9 | 262.8 | 114.4 | 70.9 | 653.7 | 343.3 | 182.9 |
| 298 | HE | 90.8 | 25.2 | 19.5 | 33.3 | 80.2 | 147.4 | 172.1 | 214.9 | 260.6 | 105.0 | 75.9 | 563.8 | 328.5 | 190.5 |
| 299 | HE | 305.8 | 351.6 | 283.4 | 262.5 | 209.5 | 154.8 | 195.7 | 202.1 | 161.9 | 107.2 | 85.8 | 484.0 | 226.0 | 101.7 |
| 300 | HE | 86.8 | 18.6 | 7.7 | 18.7 | 73.9 | 133.0 | 134.5 | 180.6 | 259.4 | 112.2 | 71.9 | 620.9 | 337.7 | 182.8 |
| 301 | HE | 415.6 | 430.6 | 364.8 | 269.9 | 216.3 | 184.1 | 166.6 | 175.8 | 260.4 | 98.5 | 82.4 | 570.7 | 326.6 | 207.7 |
| 302 | HE | 543.5 | 461.5 | 184.5 | 71.5 | 18.5 | 37.0 | 136.0 | 297.5 | 256.5 | 81.0 | 76.0 | 456.0 | 317.0 | 211.0 |
| 303 | HE | 58.2 | 21.6 | 9.5 | 13.7 | 33.1 | 75.8 | 125.9 | 184.7 | 251.8 | 125.5 | 70.8 | 1086.6 | 334.0 | 157.8 |
| 304 | HE | 369.7 | 355.3 | 311.5 | 265.0 | 216.6 | 176.2 | 180.4 | 163.1 | 258.8 | 92.3 | 80.5 | 695.2 | 316.3 | 202.5 |
| 305 | HE | 216.7 | 170.8 | 135.6 | 163.8 | 173.4 | 285.1 | 280.8 | 437.8 | 238.7 | 106.0 | 78.3 | 804.3 | 302.5 | 168.0 |
| 306 | HE | 89.4 | 40.4 | 46.0 | 76.9 | 121.1 | 163.3 | 191.5 | 254.7 | 197.9 | 146.6 | 79.4 | 714.4 | 283.9 | 100.2 |
| 307 | HE | 153.9 | 133.1 | 92.5 | 88.3 | 83.9 | 102.4 | 119.3 | 115.5 | 189.3 | 109.1 | 83.4 | 430.8 | 255.7 | 125.8 |
| 308 | HE | 135.6 | 83.4 | 74.7 | 95.9 | 110.9 | 179.3 | 251.3 | 301.8 | 227.7 | 127.4 | 80.8 | 521.2 | 303.3 | 146.7 |
| 309 | HE | 375.0 | 381.7 | 325.4 | 270.7 | 224.4 | 181.9 | 184.1 | 157.3 | 261.1 | 91.0 | 79.2 | 735.9 | 318.7 | 204.5 |
| 310 | HE | 81.0 | 46.6 | 52.7 | 79.1 | 126.8 | 172.4 | 201.4 | 247.8 | 225.5 | 139.3 | 80.0 | 629.5 | 308.2 | 135.0 |
| 311 | HE | 98.0 | 43.0 | 38.3 | 48.2 | 69.0 | 123.2 | 186.6 | 233.3 | 252.2 | 113.9 | 75.7 | 639.7 | 320.9 | 171.2 |
| 312 | HE | 323.5 | 310.7 | 235.4 | 251.7 | 185.1 | 177.2 | 221.7 | 245.8 | 229.5 | 103.1 | 82.3 | 538.4 | 296.5 | 172.0 |
| 313 | HE | 172.4 | 96.5 | 76.4 | 131.0 | 147.8 | 259.9 | 307.6 | 414.5 | 227.6 | 122.9 | 83.3 | 456.5 | 297.9 | 151.1 |
| 314 | HE | 117.2 | 74.1 | 46.6 | 37.1 | 43.6 | 92.9 | 119.1 | 202.9 | 252.7 | 110.7 | 64.9 | 1571.3 | 328.1 | 158.9 |
| 315 | HE | 107.2 | 85.0 | 58.4 | 54.5 | 72.5 | 117.6 | 146.0 | 255.8 | 241.5 | 108.4 | 68.2 | 1440.7 | 314.0 | 156.2 |
| 316 | HE | 353.9 | 398.4 | 339.5 | 295.9 | 215.1 | 192.8 | 214.2 | 188.2 | 254.9 | 94.7 | 84.7 | 528.6 | 311.7 | 200.6 |
| 317 | HE | 231.4 | 262.1 | 233.5 | 211.8 | 160.4 | 121.0 | 143.9 | 147.3 | 129.0 | 105.1 | 85.6 | 504.8 | 193.2 | 71.2 |
| 318 | HE | 334.5 | 337.0 | 310.0 | 299.0 | 173.0 | 150.7 | 180.4 | 191.4 | 221.7 | 102.7 | 90.0 | 277.7 | 278.9 | 165.6 |
| 319 | HE | 184.0 | 158.3 | 135.0 | 118.0 | 82.0 | 120.0 | 156.0 | 160.3 | 161.3 | 100.0 | 90.7 | 193.7 | 216.3 | 106.7 |
| 320 | HE | 276.5 | 216.8 | 169.1 | 178.9 | 169.2 | 134.8 | 230.4 | 291.2 | 263.5 | 97.1 | 84.7 | 444.5 | 321.5 | 207.3 |
| 321 | HE | 87.5 | 49.9 | 35.2 | 37.6 | 49.9 | 88.7 | 137.5 | 202.6 | 256.5 | 109.4 | 68.8 | 1021.5 | 331.1 | 173.3 |
| 322 | HE | 29.9 | 23.3 | 16.4 | 27.3 | 46.3 | 67.4 | 80.6 | 125.7 | 74.0 | 157.3 | 72.0 | 1307.7 | 173.9 | -42.7 |
| 323 | HE | 236.4 | 183.4 | 114.1 | 141.0 | 149.9 | 145.1 | 189.8 | 252.0 | 266.7 | 103.0 | 81.4 | 444.6 | 327.8 | 202.2 |
| 324 | HE | 211.8 | 151.5 | 111.0 | 114.4 | 131.4 | 137.1 | 201.8 | 250.7 | 268.0 | 103.1 | 84.0 | 392.6 | 328.7 | 206.7 |
| 325 | HE | 290.4 | 288.0 | 263.8 | 247.3 | 195.1 | 171.5 | 203.2 | 230.3 | 256.6 | 97.7 | 85.8 | 487.1 | 312.6 | 199.6 |
| 326 | HE | 130.3 | 87.3 | 66.8 | 71.1 | 83.7 | 153.7 | 199.7 | 317.8 | 252.2 | 107.3 | 73.5 | 1071.0 | 320.9 | 175.9 |
| 327 | HE | 537.0 | 536.0 | 417.0 | 382.0 | 272.0 | 240.0 | 307.0 | 241.0 | 250.0 | 90.0 | 83.0 | 515.0 | 307.0 | 199.0 |
| 328 | HE | 121.8 | 62.6 | 37.7 | 60.0 | 77.7 | 106.5 | 171.0 | 233.7 | 256.4 | 108.6 | 76.6 | 570.9 | 322.0 | 181.0 |
| 329 | HE | 119.1 | 61.1 | 35.9 | 61.4 | 79.0 | 111.9 | 165.0 | 239.3 | 254.6 | 107.7 | 76.5 | 583.2 | 319.1 | 179.4 |
| 330 | HE | 84.7 | 23.3 | 5.3 | 20.7 | 106.3 | 185.3 | 224.7 | 275.0 | 251.3 | 112.3 | 69.0 | 517.7 | 331.0 | 169.3 |
| 331 | HE | 49.1 | 24.5 | 0.4 | 5.9 | 62.0 | 139.9 | 197.5 | 197.8 | 249.0 | 117.4 | 69.0 | 498.3 | 332.8 | 163.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 332 | HE | 114.8 | 55.6 | 26.3 | 36.3 | 68.1 | 120.1 | 165.7 | 209.5 | 253.6 | 115.9 | 79.0 | 634.7 | 320.9 | 174.8 |
| 333 | HE | 247.7 | 105.1 | 63.6 | 19.6 | 9.1 | 11.9 | 39.0 | 110.1 | 268.6 | 103.6 | 88.0 | 302.4 | 330.0 | 213.0 |
| 334 | HE | 317.4 | 265.1 | 195.2 | 173.5 | 154.1 | 197.9 | 207.5 | 284.9 | 257.1 | 92.6 | 85.9 | 384.1 | 311.5 | 204.7 |
| 335 | HE | 278.2 | 186.9 | 135.2 | 140.2 | 155.3 | 192.3 | 267.3 | 321.2 | 261.6 | 91.1 | 84.6 | 331.9 | 316.3 | 209.1 |
| 336 | HE | 82.7 | 16.2 | 5.2 | 14.9 | 59.2 | 118.7 | 126.1 | 180.4 | 261.0 | 116.0 | 71.8 | 638.6 | 341.7 | 181.0 |
| 337 | HE | 178.2 | 65.8 | 42.6 | 60.5 | 112.4 | 169.3 | 201.2 | 297.7 | 263.8 | 99.3 | 77.0 | 322.7 | 328.0 | 200.0 |
| 338 | HE | 67.0 | 22.3 | 2.0 | 11.5 | 86.7 | 169.8 | 220.0 | 245.3 | 251.2 | 115.0 | 69.0 | 501.8 | 332.5 | 167.2 |
| 339 | HE | 228.5 | 120.8 | 87.3 | 95.2 | 118.2 | 127.7 | 235.7 | 368.0 | 266.0 | 89.0 | 84.8 | 305.4 | 321.2 | 217.0 |
| 340 | HE | 107.6 | 37.3 | 24.7 | 39.6 | 60.0 | 100.2 | 159.7 | 233.0 | 249.1 | 118.7 | 76.6 | 728.8 | 317.9 | 164.0 |
| 341 | HE | 88.1 | 31.8 | 22.4 | 31.5 | 54.7 | 94.3 | 153.3 | 204.2 | 251.3 | 110.1 | 71.1 | 816.5 | 321.3 | 167.6 |
| 342 | HE | 299.5 | 124.3 | 72.3 | 21.3 | 24.0 | 21.3 | 12.8 | 114.0 | 263.5 | 92.0 | 81.8 | 473.3 | 324.8 | 212.8 |
| 343 | HE | 58.0 | 17.0 | 7.0 | 2.0 | 3.0 | 5.3 | 60.7 | 162.0 | 266.0 | 112.0 | 77.0 | 283.0 | 339.0 | 194.0 |
| 344 | HE | 58.5 | 11.0 | 4.0 | 10.0 | 36.0 | 91.5 | 121.0 | 174.0 | 260.5 | 121.5 | 71.5 | 741.0 | 345.5 | 176.5 |
| 345 | HE | 235.0 | 105.0 | 37.0 | 7.0 | 6.0 | 4.0 | 9.0 | 33.0 | 269.0 | 75.0 | 78.0 | 512.0 | 318.0 | 222.0 |
| 346 | HE | 60.8 | 18.0 | 9.0 | 2.8 | 3.3 | 6.0 | 64.5 | 172.2 | 266.3 | 110.7 | 77.7 | 280.7 | 337.7 | 195.5 |
| 347 | HE | 60.8 | 23.8 | 1.5 | 8.8 | 79.5 | 160.8 | 215.0 | 229.8 | 251.8 | 115.5 | 68.5 | 505.0 | 333.5 | 166.8 |
| 348 | HE | 56.3 | 26.3 | 1.7 | 7.7 | 80.0 | 156.7 | 217.7 | 222.3 | 253.0 | 115.7 | 68.7 | 506.7 | 335.0 | 168.0 |
| 349 | HE | 96.0 | 18.5 | 12.4 | 34.0 | 114.8 | 189.1 | 243.3 | 303.0 | 256.2 | 113.3 | 67.8 | 449.0 | 337.6 | 171.6 |
| 350 | HE | 74.7 | 12.1 | 7.0 | 27.0 | 90.5 | 164.4 | 222.0 | 276.5 | 253.5 | 116.9 | 67.6 | 463.3 | 337.6 | 165.8 |
| 351 | HE | 249.6 | 143.2 | 82.9 | 42.1 | 27.0 | 28.1 | 57.7 | 141.1 | 268.3 | 95.3 | 85.0 | 437.4 | 329.6 | 218.3 |
| 352 | HE | 186.9 | 65.0 | 31.9 | 9.0 | 5.6 | 8.0 | 50.6 | 143.3 | 272.3 | 103.2 | 87.2 | 312.8 | 333.6 | 215.6 |
| 353 | HE | 87.0 | 21.0 | 4.0 | 20.0 | 106.0 | 189.0 | 227.0 | 283.0 | 251.0 | 113.0 | 69.0 | 528.0 | 331.0 | 169.0 |
| 354 | HE | 58.0 | 21.0 | 1.0 | 8.0 | 69.0 | 150.0 | 204.0 | 218.0 | 252.0 | 117.0 | 69.0 | 492.0 | 335.0 | 166.0 |
| 355 | HE | 89.5 | 26.3 | 18.9 | 38.7 | 78.4 | 144.7 | 173.3 | 227.0 | 261.7 | 104.1 | 76.7 | 477.4 | 327.6 | 192.8 |
| 356 | HE | 101.3 | 23.3 | 19.9 | 27.7 | 100.1 | 151.2 | 178.8 | 220.0 | 259.5 | 107.6 | 74.8 | 570.1 | 330.5 | 187.3 |
| 357 | HE | 62.0 | 20.0 | 1.0 | 10.0 | 72.0 | 155.0 | 209.0 | 229.0 | 250.0 | 116.0 | 69.0 | 515.0 | 333.0 | 165.0 |
| 358 | HE | 229.4 | 87.6 | 60.2 | 76.0 | 121.2 | 170.5 | 213.0 | 380.3 | 264.0 | 92.9 | 79.0 | 368.0 | 324.2 | 207.4 |
| 359 | HE | 104.7 | 34.6 | 17.1 | 40.4 | 82.6 | 143.3 | 203.6 | 277.5 | 262.0 | 102.0 | 71.5 | 548.7 | 331.9 | 190.3 |
| 360 | HE | 280.4 | 107.1 | 64.5 | 19.7 | 23.9 | 28.4 | 18.9 | 138.2 | 267.5 | 84.8 | 84.8 | 448.1 | 322.8 | 223.0 |
| 361 | HE | 253.9 | 138.5 | 87.5 | 50.2 | 30.2 | 52.0 | 48.6 | 208.4 | 268.9 | 92.7 | 85.8 | 400.1 | 327.2 | 219.9 |
| 362 | HE | 300.9 | 120.2 | 69.9 | 20.5 | 22.9 | 21.5 | 13.5 | 116.1 | 263.7 | 90.8 | 81.9 | 471.2 | 324.4 | 214.1 |
| 363 | HE | 61.5 | 26.0 | 2.5 | 10.8 | 89.0 | 161.5 | 222.8 | 235.8 | 251.5 | 115.0 | 68.8 | 502.5 | 333.5 | 167.3 |
| 364 | HE | 308.0 | 144.0 | 74.0 | 17.0 | 17.0 | 6.0 | 5.0 | 85.0 | 262.0 | 93.0 | 80.0 | 537.0 | 327.0 | 211.0 |
| 365 | HE | 289.0 | 141.0 | 73.0 | 17.0 | 17.0 | 6.0 | 6.0 | 70.0 | 263.0 | 90.0 | 80.0 | 526.0 | 325.0 | 213.0 |
| 366 | HE | 280.0 | 141.0 | 74.5 | 17.5 | 17.5 | 7.5 | 6.5 | 67.0 | 264.0 | 87.5 | 79.5 | 527.0 | 324.0 | 215.0 |
| 367 | HE | 336.9 | 123.9 | 71.1 | 15.6 | 15.7 | 8.5 | 11.0 | 123.6 | 273.7 | 72.6 | 80.5 | 565.4 | 321.3 | 231.7 |
| 368 | HE | 309.0 | 144.0 | 79.0 | 20.0 | 23.0 | 12.0 | 7.0 | 103.0 | 262.0 | 94.0 | 79.0 | 514.0 | 327.0 | 209.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 369 | HE | 286.3 | 110.0 | 64.7 | 20.3 | 23.7 | 27.0 | 17.7 | 129.7 | 266.3 | 87.0 | 83.7 | 444.7 | 323.3 | 220.0 |
| 370 | HE | 276.0 | 105.5 | 65.0 | 20.0 | 24.0 | 28.0 | 19.0 | 141.0 | 269.5 | 82.0 | 84.5 | 454.5 | 322.5 | 226.0 |
| 371 | HE | 55.3 | 26.0 | 2.0 | 7.3 | 81.3 | 156.0 | 221.7 | 224.0 | 250.7 | 115.7 | 68.7 | 509.7 | 333.3 | 165.7 |
| 372 | HE | 208.0 | 119.2 | 75.2 | 106.8 | 118.1 | 161.2 | 194.0 | 275.2 | 259.8 | 93.9 | 81.3 | 336.7 | 317.8 | 203.1 |
| 373 | HE | 134.6 | 55.7 | 34.2 | 43.0 | 92.0 | 151.4 | 171.9 | 254.4 | 261.0 | 103.8 | 78.6 | 403.9 | 324.6 | 193.3 |
| 374 | HE | 72.0 | 25.0 | 4.5 | 15.5 | 99.0 | 173.5 | 223.0 | 251.5 | 252.5 | 113.5 | 68.5 | 521.5 | 333.5 | 169.0 |
| 375 | HE | 53.0 | 15.4 | 5.0 | 11.2 | 48.8 | 105.2 | 149.8 | 202.0 | 249.8 | 126.6 | 71.4 | 735.7 | 335.5 | 159.2 |
| 376 | HE | 60.0 | 23.0 | 1.0 | 8.5 | 76.0 | 158.5 | 213.0 | 227.0 | 251.0 | 116.0 | 69.0 | 502.0 | 333.5 | 166.5 |
| 377 | HE | 235.6 | 111.5 | 82.6 | 27.5 | 7.1 | 6.2 | 23.9 | 45.5 | 265.4 | 88.6 | 82.9 | 567.9 | 323.8 | 217.7 |
| 378 | HE | 270.4 | 153.3 | 90.3 | 40.3 | 18.3 | 24.6 | 41.1 | 106.9 | 268.1 | 87.8 | 81.6 | 558.7 | 328.8 | 221.7 |
| 379 | HE | 70.0 | 13.8 | 5.8 | 16.1 | 54.3 | 117.2 | 125.6 | 167.4 | 257.7 | 119.5 | 73.0 | 625.0 | 340.2 | 177.3 |
| 380 | HE | 67.1 | 13.1 | 4.8 | 13.6 | 47.4 | 107.5 | 124.0 | 171.3 | 259.4 | 119.9 | 72.4 | 662.8 | 342.5 | 178.0 |
| 381 | HE | 170.9 | 97.1 | 56.2 | 84.2 | 88.5 | 129.1 | 170.6 | 242.6 | 256.7 | 104.0 | 80.2 | 488.4 | 317.3 | 188.2 |
| 382 | HE | 106.9 | 42.0 | 23.9 | 17.4 | 24.1 | 47.3 | 106.9 | 187.4 | 254.8 | 104.8 | 79.0 | 461.7 | 321.3 | 189.4 |
| 383 | HE | 282.0 | 199.4 | 147.3 | 162.7 | 138.5 | 201.5 | 220.6 | 278.3 | 257.6 | 91.1 | 84.5 | 338.9 | 312.7 | 205.1 |
| 384 | HE | 82.7 | 18.7 | 8.6 | 17.5 | 72.4 | 129.0 | 137.4 | 184.3 | 261.4 | 110.7 | 71.5 | 634.1 | 339.1 | 185.3 |
| 385 | HE | 85.6 | 17.6 | 6.6 | 18.3 | 68.5 | 129.5 | 128.8 | 176.4 | 260.2 | 114.5 | 71.9 | 620.0 | 339.9 | 181.8 |
| 386 | HE | 94.2 | 28.6 | 12.9 | 30.9 | 119.6 | 178.0 | 216.7 | 273.6 | 256.3 | 109.4 | 68.9 | 541.3 | 333.5 | 175.8 |
| 387 | HE | 341.9 | 231.0 | 181.9 | 160.5 | 132.1 | 119.9 | 182.4 | 256.2 | 266.7 | 93.8 | 87.9 | 309.0 | 321.6 | 215.7 |
| 388 | HE | 99.7 | 29.1 | 19.4 | 14.3 | 12.5 | 29.4 | 83.4 | 171.4 | 250.1 | 107.5 | 80.7 | 393.2 | 316.9 | 184.5 |
| 389 | HE | 147.5 | 82.6 | 44.4 | 70.7 | 86.5 | 123.3 | 166.7 | 256.8 | 255.0 | 103.3 | 75.7 | 586.9 | 317.8 | 182.1 |
| 390 | HE | 124.3 | 51.2 | 37.9 | 32.3 | 39.2 | 76.1 | 138.5 | 213.1 | 257.6 | 104.5 | 77.8 | 485.2 | 325.2 | 191.7 |
| 391 | HE | 58.0 | 25.0 | 2.0 | 8.0 | 79.0 | 158.0 | 217.0 | 225.0 | 252.0 | 116.0 | 69.0 | 505.0 | 334.0 | 167.0 |
| 392 | HE | 277.0 | 106.0 | 65.0 | 20.0 | 24.0 | 28.0 | 19.0 | 141.0 | 269.0 | 83.0 | 85.0 | 448.0 | 322.0 | 225.0 |
| 393 | HE | 57.8 | 25.5 | 1.8 | 7.8 | 80.5 | 158.0 | 217.3 | 225.0 | 252.8 | 115.5 | 68.8 | 505.5 | 334.5 | 167.8 |
| 394 | HE | 74.5 | 23.5 | 3.0 | 15.5 | 97.5 | 177.5 | 223.0 | 258.0 | 252.5 | 113.5 | 69.0 | 523.0 | 333.0 | 169.0 |
| 395 | HE | 172.0 | 70.5 | 66.4 | 46.2 | 30.8 | 34.2 | 60.7 | 140.0 | 261.9 | 95.7 | 80.1 | 546.3 | 325.7 | 206.7 |
| 396 | HE | 249.2 | 130.7 | 80.3 | 42.2 | 20.4 | 37.3 | 36.3 | 177.9 | 268.7 | 95.7 | 87.0 | 355.9 | 327.4 | 218.1 |
| 397 | HE | 230.4 | 111.6 | 79.9 | 25.9 | 10.5 | 6.4 | 30.1 | 55.6 | 267.2 | 91.5 | 83.6 | 540.1 | 326.7 | 217.9 |
| 398 | HE | 239.3 | 257.5 | 261.1 | 215.1 | 103.6 | 98.3 | 110.6 | 121.7 | 111.7 | 86.9 | 87.6 | 441.4 | 162.5 | 64.1 |
| 399 | HE | 219.0 | 166.0 | 106.0 | 127.0 | 99.0 | 142.0 | 195.0 | 124.0 | 152.0 | 81.0 | 90.0 | 248.0 | 197.0 | 107.0 |
| 400 | HE | 299.1 | 342.1 | 326.6 | 267.1 | 141.7 | 116.1 | 144.1 | 164.2 | 152.6 | 97.8 | 90.1 | 348.4 | 206.9 | 99.1 |
| 401 | HE | 324.3 | 325.3 | 138.3 | 52.3 | 14.8 | 21.8 | 76.0 | 154.3 | 265.0 | 81.0 | 78.3 | 577.3 | 324.0 | 221.3 |
| 402 | HE | 287.2 | 331.9 | 183.5 | 103.1 | 38.9 | 41.0 | 67.8 | 113.2 | 266.7 | 82.4 | 76.8 | 651.7 | 326.8 | 220.2 |
| 403 | HE | 312.5 | 302.8 | 168.3 | 95.0 | 31.5 | 36.0 | 62.5 | 123.8 | 266.5 | 84.0 | 77.0 | 643.5 | 328.0 | 220.0 |
| 404 | HE | 477.0 | 320.6 | 202.8 | 100.5 | 27.0 | 18.5 | 40.0 | 93.2 | 262.8 | 88.8 | 76.0 | 715.7 | 329.6 | 213.6 |
| 405 | HE | 268.4 | 307.8 | 165.6 | 95.6 | 30.2 | 34.5 | 68.7 | 115.9 | 265.2 | 82.4 | 75.2 | 681.7 | 327.7 | 218.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 406 | HE | 313.9 | 309.7 | 190.2 | 110.2 | 36.1 | 27.4 | 44.8 | 88.0 | 271.3 | 86.9 | 79.6 | 598.2 | 330.1 | 221.5 |
| 407 | HE | 396.8 | 339.7 | 143.7 | 60.1 | 19.1 | 35.8 | 103.1 | 191.8 | 252.1 | 83.7 | 77.3 | 489.8 | 313.1 | 205.4 |
| 408 | HE | 578.8 | 461.4 | 170.7 | 62.5 | 17.1 | 38.1 | 139.4 | 303.4 | 258.6 | 83.1 | 75.0 | 449.4 | 321.0 | 210.8 |
| 409 | HE | 507.6 | 380.3 | 140.0 | 49.4 | 16.3 | 32.6 | 113.8 | 261.1 | 251.5 | 87.8 | 74.7 | 432.5 | 316.1 | 199.1 |
| 410 | HE | 107.7 | 36.6 | 17.8 | 39.9 | 81.3 | 142.7 | 205.3 | 278.3 | 261.9 | 102.5 | 71.7 | 534.1 | 332.5 | 190.2 |
| 411 | HE | 240.7 | 309.0 | 181.5 | 103.7 | 37.5 | 33.5 | 61.8 | 90.0 | 269.5 | 81.0 | 77.5 | 619.5 | 326.8 | 223.0 |
| 412 | HE | 42.3 | 21.6 | 0.5 | 4.9 | 53.3 | 123.9 | 192.9 | 183.9 | 248.5 | 119.8 | 68.5 | 490.7 | 334.3 | 160.8 |
| 413 | HE | 432.9 | 222.5 | 133.0 | 58.9 | 21.4 | 12.8 | 27.5 | 52.9 | 260.2 | 105.5 | 77.1 | 695.2 | 341.3 | 205.4 |
| 414 | HE | 269.5 | 305.5 | 170.6 | 62.7 | 23.3 | 29.2 | 71.5 | 134.9 | 264.9 | 81.9 | 76.9 | 610.1 | 326.3 | 220.4 |
| 415 | HE | 50.7 | 20.2 | 10.8 | 12.9 | 26.2 | 68.3 | 112.2 | 155.6 | 244.0 | 131.6 | 69.7 | 1347.7 | 329.3 | 141.5 |
| 416 | HE | 69.9 | 21.1 | 6.9 | 19.6 | 52.6 | 125.3 | 161.2 | 161.7 | 263.9 | 106.9 | 74.3 | 590.1 | 336.0 | 192.8 |
| 417 | HE | 228.9 | 174.8 | 103.2 | 96.2 | 112.0 | 186.2 | 309.4 | 483.5 | 252.0 | 110.5 | 62.3 | 2000.7 | 327.0 | 150.7 |
| 418 | HE | 198.0 | 86.0 | 65.5 | 33.0 | 35.5 | 63.5 | 47.5 | 197.0 | 268.0 | 93.0 | 88.0 | 307.5 | 323.0 | 218.0 |
| 419 | HE | 68.7 | 30.9 | 15.3 | 16.8 | 25.7 | 63.1 | 112.3 | 163.0 | 250.9 | 124.3 | 69.1 | 1385.1 | 332.6 | 154.0 |
| 420 | HE | 186.5 | 155.5 | 103.5 | 92.5 | 112.0 | 233.5 | 270.0 | 435.0 | 246.0 | 117.5 | 63.0 | 1996.5 | 324.5 | 139.5 |
| 421 | HE | 90.8 | 55.4 | 49.7 | 32.5 | 38.8 | 63.0 | 112.0 | 191.3 | 260.5 | 111.8 | 71.1 | 1042.3 | 335.6 | 179.6 |
| 422 | HE | 319.5 | 311.5 | 316.0 | 262.5 | 177.5 | 179.5 | 216.0 | 221.5 | 203.0 | 111.0 | 84.0 | 516.5 | 275.5 | 143.5 |
| 423 | HE | 223.7 | 165.3 | 96.3 | 89.7 | 104.3 | 176.0 | 291.0 | 460.3 | 252.0 | 110.3 | 62.3 | 1992.0 | 327.0 | 151.0 |
| 424 | HE | 345.9 | 376.4 | 309.1 | 292.9 | 165.4 | 140.9 | 175.4 | 196.9 | 202.7 | 104.9 | 91.3 | 242.7 | 259.9 | 145.7 |
| 425 | HE | 121.0 | 61.0 | 34.0 | 29.5 | 41.0 | 77.0 | 128.0 | 209.0 | 257.5 | 114.0 | 65.5 | 1541.5 | 336.0 | 163.0 |
| 426 | HE | 17.1 | 8.2 | 11.9 | 22.6 | 42.2 | 63.7 | 100.8 | 134.4 | 99.0 | 160.6 | 75.2 | 1098.0 | 197.7 | -14.9 |
| 427 | HE | 12.0 | 7.0 | 8.0 | 20.0 | 44.0 | 47.0 | 82.0 | 110.0 | 57.0 | 164.0 | 73.0 | 1224.0 | 158.0 | -64.0 |
| 428 | HE | 143.7 | 124.2 | 88.1 | 84.8 | 84.4 | 102.1 | 115.6 | 108.7 | 181.9 | 108.9 | 82.8 | 423.2 | 248.3 | 117.6 |
| 429 | HE | 66.1 | 39.5 | 46.6 | 60.5 | 95.5 | 139.0 | 159.8 | 217.6 | 196.6 | 146.4 | 78.4 | 732.3 | 285.5 | 99.9 |
| 430 | HE | 60.2 | 23.4 | 20.2 | 37.4 | 77.0 | 108.4 | 115.6 | 171.0 | 141.6 | 144.8 | 80.2 | 758.4 | 222.8 | 43.0 |
| 431 | HE | 81.4 | 77.7 | 72.7 | 51.8 | 41.9 | 67.7 | 62.5 | 79.3 | 139.7 | 121.5 | 88.5 | 296.5 | 208.3 | 71.7 |
| 432 | HE | 380.4 | 395.7 | 211.8 | 139.5 | 49.1 | 25.7 | 35.4 | 51.0 | 266.4 | 88.2 | 79.4 | 562.2 | 325.2 | 214.7 |
| 433 | HE | 148.0 | 80.2 | 44.9 | 39.2 | 47.7 | 93.4 | 154.0 | 257.2 | 255.9 | 113.0 | 64.2 | 1746.8 | 331.9 | 158.0 |
| 434 | HE | 283.8 | 430.8 | 303.5 | 257.9 | 146.0 | 112.9 | 125.9 | 119.1 | 221.0 | 103.9 | 85.0 | 384.9 | 283.0 | 161.3 |
| 435 | HE | 468.6 | 299.8 | 192.8 | 87.7 | 22.9 | 15.1 | 37.0 | 90.6 | 262.2 | 90.1 | 76.5 | 709.7 | 329.9 | 213.0 |
| 436 | HE | 153.6 | 135.1 | 95.7 | 95.8 | 94.2 | 107.3 | 119.1 | 114.7 | 192.6 | 102.9 | 79.6 | 464.7 | 257.9 | 129.6 |
| 437 | HE | 314.1 | 280.9 | 199.4 | 211.8 | 164.8 | 156.1 | 219.4 | 248.8 | 257.2 | 97.4 | 84.7 | 474.9 | 317.0 | 202.7 |
| 438 | HE | 178.4 | 120.9 | 82.0 | 103.0 | 135.6 | 163.9 | 207.6 | 263.3 | 260.5 | 109.7 | 78.6 | 547.8 | 327.7 | 189.0 |
| 439 | HE | 298.3 | 232.4 | 194.3 | 158.2 | 170.2 | 151.3 | 175.8 | 321.5 | 258.8 | 91.9 | 85.4 | 434.3 | 311.6 | 204.7 |
| 1 | MP | 308.6 | 270.4 | 242.8 | 147.5 | 148.2 | 183.7 | 283.7 | 303.8 | 259.2 | 98.6 | 85.8 | 421.9 | 315.3 | 201.1 |
| 2 | MP | 315.5 | 272.4 | 186.8 | 132.1 | 164.8 | 202.6 | 227.5 | 287.1 | 260.4 | 94.3 | 85.0 | 440.3 | 314.7 | 204.4 |
| 3 | MP | 14.0 | 6.8 | 8.1 | 16.7 | 48.4 | 73.4 | 119.3 | 156.2 | 112.5 | 160.3 | 76.1 | 1028.9 | 211.5 | 2.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | MP | 263.4 | 182.1 | 112.0 | 79.6 | 124.5 | 163.3 | 206.6 | 233.2 | 261.5 | 97.5 | 83.2 | 423.5 | 319.6 | 203.0 |
| 5 | MP | 161.9 | 112.7 | 88.0 | 70.4 | 124.9 | 176.2 | 204.8 | 143.0 | 237.2 | 112.3 | 82.0 | 478.7 | 302.1 | 166.3 |
| 6 | MP | 119.5 | 71.8 | 46.8 | 45.3 | 64.4 | 125.3 | 235.4 | 216.3 | 264.4 | 110.6 | 78.4 | 530.7 | 332.8 | 192.3 |
| 7 | MP | 313.7 | 271.3 | 208.9 | 139.5 | 157.2 | 202.4 | 248.2 | 307.8 | 261.6 | 95.3 | 85.8 | 429.9 | 315.6 | 205.0 |
| 8 | MP | 226.9 | 351.4 | 163.7 | 92.3 | 117.4 | 157.9 | 247.1 | 178.3 | 170.1 | 113.3 | 86.1 | 502.0 | 239.7 | 108.6 |
| 9 | MP | 226.5 | 193.5 | 146.2 | 90.0 | 78.4 | 98.1 | 152.7 | 232.5 | 30.2 | 7.5 | 37.6 | 14.2 | 30.2 | 29.1 |
| 10 | MP | 64.1 | 48.8 | 50.2 | 25.5 | 42.5 | 55.3 | 111.3 | 196.1 | 260.6 | 113.1 | 71.1 | 1125.8 | 335.9 | 177.8 |
| 11 | MP | 105.5 | 74.1 | 39.3 | 42.2 | 72.8 | 114.2 | 154.9 | 274.2 | 249.2 | 108.8 | 63.8 | 1709.6 | 323.4 | 154.3 |
| 12 | MP | 356.1 | 219.4 | 173.7 | 126.4 | 70.8 | 51.7 | 23.6 | 146.9 | 270.5 | 85.3 | 83.9 | 463.7 | 325.6 | 224.7 |
| 13 | MP | 431.5 | 171.3 | 128.9 | 49.9 | 24.3 | 16.2 | 17.1 | 107.7 | 271.4 | 88.2 | 83.0 | 416.4 | 328.3 | 222.6 |
| 14 | MP | 303.7 | 221.0 | 142.8 | 44.8 | 26.5 | 43.0 | 86.6 | 96.8 | 271.6 | 95.9 | 87.7 | 359.8 | 326.7 | 218.2 |
| 15 | MP | 65.9 | 35.1 | 23.8 | 45.1 | 93.5 | 116.4 | 147.4 | 262.0 | 218.6 | 111.0 | 70.3 | 1240.0 | 291.4 | 134.7 |
| 16 | MP | 56.3 | 28.7 | 18.7 | 33.3 | 64.7 | 107.3 | 136.0 | 216.7 | 194.7 | 93.0 | 72.0 | 1183.0 | 255.7 | 127.3 |
| 17 | MP | 411.9 | 194.6 | 147.0 | 52.4 | 15.7 | 8.8 | 10.4 | 63.1 | 269.2 | 78.5 | 79.8 | 487.5 | 320.1 | 222.2 |
| 18 | MP | 48.0 | 16.8 | 11.8 | 29.8 | 61.0 | 98.2 | 99.8 | 188.6 | 190.8 | 107.2 | 73.0 | 1031.4 | 259.4 | 113.6 |
| 19 | MP | 396.0 | 281.0 | 172.0 | 96.0 | 43.0 | 33.0 | 29.0 | 131.0 | 271.0 | 78.0 | 78.0 | 592.0 | 327.0 | 228.0 |
| 20 | MP | 99.1 | 40.1 | 19.1 | 30.9 | 66.6 | 32.1 | 67.3 | 237.5 | 256.6 | 109.1 | 81.2 | 310.3 | 325.6 | 191.9 |
| 21 | MP | 93.5 | 40.4 | 36.2 | 27.3 | 50.6 | 101.5 | 163.4 | 299.9 | 257.5 | 108.8 | 75.5 | 728.7 | 324.1 | 180.7 |
| 22 | MP | 288.0 | 163.0 | 142.0 | 121.0 | 120.0 | 99.0 | 42.0 | 212.0 | 268.0 | 95.0 | 90.0 | 258.0 | 323.0 | 218.0 |
| 23 | MP | 69.2 | 35.4 | 24.8 | 27.2 | 50.4 | 36.2 | 71.8 | 185.8 | 262.6 | 111.0 | 75.4 | 308.6 | 336.6 | 190.0 |
| 24 | MP | 174.4 | 74.8 | 30.9 | 24.7 | 35.0 | 29.1 | 54.2 | 200.1 | 271.0 | 102.9 | 86.6 | 321.9 | 332.2 | 213.8 |
| 25 | MP | 91.7 | 39.7 | 38.0 | 27.0 | 49.7 | 103.0 | 164.3 | 298.7 | 261.3 | 106.3 | 74.0 | 752.0 | 328.0 | 184.7 |
| 26 | MP | 252.7 | 132.6 | 99.8 | 79.0 | 34.9 | 47.6 | 95.0 | 218.0 | 270.8 | 86.3 | 83.6 | 398.6 | 325.9 | 223.2 |
| 27 | MP | 193.2 | 107.6 | 85.6 | 83.7 | 39.1 | 50.3 | 116.0 | 209.4 | 272.3 | 84.1 | 81.8 | 452.9 | 327.7 | 225.4 |
| 28 | MP | 294.7 | 159.3 | 110.5 | 80.0 | 38.0 | 56.8 | 106.1 | 211.8 | 270.8 | 86.8 | 83.2 | 403.3 | 326.2 | 222.7 |
| 29 | MP | 304.2 | 209.4 | 111.2 | 59.2 | 39.3 | 16.9 | 58.3 | 197.3 | 276.8 | 83.2 | 79.1 | 602.4 | 336.7 | 232.3 |
| 30 | MP | 204.0 | 105.0 | 79.0 | 64.0 | 32.0 | 43.0 | 111.0 | 201.0 | 274.0 | 83.0 | 81.0 | 455.0 | 329.0 | 227.0 |
| 31 | MP | 264.1 | 174.0 | 98.0 | 50.9 | 32.0 | 12.0 | 21.7 | 87.3 | 268.4 | 85.3 | 80.8 | 602.3 | 326.2 | 221.4 |
| 32 | MP | 344.9 | 170.3 | 118.7 | 66.1 | 29.8 | 51.0 | 100.7 | 205.2 | 269.6 | 87.5 | 82.8 | 418.0 | 325.8 | 221.1 |
| 33 | MP | 261.0 | 153.0 | 131.3 | 114.0 | 109.7 | 93.0 | 36.7 | 194.0 | 268.0 | 93.7 | 88.3 | 290.3 | 323.3 | 218.0 |
| 34 | MP | 400.7 | 252.6 | 153.7 | 80.2 | 28.7 | 24.9 | 25.8 | 137.9 | 270.0 | 77.0 | 78.6 | 592.9 | 326.2 | 228.8 |
| 35 | MP | 91.0 | 30.0 | 19.5 | 46.0 | 30.5 | 93.5 | 145.5 | 260.0 | 260.5 | 102.5 | 72.0 | 632.5 | 328.5 | 186.5 |
| 36 | MP | 72.6 | 34.2 | 25.3 | 26.6 | 52.2 | 33.0 | 72.0 | 191.0 | 258.2 | 110.0 | 75.8 | 296.5 | 331.3 | 187.1 |
| 37 | MP | 123.9 | 52.0 | 35.3 | 34.6 | 100.0 | 55.7 | 142.3 | 286.9 | 260.9 | 111.1 | 68.9 | 430.7 | 341.1 | 180.5 |
| 38 | MP | 197.9 | 105.4 | 81.9 | 72.0 | 35.4 | 45.8 | 113.3 | 204.2 | 273.8 | 83.3 | 81.7 | 457.9 | 328.9 | 227.2 |
| 39 | MP | 68.0 | 39.0 | 23.7 | 43.0 | 88.3 | 112.3 | 147.3 | 257.7 | 230.0 | 102.7 | 69.3 | 1314.7 | 298.7 | 152.0 |
| 40 | MP | 92.5 | 31.2 | 20.0 | 32.4 | 77.1 | 40.7 | 105.5 | 262.1 | 248.6 | 121.6 | 78.5 | 339.2 | 325.9 | 171.9 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | MP | 308.3 | 227.6 | 162.1 | 54.3 | 32.8 | 47.0 | 87.5 | 105.4 | 270.5 | 97.4 | 88.8 | 348.4 | 325.7 | 216.7 |
| 42 | MP | 45.0 | 54.5 | 20.5 | 22.5 | 31.5 | 42.5 | 107.0 | 169.0 | 256.0 | 119.0 | 68.0 | 1834.5 | 334.0 | 159.0 |
| 43 | MP | 75.0 | 50.5 | 24.5 | 31.0 | 41.5 | 80.0 | 121.5 | 188.0 | 241.0 | 105.0 | 62.0 | 2171.0 | 315.5 | 148.5 |
| 44 | MP | 65.9 | 21.1 | 14.8 | 13.8 | 31.1 | 79.4 | 155.6 | 275.5 | 266.5 | 112.1 | 69.8 | 721.9 | 343.5 | 183.5 |
| 45 | MP | 65.0 | 24.3 | 17.3 | 21.3 | 32.7 | 75.3 | 152.0 | 283.7 | 265.0 | 114.0 | 69.0 | 836.0 | 342.0 | 177.0 |
| 46 | MP | 45.0 | 54.5 | 20.5 | 22.5 | 31.5 | 42.5 | 107.0 | 169.0 | 256.0 | 119.0 | 68.0 | 1834.5 | 334.0 | 159.0 |
| 47 | MP | 58.6 | 49.1 | 42.8 | 25.8 | 43.8 | 58.0 | 105.7 | 183.0 | 260.1 | 114.1 | 70.5 | 1136.0 | 336.0 | 175.2 |
| 48 | MP | 96.0 | 67.3 | 36.6 | 42.6 | 77.4 | 113.2 | 151.8 | 270.0 | 245.2 | 108.6 | 65.2 | 1596.2 | 318.6 | 153.5 |
| 49 | MP | 95.3 | 73.9 | 58.3 | 51.6 | 74.5 | 121.1 | 189.3 | 291.7 | 249.7 | 104.1 | 72.3 | 1168.3 | 317.4 | 174.2 |
| 50 | MP | 417.3 | 634.3 | 616.0 | 337.7 | 166.7 | 146.3 | 196.0 | 133.7 | 271.7 | 96.0 | 78.0 | 638.3 | 342.7 | 220.0 |
| 51 | MP | 46.8 | 20.8 | 13.6 | 30.7 | 64.3 | 98.2 | 109.4 | 193.6 | 169.5 | 108.1 | 71.5 | 1142.7 | 238.3 | 87.9 |
| 52 | MP | 60.5 | 41.6 | 20.1 | 30.7 | 32.9 | 69.3 | 110.9 | 168.3 | 219.8 | 114.0 | 65.6 | 1984.9 | 296.2 | 123.9 |
| 53 | MP | 97.3 | 102.4 | 45.3 | 45.4 | 72.4 | 80.8 | 159.7 | 274.1 | 253.0 | 111.8 | 64.5 | 1905.5 | 327.5 | 155.4 |
| 54 | MP | 77.5 | 60.6 | 37.9 | 38.1 | 63.4 | 98.1 | 148.6 | 234.2 | 218.8 | 102.0 | 70.6 | 1279.5 | 286.4 | 142.8 |
| 55 | MP | 202.3 | 93.7 | 50.7 | 66.5 | 73.6 | 149.3 | 203.4 | 297.3 | 254.4 | 99.7 | 73.9 | 620.1 | 317.1 | 183.3 |
| 56 | MP | 354.0 | 261.1 | 186.9 | 116.6 | 92.1 | 171.9 | 225.3 | 344.1 | 256.4 | 91.0 | 85.7 | 337.7 | 310.3 | 205.0 |
| 57 | MP | 240.0 | 148.0 | 124.0 | 104.0 | 96.0 | 84.0 | 30.0 | 176.0 | 269.0 | 92.0 | 89.0 | 307.0 | 323.0 | 220.0 |
| 58 | MP | 248.0 | 150.0 | 127.0 | 108.0 | 103.0 | 88.0 | 34.0 | 185.0 | 268.0 | 93.0 | 89.0 | 301.0 | 323.0 | 219.0 |
| 59 | MP | 278.0 | 147.0 | 114.0 | 97.0 | 40.0 | 57.0 | 122.0 | 207.0 | 269.0 | 86.0 | 83.0 | 417.0 | 324.0 | 221.0 |
| 60 | MP | 61.0 | 28.0 | 26.0 | 37.0 | 51.0 | 84.0 | 139.0 | 259.0 | 254.0 | 105.0 | 68.0 | 997.0 | 326.0 | 173.0 |
| 61 | MP | 79.0 | 53.0 | 30.5 | 43.0 | 84.5 | 109.0 | 151.0 | 265.0 | 235.5 | 105.5 | 69.0 | 1385.0 | 305.0 | 153.0 |
| 62 | MP | 215.0 | 338.0 | 160.5 | 61.7 | 47.2 | 7.7 | 24.4 | 45.4 | 264.2 | 91.3 | 79.8 | 617.9 | 327.0 | 213.2 |
| 63 | MP | 113.9 | 282.3 | 159.6 | 116.1 | 132.9 | 97.7 | 126.1 | 277.7 | 266.3 | 69.6 | 78.4 | 484.4 | 313.9 | 225.7 |
| 64 | MP | 504.2 | 560.5 | 477.8 | 261.0 | 114.5 | 143.7 | 186.4 | 202.0 | 254.9 | 111.0 | 88.4 | 413.0 | 320.6 | 195.7 |
| 65 | MP | 462.0 | 390.0 | 95.0 | 139.0 | 60.0 | 67.0 | 101.0 | 309.0 | 264.0 | 77.0 | 75.0 | 554.0 | 323.0 | 221.0 |
| 66 | MP | 249.0 | 240.0 | 75.0 | 89.0 | 54.0 | 53.0 | 65.0 | 161.0 | 265.0 | 81.0 | 78.0 | 586.0 | 324.0 | 221.0 |
| 67 | MP | 115.2 | 109.4 | 71.4 | 46.9 | 91.4 | 149.1 | 204.0 | 129.3 | 182.8 | 102.8 | 78.0 | 490.5 | 248.1 | 117.2 |
| 68 | MP | 35.7 | 15.4 | 25.1 | 23.4 | 78.9 | 110.2 | 144.2 | 163.1 | 124.7 | 147.0 | 78.9 | 771.3 | 208.3 | 23.1 |
| 69 | MP | 127.1 | 70.5 | 73.3 | 70.6 | 137.7 | 234.9 | 340.7 | 400.0 | 219.6 | 126.9 | 82.3 | 479.7 | 293.3 | 140.0 |
| 70 | MP | 338.6 | 337.3 | 157.0 | 49.3 | 39.7 | 15.3 | 37.5 | 68.0 | 259.5 | 96.1 | 81.4 | 565.7 | 323.8 | 206.4 |
| 71 | MP | 366.0 | 573.0 | 560.3 | 320.7 | 109.0 | 118.7 | 140.3 | 97.3 | 281.0 | 101.3 | 75.3 | 913.3 | 358.0 | 225.0 |
| 72 | MP | 366.5 | 575.0 | 561.0 | 322.5 | 110.0 | 120.0 | 143.0 | 99.0 | 281.0 | 101.5 | 75.5 | 902.5 | 358.0 | 225.0 |
| 73 | MP | 429.5 | 533.0 | 420.0 | 175.0 | 195.0 | 317.5 | 483.5 | 307.0 | 249.0 | 96.5 | 85.5 | 427.5 | 307.5 | 195.5 |
| 74 | MP | 74.6 | 30.7 | 30.4 | 47.4 | 45.8 | 81.8 | 148.4 | 270.3 | 246.3 | 115.0 | 72.6 | 803.9 | 316.6 | 159.3 |
| 75 | MP | 431.7 | 373.7 | 295.3 | 164.0 | 158.5 | 225.1 | 293.4 | 431.8 | 254.7 | 89.9 | 86.1 | 371.2 | 307.5 | 203.7 |
| 76 | MP | 165.4 | 55.2 | 30.3 | 28.8 | 30.0 | 30.2 | 25.3 | 105.1 | 262.4 | 103.5 | 83.5 | 379.1 | 325.7 | 202.4 |
| 77 | MP | 59.0 | 9.0 | 6.0 | 25.0 | 22.3 | 76.7 | 139.0 | 292.7 | 242.3 | 126.0 | 68.0 | 497.7 | 332.3 | 147.3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 78 | MP | 40.0 | 11.5 | 10.5 | 16.4 | 93.2 | 79.8 | 241.4 | 352.9 | 243.5 | 140.9 | 68.3 | 591.7 | 350.8 | 146.2 |
| 79 | MP | 374.7 | 574.0 | 282.3 | 160.0 | 201.0 | 253.7 | 435.3 | 277.0 | 211.7 | 107.3 | 82.7 | 547.3 | 282.3 | 153.3 |
| 80 | MP | 344.3 | 566.7 | 298.3 | 157.3 | 182.3 | 231.0 | 369.0 | 245.7 | 181.0 | 110.7 | 85.0 | 506.0 | 251.0 | 121.3 |
| 81 | MP | 53.3 | 10.3 | 8.0 | 12.7 | 28.0 | 71.5 | 150.3 | 229.7 | 247.9 | 126.7 | 71.2 | 667.0 | 335.0 | 158.1 |
| 82 | MP | 343.7 | 190.6 | 99.2 | 90.1 | 63.9 | 32.1 | 24.3 | 98.1 | 253.7 | 94.2 | 79.4 | 619.1 | 322.8 | 204.8 |
| 83 | MP | 482.1 | 426.1 | 458.4 | 209.1 | 118.1 | 139.5 | 152.3 | 246.5 | 267.3 | 91.8 | 88.4 | 429.2 | 320.2 | 216.8 |
| 84 | MP | 29.4 | 1.4 | 3.1 | 16.6 | 10.4 | 92.0 | 149.6 | 323.7 | 245.9 | 143.7 | 69.9 | 954.9 | 339.6 | 135.3 |
| 85 | MP | 293.6 | 316.0 | 182.2 | 71.9 | 22.8 | 19.4 | 56.8 | 58.0 | 272.3 | 100.2 | 85.6 | 502.5 | 331.0 | 214.4 |
| 86 | MP | 372.2 | 267.5 | 113.6 | 66.8 | 63.5 | 14.8 | 37.6 | 81.0 | 259.2 | 99.4 | 78.8 | 647.3 | 332.2 | 206.9 |
| 87 | MP | 97.7 | 32.4 | 19.6 | 31.8 | 36.5 | 84.5 | 147.0 | 303.7 | 258.7 | 104.1 | 69.8 | 612.5 | 329.8 | 181.9 |
| 88 | MP | 377.0 | 198.7 | 120.8 | 87.9 | 84.0 | 27.9 | 66.9 | 191.6 | 272.4 | 90.6 | 80.4 | 608.0 | 336.7 | 224.6 |
| 89 | MP | 502.0 | 532.7 | 540.7 | 243.1 | 164.8 | 211.7 | 208.1 | 204.6 | 267.4 | 90.8 | 72.5 | 876.0 | 336.8 | 212.4 |
| 90 | MP | 141.4 | 42.8 | 18.5 | 32.6 | 93.3 | 47.0 | 111.3 | 286.1 | 255.5 | 111.9 | 74.6 | 454.7 | 331.1 | 181.9 |
| 91 | MP | 216.1 | 85.5 | 56.9 | 48.4 | 83.6 | 44.7 | 95.9 | 220.2 | 264.6 | 99.4 | 72.8 | 415.1 | 333.0 | 197.4 |
| 92 | MP | 348.0 | 201.3 | 118.9 | 127.8 | 70.0 | 58.3 | 33.4 | 197.0 | 259.0 | 84.8 | 76.7 | 585.2 | 322.3 | 212.4 |
| 93 | MP | 399.2 | 363.6 | 339.2 | 134.7 | 82.4 | 92.1 | 131.0 | 156.9 | 260.6 | 100.6 | 90.4 | 358.6 | 316.7 | 206.2 |
| 94 | MP | 318.7 | 279.9 | 163.3 | 54.9 | 23.9 | 29.6 | 73.5 | 64.4 | 272.5 | 96.9 | 87.1 | 420.5 | 328.3 | 217.4 |
| 95 | MP | 146.6 | 53.5 | 33.2 | 44.3 | 37.6 | 89.0 | 167.3 | 309.9 | 263.1 | 100.1 | 75.2 | 381.2 | 330.1 | 197.8 |
| 96 | MP | 104.0 | 25.3 | 24.2 | 24.1 | 35.7 | 95.4 | 168.9 | 277.9 | 258.0 | 106.8 | 73.2 | 574.4 | 329.3 | 184.6 |
| 97 | MP | 94.1 | 38.8 | 20.3 | 35.9 | 79.8 | 35.4 | 74.8 | 249.2 | 244.3 | 112.5 | 81.0 | 314.6 | 315.6 | 177.5 |
| 98 | MP | 337.1 | 237.2 | 146.0 | 76.8 | 61.0 | 42.8 | 37.0 | 110.5 | 267.6 | 96.3 | 85.1 | 448.7 | 328.6 | 216.4 |
| 99 | MP | 132.3 | 51.8 | 33.1 | 33.9 | 89.1 | 54.7 | 140.0 | 275.1 | 262.2 | 108.9 | 67.6 | 413.4 | 341.4 | 181.3 |
| 100 | MP | 199.6 | 80.8 | 66.2 | 63.2 | 104.0 | 39.7 | 101.0 | 233.6 | 267.4 | 100.5 | 75.6 | 455.8 | 334.5 | 202.4 |
| 101 | MP | 180.6 | 83.4 | 53.3 | 63.7 | 88.3 | 36.6 | 93.2 | 231.9 | 260.0 | 102.1 | 78.0 | 503.9 | 326.3 | 196.1 |
| 102 | MP | 110.4 | 46.0 | 23.2 | 30.8 | 39.7 | 72.9 | 156.4 | 316.9 | 260.7 | 104.7 | 70.1 | 521.1 | 334.6 | 186.1 |
| 103 | MP | 88.4 | 28.9 | 20.3 | 15.1 | 34.7 | 92.9 | 170.6 | 270.9 | 260.3 | 106.5 | 77.4 | 499.9 | 326.2 | 189.5 |
| 104 | MP | 113.4 | 43.1 | 19.5 | 41.7 | 75.1 | 32.4 | 69.3 | 229.7 | 247.7 | 113.6 | 82.1 | 302.4 | 317.8 | 180.3 |
| 105 | MP | 201.6 | 78.2 | 56.8 | 53.0 | 111.8 | 44.2 | 107.8 | 249.4 | 265.7 | 102.9 | 73.6 | 444.4 | 335.8 | 197.0 |
| 106 | MP | 96.0 | 38.2 | 21.9 | 39.6 | 35.8 | 77.0 | 147.2 | 302.4 | 260.4 | 102.9 | 70.2 | 572.9 | 331.4 | 185.6 |
| 107 | MP | 61.2 | 32.7 | 18.9 | 26.5 | 93.7 | 64.1 | 165.7 | 322.3 | 256.0 | 122.6 | 68.6 | 471.6 | 346.4 | 168.8 |
| 108 | MP | 99.6 | 31.0 | 14.5 | 29.1 | 34.8 | 87.9 | 157.5 | 314.1 | 256.7 | 107.4 | 69.9 | 574.1 | 330.8 | 178.1 |
| 109 | MP | 145.9 | 40.6 | 21.7 | 48.6 | 32.2 | 76.0 | 176.8 | 325.4 | 258.5 | 108.5 | 67.6 | 414.9 | 336.7 | 177.3 |
| 110 | MP | 78.0 | 18.8 | 21.0 | 36.0 | 47.0 | 83.7 | 155.8 | 301.7 | 249.3 | 116.0 | 74.7 | 727.8 | 318.3 | 164.1 |
| 111 | MP | 125.7 | 61.6 | 27.9 | 16.6 | 53.6 | 119.5 | 189.6 | 282.8 | 251.8 | 116.4 | 79.9 | 592.5 | 318.4 | 173.5 |
| 112 | MP | 284.5 | 163.0 | 122.1 | 88.3 | 73.9 | 18.2 | 31.1 | 72.6 | 257.6 | 91.0 | 81.0 | 644.0 | 321.0 | 209.4 |
| 113 | MP | 230.3 | 99.8 | 73.6 | 76.6 | 72.8 | 43.4 | 90.2 | 216.7 | 268.1 | 93.8 | 76.0 | 408.7 | 330.8 | 208.0 |
| 114 | MP | 123.6 | 59.0 | 23.2 | 12.9 | 53.5 | 118.4 | 181.9 | 272.0 | 254.2 | 113.2 | 79.7 | 548.8 | 320.1 | 178.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 115 | MP | 305.7 | 348.1 | 215.3 | 95.7 | 27.6 | 23.1 | 55.9 | 76.9 | 262.7 | 105.2 | 87.8 | 490.9 | 323.6 | 204.1 |
| 116 | MP | 88.4 | 23.7 | 29.8 | 39.7 | 43.8 | 93.5 | 174.8 | 315.5 | 254.2 | 112.2 | 77.0 | 608.2 | 320.4 | 175.7 |
| 117 | MP | 81.0 | 21.4 | 19.5 | 34.4 | 50.0 | 84.9 | 155.5 | 301.5 | 249.9 | 116.2 | 74.4 | 746.5 | 319.2 | 164.4 |
| 118 | MP | 348.9 | 193.3 | 104.8 | 67.1 | 52.7 | 21.1 | 64.0 | 188.5 | 270.6 | 88.7 | 80.6 | 604.0 | 333.0 | 223.7 |
| 119 | MP | 218.6 | 109.4 | 70.0 | 51.4 | 53.3 | 16.6 | 43.2 | 151.5 | 258.6 | 97.6 | 79.6 | 527.9 | 322.1 | 200.1 |
| 120 | MP | 117.0 | 42.8 | 19.1 | 36.1 | 66.4 | 29.9 | 64.4 | 225.7 | 251.4 | 110.6 | 82.4 | 307.3 | 319.6 | 186.4 |
| 121 | MP | 306.5 | 203.3 | 144.5 | 47.5 | 65.0 | 124.5 | 211.8 | 305.3 | 264.9 | 89.7 | 83.6 | 304.0 | 319.5 | 212.8 |
| 122 | MP | 137.8 | 36.4 | 15.7 | 47.2 | 37.0 | 72.9 | 152.6 | 336.4 | 260.0 | 112.6 | 65.6 | 426.4 | 343.0 | 172.8 |
| 123 | MP | 190.4 | 84.5 | 58.5 | 50.2 | 45.7 | 104.4 | 182.6 | 354.7 | 264.5 | 96.4 | 78.2 | 307.8 | 326.7 | 204.1 |
| 124 | MP | 116.0 | 23.2 | 13.0 | 40.9 | 32.5 | 85.4 | 176.2 | 383.4 | 256.6 | 114.3 | 67.2 | 447.3 | 339.1 | 170.3 |
| 125 | MP | 354.5 | 173.6 | 104.7 | 59.2 | 46.3 | 24.5 | 63.1 | 184.8 | 271.3 | 88.6 | 80.8 | 567.3 | 333.0 | 224.0 |
| 126 | MP | 89.0 | 24.0 | 6.0 | 25.0 | 32.0 | 99.0 | 172.0 | 340.0 | 254.0 | 112.0 | 70.0 | 532.0 | 332.0 | 172.0 |
| 127 | MP | 67.0 | 31.0 | 4.0 | 16.0 | 29.0 | 85.0 | 163.0 | 294.0 | 252.0 | 114.0 | 69.0 | 528.0 | 333.0 | 169.0 |
| 128 | MP | 100.9 | 40.4 | 21.8 | 34.5 | 41.8 | 77.6 | 152.5 | 315.1 | 259.4 | 105.5 | 69.5 | 537.4 | 333.7 | 182.8 |
| 129 | MP | 88.4 | 34.9 | 17.5 | 53.1 | 30.7 | 86.2 | 149.1 | 270.2 | 260.7 | 102.0 | 72.0 | 589.3 | 329.5 | 188.9 |
| 130 | MP | 88.0 | 28.0 | 8.0 | 27.0 | 35.0 | 96.0 | 167.0 | 334.0 | 254.0 | 111.0 | 69.0 | 560.0 | 332.0 | 172.0 |
| 131 | MP | 87.4 | 23.0 | 5.6 | 24.8 | 32.0 | 100.0 | 173.8 | 341.6 | 253.2 | 112.4 | 70.0 | 529.6 | 331.6 | 171.2 |
| 132 | MP | 88.0 | 26.0 | 7.0 | 27.0 | 33.0 | 97.0 | 169.0 | 335.0 | 254.0 | 111.0 | 69.0 | 551.0 | 332.0 | 173.0 |
| 133 | MP | 92.0 | 28.0 | 22.3 | 38.0 | 31.0 | 94.7 | 149.0 | 263.7 | 260.0 | 103.3 | 72.3 | 630.3 | 328.0 | 186.0 |
| 134 | MP | 89.0 | 22.0 | 5.0 | 24.0 | 31.0 | 101.0 | 176.0 | 341.0 | 254.0 | 112.0 | 70.0 | 525.0 | 332.0 | 172.0 |
| 135 | MP | 388.1 | 202.8 | 106.1 | 113.7 | 60.6 | 51.3 | 45.8 | 222.8 | 259.1 | 87.5 | 75.4 | 562.1 | 324.7 | 209.1 |
| 136 | MP | 110.4 | 43.8 | 9.8 | 26.7 | 102.3 | 47.2 | 112.3 | 290.8 | 254.1 | 117.6 | 74.4 | 434.3 | 333.9 | 176.6 |
| 137 | MP | 99.7 | 23.6 | 12.2 | 29.8 | 35.5 | 84.2 | 170.4 | 376.7 | 255.6 | 112.5 | 68.0 | 465.9 | 336.3 | 172.3 |
| 138 | MP | 224.3 | 131.2 | 103.5 | 83.6 | 61.1 | 36.5 | 80.3 | 188.7 | 269.5 | 90.9 | 78.8 | 429.4 | 329.3 | 214.7 |
| 139 | MP | 333.0 | 221.3 | 138.7 | 110.6 | 80.8 | 31.2 | 27.8 | 89.3 | 256.9 | 91.5 | 80.6 | 638.3 | 321.9 | 209.0 |
| 140 | MP | 302.9 | 158.4 | 120.8 | 90.3 | 36.3 | 55.4 | 119.0 | 205.5 | 270.6 | 86.0 | 82.0 | 446.0 | 326.6 | 222.6 |
| 141 | MP | 121.0 | 26.6 | 13.8 | 43.7 | 31.5 | 79.1 | 169.4 | 363.2 | 256.4 | 115.0 | 66.6 | 444.7 | 340.1 | 168.6 |
| 142 | MP | 183.3 | 70.5 | 52.9 | 47.4 | 37.1 | 85.5 | 179.5 | 325.3 | 263.4 | 96.7 | 76.9 | 355.6 | 327.9 | 202.8 |
| 143 | MP | 389.0 | 225.2 | 119.7 | 89.3 | 85.0 | 21.7 | 51.4 | 132.0 | 266.5 | 95.8 | 79.7 | 628.2 | 335.8 | 216.2 |
| 144 | MP | 262.7 | 196.8 | 74.7 | 168.2 | 98.0 | 98.9 | 88.8 | 179.1 | 257.6 | 84.4 | 78.2 | 595.0 | 320.2 | 213.0 |
| 145 | MP | 57.0 | 180.3 | 120.8 | 86.4 | 54.9 | 24.8 | 50.1 | 118.5 | 264.8 | 101.3 | 82.2 | 558.5 | 328.2 | 205.9 |
| 146 | MP | 59.6 | 241.4 | 207.9 | 164.0 | 42.9 | 27.0 | 46.7 | 71.5 | 257.3 | 98.1 | 80.6 | 561.8 | 321.3 | 200.8 |
| 147 | MP | 61.2 | 219.2 | 191.6 | 129.6 | 42.2 | 27.6 | 51.8 | 87.4 | 260.2 | 98.8 | 83.0 | 533.4 | 321.8 | 203.4 |
| 148 | MP | 266.6 | 615.4 | 571.5 | 380.5 | 125.1 | 131.0 | 133.5 | 65.3 | 273.7 | 104.4 | 72.9 | 936.9 | 355.6 | 213.4 |
| 149 | MP | 114.7 | 364.5 | 281.5 | 198.0 | 73.1 | 49.1 | 85.9 | 118.2 | 232.2 | 102.2 | 84.6 | 419.5 | 293.8 | 173.5 |
| 150 | MP | 68.1 | 285.4 | 286.5 | 238.5 | 52.1 | 32.3 | 51.6 | 49.1 | 258.9 | 102.1 | 81.8 | 564.5 | 325.6 | 201.4 |
| 151 | MP | 221.7 | 553.3 | 542.8 | 379.6 | 127.0 | 100.4 | 145.8 | 158.2 | 252.6 | 104.2 | 81.9 | 431.7 | 318.0 | 191.3 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 152 | MP | 68.8 | 222.6 | 148.5 | 115.7 | 77.3 | 43.6 | 81.9 | 159.2 | 260.4 | 89.8 | 81.7 | 524.8 | 317.0 | 207.7 |
| 153 | MP | 97.9 | 410.0 | 394.5 | 299.3 | 72.5 | 47.2 | 72.9 | 68.2 | 258.4 | 99.7 | 82.9 | 499.0 | 322.2 | 202.6 |
| 154 | MP | 426.4 | 705.0 | 621.3 | 375.8 | 143.9 | 150.7 | 181.0 | 112.7 | 258.0 | 105.7 | 77.9 | 792.7 | 334.1 | 199.1 |
| 155 | MP | 499.4 | 559.9 | 475.1 | 259.3 | 113.2 | 142.6 | 184.5 | 198.4 | 312.6 | 97.2 | 74.2 | 880.6 | 380.4 | 250.4 |
| 156 | MP | 453.0 | 385.0 | 94.0 | 135.0 | 59.0 | 68.0 | 101.0 | 308.0 | 264.0 | 77.0 | 74.0 | 510.0 | 323.0 | 220.0 |
| 157 | MP | 438.0 | 692.0 | 609.0 | 367.0 | 138.0 | 145.0 | 187.0 | 123.0 | 276.0 | 104.0 | 78.0 | 856.0 | 352.0 | 219.0 |
| 158 | MP | 59.5 | 62.5 | 19.3 | 36.0 | 20.8 | 68.0 | 99.8 | 142.3 | 228.3 | 109.0 | 64.3 | 2089.0 | 304.5 | 136.0 |
| 159 | MP | 316.0 | 623.0 | 534.7 | 338.6 | 114.4 | 109.9 | 165.7 | 171.5 | 241.6 | 105.6 | 84.9 | 405.7 | 305.9 | 182.2 |
| 160 | MP | 129.4 | 195.8 | 103.0 | 59.2 | 95.2 | 51.4 | 46.0 | 123.0 | 273.2 | 81.0 | 80.2 | 563.0 | 326.4 | 225.8 |
| 161 | MP | 136.2 | 182.0 | 68.4 | 68.0 | 96.0 | 80.0 | 53.4 | 121.0 | 267.6 | 80.4 | 76.4 | 630.2 | 326.0 | 222.0 |
| 162 | MP | 170.0 | 193.8 | 75.2 | 82.7 | 89.7 | 85.8 | 50.5 | 131.0 | 265.7 | 80.3 | 74.5 | 679.2 | 326.5 | 219.5 |
| 163 | MP | 216.1 | 184.1 | 78.9 | 120.4 | 88.0 | 65.1 | 66.8 | 160.8 | 257.3 | 84.6 | 76.6 | 672.1 | 321.0 | 211.0 |
| 164 | MP | 82.6 | 44.9 | 45.5 | 49.8 | 53.9 | 92.4 | 171.0 | 273.0 | 250.5 | 115.4 | 76.3 | 635.6 | 320.4 | 170.0 |
| 165 | MP | 207.2 | 106.6 | 83.0 | 72.6 | 82.4 | 34.5 | 88.8 | 218.6 | 267.9 | 95.6 | 78.7 | 464.5 | 330.8 | 210.0 |
| 166 | MP | 52.3 | 47.0 | 18.8 | 38.6 | 27.9 | 64.3 | 97.3 | 148.8 | 207.2 | 118.0 | 68.1 | 1815.7 | 283.3 | 111.3 |
| 167 | MP | 269.7 | 145.0 | 101.2 | 76.2 | 35.8 | 52.0 | 96.8 | 218.3 | 272.4 | 86.4 | 83.6 | 394.5 | 327.5 | 224.7 |
| 168 | MP | 135.8 | 113.2 | 83.4 | 86.9 | 118.8 | 208.2 | 270.5 | 413.7 | 238.6 | 103.8 | 73.9 | 1097.9 | 304.9 | 165.1 |
| 169 | MP | 314.8 | 154.7 | 73.7 | 105.8 | 67.0 | 63.4 | 57.0 | 175.6 | 251.1 | 91.1 | 76.4 | 517.3 | 318.6 | 199.9 |
| 170 | MP | 114.3 | 29.6 | 16.4 | 33.0 | 39.7 | 86.7 | 172.3 | 382.3 | 257.1 | 109.7 | 68.7 | 468.3 | 335.2 | 176.8 |
| 171 | MP | 146.9 | 443.8 | 337.4 | 240.3 | 81.8 | 61.2 | 106.4 | 134.1 | 220.5 | 104.0 | 85.0 | 383.9 | 282.5 | 160.8 |
| 172 | MP | 71.4 | 46.9 | 36.8 | 43.5 | 63.3 | 109.9 | 166.4 | 252.4 | 191.7 | 135.3 | 67.0 | 1898.7 | 280.1 | 80.0 |
| 173 | MP | 243.9 | 314.4 | 307.5 | 126.7 | 116.9 | 147.7 | 230.7 | 179.0 | 149.2 | 106.6 | 88.4 | 359.4 | 210.1 | 90.3 |
| 174 | MP | 156.1 | 102.7 | 85.6 | 74.4 | 131.7 | 219.0 | 296.9 | 217.4 | 238.5 | 129.5 | 84.5 | 494.2 | 311.5 | 159.2 |
| 175 | MP | 341.9 | 155.7 | 73.7 | 109.2 | 66.2 | 60.6 | 56.0 | 187.0 | 251.0 | 92.4 | 75.2 | 513.1 | 319.6 | 197.3 |
| 176 | MP | 478.9 | 254.4 | 84.4 | 96.8 | 46.0 | 39.0 | 70.9 | 283.8 | 261.4 | 89.1 | 73.0 | 507.3 | 329.2 | 207.9 |
| 177 | MP | 176.4 | 56.9 | 41.2 | 50.1 | 113.2 | 50.8 | 129.4 | 313.7 | 260.3 | 107.6 | 73.9 | 459.1 | 333.4 | 188.6 |
| 178 | MP | 408.4 | 464.9 | 414.7 | 156.9 | 128.5 | 186.0 | 271.4 | 207.3 | 259.1 | 92.5 | 81.2 | 664.0 | 316.5 | 203.1 |
| 179 | MP | 376.3 | 570.8 | 284.5 | 157.7 | 197.4 | 254.9 | 423.0 | 274.1 | 213.9 | 106.1 | 83.2 | 551.9 | 282.6 | 155.9 |
| 180 | MP | 332.2 | 213.2 | 171.7 | 92.4 | 38.7 | 54.1 | 109.5 | 222.7 | 267.4 | 91.2 | 86.1 | 322.7 | 322.7 | 217.6 |
| 181 | MP | 126.8 | 32.3 | 14.9 | 45.1 | 38.9 | 71.6 | 150.3 | 340.9 | 259.0 | 115.3 | 65.7 | 443.0 | 343.9 | 169.8 |
| 182 | MP | 205.9 | 405.7 | 213.9 | 100.4 | 100.4 | 23.6 | 82.7 | 249.0 | 242.0 | 87.3 | 80.7 | 514.4 | 297.8 | 190.3 |
| 183 | MP | 231.2 | 364.4 | 236.5 | 114.5 | 124.6 | 136.3 | 204.9 | 152.1 | 141.4 | 105.1 | 82.6 | 611.1 | 208.5 | 82.0 |
| 184 | MP | 78.3 | 55.0 | 40.8 | 46.7 | 75.8 | 120.8 | 169.2 | 267.0 | 215.4 | 104.3 | 71.8 | 1180.7 | 283.2 | 138.9 |
| 185 | MP | 103.9 | 71.7 | 60.6 | 52.7 | 95.1 | 146.7 | 213.5 | 298.4 | 235.1 | 121.3 | 78.3 | 678.6 | 308.3 | 154.4 |
| 186 | MP | 93.0 | 30.2 | 21.0 | 32.5 | 30.4 | 88.4 | 153.4 | 265.9 | 261.5 | 103.6 | 75.2 | 515.4 | 329.2 | 192.2 |
| 187 | MP | 356.9 | 158.5 | 83.0 | 109.5 | 67.4 | 53.6 | 38.4 | 170.5 | 253.3 | 92.2 | 76.0 | 563.8 | 322.0 | 201.4 |
| 188 | MP | 134.5 | 282.8 | 178.2 | 80.4 | 68.8 | 25.4 | 53.2 | 102.0 | 200.8 | 99.5 | 83.6 | 377.6 | 262.5 | 144.1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 189 | MP | 258.4 | 84.5 | 57.9 | 58.4 | 28.1 | 82.1 | 158.7 | 344.4 | 263.4 | 93.1 | 79.3 | 343.1 | 324.2 | 207.4 |
| 190 | MP | 395.3 | 563.1 | 570.6 | 217.9 | 163.6 | 195.1 | 263.1 | 210.6 | 196.2 | 98.5 | 89.8 | 284.7 | 251.2 | 142.4 |
| 191 | MP | 282.8 | 239.3 | 149.0 | 125.2 | 147.0 | 188.6 | 231.7 | 300.0 | 257.0 | 92.4 | 85.5 | 396.3 | 309.1 | 201.8 |
| 192 | MP | 396.9 | 302.5 | 302.6 | 174.7 | 202.7 | 218.0 | 257.4 | 309.7 | 261.1 | 88.4 | 84.3 | 496.0 | 313.4 | 209.1 |
| 193 | MP | 233.8 | 275.9 | 309.4 | 112.0 | 97.7 | 190.9 | 289.3 | 241.3 | 153.4 | 97.6 | 91.1 | 246.4 | 207.0 | 100.4 |
| 194 | MP | 285.1 | 343.3 | 276.2 | 137.4 | 115.1 | 246.4 | 336.2 | 166.0 | 202.4 | 92.4 | 86.2 | 366.2 | 256.1 | 149.4 |
| 195 | MP | 350.0 | 526.5 | 564.0 | 206.5 | 149.5 | 182.0 | 249.5 | 204.5 | 145.0 | 95.5 | 87.5 | 419.5 | 199.5 | 91.0 |
| 196 | MP | 416.0 | 513.0 | 467.7 | 192.5 | 144.8 | 203.1 | 291.1 | 203.4 | 257.3 | 91.2 | 81.6 | 643.7 | 314.8 | 203.8 |
| 197 | MP | 415.4 | 308.2 | 261.6 | 148.7 | 167.0 | 214.7 | 283.6 | 399.2 | 256.7 | 89.3 | 87.4 | 415.2 | 307.1 | 205.1 |
| 198 | MP | 431.9 | 612.0 | 606.0 | 223.5 | 173.7 | 219.0 | 305.6 | 260.1 | 198.4 | 101.0 | 90.7 | 255.9 | 254.0 | 143.5 |
| 199 | MP | 467.3 | 414.6 | 410.6 | 216.3 | 181.2 | 203.9 | 227.9 | 192.9 | 263.3 | 89.1 | 76.4 | 742.2 | 323.2 | 207.2 |
| 200 | MP | 438.6 | 547.9 | 489.1 | 225.9 | 159.8 | 273.7 | 316.7 | 160.4 | 258.6 | 97.6 | 76.7 | 746.7 | 325.0 | 198.5 |
| 201 | MP | 255.4 | 410.9 | 386.9 | 154.1 | 106.7 | 207.2 | 262.1 | 143.8 | 110.0 | 83.2 | 81.5 | 355.7 | 161.5 | 60.0 |
| 202 | MP | 484.3 | 568.9 | 456.2 | 210.9 | 166.6 | 289.3 | 339.9 | 185.2 | 260.1 | 104.6 | 82.3 | 562.4 | 325.0 | 198.6 |
| 203 | MP | 394.3 | 322.5 | 307.6 | 168.7 | 178.4 | 220.2 | 266.9 | 302.1 | 258.2 | 88.3 | 86.3 | 463.0 | 309.4 | 207.4 |
| 204 | MP | 48.5 | 17.5 | 11.4 | 11.2 | 24.7 | 67.9 | 149.2 | 245.0 | 239.0 | 131.2 | 70.7 | 994.5 | 322.6 | 138.5 |
| 205 | MP | 64.2 | 28.9 | 38.1 | 42.0 | 100.3 | 133.7 | 184.0 | 228.5 | 175.7 | 152.5 | 78.3 | 784.1 | 266.2 | 72.4 |
| 206 | MP | 83.2 | 11.4 | 18.7 | 24.3 | 30.9 | 83.9 | 157.2 | 220.1 | 244.8 | 121.8 | 72.3 | 523.8 | 329.5 | 162.2 |
| 207 | MP | 412.1 | 390.8 | 331.1 | 175.2 | 73.0 | 91.5 | 143.9 | 181.6 | 243.7 | 105.1 | 90.2 | 342.1 | 303.6 | 187.6 |
| 208 | MP | 440.1 | 442.7 | 436.8 | 185.9 | 113.4 | 126.3 | 162.9 | 232.7 | 261.3 | 95.8 | 89.4 | 382.5 | 315.8 | 209.3 |
| 209 | MP | 127.4 | 151.0 | 96.8 | 58.7 | 63.1 | 115.4 | 194.2 | 155.7 | 155.6 | 109.0 | 86.2 | 386.5 | 222.0 | 96.2 |
| 210 | MP | 57.8 | 31.1 | 30.7 | 26.2 | 61.9 | 133.1 | 178.8 | 126.8 | 167.0 | 139.2 | 83.2 | 623.3 | 243.2 | 76.7 |
| 211 | MP | 71.7 | 26.4 | 17.5 | 32.2 | 82.9 | 70.3 | 178.0 | 335.7 | 255.6 | 122.4 | 66.4 | 464.5 | 347.5 | 164.6 |
| 212 | MP | 264.6 | 412.6 | 225.9 | 118.2 | 144.2 | 163.6 | 216.3 | 170.5 | 146.1 | 107.9 | 85.5 | 455.3 | 212.3 | 86.7 |
| 213 | MP | 70.7 | 11.2 | 8.5 | 16.1 | 26.8 | 77.1 | 132.7 | 210.3 | 258.7 | 117.9 | 72.7 | 624.9 | 340.0 | 178.8 |
| 214 | MP | 299.8 | 260.1 | 166.0 | 70.1 | 32.7 | 36.1 | 72.2 | 77.1 | 266.9 | 100.3 | 88.6 | 407.5 | 323.5 | 210.8 |
| 215 | MP | 180.2 | 81.6 | 50.7 | 62.8 | 59.3 | 122.6 | 201.2 | 294.1 | 256.6 | 106.2 | 75.9 | 588.4 | 322.7 | 183.6 |
| 216 | MP | 116.3 | 39.1 | 23.2 | 36.9 | 67.9 | 30.8 | 79.2 | 222.7 | 249.2 | 115.6 | 79.8 | 354.6 | 321.6 | 177.7 |
| 217 | MP | 472.1 | 500.4 | 483.8 | 227.5 | 135.4 | 141.8 | 186.3 | 242.9 | 252.9 | 104.7 | 90.8 | 374.6 | 312.2 | 197.5 |
| 218 | MP | 472.3 | 654.4 | 579.5 | 226.2 | 234.0 | 254.7 | 412.0 | 288.1 | 185.7 | 111.2 | 88.0 | 413.9 | 249.7 | 124.0 |
| 219 | MP | 86.0 | 50.0 | 55.5 | 43.5 | 97.5 | 182.0 | 271.5 | 221.0 | 221.0 | 135.5 | 86.0 | 471.5 | 295.5 | 138.5 |
| 220 | MP | 34.6 | 21.4 | 11.7 | 20.4 | 49.3 | 69.6 | 92.2 | 137.9 | 76.7 | 156.6 | 71.7 | 1377.2 | 176.9 | -40.2 |
| 221 | MP | 307.8 | 308.8 | 172.4 | 64.5 | 25.2 | 25.2 | 64.9 | 63.4 | 272.8 | 98.7 | 86.2 | 477.0 | 330.2 | 216.3 |
| 222 | MP | 31.6 | 11.9 | 10.6 | 29.4 | 64.4 | 79.8 | 83.1 | 159.2 | 164.9 | 134.2 | 73.8 | 1118.2 | 247.1 | 66.7 |
| 223 | MP | 144.7 | 99.5 | 54.9 | 51.8 | 90.2 | 146.5 | 215.0 | 371.4 | 248.9 | 113.4 | 63.0 | 1868.9 | 325.1 | 146.8 |
| 224 | MP | 85.1 | 69.1 | 51.3 | 32.5 | 30.8 | 85.1 | 139.5 | 127.9 | 127.7 | 115.3 | 88.6 | 248.2 | 193.6 | 64.2 |
| 225 | MP | 71.7 | 36.7 | 41.3 | 41.8 | 94.5 | 167.3 | 228.0 | 248.3 | 187.9 | 138.4 | 81.7 | 645.5 | 265.5 | 96.9 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 226 | MP | 573.4 | 683.1 | 610.1 | 361.6 | 158.1 | 176.0 | 192.0 | 144.4 | 272.6 | 108.8 | 81.3 | 706.0 | 345.4 | 212.3 |
| 227 | MP | 400.4 | 472.0 | 389.6 | 160.3 | 164.2 | 254.8 | 379.5 | 266.8 | 252.5 | 96.7 | 85.7 | 519.7 | 309.2 | 197.2 |
| 228 | MP | 75.1 | 19.0 | 28.7 | 40.9 | 42.9 | 85.6 | 159.3 | 304.2 | 250.7 | 114.8 | 75.4 | 677.0 | 319.1 | 167.6 |
| 229 | MP | 48.5 | 12.5 | 9.1 | 12.6 | 24.3 | 75.1 | 144.6 | 221.9 | 242.3 | 128.9 | 70.9 | 784.6 | 327.2 | 146.6 |
| 230 | MP | 46.4 | 15.8 | 11.1 | 23.3 | 58.4 | 75.3 | 187.0 | 349.7 | 254.0 | 138.8 | 68.1 | 604.0 | 358.7 | 156.8 |
| 231 | MP | 86.2 | 16.2 | 17.3 | 16.2 | 31.2 | 91.1 | 152.3 | 229.2 | 255.0 | 112.0 | 74.1 | 587.8 | 331.4 | 181.2 |
| 232 | MP | 102.9 | 21.7 | 11.6 | 32.8 | 34.9 | 85.6 | 172.4 | 381.9 | 254.2 | 113.4 | 68.0 | 459.3 | 335.6 | 170.0 |
| 233 | MP | 99.8 | 20.7 | 10.5 | 38.1 | 30.0 | 76.4 | 158.9 | 357.4 | 256.1 | 118.4 | 66.4 | 465.9 | 342.2 | 165.2 |
| 234 | MP | 271.1 | 144.4 | 72.8 | 66.2 | 32.9 | 66.6 | 146.5 | 271.1 | 266.4 | 89.6 | 80.8 | 393.7 | 323.5 | 213.2 |
| 235 | MP | 268.7 | 179.7 | 96.7 | 52.0 | 31.3 | 11.3 | 18.7 | 84.0 | 268.0 | 85.3 | 80.7 | 622.7 | 326.0 | 221.3 |
| 236 | MP | 295.7 | 157.0 | 120.8 | 84.5 | 34.8 | 52.1 | 83.0 | 198.2 | 269.7 | 89.1 | 84.8 | 361.0 | 325.1 | 220.7 |
| 237 | MP | 235.2 | 128.0 | 97.4 | 83.4 | 39.4 | 51.9 | 113.0 | 222.9 | 271.8 | 85.1 | 82.5 | 435.7 | 327.0 | 224.4 |
| 238 | MP | 341.1 | 315.3 | 235.1 | 103.7 | 56.7 | 65.7 | 108.0 | 98.0 | 259.7 | 102.2 | 90.4 | 369.5 | 316.8 | 204.2 |
| 239 | MP | 73.1 | 34.5 | 25.0 | 27.1 | 54.6 | 33.3 | 74.1 | 194.0 | 253.1 | 109.9 | 76.0 | 309.3 | 326.0 | 182.5 |
| 240 | MP | 54.1 | 9.1 | 6.9 | 12.6 | 25.3 | 68.8 | 136.1 | 209.4 | 256.3 | 122.4 | 72.4 | 683.3 | 341.8 | 173.7 |
| 241 | MP | 123.1 | 28.3 | 13.5 | 45.3 | 34.2 | 74.5 | 158.7 | 352.0 | 257.3 | 115.7 | 65.9 | 445.0 | 342.3 | 168.0 |
| 242 | MP | 207.0 | 107.0 | 82.0 | 70.0 | 34.0 | 44.0 | 112.0 | 200.0 | 272.0 | 84.0 | 82.0 | 480.0 | 328.0 | 226.0 |
| 243 | MP | 83.1 | 24.6 | 10.2 | 23.3 | 33.5 | 78.6 | 163.1 | 349.5 | 254.8 | 113.1 | 68.1 | 478.5 | 335.7 | 171.1 |
| 244 | MP | 251.5 | 150.5 | 128.8 | 110.3 | 106.8 | 90.5 | 35.3 | 189.8 | 268.0 | 93.5 | 88.8 | 290.3 | 323.3 | 218.5 |
| 245 | MP | 20.2 | 8.0 | 4.0 | 20.0 | 73.5 | 85.7 | 162.0 | 377.4 | 256.2 | 137.6 | 71.3 | 518.2 | 352.0 | 160.4 |
| 246 | MP | 84.0 | 65.5 | 51.5 | 39.0 | 60.0 | 91.5 | 157.5 | 248.5 | 238.0 | 105.0 | 71.5 | 1227.5 | 307.0 | 161.5 |
| 247 | MP | 52.7 | 43.9 | 26.2 | 26.3 | 50.5 | 58.6 | 146.4 | 263.9 | 257.0 | 118.7 | 67.7 | 1348.6 | 337.7 | 164.2 |
| 248 | MP | 77.5 | 74.0 | 35.7 | 33.2 | 51.0 | 82.5 | 112.8 | 194.3 | 250.8 | 111.0 | 63.6 | 1764.7 | 326.5 | 153.1 |
| 249 | MP | 318.5 | 206.5 | 119.5 | 153.8 | 93.3 | 84.8 | 36.0 | 166.5 | 260.5 | 85.0 | 78.8 | 597.3 | 322.5 | 215.3 |
| 250 | MP | 55.5 | 26.1 | 19.2 | 44.9 | 97.0 | 114.4 | 137.8 | 246.0 | 214.5 | 113.1 | 71.0 | 1212.8 | 288.7 | 130.8 |
| 251 | MP | 47.8 | 13.9 | 8.3 | 11.9 | 29.4 | 61.9 | 149.9 | 246.5 | 253.4 | 124.9 | 71.8 | 831.9 | 337.7 | 164.7 |
| 252 | MP | 28.0 | 5.0 | 2.0 | 8.0 | 12.3 | 79.5 | 178.5 | 309.0 | 250.0 | 142.0 | 68.0 | 850.8 | 351.0 | 144.3 |
| 253 | MP | 70.0 | 36.0 | 18.0 | 26.0 | 67.0 | 39.0 | 77.0 | 252.0 | 253.0 | 113.0 | 79.0 | 321.0 | 326.0 | 184.0 |
| 254 | MP | 297.0 | 375.8 | 357.4 | 143.4 | 125.8 | 189.6 | 268.2 | 189.2 | 120.0 | 88.0 | 86.6 | 376.6 | 172.8 | 71.6 |
| 255 | MP | 339.0 | 480.7 | 508.3 | 197.3 | 142.3 | 183.0 | 239.0 | 187.7 | 173.0 | 98.0 | 90.3 | 293.7 | 226.7 | 119.0 |
| 256 | MP | 435.5 | 327.5 | 85.9 | 144.1 | 83.4 | 79.8 | 112.7 | 308.4 | 257.8 | 83.9 | 75.5 | 463.6 | 320.0 | 209.4 |
| 257 | MP | 204.0 | 207.0 | 160.5 | 93.5 | 91.0 | 225.5 | 332.0 | 139.5 | 145.5 | 78.0 | 90.0 | 245.0 | 189.0 | 103.0 |
| 258 | MP | 417.0 | 632.0 | 434.0 | 262.0 | 230.0 | 301.0 | 281.0 | 131.0 | 265.0 | 98.0 | 77.0 | 706.0 | 335.0 | 209.0 |
| 259 | MP | 455.5 | 549.0 | 496.0 | 254.5 | 186.0 | 282.0 | 293.0 | 167.0 | 270.0 | 96.0 | 73.5 | 888.5 | 341.5 | 212.0 |
| 260 | MP | 277.4 | 604.1 | 502.4 | 319.7 | 95.0 | 92.7 | 170.3 | 207.2 | 246.9 | 105.7 | 86.0 | 369.3 | 309.4 | 187.3 |
| 261 | MP | 205.8 | 192.8 | 64.0 | 65.8 | 45.0 | 45.5 | 52.8 | 145.0 | 265.5 | 82.0 | 77.3 | 609.0 | 326.5 | 220.8 |
| 262 | MP | 446.5 | 402.6 | 307.0 | 95.4 | 79.4 | 150.1 | 221.8 | 307.8 | 260.5 | 92.9 | 86.5 | 351.2 | 315.2 | 208.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 263 | MP | 520.5 | 394.0 | 90.3 | 160.3 | 80.0 | 82.3 | 125.0 | 343.0 | 259.3 | 84.5 | 75.0 | 446.0 | 322.5 | 210.0 |
| 264 | MP | 404.9 | 191.0 | 140.8 | 51.3 | 15.3 | 8.7 | 10.5 | 61.6 | 269.1 | 78.2 | 79.3 | 496.1 | 319.9 | 221.8 |
| 265 | MP | 421.7 | 344.2 | 252.4 | 72.8 | 54.3 | 90.6 | 165.7 | 258.7 | 265.8 | 92.2 | 86.7 | 309.5 | 320.4 | 215.0 |
| 266 | MP | 121.2 | 25.5 | 13.9 | 43.0 | 31.8 | 83.3 | 175.7 | 377.0 | 258.2 | 114.0 | 67.0 | 443.4 | 340.9 | 171.7 |
| 267 | MP | 140.9 | 38.5 | 15.0 | 48.3 | 42.1 | 71.9 | 142.7 | 331.3 | 262.2 | 112.6 | 65.0 | 428.5 | 345.8 | 174.0 |
| 268 | MP | 235.6 | 142.2 | 99.9 | 100.8 | 51.2 | 38.7 | 90.7 | 191.0 | 269.9 | 88.0 | 79.6 | 407.7 | 327.3 | 217.0 |
| 269 | MP | 191.3 | 128.2 | 68.1 | 63.6 | 92.2 | 144.3 | 208.7 | 308.2 | 256.0 | 101.0 | 83.9 | 344.8 | 314.6 | 194.8 |
| 270 | MP | 211.6 | 83.0 | 51.5 | 63.7 | 38.8 | 67.1 | 154.4 | 275.0 | 266.5 | 94.8 | 75.0 | 396.3 | 329.8 | 204.2 |
| 271 | MP | 265.1 | 135.2 | 76.2 | 73.1 | 41.7 | 56.9 | 126.5 | 241.5 | 268.3 | 88.9 | 79.8 | 388.5 | 325.8 | 215.0 |
| 272 | MP | 348.5 | 258.0 | 130.1 | 128.6 | 79.1 | 59.1 | 35.6 | 139.4 | 257.3 | 88.0 | 80.4 | 607.9 | 320.3 | 211.5 |
| 273 | MP | 245.7 | 128.5 | 99.5 | 73.2 | 35.9 | 44.3 | 106.8 | 244.7 | 271.5 | 85.2 | 83.1 | 415.7 | 326.5 | 224.3 |
| 274 | MP | 204.2 | 108.8 | 86.5 | 70.5 | 36.0 | 44.5 | 112.7 | 218.0 | 272.7 | 84.0 | 81.8 | 453.3 | 328.0 | 225.8 |
| 275 | MP | 279.6 | 122.1 | 112.5 | 71.3 | 25.9 | 28.9 | 72.5 | 167.2 | 271.0 | 86.1 | 81.2 | 460.4 | 328.6 | 223.3 |
| 276 | MP | 283.9 | 153.3 | 80.8 | 69.2 | 29.7 | 65.4 | 145.5 | 280.5 | 265.9 | 88.9 | 81.6 | 371.9 | 322.6 | 214.3 |
| 277 | MP | 380.3 | 321.8 | 184.8 | 129.1 | 86.9 | 57.7 | 43.7 | 134.3 | 269.6 | 87.6 | 82.2 | 515.7 | 329.3 | 223.2 |
| 278 | MP | 441.1 | 396.5 | 302.5 | 97.2 | 80.9 | 153.2 | 224.1 | 311.4 | 260.1 | 92.7 | 86.4 | 354.2 | 314.7 | 208.0 |
| 279 | MP | 285.2 | 127.4 | 91.5 | 66.6 | 26.5 | 70.4 | 151.0 | 310.5 | 264.6 | 88.7 | 82.9 | 343.6 | 321.0 | 214.7 |
| 280 | MP | 268.0 | 120.5 | 64.1 | 66.9 | 27.9 | 76.5 | 151.8 | 310.9 | 264.5 | 90.9 | 80.7 | 372.1 | 322.5 | 210.4 |
| 281 | MP | 255.4 | 122.4 | 70.0 | 73.6 | 42.0 | 60.2 | 126.5 | 245.2 | 268.1 | 89.9 | 78.8 | 390.3 | 326.6 | 213.4 |
| 282 | MP | 170.1 | 114.7 | 50.5 | 50.8 | 53.4 | 100.3 | 169.6 | 286.1 | 258.7 | 97.5 | 81.6 | 345.9 | 317.7 | 198.9 |
| 283 | MP | 155.3 | 211.2 | 133.0 | 78.9 | 89.8 | 142.8 | 250.4 | 181.7 | 182.6 | 114.4 | 85.5 | 427.9 | 253.4 | 120.4 |
| 284 | MP | 299.4 | 283.4 | 164.8 | 66.2 | 27.0 | 28.5 | 67.8 | 68.1 | 272.5 | 99.4 | 86.9 | 440.4 | 329.5 | 215.9 |
| 285 | MP | 347.6 | 266.9 | 188.8 | 118.0 | 89.3 | 172.9 | 234.2 | 345.6 | 256.5 | 91.2 | 85.0 | 348.4 | 311.2 | 204.5 |
| 286 | MP | 50.0 | 9.0 | 4.0 | 23.5 | 16.0 | 76.5 | 151.5 | 301.5 | 235.5 | 131.0 | 68.0 | 637.5 | 323.5 | 133.0 |
| 287 | MP | 340.2 | 157.3 | 102.1 | 37.8 | 21.2 | 37.0 | 65.2 | 178.8 | 269.8 | 89.2 | 83.3 | 434.6 | 327.1 | 220.4 |
| 288 | MP | 158.8 | 136.3 | 67.8 | 65.5 | 107.5 | 130.5 | 263.0 | 424.0 | 252.0 | 110.3 | 63.0 | 1959.0 | 326.0 | 152.0 |
| 289 | MP | 256.9 | 101.8 | 87.0 | 50.4 | 29.7 | 79.1 | 171.5 | 344.1 | 263.8 | 90.8 | 81.5 | 298.2 | 322.1 | 211.6 |
| 290 | MP | 84.6 | 19.6 | 8.8 | 26.8 | 31.9 | 79.7 | 163.1 | 355.0 | 253.6 | 114.8 | 68.0 | 466.7 | 336.0 | 168.3 |
| 291 | MP | 347.9 | 304.9 | 166.0 | 113.2 | 71.1 | 46.4 | 29.8 | 118.3 | 258.8 | 89.1 | 80.8 | 614.8 | 321.3 | 211.9 |
| 292 | MP | 120.3 | 43.5 | 19.2 | 33.1 | 60.3 | 28.6 | 61.3 | 221.7 | 256.1 | 108.9 | 82.6 | 306.1 | 323.3 | 192.0 |
| 293 | MP | 387.1 | 238.7 | 156.8 | 65.2 | 21.7 | 14.7 | 24.8 | 213.8 | 267.3 | 78.1 | 76.9 | 596.5 | 327.0 | 226.1 |
| 294 | MP | 206.4 | 82.6 | 46.6 | 56.1 | 69.1 | 50.7 | 104.3 | 234.8 | 265.0 | 98.5 | 71.8 | 392.5 | 333.3 | 197.0 |
| 295 | MP | 121.7 | 47.5 | 16.6 | 28.1 | 76.1 | 33.8 | 84.5 | 237.2 | 251.4 | 113.1 | 77.9 | 416.0 | 324.4 | 179.7 |
| 296 | MP | 274.8 | 363.8 | 221.9 | 100.9 | 25.7 | 22.4 | 50.3 | 73.8 | 266.4 | 106.4 | 88.7 | 484.7 | 327.3 | 207.7 |
| 297 | MP | 85.0 | 12.8 | 7.0 | 12.9 | 29.3 | 75.6 | 140.3 | 253.9 | 262.8 | 114.4 | 70.9 | 653.7 | 343.3 | 182.9 |
| 298 | MP | 88.0 | 24.4 | 23.8 | 22.4 | 29.9 | 89.6 | 154.6 | 255.2 | 260.6 | 105.0 | 75.9 | 563.8 | 328.5 | 190.5 |
| 299 | MP | 346.8 | 492.9 | 338.4 | 151.1 | 174.0 | 192.8 | 331.4 | 246.7 | 161.9 | 107.2 | 85.8 | 484.0 | 226.0 | 101.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 300 | MP | 86.1 | 14.2 | 11.2 | 13.7 | 30.0 | 85.0 | 139.3 | 226.3 | 259.4 | 112.2 | 71.9 | 620.9 | 337.7 | 182.8 |
| 301 | MP | 462.9 | 564.9 | 586.2 | 301.3 | 180.4 | 205.5 | 222.7 | 231.2 | 260.4 | 98.5 | 82.4 | 570.7 | 326.6 | 207.7 |
| 302 | MP | 476.0 | 396.0 | 106.5 | 193.5 | 98.0 | 90.0 | 126.0 | 347.0 | 256.5 | 81.0 | 76.0 | 456.0 | 317.0 | 211.0 |
| 303 | MP | 45.0 | 22.1 | 12.4 | 13.1 | 31.6 | 57.1 | 150.9 | 253.8 | 251.8 | 125.5 | 70.8 | 1086.6 | 334.0 | 157.8 |
| 304 | MP | 427.6 | 424.9 | 372.6 | 160.4 | 131.1 | 180.5 | 249.2 | 212.8 | 258.8 | 92.3 | 80.5 | 695.2 | 316.3 | 202.5 |
| 305 | MP | 185.5 | 154.8 | 107.2 | 98.1 | 159.5 | 253.0 | 301.1 | 453.5 | 238.7 | 106.0 | 78.3 | 804.3 | 302.5 | 168.0 |
| 306 | MP | 73.6 | 34.6 | 41.7 | 50.0 | 114.6 | 151.9 | 204.7 | 247.1 | 197.9 | 146.6 | 79.4 | 714.4 | 283.9 | 100.2 |
| 307 | MP | 131.1 | 144.9 | 87.5 | 49.3 | 87.2 | 140.3 | 233.0 | 134.9 | 189.3 | 109.1 | 83.4 | 430.8 | 255.7 | 125.8 |
| 308 | MP | 113.0 | 65.9 | 61.6 | 44.6 | 92.9 | 166.1 | 297.0 | 305.5 | 227.7 | 127.4 | 80.8 | 521.2 | 303.3 | 146.7 |
| 309 | MP | 440.3 | 472.5 | 407.6 | 171.0 | 138.1 | 187.9 | 254.1 | 203.3 | 261.1 | 91.0 | 79.2 | 735.9 | 318.7 | 204.5 |
| 310 | MP | 72.7 | 39.3 | 43.3 | 51.2 | 111.1 | 154.5 | 215.7 | 249.9 | 225.5 | 139.3 | 80.0 | 629.5 | 308.2 | 135.0 |
| 311 | MP | 71.1 | 29.2 | 34.7 | 52.2 | 43.5 | 79.8 | 149.8 | 276.6 | 252.2 | 113.9 | 75.7 | 639.7 | 320.9 | 171.2 |
| 312 | MP | 319.7 | 446.1 | 237.5 | 143.3 | 186.9 | 232.7 | 420.0 | 302.9 | 229.5 | 103.1 | 82.3 | 538.4 | 296.5 | 172.0 |
| 313 | MP | 119.6 | 69.2 | 72.9 | 66.3 | 131.2 | 256.0 | 363.5 | 380.1 | 227.6 | 122.9 | 83.3 | 456.5 | 297.9 | 151.1 |
| 314 | MP | 73.9 | 71.2 | 37.5 | 32.5 | 50.3 | 78.3 | 110.8 | 187.9 | 252.7 | 110.7 | 64.9 | 1571.3 | 328.1 | 158.9 |
| 315 | MP | 88.1 | 75.5 | 42.2 | 39.2 | 68.7 | 93.0 | 141.3 | 238.7 | 241.5 | 108.4 | 68.2 | 1440.7 | 314.0 | 156.2 |
| 316 | MP | 400.9 | 493.1 | 451.1 | 172.2 | 150.3 | 231.5 | 345.3 | 242.0 | 254.9 | 94.7 | 84.7 | 528.6 | 311.7 | 200.6 |
| 317 | MP | 270.6 | 369.4 | 298.5 | 127.8 | 137.0 | 155.8 | 248.4 | 184.0 | 129.0 | 105.1 | 85.6 | 504.8 | 193.2 | 71.2 |
| 318 | MP | 372.5 | 443.5 | 468.9 | 185.5 | 163.6 | 228.1 | 333.6 | 264.7 | 221.7 | 102.7 | 90.0 | 277.7 | 278.9 | 165.6 |
| 319 | MP | 205.7 | 232.3 | 244.7 | 91.3 | 84.0 | 196.3 | 285.3 | 236.3 | 161.3 | 100.0 | 90.7 | 193.7 | 216.3 | 106.7 |
| 320 | MP | 290.1 | 227.0 | 155.9 | 108.0 | 139.1 | 156.0 | 257.9 | 272.8 | 263.5 | 97.1 | 84.7 | 444.5 | 321.5 | 207.3 |
| 321 | MP | 63.2 | 37.3 | 34.0 | 41.9 | 48.7 | 85.2 | 138.6 | 246.0 | 256.5 | 109.4 | 68.8 | 1021.5 | 331.1 | 173.3 |
| 322 | MP | 29.9 | 17.6 | 11.3 | 20.7 | 48.7 | 65.7 | 88.6 | 137.4 | 74.0 | 157.3 | 72.0 | 1307.7 | 173.9 | -42.7 |
| 323 | MP | 274.5 | 180.1 | 96.2 | 78.6 | 120.1 | 154.1 | 226.5 | 260.6 | 266.7 | 103.0 | 81.4 | 444.6 | 327.8 | 202.2 |
| 324 | MP | 261.2 | 177.7 | 111.7 | 83.9 | 104.9 | 131.0 | 249.8 | 270.0 | 268.0 | 103.1 | 84.0 | 392.6 | 328.7 | 206.7 |
| 325 | MP | 312.3 | 322.1 | 310.8 | 149.8 | 135.6 | 183.0 | 291.7 | 270.2 | 256.6 | 97.7 | 85.8 | 487.1 | 312.6 | 199.6 |
| 326 | MP | 109.3 | 85.3 | 63.4 | 60.3 | 89.4 | 152.1 | 222.5 | 338.7 | 252.2 | 107.3 | 73.5 | 1071.0 | 320.9 | 175.9 |
| 327 | MP | 596.0 | 751.0 | 668.0 | 262.0 | 242.0 | 350.0 | 540.0 | 339.0 | 250.0 | 90.0 | 83.0 | 515.0 | 307.0 | 199.0 |
| 328 | MP | 114.4 | 45.1 | 33.5 | 44.2 | 39.0 | 78.9 | 158.1 | 274.4 | 256.4 | 108.6 | 76.6 | 570.9 | 322.0 | 181.0 |
| 329 | MP | 113.6 | 45.0 | 31.0 | 47.2 | 47.0 | 96.3 | 168.6 | 295.4 | 254.6 | 107.7 | 76.5 | 583.2 | 319.1 | 179.4 |
| 330 | MP | 80.3 | 28.3 | 6.3 | 24.3 | 33.7 | 93.7 | 166.7 | 322.3 | 251.3 | 112.3 | 69.0 | 517.7 | 331.0 | 169.3 |
| 331 | MP | 47.0 | 31.0 | 0.4 | 7.1 | 16.8 | 70.1 | 147.1 | 238.0 | 249.0 | 117.4 | 69.0 | 498.3 | 332.8 | 163.8 |
| 332 | MP | 115.0 | 52.1 | 25.2 | 18.7 | 46.2 | 107.4 | 187.5 | 278.9 | 253.6 | 115.9 | 79.0 | 634.7 | 320.9 | 174.8 |
| 333 | MP | 296.9 | 170.4 | 115.8 | 69.3 | 49.3 | 48.0 | 36.6 | 127.4 | 268.6 | 103.6 | 88.0 | 302.4 | 330.0 | 213.0 |
| 334 | MP | 419.2 | 396.0 | 307.8 | 106.2 | 84.3 | 156.4 | 207.9 | 296.5 | 257.1 | 92.6 | 85.9 | 384.1 | 311.5 | 204.7 |
| 335 | MP | 334.1 | 269.4 | 199.7 | 71.8 | 75.4 | 145.7 | 242.9 | 310.2 | 261.6 | 91.1 | 84.6 | 331.9 | 316.3 | 209.1 |
| 336 | MP | 77.8 | 11.9 | 7.4 | 14.8 | 27.8 | 76.7 | 135.7 | 229.8 | 261.0 | 116.0 | 71.8 | 638.6 | 341.7 | 181.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | MP | 159.7 | 66.6 | 44.3 | 47.3 | 42.0 | 98.4 | 164.9 | 319.2 | 263.8 | 99.3 | 77.0 | 322.7 | 328.0 | 200.0 |
| 338 | MP | 64.0 | 28.0 | 2.2 | 13.8 | 24.8 | 85.3 | 163.2 | 291.8 | 251.2 | 115.0 | 69.0 | 501.8 | 332.5 | 167.2 |
| 339 | MP | 284.9 | 160.0 | 109.4 | 30.9 | 42.0 | 79.1 | 174.0 | 284.2 | 266.0 | 89.0 | 84.8 | 305.4 | 321.2 | 217.0 |
| 340 | MP | 93.0 | 29.5 | 21.6 | 31.5 | 51.9 | 95.2 | 168.0 | 314.5 | 249.1 | 118.7 | 76.6 | 728.8 | 317.9 | 164.0 |
| 341 | MP | 69.7 | 22.9 | 22.7 | 33.8 | 48.2 | 82.5 | 145.8 | 276.4 | 251.3 | 110.1 | 71.1 | 816.5 | 321.3 | 167.6 |
| 342 | MP | 441.5 | 279.8 | 149.0 | 98.3 | 33.3 | 21.3 | 9.8 | 106.0 | 263.5 | 92.0 | 81.8 | 473.3 | 324.8 | 212.8 |
| 343 | MP | 77.0 | 29.3 | 9.7 | 12.7 | 35.7 | 14.3 | 64.7 | 167.3 | 266.0 | 112.0 | 77.0 | 283.0 | 339.0 | 194.0 |
| 344 | MP | 49.5 | 9.0 | 5.0 | 12.0 | 23.0 | 64.5 | 136.0 | 218.0 | 260.5 | 121.5 | 71.5 | 741.0 | 345.5 | 176.5 |
| 345 | MP | 342.0 | 133.0 | 90.0 | 30.0 | 8.0 | 4.0 | 10.0 | 33.0 | 269.0 | 75.0 | 78.0 | 512.0 | 318.0 | 222.0 |
| 346 | MP | 80.2 | 30.7 | 12.0 | 14.8 | 39.2 | 15.8 | 66.7 | 178.2 | 266.3 | 110.7 | 77.7 | 280.7 | 337.7 | 195.5 |
| 347 | MP | 57.8 | 29.8 | 1.5 | 10.8 | 22.5 | 80.8 | 159.5 | 275.0 | 251.8 | 115.5 | 68.5 | 505.0 | 333.5 | 166.8 |
| 348 | MP | 54.3 | 32.3 | 1.7 | 8.7 | 23.0 | 78.0 | 159.7 | 267.0 | 253.0 | 115.7 | 68.7 | 506.7 | 335.0 | 168.0 |
| 349 | MP | 113.2 | 22.5 | 12.8 | 38.0 | 34.7 | 87.9 | 177.1 | 391.4 | 256.2 | 113.3 | 67.8 | 449.0 | 337.6 | 171.6 |
| 350 | MP | 84.3 | 15.1 | 8.0 | 31.1 | 30.4 | 79.2 | 158.9 | 353.3 | 253.5 | 116.9 | 67.6 | 463.3 | 337.6 | 165.8 |
| 351 | MP | 364.9 | 279.5 | 158.9 | 118.9 | 111.4 | 75.5 | 49.4 | 143.2 | 268.3 | 95.3 | 85.0 | 437.4 | 329.6 | 218.3 |
| 352 | MP | 220.4 | 110.4 | 55.2 | 35.4 | 38.2 | 44.4 | 46.8 | 166.7 | 272.3 | 103.2 | 87.2 | 312.8 | 333.6 | 215.6 |
| 353 | MP | 82.0 | 26.0 | 5.0 | 23.0 | 32.0 | 96.0 | 170.0 | 332.0 | 251.0 | 113.0 | 69.0 | 528.0 | 331.0 | 169.0 |
| 354 | MP | 55.0 | 27.0 | 1.0 | 10.0 | 19.0 | 76.0 | 154.0 | 261.0 | 252.0 | 117.0 | 69.0 | 492.0 | 335.0 | 166.0 |
| 355 | MP | 85.0 | 24.4 | 20.9 | 21.4 | 29.6 | 87.3 | 149.1 | 265.6 | 261.7 | 104.1 | 76.7 | 477.4 | 327.6 | 192.8 |
| 356 | MP | 99.3 | 22.6 | 25.9 | 19.5 | 34.6 | 94.3 | 167.4 | 263.9 | 259.5 | 107.6 | 74.8 | 570.1 | 330.5 | 187.3 |
| 357 | MP | 59.0 | 26.0 | 1.0 | 12.0 | 20.0 | 79.0 | 158.0 | 274.0 | 250.0 | 116.0 | 69.0 | 515.0 | 333.0 | 165.0 |
| 358 | MP | 272.7 | 98.3 | 53.3 | 65.2 | 29.6 | 81.6 | 155.3 | 345.7 | 264.0 | 92.9 | 79.0 | 368.0 | 324.2 | 207.4 |
| 359 | MP | 92.7 | 42.2 | 19.1 | 50.9 | 32.2 | 78.0 | 154.0 | 297.1 | 262.0 | 102.0 | 71.5 | 548.7 | 331.9 | 190.3 |
| 360 | MP | 378.7 | 206.8 | 132.8 | 87.6 | 40.8 | 29.1 | 13.3 | 123.9 | 267.5 | 84.8 | 84.8 | 448.1 | 322.8 | 223.0 |
| 361 | MP | 376.0 | 231.2 | 172.4 | 155.2 | 111.3 | 89.7 | 34.9 | 173.4 | 268.9 | 92.7 | 85.8 | 400.1 | 327.2 | 219.9 |
| 362 | MP | 437.7 | 265.5 | 144.2 | 94.7 | 32.5 | 21.5 | 10.1 | 107.1 | 263.7 | 90.8 | 81.9 | 471.2 | 324.4 | 214.1 |
| 363 | MP | 60.0 | 33.0 | 3.5 | 12.8 | 27.5 | 79.3 | 161.0 | 282.5 | 251.5 | 115.0 | 68.8 | 502.5 | 333.5 | 167.3 |
| 364 | MP | 474.0 | 349.0 | 155.0 | 85.0 | 20.0 | 6.0 | 4.0 | 80.0 | 262.0 | 93.0 | 80.0 | 537.0 | 327.0 | 211.0 |
| 365 | MP | 441.0 | 319.0 | 156.0 | 81.0 | 20.0 | 6.0 | 5.0 | 65.0 | 263.0 | 90.0 | 80.0 | 526.0 | 325.0 | 213.0 |
| 366 | MP | 427.5 | 301.0 | 162.0 | 82.5 | 20.5 | 7.5 | 6.5 | 63.0 | 264.0 | 87.5 | 79.5 | 527.0 | 324.0 | 215.0 |
| 367 | MP | 392.2 | 194.7 | 148.1 | 73.7 | 32.1 | 8.6 | 7.4 | 106.4 | 273.7 | 72.6 | 80.5 | 565.4 | 321.3 | 231.7 |
| 368 | MP | 474.0 | 351.0 | 164.0 | 98.0 | 27.0 | 11.0 | 5.0 | 97.0 | 262.0 | 94.0 | 79.0 | 514.0 | 327.0 | 209.0 |
| 369 | MP | 400.0 | 225.0 | 133.7 | 90.3 | 37.7 | 27.3 | 12.7 | 117.3 | 266.3 | 87.0 | 83.7 | 444.7 | 323.3 | 220.0 |
| 370 | MP | 364.5 | 196.0 | 134.0 | 86.5 | 43.5 | 29.0 | 13.0 | 126.0 | 269.5 | 82.0 | 84.5 | 454.5 | 322.5 | 226.0 |
| 371 | MP | 53.7 | 32.0 | 2.0 | 8.3 | 24.3 | 77.0 | 161.3 | 269.3 | 250.7 | 115.7 | 68.7 | 509.7 | 333.3 | 165.7 |
| 372 | MP | 186.9 | 129.7 | 66.8 | 80.8 | 61.1 | 99.5 | 165.2 | 284.9 | 259.8 | 93.9 | 81.3 | 336.7 | 317.8 | 203.1 |
| 373 | MP | 120.5 | 52.8 | 32.3 | 20.0 | 37.0 | 96.9 | 151.3 | 291.8 | 261.0 | 103.8 | 78.6 | 403.9 | 324.6 | 193.3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 374 | MP | 69.5 | 31.0 | 5.5 | 18.5 | 31.0 | 86.0 | 162.5 | 297.5 | 252.5 | 113.5 | 68.5 | 521.5 | 333.5 | 169.0 |
| 375 | MP | 50.6 | 12.4 | 7.3 | 10.3 | 28.0 | 67.2 | 154.9 | 243.8 | 249.8 | 126.6 | 71.4 | 735.7 | 335.5 | 159.2 |
| 376 | MP | 57.0 | 29.0 | 1.0 | 10.5 | 21.5 | 79.5 | 158.0 | 272.0 | 251.0 | 116.0 | 69.0 | 502.0 | 333.5 | 166.5 |
| 377 | MP | 283.9 | 209.9 | 123.1 | 55.6 | 26.8 | 16.0 | 21.9 | 62.8 | 265.4 | 88.6 | 82.9 | 567.9 | 323.8 | 217.7 |
| 378 | MP | 381.5 | 342.6 | 178.5 | 114.0 | 67.6 | 48.1 | 39.6 | 125.6 | 268.1 | 87.8 | 81.6 | 558.7 | 328.8 | 221.7 |
| 379 | MP | 60.3 | 9.9 | 7.0 | 14.3 | 24.9 | 71.0 | 134.1 | 212.2 | 259.4 | 119.9 | 72.4 | 662.8 | 342.5 | 178.0 |
| 380 | MP | 65.2 | 10.2 | 8.2 | 15.4 | 25.7 | 75.2 | 132.3 | 202.5 | 257.7 | 119.5 | 73.0 | 625.0 | 340.2 | 177.3 |
| 381 | MP | 183.0 | 89.6 | 42.3 | 43.5 | 76.6 | 155.4 | 211.5 | 301.2 | 256.7 | 104.0 | 80.2 | 488.4 | 317.3 | 188.2 |
| 382 | MP | 146.1 | 62.1 | 26.6 | 31.4 | 62.4 | 26.8 | 64.6 | 199.0 | 254.8 | 104.8 | 79.0 | 461.7 | 321.3 | 189.4 |
| 383 | MP | 310.9 | 243.8 | 168.8 | 123.6 | 81.9 | 157.6 | 223.4 | 328.2 | 257.6 | 91.1 | 84.5 | 338.9 | 312.7 | 205.1 |
| 384 | MP | 82.6 | 14.5 | 12.4 | 12.3 | 29.5 | 83.2 | 142.1 | 232.5 | 261.4 | 110.7 | 71.5 | 634.1 | 339.1 | 185.3 |
| 385 | MP | 83.1 | 13.0 | 9.7 | 15.3 | 29.3 | 82.2 | 134.7 | 220.8 | 260.2 | 114.5 | 71.9 | 620.0 | 339.9 | 181.8 |
| 386 | MP | 91.0 | 34.3 | 15.1 | 35.7 | 42.3 | 88.9 | 157.3 | 315.9 | 256.3 | 109.4 | 68.9 | 541.3 | 333.5 | 175.8 |
| 387 | MP | 345.5 | 273.3 | 227.9 | 75.4 | 42.5 | 57.0 | 114.3 | 189.0 | 266.7 | 93.8 | 87.9 | 309.0 | 321.6 | 215.7 |
| 388 | MP | 136.1 | 47.4 | 24.4 | 36.5 | 48.1 | 20.5 | 51.8 | 184.1 | 250.1 | 107.5 | 80.7 | 393.2 | 316.9 | 184.5 |
| 389 | MP | 155.0 | 64.8 | 36.9 | 52.9 | 53.7 | 116.6 | 178.9 | 311.9 | 255.0 | 103.3 | 75.7 | 586.9 | 317.8 | 182.1 |
| 390 | MP | 163.3 | 68.4 | 37.9 | 46.7 | 77.4 | 34.8 | 85.8 | 231.9 | 257.6 | 104.5 | 77.8 | 485.2 | 325.2 | 191.7 |
| 391 | MP | 56.0 | 31.0 | 2.0 | 9.0 | 23.0 | 79.0 | 159.0 | 270.0 | 252.0 | 116.0 | 69.0 | 505.0 | 334.0 | 167.0 |
| 392 | MP | 363.0 | 195.0 | 134.0 | 87.0 | 43.0 | 29.0 | 13.0 | 126.0 | 269.0 | 83.0 | 85.0 | 448.0 | 322.0 | 225.0 |
| 393 | MP | 55.5 | 31.5 | 1.8 | 9.0 | 23.3 | 78.8 | 159.5 | 269.8 | 252.8 | 115.5 | 68.8 | 505.5 | 334.5 | 167.8 |
| 394 | MP | 71.0 | 29.0 | 4.0 | 18.5 | 29.5 | 89.0 | 164.5 | 305.5 | 252.5 | 113.5 | 69.0 | 523.0 | 333.0 | 169.0 |
| 395 | MP | 241.3 | 125.5 | 76.2 | 55.0 | 58.0 | 18.3 | 41.0 | 166.1 | 261.9 | 95.7 | 80.1 | 546.3 | 325.7 | 206.7 |
| 396 | MP | 351.8 | 214.2 | 155.1 | 130.0 | 83.4 | 72.0 | 27.4 | 156.7 | 268.7 | 95.7 | 87.0 | 355.9 | 327.4 | 218.1 |
| 397 | MP | 279.9 | 217.5 | 130.1 | 62.2 | 42.0 | 23.3 | 28.7 | 81.2 | 267.2 | 91.5 | 83.6 | 540.1 | 326.7 | 217.9 |
| 398 | MP | 256.8 | 349.8 | 427.4 | 147.1 | 103.1 | 157.2 | 202.5 | 176.0 | 111.7 | 86.9 | 87.6 | 441.4 | 162.5 | 64.1 |
| 399 | MP | 224.0 | 211.0 | 162.0 | 94.0 | 97.0 | 237.0 | 339.0 | 162.0 | 152.0 | 81.0 | 90.0 | 248.0 | 197.0 | 107.0 |
| 400 | MP | 329.1 | 474.5 | 546.3 | 184.4 | 139.6 | 187.0 | 263.9 | 236.2 | 152.6 | 97.8 | 90.1 | 348.4 | 206.9 | 99.1 |
| 401 | MP | 245.8 | 235.5 | 73.5 | 87.3 | 52.8 | 52.0 | 64.3 | 160.3 | 265.0 | 81.0 | 78.3 | 577.3 | 324.0 | 221.3 |
| 402 | MP | 171.6 | 194.1 | 80.5 | 80.5 | 110.0 | 95.9 | 68.2 | 140.2 | 266.7 | 82.4 | 76.8 | 651.7 | 326.8 | 220.2 |
| 403 | MP | 191.0 | 173.0 | 72.5 | 97.3 | 92.5 | 77.5 | 64.3 | 150.5 | 266.5 | 84.0 | 77.0 | 643.5 | 328.0 | 220.0 |
| 404 | MP | 246.3 | 225.4 | 119.8 | 53.5 | 71.6 | 23.9 | 46.0 | 146.6 | 262.8 | 88.8 | 76.0 | 715.7 | 329.6 | 213.6 |
| 405 | MP | 181.6 | 176.8 | 69.7 | 121.1 | 97.0 | 85.2 | 65.8 | 132.8 | 265.2 | 82.4 | 75.2 | 681.7 | 327.7 | 218.7 |
| 406 | MP | 164.3 | 217.6 | 110.2 | 62.0 | 91.7 | 42.6 | 53.3 | 138.9 | 271.3 | 86.9 | 79.6 | 598.2 | 330.1 | 221.5 |
| 407 | MP | 322.5 | 240.4 | 72.3 | 147.2 | 88.5 | 87.3 | 100.8 | 228.1 | 252.1 | 83.7 | 77.3 | 489.8 | 313.1 | 205.4 |
| 408 | MP | 502.9 | 393.2 | 95.8 | 173.0 | 88.0 | 86.5 | 126.0 | 344.4 | 258.6 | 83.1 | 75.0 | 449.4 | 321.0 | 210.8 |
| 409 | MP | 445.4 | 280.0 | 75.4 | 139.3 | 81.9 | 77.0 | 117.5 | 324.9 | 251.5 | 87.8 | 74.7 | 432.5 | 316.1 | 199.1 |
| 410 | MP | 97.5 | 44.0 | 19.9 | 50.4 | 32.4 | 77.2 | 155.5 | 300.5 | 261.9 | 102.5 | 71.7 | 534.1 | 332.5 | 190.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 411 | MP | 139.8 | 187.7 | 83.0 | 59.5 | 101.3 | 80.5 | 63.2 | 116.0 | 269.5 | 81.0 | 77.5 | 619.5 | 326.8 | 223.0 |
| 412 | MP | 41.0 | 27.5 | 0.5 | 6.0 | 14.8 | 61.4 | 140.8 | 224.0 | 248.5 | 119.8 | 68.5 | 490.7 | 334.3 | 160.8 |
| 413 | MP | 315.2 | 208.9 | 93.3 | 44.6 | 60.8 | 13.7 | 28.0 | 60.2 | 260.2 | 105.5 | 77.1 | 695.2 | 341.3 | 205.4 |
| 414 | MP | 194.2 | 196.0 | 80.6 | 93.2 | 80.2 | 73.8 | 63.6 | 147.2 | 264.9 | 81.9 | 76.9 | 610.1 | 326.3 | 220.4 |
| 415 | MP | 42.5 | 25.0 | 10.4 | 10.0 | 27.3 | 55.5 | 136.6 | 222.2 | 244.0 | 131.6 | 69.7 | 1347.7 | 329.3 | 141.5 |
| 416 | MP | 72.0 | 17.7 | 8.4 | 9.1 | 22.5 | 83.8 | 165.3 | 205.1 | 263.9 | 106.9 | 74.3 | 590.1 | 336.0 | 192.8 |
| 417 | MP | 174.2 | 140.8 | 72.7 | 70.0 | 116.3 | 146.3 | 296.8 | 467.9 | 252.0 | 110.5 | 62.3 | 2000.7 | 327.0 | 150.7 |
| 418 | MP | 267.5 | 154.0 | 129.0 | 114.0 | 102.5 | 90.0 | 35.5 | 187.0 | 268.0 | 93.0 | 88.0 | 307.5 | 323.0 | 218.0 |
| 419 | MP | 45.3 | 34.5 | 16.8 | 16.9 | 34.8 | 53.1 | 138.3 | 231.1 | 250.9 | 124.3 | 69.1 | 1385.1 | 332.6 | 154.0 |
| 420 | MP | 171.5 | 112.5 | 67.5 | 64.5 | 114.5 | 214.0 | 286.5 | 456.0 | 246.0 | 117.5 | 63.0 | 1996.5 | 324.5 | 139.5 |
| 421 | MP | 63.4 | 44.2 | 45.5 | 35.0 | 43.9 | 66.4 | 125.0 | 217.4 | 260.5 | 111.8 | 71.1 | 1042.3 | 335.6 | 179.6 |
| 422 | MP | 329.0 | 445.5 | 299.0 | 162.0 | 181.5 | 234.0 | 422.0 | 293.5 | 203.0 | 111.0 | 84.0 | 516.5 | 275.5 | 143.5 |
| 423 | MP | 164.7 | 138.3 | 69.7 | 67.0 | 110.7 | 136.0 | 275.0 | 439.7 | 252.0 | 110.3 | 62.3 | 1992.0 | 327.0 | 151.0 |
| 424 | MP | 377.1 | 497.3 | 485.7 | 186.6 | 159.3 | 220.6 | 322.1 | 277.9 | 202.7 | 104.9 | 91.3 | 242.7 | 259.9 | 145.7 |
| 425 | MP | 64.5 | 62.0 | 33.0 | 32.5 | 63.0 | 70.0 | 132.5 | 233.0 | 257.5 | 114.0 | 65.5 | 1541.5 | 336.0 | 163.0 |
| 426 | MP | 14.2 | 6.8 | 8.2 | 16.7 | 46.7 | 67.6 | 114.0 | 150.7 | 99.0 | 160.6 | 75.2 | 1098.0 | 197.7 | -14.9 |
| 427 | MP | 9.0 | 5.0 | 6.0 | 17.0 | 55.0 | 55.0 | 94.0 | 120.0 | 57.0 | 164.0 | 73.0 | 1224.0 | 158.0 | -64.0 |
| 428 | MP | 121.2 | 130.8 | 81.8 | 46.5 | 87.0 | 139.7 | 224.3 | 125.7 | 181.9 | 108.9 | 82.8 | 423.2 | 248.3 | 117.6 |
| 429 | MP | 61.0 | 34.1 | 36.8 | 37.6 | 80.0 | 119.4 | 171.3 | 231.6 | 196.6 | 146.4 | 78.4 | 732.3 | 285.5 | 99.9 |
| 430 | MP | 37.2 | 15.0 | 22.0 | 22.4 | 71.6 | 111.2 | 131.8 | 147.4 | 141.6 | 144.8 | 80.2 | 758.4 | 222.8 | 43.0 |
| 431 | MP | 83.1 | 77.6 | 58.0 | 36.9 | 40.1 | 96.3 | 153.6 | 116.2 | 139.7 | 121.5 | 88.5 | 296.5 | 208.3 | 71.7 |
| 432 | MP | 189.5 | 334.8 | 155.6 | 85.2 | 89.2 | 11.5 | 41.3 | 116.7 | 266.4 | 88.2 | 79.4 | 562.2 | 325.2 | 214.7 |
| 433 | MP | 86.4 | 80.5 | 41.3 | 38.6 | 68.1 | 76.3 | 150.6 | 269.5 | 255.9 | 113.0 | 64.2 | 1746.8 | 331.9 | 158.0 |
| 434 | MP | 146.1 | 442.6 | 337.2 | 240.3 | 81.6 | 60.9 | 105.9 | 133.6 | 221.0 | 103.9 | 85.0 | 384.9 | 283.0 | 161.3 |
| 435 | MP | 254.3 | 217.3 | 118.6 | 47.0 | 60.9 | 19.7 | 41.2 | 132.6 | 262.2 | 90.1 | 76.5 | 709.7 | 329.9 | 213.0 |
| 436 | MP | 131.6 | 140.2 | 85.5 | 51.5 | 95.3 | 145.1 | 220.6 | 128.9 | 192.6 | 102.9 | 79.6 | 464.7 | 257.9 | 129.6 |
| 437 | MP | 316.0 | 367.7 | 192.0 | 110.9 | 157.4 | 207.9 | 404.8 | 300.2 | 257.2 | 97.4 | 84.7 | 474.9 | 317.0 | 202.7 |
| 438 | MP | 208.5 | 107.4 | 65.9 | 66.1 | 91.3 | 150.2 | 232.7 | 261.2 | 260.5 | 109.7 | 78.6 | 547.8 | 327.7 | 189.0 |
| 439 | MP | 344.7 | 283.9 | 209.9 | 140.8 | 185.3 | 205.2 | 229.4 | 302.0 | 258.8 | 91.9 | 85.4 | 434.3 | 311.6 | 204.7 |
| 1 | MR | 376.9 | 403.5 | 248.8 | 224.4 | 194.0 | 215.1 | 259.4 | 250.1 | 296.2 | 101.0 | 80.4 | 389.3 | 363.6 | 238.7 |
| 2 | MR | 265.8 | 228.2 | 133.9 | 185.3 | 198.3 | 207.9 | 212.1 | 263.3 | 298.0 | 99.9 | 81.2 | 431.2 | 365.0 | 242.8 |
| 3 | MR | 22.8 | 12.9 | 6.2 | 11.9 | 37.5 | 58.6 | 114.1 | 135.1 | 135.9 | 138.6 | 72.9 | 1026.4 | 222.4 | 33.6 |
| 4 | MR | 279.7 | 266.7 | 118.4 | 137.6 | 171.8 | 187.8 | 219.6 | 235.3 | 298.3 | 96.9 | 74.2 | 792.5 | 373.6 | 244.0 |
| 5 | MR | 396.4 | 432.2 | 165.8 | 135.8 | 144.1 | 157.5 | 142.6 | 116.8 | 278.7 | 116.4 | 87.8 | 364.8 | 345.0 | 213.4 |
| 6 | MR | 263.5 | 233.3 | 59.1 | 72.8 | 120.9 | 164.0 | 239.5 | 187.9 | 312.8 | 124.4 | 74.7 | 638.2 | 404.4 | 239.1 |
| 7 | MR | 285.3 | 247.8 | 171.4 | 217.5 | 198.9 | 211.0 | 237.8 | 280.2 | 300.4 | 102.9 | 81.1 | 429.8 | 369.6 | 243.6 |
| 8 | MR | 310.4 | 493.7 | 240.1 | 121.3 | 89.7 | 112.3 | 117.1 | 113.6 | 202.9 | 111.7 | 85.6 | 446.3 | 272.7 | 142.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | MR | 249.8 | 179.4 | 115.0 | 116.6 | 111.1 | 136.1 | 178.5 | 230.7 | 30.1 | 7.4 | 38.6 | 15.4 | 30.9 | 28.8 |
| 10 | MR | 136.1 | 49.8 | 55.7 | 18.8 | 40.9 | 85.3 | 150.0 | 174.7 | 312.3 | 131.1 | 69.6 | 1118.2 | 406.5 | 219.6 |
| 11 | MR | 162.1 | 74.9 | 37.0 | 26.7 | 67.2 | 147.0 | 190.6 | 249.7 | 305.3 | 131.1 | 66.3 | 1702.5 | 396.8 | 200.4 |
| 12 | MR | 315.5 | 180.8 | 52.3 | 116.1 | 72.1 | 53.5 | 80.3 | 212.5 | 313.5 | 95.3 | 71.8 | 1281.7 | 386.4 | 254.7 |
| 13 | MR | 313.3 | 152.7 | 82.3 | 49.9 | 24.3 | 15.0 | 24.9 | 76.8 | 309.4 | 95.6 | 75.9 | 850.1 | 379.5 | 254.2 |
| 14 | MR | 273.7 | 161.5 | 124.8 | 178.3 | 141.5 | 114.8 | 152.2 | 180.5 | 311.2 | 100.4 | 78.0 | 823.3 | 381.1 | 253.1 |
| 15 | MR | 89.6 | 36.0 | 15.2 | 24.8 | 71.1 | 113.8 | 156.8 | 208.6 | 272.0 | 133.9 | 72.2 | 1508.7 | 358.0 | 173.9 |
| 16 | MR | 85.3 | 31.3 | 13.7 | 20.3 | 49.0 | 108.3 | 146.7 | 172.0 | 242.7 | 109.3 | 69.3 | 1373.3 | 318.3 | 162.3 |
| 17 | MR | 308.3 | 186.0 | 70.6 | 52.5 | 15.7 | 8.6 | 15.5 | 46.1 | 302.6 | 81.9 | 74.5 | 743.0 | 360.6 | 251.5 |
| 18 | MR | 64.4 | 18.4 | 6.6 | 15.6 | 42.8 | 87.2 | 101.4 | 146.4 | 239.4 | 125.8 | 75.8 | 1229.2 | 316.4 | 152.0 |
| 19 | MR | 316.0 | 198.0 | 42.0 | 64.0 | 45.0 | 32.0 | 88.0 | 173.0 | 307.0 | 78.0 | 66.0 | 1494.0 | 375.0 | 258.0 |
| 20 | MR | 94.3 | 38.1 | 20.1 | 30.9 | 67.6 | 54.3 | 133.7 | 260.7 | 309.5 | 133.5 | 74.6 | 1497.8 | 406.9 | 229.3 |
| 21 | MR | 214.4 | 43.8 | 37.5 | 35.3 | 76.7 | 156.5 | 181.1 | 224.3 | 314.0 | 125.8 | 74.1 | 1045.1 | 409.5 | 240.4 |
| 22 | MR | 277.0 | 138.0 | 66.0 | 121.0 | 121.0 | 99.0 | 116.0 | 238.0 | 314.0 | 109.0 | 79.0 | 978.0 | 389.0 | 252.0 |
| 23 | MR | 68.8 | 35.4 | 25.6 | 27.2 | 51.4 | 57.6 | 113.8 | 203.8 | 301.8 | 112.4 | 73.0 | 1091.0 | 379.2 | 226.0 |
| 24 | MR | 191.6 | 68.9 | 30.8 | 24.7 | 36.3 | 55.2 | 131.9 | 283.6 | 320.1 | 118.8 | 74.0 | 1462.6 | 408.7 | 249.2 |
| 25 | MR | 212.7 | 42.0 | 39.0 | 35.3 | 74.0 | 159.0 | 179.7 | 221.7 | 318.7 | 124.0 | 72.3 | 1107.0 | 414.3 | 243.3 |
| 26 | MR | 204.5 | 78.6 | 48.8 | 71.2 | 88.3 | 122.4 | 153.8 | 278.8 | 317.2 | 94.3 | 67.1 | 1578.8 | 399.9 | 260.2 |
| 27 | MR | 160.9 | 63.0 | 38.4 | 58.6 | 82.0 | 121.4 | 181.1 | 275.0 | 319.7 | 92.6 | 63.6 | 1826.3 | 407.0 | 262.4 |
| 28 | MR | 248.2 | 99.2 | 53.5 | 79.8 | 106.4 | 137.3 | 171.2 | 287.0 | 316.5 | 94.5 | 67.5 | 1601.6 | 399.4 | 260.2 |
| 29 | MR | 228.6 | 99.9 | 41.9 | 26.3 | 24.4 | 41.9 | 121.1 | 245.0 | 326.8 | 98.7 | 56.7 | 2651.9 | 433.1 | 260.7 |
| 30 | MR | 169.0 | 61.0 | 36.0 | 41.0 | 62.0 | 103.0 | 173.0 | 261.0 | 322.0 | 92.0 | 62.0 | 1899.0 | 411.0 | 265.0 |
| 31 | MR | 234.3 | 83.6 | 31.7 | 20.1 | 19.5 | 15.7 | 58.7 | 140.4 | 300.2 | 75.0 | 58.3 | 2071.7 | 372.5 | 244.8 |
| 32 | MR | 287.1 | 110.4 | 60.2 | 79.0 | 94.7 | 118.2 | 166.9 | 284.7 | 315.0 | 95.2 | 66.0 | 1729.0 | 401.6 | 258.5 |
| 33 | MR | 247.3 | 127.3 | 59.7 | 114.0 | 110.7 | 91.7 | 98.3 | 211.7 | 314.0 | 108.0 | 79.7 | 969.0 | 387.3 | 252.0 |
| 34 | MR | 324.2 | 183.2 | 38.9 | 52.8 | 30.0 | 24.3 | 71.8 | 165.6 | 306.3 | 76.9 | 66.6 | 1434.7 | 373.6 | 258.8 |
| 35 | MR | 185.5 | 48.0 | 19.5 | 53.0 | 80.5 | 164.0 | 209.5 | 244.5 | 316.5 | 118.0 | 68.0 | 1654.5 | 419.0 | 247.0 |
| 36 | MR | 72.5 | 34.2 | 26.3 | 26.6 | 53.2 | 58.3 | 118.0 | 215.0 | 298.7 | 112.6 | 73.3 | 1123.3 | 376.3 | 223.8 |
| 37 | MR | 119.5 | 48.9 | 31.9 | 32.1 | 52.9 | 118.7 | 187.0 | 256.0 | 313.9 | 126.7 | 68.1 | 1678.2 | 417.2 | 232.5 |
| 38 | MR | 164.4 | 61.6 | 36.8 | 47.4 | 69.3 | 110.1 | 176.8 | 266.0 | 321.7 | 92.0 | 62.9 | 1870.0 | 409.8 | 264.0 |
| 39 | MR | 94.0 | 41.7 | 14.7 | 23.7 | 65.7 | 107.0 | 155.3 | 202.3 | 282.0 | 124.3 | 70.3 | 1621.3 | 364.7 | 189.0 |
| 40 | MR | 95.5 | 27.8 | 20.0 | 32.4 | 58.4 | 55.9 | 158.0 | 240.3 | 298.3 | 135.0 | 73.3 | 1495.1 | 401.6 | 218.8 |
| 41 | MR | 284.4 | 164.8 | 138.3 | 186.9 | 156.9 | 124.0 | 150.1 | 194.8 | 309.2 | 101.1 | 82.0 | 612.9 | 374.3 | 251.7 |
| 42 | MR | 96.0 | 45.5 | 30.5 | 17.5 | 21.5 | 66.0 | 109.0 | 113.5 | 310.0 | 125.5 | 63.5 | 1722.5 | 407.0 | 212.0 |
| 43 | MR | 98.5 | 45.5 | 24.5 | 21.0 | 37.0 | 111.0 | 140.0 | 163.0 | 298.5 | 129.0 | 65.0 | 2345.0 | 389.5 | 192.5 |
| 44 | MR | 141.4 | 26.0 | 14.8 | 20.0 | 46.4 | 121.3 | 151.5 | 189.8 | 331.0 | 140.5 | 71.0 | 1124.5 | 439.1 | 243.4 |
| 45 | MR | 143.3 | 28.3 | 18.0 | 25.0 | 45.7 | 114.7 | 148.7 | 189.3 | 328.0 | 141.3 | 70.0 | 1021.7 | 434.3 | 235.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 46 | MR | 96.0 | 45.5 | 30.5 | 17.5 | 21.5 | 66.0 | 109.0 | 113.5 | 310.0 | 125.5 | 63.5 | 1722.5 | 407.0 | 212.0 |
| 47 | MR | 130.0 | 47.0 | 49.2 | 18.6 | 40.2 | 90.6 | 145.1 | 166.5 | 314.9 | 134.6 | 69.3 | 1097.2 | 413.0 | 220.2 |
| 48 | MR | 144.8 | 68.2 | 31.7 | 26.5 | 68.0 | 136.7 | 181.1 | 236.5 | 300.7 | 131.7 | 67.6 | 1694.3 | 391.0 | 197.5 |
| 49 | MR | 182.9 | 75.9 | 56.6 | 36.9 | 67.6 | 147.2 | 229.6 | 245.9 | 292.3 | 112.3 | 68.4 | 1180.6 | 371.9 | 208.9 |
| 50 | MR | 396.3 | 409.0 | 415.7 | 383.0 | 312.3 | 227.3 | 256.7 | 233.0 | 313.7 | 105.3 | 78.7 | 667.3 | 390.7 | 257.7 |
| 51 | MR | 65.6 | 23.1 | 8.6 | 17.0 | 45.8 | 89.6 | 112.4 | 149.9 | 217.0 | 124.6 | 72.5 | 1320.9 | 296.2 | 125.6 |
| 52 | MR | 77.6 | 36.8 | 17.8 | 20.8 | 29.6 | 91.1 | 125.8 | 148.0 | 278.6 | 143.1 | 67.6 | 2202.7 | 376.4 | 166.9 |
| 53 | MR | 176.5 | 87.6 | 62.6 | 27.6 | 57.2 | 127.7 | 200.6 | 252.2 | 309.5 | 125.1 | 64.3 | 1551.2 | 403.5 | 210.5 |
| 54 | MR | 128.7 | 64.8 | 33.1 | 26.6 | 52.9 | 113.0 | 172.8 | 195.2 | 267.3 | 119.2 | 69.3 | 1451.0 | 350.1 | 179.4 |
| 55 | MR | 273.0 | 247.1 | 78.1 | 91.8 | 160.7 | 213.2 | 232.6 | 244.2 | 303.6 | 111.3 | 75.3 | 683.4 | 386.2 | 239.3 |
| 56 | MR | 265.6 | 312.7 | 194.3 | 150.9 | 138.6 | 208.1 | 206.7 | 255.1 | 289.0 | 89.3 | 91.9 | 190.9 | 338.6 | 242.1 |
| 57 | MR | 225.0 | 122.0 | 55.0 | 104.0 | 97.0 | 83.0 | 81.0 | 187.0 | 314.0 | 106.0 | 79.0 | 973.0 | 387.0 | 253.0 |
| 58 | MR | 233.0 | 124.0 | 56.0 | 108.0 | 104.0 | 87.0 | 89.0 | 198.0 | 313.0 | 107.0 | 79.0 | 950.0 | 386.0 | 252.0 |
| 59 | MR | 233.0 | 91.0 | 52.0 | 76.0 | 98.0 | 134.0 | 196.0 | 278.0 | 315.0 | 94.0 | 65.0 | 1814.0 | 402.0 | 259.0 |
| 60 | MR | 154.0 | 25.0 | 26.0 | 30.0 | 69.0 | 139.0 | 187.0 | 202.0 | 305.0 | 116.0 | 68.0 | 859.0 | 396.0 | 226.0 |
| 61 | MR | 115.0 | 55.0 | 21.5 | 26.0 | 67.0 | 115.5 | 168.5 | 215.0 | 289.0 | 129.0 | 70.0 | 1683.5 | 375.0 | 192.0 |
| 62 | MR | 327.2 | 283.4 | 179.1 | 156.3 | 47.9 | 39.3 | 67.7 | 92.1 | 295.9 | 75.2 | 62.9 | 1278.5 | 364.7 | 246.0 |
| 63 | MR | 412.3 | 398.0 | 239.8 | 184.3 | 75.0 | 96.8 | 157.3 | 241.5 | 307.8 | 97.8 | 70.0 | 1127.3 | 383.5 | 244.8 |
| 64 | MR | 364.3 | 339.7 | 197.7 | 117.7 | 45.1 | 59.9 | 115.5 | 227.4 | 316.8 | 105.5 | 68.3 | 1389.1 | 404.3 | 251.1 |
| 65 | MR | 416.3 | 306.9 | 305.2 | 320.9 | 248.3 | 252.4 | 266.5 | 335.6 | 291.6 | 112.4 | 88.6 | 369.8 | 358.6 | 232.3 |
| 66 | MR | 580.0 | 384.0 | 117.0 | 41.0 | 47.0 | 48.0 | 82.0 | 313.0 | 299.0 | 83.0 | 72.0 | 827.0 | 365.0 | 252.0 |
| 67 | MR | 404.0 | 277.0 | 99.0 | 30.0 | 31.0 | 34.0 | 63.0 | 196.0 | 301.0 | 86.0 | 76.0 | 811.0 | 365.0 | 252.0 |
| 68 | MR | 267.3 | 318.3 | 131.6 | 76.9 | 77.8 | 105.4 | 101.6 | 92.3 | 220.0 | 102.9 | 79.4 | 431.4 | 286.3 | 157.8 |
| 69 | MR | 85.8 | 48.4 | 19.9 | 22.8 | 74.2 | 94.7 | 117.9 | 147.2 | 161.1 | 145.7 | 72.4 | 580.0 | 258.9 | 59.3 |
| 70 | MR | 320.0 | 228.9 | 64.9 | 89.2 | 161.7 | 231.2 | 294.5 | 383.1 | 259.7 | 130.5 | 74.8 | 569.3 | 351.4 | 178.1 |
| 71 | MR | 308.0 | 208.4 | 162.2 | 124.7 | 61.5 | 60.7 | 100.0 | 171.9 | 296.7 | 96.1 | 63.1 | 1667.4 | 388.6 | 237.5 |
| 72 | MR | 376.0 | 375.7 | 427.0 | 369.7 | 215.0 | 197.7 | 185.7 | 194.7 | 321.0 | 108.0 | 75.0 | 1064.3 | 403.0 | 260.0 |
| 73 | MR | 376.5 | 377.0 | 427.5 | 371.5 | 217.0 | 200.0 | 189.0 | 198.0 | 321.0 | 108.0 | 75.0 | 1060.0 | 403.0 | 260.0 |
| 74 | MR | 425.0 | 511.5 | 354.5 | 202.0 | 182.0 | 250.5 | 258.0 | 222.5 | 281.5 | 96.5 | 85.0 | 327.0 | 342.0 | 229.5 |
| 75 | MR | 173.7 | 28.7 | 29.2 | 33.7 | 76.2 | 157.3 | 241.1 | 240.1 | 290.7 | 119.2 | 69.9 | 747.0 | 375.4 | 206.2 |
| 76 | MR | 295.0 | 343.0 | 238.9 | 193.7 | 216.7 | 252.2 | 254.9 | 334.9 | 286.0 | 85.9 | 90.9 | 215.0 | 335.2 | 241.2 |
| 77 | MR | 164.5 | 54.6 | 27.7 | 28.8 | 30.0 | 42.9 | 52.4 | 129.1 | 311.5 | 120.7 | 73.9 | 1278.4 | 402.7 | 240.6 |
| 78 | MR | 83.7 | 9.0 | 6.0 | 25.0 | 29.0 | 104.7 | 193.3 | 263.3 | 310.3 | 163.3 | 69.0 | 1476.3 | 434.3 | 200.0 |
| 79 | MR | 63.5 | 11.5 | 10.5 | 16.4 | 75.4 | 112.4 | 289.2 | 302.4 | 303.9 | 162.5 | 71.9 | 1811.6 | 428.5 | 203.8 |
| 80 | MR | 545.7 | 861.3 | 410.7 | 214.3 | 154.7 | 180.0 | 205.0 | 178.3 | 245.7 | 106.3 | 82.7 | 478.7 | 315.3 | 187.7 |
| 81 | MR | 500.3 | 844.7 | 437.7 | 207.0 | 140.0 | 163.3 | 172.0 | 156.7 | 214.3 | 109.7 | 85.0 | 433.0 | 284.0 | 155.3 |
| 82 | MR | 84.0 | 18.6 | 8.0 | 21.9 | 35.4 | 102.1 | 150.2 | 170.5 | 323.9 | 164.1 | 74.5 | 1046.1 | 436.7 | 217.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 83 | MR | 377.5 | 156.6 | 79.6 | 53.2 | 72.1 | 41.5 | 96.5 | 179.1 | 283.2 | 78.4 | 61.8 | 1833.9 | 357.9 | 232.1 |
| 84 | MR | 370.9 | 220.5 | 251.0 | 215.8 | 185.8 | 180.9 | 168.3 | 321.4 | 301.3 | 91.7 | 90.3 | 216.3 | 351.3 | 250.2 |
| 85 | MR | 47.8 | 1.4 | 3.1 | 16.6 | 13.9 | 115.7 | 171.7 | 257.9 | 319.5 | 179.4 | 71.1 | 1533.1 | 454.6 | 204.6 |
| 86 | MR | 274.6 | 222.7 | 191.2 | 219.9 | 95.5 | 72.5 | 119.3 | 128.3 | 309.9 | 101.8 | 78.4 | 697.3 | 376.5 | 247.5 |
| 87 | MR | 366.0 | 172.3 | 110.8 | 82.2 | 59.8 | 57.4 | 136.2 | 210.7 | 300.9 | 104.1 | 61.7 | 2139.3 | 403.0 | 235.6 |
| 88 | MR | 183.9 | 43.5 | 19.6 | 32.7 | 87.4 | 141.7 | 210.8 | 288.4 | 312.8 | 115.4 | 68.7 | 1537.1 | 412.5 | 245.9 |
| 89 | MR | 286.8 | 101.3 | 44.1 | 41.6 | 64.6 | 87.0 | 173.9 | 302.4 | 318.0 | 99.8 | 57.5 | 2651.3 | 423.7 | 252.0 |
| 90 | MR | 363.9 | 325.3 | 356.9 | 335.9 | 277.3 | 264.2 | 213.2 | 222.7 | 303.8 | 93.3 | 75.7 | 778.6 | 373.3 | 250.9 |
| 91 | MR | 136.2 | 36.4 | 16.5 | 30.0 | 37.8 | 84.0 | 157.9 | 265.0 | 305.8 | 124.8 | 71.2 | 1690.7 | 406.6 | 232.7 |
| 92 | MR | 183.5 | 71.7 | 41.5 | 35.0 | 50.4 | 92.4 | 140.0 | 221.3 | 319.2 | 118.8 | 67.2 | 1949.0 | 425.1 | 249.5 |
| 93 | MR | 336.7 | 203.9 | 62.4 | 59.2 | 78.8 | 58.0 | 74.0 | 193.7 | 291.0 | 79.0 | 69.2 | 1308.3 | 358.1 | 244.9 |
| 94 | MR | 334.2 | 196.5 | 216.1 | 213.8 | 187.9 | 165.2 | 185.8 | 250.0 | 293.1 | 96.5 | 89.7 | 230.5 | 347.2 | 240.1 |
| 95 | MR | 279.3 | 196.9 | 161.3 | 199.5 | 121.8 | 92.2 | 142.5 | 140.9 | 310.9 | 100.0 | 74.2 | 907.4 | 384.4 | 250.4 |
| 96 | MR | 215.1 | 126.4 | 33.7 | 59.1 | 116.8 | 165.0 | 223.9 | 253.8 | 311.3 | 111.3 | 65.3 | 1529.7 | 415.6 | 246.7 |
| 97 | MR | 211.8 | 35.8 | 24.3 | 35.2 | 88.5 | 154.4 | 215.7 | 254.2 | 318.5 | 126.4 | 70.8 | 1565.2 | 422.3 | 245.1 |
| 98 | MR | 89.9 | 37.3 | 21.1 | 35.9 | 80.6 | 54.8 | 142.3 | 263.0 | 298.2 | 139.4 | 74.9 | 1519.8 | 399.5 | 214.7 |
| 99 | MR | 317.4 | 152.8 | 52.9 | 58.5 | 54.8 | 41.5 | 129.1 | 203.4 | 304.1 | 93.3 | 69.5 | 1592.6 | 377.7 | 244.3 |
| 100 | MR | 122.3 | 49.4 | 30.7 | 31.7 | 54.7 | 118.1 | 183.9 | 242.4 | 315.1 | 124.8 | 66.8 | 1672.3 | 418.5 | 233.1 |
| 101 | MR | 178.9 | 65.9 | 46.8 | 46.5 | 40.6 | 89.5 | 151.6 | 235.6 | 323.4 | 123.5 | 67.5 | 2034.3 | 432.4 | 250.7 |
| 102 | MR | 163.2 | 60.9 | 38.9 | 49.0 | 29.5 | 75.9 | 149.4 | 236.3 | 313.9 | 122.7 | 67.7 | 2007.3 | 419.6 | 239.9 |
| 103 | MR | 157.8 | 64.2 | 24.2 | 27.8 | 90.4 | 131.6 | 220.9 | 279.4 | 310.9 | 113.3 | 66.7 | 1617.6 | 413.4 | 244.6 |
| 104 | MR | 178.0 | 67.2 | 23.5 | 52.9 | 90.2 | 157.7 | 204.4 | 230.9 | 315.4 | 121.9 | 71.2 | 1293.0 | 415.1 | 245.1 |
| 105 | MR | 107.3 | 39.4 | 20.5 | 41.7 | 73.5 | 50.6 | 137.6 | 241.5 | 301.4 | 139.1 | 74.8 | 1541.6 | 404.6 | 219.6 |
| 106 | MR | 183.4 | 67.3 | 43.7 | 41.8 | 46.0 | 98.0 | 155.9 | 243.2 | 320.5 | 123.4 | 68.8 | 1928.3 | 427.0 | 248.9 |
| 107 | MR | 169.1 | 55.5 | 21.9 | 37.5 | 85.8 | 135.4 | 215.9 | 281.9 | 312.4 | 113.2 | 67.7 | 1564.1 | 413.3 | 247.2 |
| 108 | MR | 74.0 | 33.0 | 18.8 | 26.9 | 50.7 | 119.1 | 209.0 | 281.1 | 308.6 | 135.1 | 70.0 | 1596.1 | 413.0 | 221.4 |
| 109 | MR | 185.2 | 39.2 | 14.5 | 31.3 | 83.4 | 142.1 | 221.5 | 298.5 | 311.6 | 118.5 | 69.6 | 1545.5 | 411.7 | 242.7 |
| 110 | MR | 129.7 | 40.6 | 22.5 | 48.8 | 80.6 | 152.8 | 211.0 | 247.5 | 314.8 | 131.6 | 65.5 | 1696.2 | 427.2 | 227.8 |
| 111 | MR | 171.6 | 20.0 | 21.9 | 28.7 | 71.7 | 139.8 | 217.8 | 236.1 | 300.3 | 126.5 | 73.7 | 837.5 | 391.5 | 221.0 |
| 112 | MR | 234.4 | 127.8 | 40.4 | 60.3 | 105.0 | 171.6 | 192.0 | 236.9 | 302.2 | 124.9 | 78.6 | 906.1 | 391.9 | 234.0 |
| 113 | MR | 244.5 | 81.0 | 30.4 | 27.9 | 53.1 | 29.1 | 97.5 | 127.7 | 289.0 | 79.2 | 56.1 | 2340.2 | 371.6 | 231.6 |
| 114 | MR | 189.4 | 74.6 | 44.7 | 45.0 | 53.4 | 87.6 | 139.9 | 239.5 | 322.1 | 111.8 | 65.1 | 2041.5 | 425.8 | 255.6 |
| 115 | MR | 233.9 | 128.4 | 32.2 | 41.7 | 110.4 | 173.1 | 185.6 | 230.1 | 305.1 | 122.1 | 76.3 | 1009.3 | 396.3 | 237.2 |
| 116 | MR | 319.3 | 247.8 | 192.4 | 245.4 | 101.0 | 101.9 | 131.3 | 144.4 | 302.8 | 109.3 | 82.4 | 705.5 | 370.4 | 238.3 |
| 117 | MR | 176.9 | 33.3 | 32.4 | 40.0 | 83.3 | 151.4 | 233.6 | 257.0 | 303.7 | 122.1 | 74.2 | 867.4 | 394.1 | 230.7 |
| 118 | MR | 177.6 | 23.3 | 20.5 | 29.7 | 74.5 | 138.3 | 207.9 | 231.5 | 301.8 | 127.6 | 73.9 | 831.4 | 393.7 | 222.2 |
| 119 | MR | 262.4 | 94.3 | 35.6 | 28.6 | 36.9 | 58.1 | 150.1 | 261.7 | 317.4 | 99.4 | 57.1 | 2681.4 | 423.0 | 250.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 120 | MR | 187.9 | 55.7 | 40.1 | 32.5 | 20.3 | 32.5 | 86.3 | 180.2 | 306.7 | 110.6 | 65.1 | 2099.0 | 404.9 | 236.3 |
| 121 | MR | 110.3 | 39.0 | 20.1 | 36.1 | 65.7 | 49.8 | 132.6 | 246.7 | 304.2 | 134.7 | 74.9 | 1531.8 | 404.3 | 225.3 |
| 122 | MR | 237.8 | 237.6 | 120.1 | 139.6 | 131.0 | 168.8 | 215.7 | 216.6 | 305.9 | 99.0 | 75.7 | 777.8 | 382.5 | 252.5 |
| 123 | MR | 122.7 | 37.4 | 16.7 | 49.2 | 64.7 | 147.3 | 179.9 | 256.0 | 318.3 | 138.5 | 64.7 | 1652.1 | 434.2 | 221.8 |
| 124 | MR | 250.5 | 203.9 | 56.2 | 94.5 | 139.7 | 185.2 | 234.2 | 276.7 | 310.6 | 107.4 | 66.5 | 1433.7 | 409.6 | 249.1 |
| 125 | MR | 118.8 | 23.4 | 13.2 | 40.6 | 67.8 | 148.6 | 213.5 | 296.1 | 316.4 | 143.6 | 67.1 | 1629.6 | 432.8 | 220.5 |
| 126 | MR | 263.9 | 93.5 | 45.3 | 37.2 | 53.3 | 73.0 | 144.0 | 272.3 | 317.8 | 99.1 | 58.4 | 2492.4 | 422.3 | 254.1 |
| 127 | MR | 158.0 | 28.0 | 6.0 | 27.0 | 76.0 | 154.0 | 244.0 | 324.0 | 308.0 | 121.0 | 70.0 | 1564.0 | 408.0 | 237.0 |
| 128 | MR | 111.0 | 34.0 | 4.0 | 16.0 | 66.0 | 133.0 | 236.0 | 278.0 | 305.0 | 121.0 | 69.0 | 1579.0 | 406.0 | 233.0 |
| 129 | MR | 155.8 | 53.4 | 22.4 | 31.7 | 91.5 | 135.4 | 220.4 | 286.0 | 310.2 | 113.7 | 67.2 | 1598.0 | 411.5 | 243.7 |
| 130 | MR | 177.6 | 57.7 | 17.5 | 56.8 | 81.5 | 154.4 | 219.7 | 254.7 | 315.0 | 116.6 | 67.6 | 1626.0 | 418.7 | 247.7 |
| 131 | MR | 153.0 | 32.0 | 8.0 | 28.0 | 80.0 | 152.0 | 240.0 | 317.0 | 307.0 | 119.0 | 69.0 | 1555.0 | 407.0 | 236.0 |
| 132 | MR | 155.0 | 26.6 | 5.6 | 26.0 | 76.0 | 156.0 | 246.2 | 325.2 | 307.2 | 121.2 | 70.0 | 1557.2 | 407.4 | 236.0 |
| 133 | MR | 157.0 | 31.0 | 7.0 | 28.0 | 79.0 | 152.0 | 241.0 | 318.0 | 308.0 | 120.0 | 69.0 | 1556.0 | 408.0 | 237.0 |
| 134 | MR | 191.7 | 45.0 | 22.3 | 50.0 | 82.3 | 164.7 | 207.7 | 244.7 | 317.0 | 121.0 | 69.0 | 1635.0 | 421.0 | 246.0 |
| 135 | MR | 161.0 | 25.0 | 5.0 | 26.0 | 75.0 | 156.0 | 247.0 | 325.0 | 309.0 | 122.0 | 70.0 | 1533.0 | 409.0 | 237.0 |
| 136 | MR | 406.1 | 234.4 | 66.1 | 50.6 | 65.6 | 48.0 | 86.7 | 228.0 | 291.3 | 83.3 | 69.7 | 1195.4 | 361.8 | 243.3 |
| 137 | MR | 110.5 | 39.6 | 9.6 | 26.2 | 52.3 | 73.4 | 153.1 | 261.7 | 302.9 | 127.2 | 71.7 | 1579.1 | 403.4 | 227.1 |
| 138 | MR | 119.9 | 24.6 | 12.2 | 28.7 | 72.1 | 141.5 | 225.2 | 314.4 | 310.5 | 130.0 | 67.8 | 1624.3 | 418.8 | 228.3 |
| 139 | MR | 180.8 | 88.8 | 53.8 | 42.2 | 44.3 | 76.5 | 131.5 | 218.7 | 324.0 | 110.2 | 63.8 | 2177.5 | 428.8 | 257.4 |
| 140 | MR | 316.0 | 133.1 | 47.9 | 42.1 | 76.0 | 38.1 | 101.3 | 160.8 | 284.7 | 74.1 | 57.4 | 2078.8 | 360.5 | 232.5 |
| 141 | MR | 253.5 | 98.6 | 55.8 | 74.0 | 93.8 | 130.0 | 191.8 | 276.4 | 317.1 | 94.0 | 65.0 | 1820.6 | 404.3 | 260.6 |
| 142 | MR | 114.3 | 26.7 | 14.3 | 44.6 | 63.1 | 146.4 | 199.3 | 274.0 | 317.5 | 147.1 | 66.1 | 1642.1 | 437.4 | 216.8 |
| 143 | MR | 201.9 | 141.5 | 50.0 | 67.9 | 114.7 | 156.2 | 217.2 | 247.9 | 310.8 | 107.5 | 65.4 | 1556.9 | 411.1 | 247.8 |
| 144 | MR | 323.2 | 126.0 | 71.2 | 63.3 | 72.6 | 82.9 | 164.7 | 277.3 | 310.4 | 103.2 | 59.6 | 2449.0 | 416.0 | 244.2 |
| 145 | MR | 382.8 | 267.5 | 120.8 | 55.2 | 78.2 | 64.3 | 78.5 | 190.6 | 297.3 | 93.5 | 72.9 | 1054.7 | 371.4 | 244.0 |
| 146 | MR | 264.4 | 258.5 | 154.8 | 180.7 | 82.9 | 100.6 | 116.9 | 130.5 | 310.4 | 109.0 | 77.2 | 941.9 | 385.7 | 245.7 |
| 147 | MR | 254.1 | 294.3 | 222.3 | 316.3 | 135.5 | 121.7 | 98.8 | 89.8 | 299.7 | 96.9 | 81.8 | 786.2 | 359.5 | 241.7 |
| 148 | MR | 278.8 | 292.4 | 221.8 | 266.4 | 122.2 | 132.2 | 123.6 | 108.6 | 303.2 | 97.6 | 83.2 | 790.2 | 361.6 | 245.2 |
| 149 | MR | 371.1 | 395.6 | 419.3 | 405.6 | 227.8 | 214.1 | 161.5 | 126.1 | 311.9 | 108.1 | 72.3 | 1192.6 | 397.8 | 249.5 |
| 150 | MR | 345.4 | 376.6 | 262.5 | 371.5 | 196.2 | 213.4 | 207.0 | 160.9 | 276.1 | 105.8 | 82.6 | 796.5 | 343.5 | 216.2 |
| 151 | MR | 244.8 | 293.5 | 261.9 | 400.0 | 163.4 | 122.8 | 93.6 | 65.0 | 301.5 | 101.3 | 80.9 | 796.0 | 364.6 | 240.1 |
| 152 | MR | 363.0 | 364.5 | 397.3 | 495.1 | 293.1 | 227.1 | 205.5 | 261.9 | 292.9 | 105.3 | 82.5 | 712.4 | 360.2 | 233.4 |
| 153 | MR | 314.0 | 313.5 | 194.0 | 211.9 | 89.7 | 116.2 | 143.0 | 155.8 | 305.1 | 99.8 | 75.5 | 942.8 | 375.3 | 243.8 |
| 154 | MR | 319.3 | 399.4 | 338.4 | 480.9 | 224.8 | 177.7 | 138.6 | 94.9 | 301.1 | 99.5 | 81.8 | 793.6 | 361.8 | 240.9 |
| 155 | MR | 430.3 | 449.0 | 464.3 | 447.9 | 285.6 | 251.9 | 240.5 | 220.4 | 298.8 | 113.4 | 77.3 | 941.6 | 382.0 | 236.2 |
| 156 | MR | 570.0 | 382.0 | 115.0 | 40.0 | 46.0 | 48.0 | 81.0 | 309.0 | 299.0 | 83.0 | 72.0 | 817.0 | 366.0 | 251.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 157 | MR | 424.0 | 444.0 | 460.0 | 444.0 | 276.0 | 242.0 | 251.0 | 244.0 | 317.0 | 113.0 | 77.0 | 996.0 | 401.0 | 255.0 |
| 158 | MR | 70.5 | 59.3 | 17.0 | 26.0 | 19.3 | 93.8 | 114.0 | 120.8 | 284.5 | 132.5 | 65.3 | 2344.3 | 380.3 | 178.0 |
| 159 | MR | 436.8 | 424.3 | 382.8 | 471.2 | 292.4 | 279.0 | 278.5 | 286.6 | 282.6 | 108.5 | 84.0 | 650.5 | 351.3 | 222.6 |
| 160 | MR | 300.2 | 244.6 | 163.2 | 85.2 | 29.8 | 33.2 | 65.6 | 149.2 | 312.2 | 88.8 | 72.8 | 1092.4 | 378.2 | 256.8 |
| 161 | MR | 295.6 | 255.2 | 123.4 | 59.8 | 33.6 | 42.8 | 73.0 | 154.0 | 303.6 | 84.0 | 72.4 | 983.2 | 368.0 | 253.0 |
| 162 | MR | 347.7 | 270.2 | 129.0 | 49.8 | 35.7 | 47.5 | 64.3 | 171.7 | 301.5 | 84.3 | 71.3 | 986.2 | 368.2 | 250.5 |
| 163 | MR | 402.4 | 273.5 | 146.1 | 79.9 | 49.9 | 42.0 | 84.4 | 185.1 | 298.0 | 93.5 | 70.9 | 1235.6 | 373.5 | 242.6 |
| 164 | MR | 184.9 | 58.1 | 36.3 | 44.4 | 100.8 | 171.2 | 264.0 | 252.7 | 291.4 | 115.8 | 71.3 | 709.8 | 375.3 | 214.1 |
| 165 | MR | 174.5 | 74.1 | 48.7 | 44.4 | 36.0 | 75.9 | 144.3 | 237.1 | 324.9 | 120.6 | 64.7 | 2235.1 | 437.0 | 252.1 |
| 166 | MR | 66.6 | 41.1 | 15.8 | 25.8 | 24.8 | 81.5 | 109.6 | 132.0 | 266.6 | 148.7 | 69.6 | 2039.9 | 365.8 | 153.9 |
| 167 | MR | 223.4 | 87.9 | 49.1 | 72.4 | 96.5 | 130.3 | 156.5 | 288.0 | 318.3 | 94.3 | 67.6 | 1563.6 | 400.5 | 261.9 |
| 168 | MR | 243.9 | 116.7 | 74.6 | 67.0 | 107.6 | 227.8 | 308.6 | 343.5 | 278.8 | 108.3 | 69.3 | 1142.7 | 353.7 | 198.5 |
| 169 | MR | 393.0 | 215.8 | 96.2 | 55.1 | 73.1 | 49.3 | 91.5 | 201.6 | 288.3 | 92.3 | 71.6 | 1202.9 | 363.6 | 235.4 |
| 170 | MR | 135.2 | 32.0 | 16.9 | 30.9 | 86.4 | 152.6 | 229.2 | 319.3 | 310.1 | 123.5 | 67.9 | 1626.9 | 415.0 | 234.3 |
| 171 | MR | 378.7 | 414.4 | 288.5 | 430.5 | 235.3 | 255.1 | 252.2 | 191.1 | 264.8 | 109.1 | 83.0 | 790.5 | 334.6 | 204.0 |
| 172 | MR | 94.5 | 38.5 | 30.1 | 25.0 | 50.9 | 120.6 | 176.9 | 225.0 | 251.3 | 166.6 | 70.8 | 1981.1 | 357.2 | 123.9 |
| 173 | MR | 232.2 | 261.0 | 234.1 | 126.8 | 103.2 | 115.3 | 116.7 | 116.8 | 182.6 | 110.1 | 86.6 | 348.7 | 248.4 | 122.2 |
| 174 | MR | 448.4 | 457.1 | 148.0 | 153.4 | 165.6 | 212.7 | 227.9 | 198.0 | 282.7 | 137.3 | 85.6 | 360.9 | 365.4 | 205.8 |
| 175 | MR | 396.6 | 210.3 | 90.5 | 51.6 | 75.4 | 50.6 | 92.7 | 202.3 | 285.7 | 89.8 | 71.8 | 1191.7 | 359.0 | 234.7 |
| 176 | MR | 579.2 | 335.0 | 87.9 | 38.4 | 39.8 | 30.5 | 86.3 | 319.2 | 293.8 | 90.8 | 72.8 | 801.6 | 366.2 | 242.3 |
| 177 | MR | 167.9 | 48.6 | 34.4 | 43.3 | 42.2 | 105.8 | 184.4 | 296.1 | 312.9 | 124.7 | 70.5 | 1801.3 | 415.4 | 239.6 |
| 178 | MR | 376.6 | 449.5 | 363.9 | 226.1 | 174.1 | 197.1 | 188.3 | 158.9 | 293.6 | 94.7 | 84.9 | 422.6 | 350.2 | 239.2 |
| 179 | MR | 539.1 | 851.1 | 407.9 | 214.8 | 152.5 | 181.7 | 202.0 | 178.3 | 247.7 | 104.9 | 83.2 | 474.5 | 315.7 | 190.4 |
| 180 | MR | 247.8 | 133.5 | 99.7 | 158.8 | 139.4 | 139.1 | 169.8 | 254.5 | 310.6 | 100.0 | 74.1 | 1030.4 | 388.2 | 254.3 |
| 181 | MR | 115.9 | 32.6 | 15.4 | 46.6 | 59.7 | 142.6 | 179.2 | 264.0 | 318.4 | 142.7 | 65.4 | 1651.9 | 435.7 | 219.3 |
| 182 | MR | 532.1 | 426.6 | 243.0 | 214.3 | 70.7 | 90.5 | 183.1 | 328.7 | 282.5 | 90.2 | 68.2 | 1222.4 | 358.6 | 227.2 |
| 183 | MR | 262.0 | 386.0 | 257.1 | 137.9 | 107.6 | 105.5 | 104.4 | 100.5 | 173.1 | 103.4 | 80.5 | 567.8 | 242.1 | 114.4 |
| 184 | MR | 136.7 | 57.7 | 36.3 | 31.5 | 63.4 | 134.0 | 194.8 | 219.0 | 260.6 | 116.6 | 69.5 | 1279.9 | 341.2 | 174.6 |
| 185 | MR | 186.7 | 92.6 | 47.6 | 59.0 | 119.7 | 187.1 | 256.7 | 275.0 | 265.4 | 108.1 | 73.7 | 706.6 | 335.7 | 190.0 |
| 186 | MR | 184.3 | 61.8 | 22.1 | 52.0 | 85.8 | 159.1 | 210.0 | 235.9 | 317.4 | 120.9 | 68.5 | 1534.8 | 422.1 | 247.2 |
| 187 | MR | 392.7 | 191.9 | 84.6 | 55.2 | 81.0 | 53.6 | 95.1 | 197.1 | 283.9 | 81.6 | 68.3 | 1370.9 | 354.1 | 235.7 |
| 188 | MR | 343.8 | 281.3 | 180.8 | 187.4 | 77.6 | 107.8 | 131.0 | 138.0 | 242.9 | 103.4 | 76.0 | 956.2 | 319.4 | 184.4 |
| 189 | MR | 215.9 | 105.0 | 48.9 | 78.1 | 102.3 | 163.5 | 191.5 | 269.6 | 311.0 | 103.2 | 65.4 | 1612.3 | 405.0 | 248.4 |
| 190 | MR | 332.5 | 362.2 | 363.3 | 225.1 | 169.7 | 162.3 | 150.3 | 162.2 | 225.6 | 95.0 | 91.1 | 184.3 | 276.4 | 172.6 |
| 191 | MR | 228.0 | 252.7 | 112.6 | 157.5 | 169.8 | 205.5 | 208.2 | 250.9 | 292.5 | 94.5 | 91.6 | 180.6 | 345.1 | 242.4 |
| 192 | MR | 270.3 | 190.5 | 155.5 | 199.0 | 245.0 | 222.2 | 219.4 | 268.7 | 297.6 | 93.4 | 89.0 | 319.6 | 351.4 | 247.0 |
| 193 | MR | 197.9 | 173.6 | 182.4 | 107.9 | 93.9 | 151.3 | 160.3 | 178.4 | 183.8 | 96.7 | 89.2 | 270.7 | 238.1 | 130.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 194 | MR | 239.4 | 206.1 | 179.9 | 157.2 | 142.9 | 212.5 | 220.0 | 155.4 | 230.9 | 85.1 | 88.4 | 235.6 | 279.0 | 183.3 |
| 195 | MR | 293.5 | 332.0 | 352.0 | 211.0 | 153.5 | 150.0 | 142.0 | 157.5 | 174.0 | 91.5 | 88.5 | 343.0 | 224.5 | 121.0 |
| 196 | MR | 360.5 | 420.3 | 371.8 | 249.0 | 185.0 | 207.6 | 191.5 | 158.3 | 290.5 | 91.6 | 84.9 | 429.2 | 346.2 | 238.9 |
| 197 | MR | 285.7 | 229.7 | 152.6 | 160.4 | 203.5 | 228.8 | 239.4 | 327.4 | 290.2 | 89.0 | 90.2 | 242.5 | 341.5 | 243.4 |
| 198 | MR | 368.1 | 406.0 | 386.6 | 229.4 | 174.5 | 179.5 | 173.0 | 197.3 | 228.5 | 99.3 | 91.3 | 174.2 | 282.0 | 174.0 |
| 199 | MR | 328.9 | 267.4 | 284.7 | 317.1 | 257.0 | 237.7 | 208.9 | 178.6 | 298.8 | 91.7 | 79.1 | 608.0 | 360.1 | 244.8 |
| 200 | MR | 371.2 | 328.3 | 341.8 | 294.6 | 227.5 | 274.6 | 243.1 | 165.8 | 291.5 | 97.4 | 79.0 | 612.8 | 356.2 | 233.3 |
| 201 | MR | 237.8 | 236.6 | 235.9 | 185.3 | 146.5 | 195.1 | 201.8 | 165.0 | 142.2 | 82.7 | 86.7 | 266.6 | 190.0 | 95.2 |
| 202 | MR | 400.0 | 342.9 | 313.5 | 259.1 | 221.2 | 271.7 | 237.9 | 177.7 | 290.6 | 100.9 | 83.9 | 391.5 | 352.2 | 232.7 |
| 203 | MR | 269.1 | 198.4 | 162.3 | 188.6 | 235.4 | 238.0 | 232.1 | 273.8 | 292.7 | 89.4 | 89.3 | 319.4 | 344.2 | 244.6 |
| 204 | MR | 85.7 | 24.0 | 13.4 | 20.5 | 26.0 | 95.6 | 137.1 | 163.6 | 305.0 | 151.9 | 68.1 | 1259.4 | 414.3 | 192.9 |
| 205 | MR | 124.9 | 60.5 | 26.4 | 41.2 | 99.4 | 128.5 | 177.9 | 204.7 | 201.5 | 133.9 | 74.0 | 726.0 | 289.7 | 109.7 |
| 206 | MR | 143.8 | 18.1 | 18.7 | 45.3 | 59.5 | 120.4 | 172.6 | 187.3 | 315.9 | 153.7 | 75.3 | 1267.3 | 427.9 | 225.0 |
| 207 | MR | 346.9 | 216.9 | 219.3 | 253.6 | 187.3 | 188.9 | 226.2 | 312.2 | 277.8 | 102.0 | 89.9 | 293.7 | 336.3 | 223.3 |
| 208 | MR | 340.6 | 225.5 | 241.9 | 212.9 | 203.8 | 184.1 | 194.2 | 318.4 | 294.4 | 94.5 | 90.6 | 190.1 | 345.8 | 242.2 |
| 209 | MR | 195.0 | 251.7 | 140.1 | 63.1 | 51.5 | 79.7 | 82.1 | 94.7 | 189.2 | 108.7 | 86.2 | 328.8 | 255.7 | 130.2 |
| 210 | MR | 176.6 | 138.7 | 54.1 | 41.8 | 62.4 | 109.9 | 114.3 | 110.4 | 206.5 | 142.1 | 86.4 | 353.0 | 284.6 | 121.0 |
| 211 | MR | 84.0 | 27.4 | 18.3 | 33.2 | 56.1 | 138.7 | 223.9 | 286.2 | 309.6 | 136.6 | 68.1 | 1579.9 | 416.9 | 217.7 |
| 212 | MR | 329.0 | 505.0 | 291.7 | 154.8 | 116.7 | 122.4 | 108.6 | 112.5 | 177.9 | 105.0 | 83.8 | 403.8 | 244.3 | 119.7 |
| 213 | MR | 122.7 | 17.9 | 8.5 | 27.5 | 42.1 | 116.4 | 125.9 | 147.1 | 333.5 | 158.0 | 74.7 | 1194.3 | 451.1 | 240.6 |
| 214 | MR | 280.5 | 186.5 | 171.7 | 214.4 | 140.4 | 108.3 | 134.6 | 164.5 | 304.1 | 102.2 | 83.2 | 500.7 | 367.1 | 244.9 |
| 215 | MR | 294.3 | 226.3 | 69.0 | 80.7 | 139.9 | 183.2 | 239.1 | 242.2 | 306.3 | 119.5 | 75.0 | 719.2 | 395.2 | 236.7 |
| 216 | MR | 112.4 | 31.4 | 23.2 | 36.9 | 46.2 | 45.9 | 130.9 | 211.9 | 296.7 | 126.0 | 73.8 | 1501.4 | 393.9 | 224.2 |
| 217 | MR | 386.4 | 248.0 | 262.3 | 249.0 | 243.3 | 210.3 | 231.3 | 362.7 | 286.5 | 102.9 | 91.1 | 199.5 | 342.6 | 230.2 |
| 218 | MR | 475.7 | 602.1 | 490.8 | 241.2 | 201.5 | 193.1 | 206.5 | 193.9 | 218.7 | 112.4 | 86.5 | 387.8 | 286.1 | 156.8 |
| 219 | MR | 274.0 | 236.5 | 73.0 | 72.0 | 113.5 | 171.5 | 209.5 | 217.5 | 264.5 | 144.0 | 81.5 | 319.5 | 354.0 | 179.5 |
| 220 | MR | 44.5 | 18.4 | 8.0 | 10.4 | 38.2 | 67.9 | 94.6 | 121.2 | 131.8 | 178.7 | 74.2 | 1322.9 | 244.4 | 5.5 |
| 221 | MR | 280.0 | 218.3 | 182.0 | 207.0 | 116.1 | 85.9 | 130.1 | 143.0 | 310.6 | 100.8 | 76.8 | 751.5 | 379.4 | 249.1 |
| 222 | MR | 39.6 | 11.9 | 5.3 | 13.8 | 43.4 | 65.9 | 82.0 | 126.0 | 214.8 | 151.7 | 76.0 | 1266.1 | 303.4 | 105.3 |
| 223 | MR | 214.9 | 97.9 | 58.1 | 31.8 | 86.1 | 196.7 | 262.4 | 354.1 | 305.6 | 134.0 | 65.6 | 1636.9 | 399.6 | 196.8 |
| 224 | MR | 120.9 | 127.3 | 72.9 | 31.2 | 26.8 | 58.1 | 56.8 | 76.4 | 160.7 | 114.6 | 88.7 | 228.0 | 226.6 | 98.1 |
| 225 | MR | 193.0 | 135.6 | 39.9 | 53.9 | 108.0 | 157.1 | 186.0 | 241.8 | 229.3 | 144.6 | 75.9 | 464.3 | 324.3 | 135.0 |
| 226 | MR | 512.0 | 406.6 | 407.8 | 428.5 | 314.9 | 287.9 | 261.6 | 254.8 | 313.7 | 117.0 | 81.2 | 764.0 | 393.9 | 250.7 |
| 227 | MR | 432.2 | 565.4 | 380.8 | 221.1 | 176.0 | 222.8 | 226.0 | 196.9 | 286.5 | 96.4 | 87.8 | 300.2 | 342.7 | 233.5 |
| 228 | MR | 165.7 | 20.8 | 29.5 | 30.6 | 72.7 | 149.8 | 237.1 | 251.2 | 299.9 | 123.8 | 73.3 | 843.2 | 389.8 | 222.1 |
| 229 | MR | 77.9 | 20.2 | 10.1 | 21.4 | 28.9 | 105.5 | 142.4 | 159.8 | 315.1 | 160.1 | 71.7 | 1068.9 | 425.9 | 204.1 |
| 230 | MR | 62.8 | 15.8 | 11.1 | 23.3 | 62.2 | 129.7 | 235.2 | 296.7 | 316.9 | 159.8 | 70.4 | 1833.4 | 442.1 | 216.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 231 | MR | 166.2 | 23.1 | 17.5 | 35.7 | 62.5 | 137.0 | 158.8 | 182.4 | 324.2 | 143.5 | 74.0 | 1411.5 | 435.7 | 243.1 |
| 232 | MR | 119.8 | 22.7 | 11.6 | 31.8 | 70.9 | 143.6 | 223.5 | 313.5 | 310.4 | 133.7 | 67.7 | 1624.9 | 420.8 | 224.6 |
| 233 | MR | 98.5 | 20.7 | 10.5 | 38.8 | 49.4 | 132.8 | 190.4 | 274.5 | 320.6 | 157.0 | 66.9 | 1626.3 | 445.3 | 212.2 |
| 234 | MR | 196.3 | 99.6 | 53.6 | 66.8 | 96.7 | 157.2 | 199.8 | 244.6 | 315.4 | 99.4 | 64.8 | 1708.3 | 404.4 | 252.0 |
| 235 | MR | 238.7 | 86.7 | 30.0 | 20.0 | 19.3 | 14.3 | 50.7 | 137.7 | 299.0 | 73.7 | 57.0 | 2109.0 | 370.3 | 242.3 |
| 236 | MR | 246.6 | 102.2 | 63.9 | 100.5 | 115.7 | 135.7 | 139.0 | 264.3 | 314.3 | 96.7 | 71.6 | 1310.0 | 392.0 | 257.8 |
| 237 | MR | 195.8 | 75.4 | 44.7 | 66.5 | 91.8 | 126.5 | 178.6 | 293.9 | 318.6 | 93.3 | 65.0 | 1730.1 | 404.2 | 261.9 |
| 238 | MR | 298.8 | 190.6 | 181.1 | 215.0 | 163.4 | 148.9 | 179.1 | 175.3 | 293.9 | 99.6 | 88.7 | 308.5 | 351.1 | 239.4 |
| 239 | MR | 72.9 | 34.5 | 26.0 | 27.1 | 55.6 | 58.3 | 121.9 | 218.8 | 293.8 | 113.0 | 73.5 | 1133.0 | 371.8 | 219.2 |
| 240 | MR | 90.1 | 14.8 | 6.9 | 22.0 | 33.3 | 101.8 | 129.5 | 146.4 | 333.3 | 164.1 | 74.9 | 1131.8 | 451.1 | 233.0 |
| 241 | MR | 113.4 | 29.0 | 14.3 | 47.0 | 59.7 | 144.8 | 185.7 | 266.4 | 318.0 | 146.5 | 65.6 | 1641.2 | 437.8 | 216.3 |
| 242 | MR | 172.0 | 63.0 | 36.0 | 43.0 | 65.0 | 106.0 | 174.0 | 260.0 | 321.0 | 92.0 | 62.0 | 1909.0 | 410.0 | 263.0 |
| 243 | MR | 109.5 | 25.8 | 10.2 | 22.3 | 65.8 | 128.2 | 224.5 | 303.6 | 308.5 | 127.1 | 68.0 | 1621.8 | 414.8 | 229.3 |
| 244 | MR | 238.3 | 125.5 | 57.5 | 110.3 | 107.8 | 89.8 | 94.3 | 206.5 | 313.8 | 107.5 | 79.3 | 967.8 | 386.8 | 252.0 |
| 245 | MR | 39.6 | 8.0 | 4.0 | 20.0 | 73.5 | 81.6 | 185.3 | 317.6 | 324.3 | 173.1 | 71.8 | 1734.1 | 454.4 | 215.0 |
| 246 | MR | 157.5 | 69.5 | 51.0 | 29.0 | 54.5 | 119.0 | 195.0 | 214.0 | 284.0 | 118.0 | 69.0 | 1285.0 | 367.5 | 197.5 |
| 247 | MR | 112.0 | 40.3 | 31.0 | 23.0 | 40.3 | 96.0 | 146.2 | 171.5 | 320.8 | 137.4 | 66.8 | 1130.7 | 428.4 | 224.2 |
| 248 | MR | 152.8 | 69.3 | 42.1 | 22.1 | 46.4 | 125.8 | 155.6 | 187.2 | 308.8 | 131.8 | 64.5 | 1544.1 | 407.1 | 204.4 |
| 249 | MR | 306.3 | 186.5 | 60.8 | 71.8 | 108.3 | 83.0 | 101.0 | 190.3 | 290.5 | 74.3 | 66.3 | 1438.5 | 356.0 | 245.3 |
| 250 | MR | 72.1 | 26.8 | 11.0 | 22.8 | 69.8 | 103.0 | 140.8 | 192.6 | 266.5 | 134.2 | 73.6 | 1448.5 | 350.8 | 169.7 |
| 251 | MR | 82.6 | 18.9 | 8.5 | 19.2 | 31.5 | 91.8 | 135.7 | 155.7 | 327.7 | 160.2 | 72.7 | 1115.5 | 441.9 | 223.2 |
| 252 | MR | 42.0 | 5.0 | 2.0 | 8.0 | 21.3 | 116.3 | 200.8 | 250.5 | 327.8 | 184.5 | 70.0 | 1803.8 | 477.3 | 215.3 |
| 253 | MR | 68.0 | 36.0 | 18.0 | 26.0 | 69.0 | 55.0 | 132.0 | 263.0 | 305.0 | 136.0 | 75.0 | 1432.0 | 402.0 | 220.0 |
| 254 | MR | 244.0 | 224.8 | 222.6 | 150.0 | 139.2 | 155.8 | 157.6 | 155.4 | 147.2 | 79.2 | 87.4 | 295.2 | 193.4 | 103.2 |
| 255 | MR | 283.3 | 300.7 | 317.0 | 201.7 | 148.0 | 150.7 | 136.3 | 145.3 | 202.3 | 93.3 | 90.0 | 226.3 | 252.3 | 149.0 |
| 256 | MR | 540.0 | 356.6 | 110.5 | 45.2 | 69.5 | 56.2 | 98.4 | 309.4 | 293.4 | 89.4 | 74.7 | 781.7 | 362.9 | 243.9 |
| 257 | MR | 172.0 | 123.5 | 100.5 | 100.5 | 106.5 | 184.0 | 207.5 | 127.0 | 172.5 | 67.5 | 86.5 | 245.5 | 212.5 | 134.5 |
| 258 | MR | 383.0 | 372.0 | 289.0 | 342.0 | 338.0 | 308.0 | 229.0 | 149.0 | 301.0 | 104.0 | 81.0 | 585.0 | 370.0 | 243.0 |
| 259 | MR | 406.0 | 325.0 | 343.0 | 339.0 | 279.0 | 297.0 | 242.5 | 185.0 | 305.5 | 100.5 | 77.5 | 764.5 | 376.0 | 247.0 |
| 260 | MR | 448.7 | 423.8 | 354.3 | 470.5 | 288.0 | 298.8 | 322.1 | 336.6 | 289.3 | 109.8 | 84.2 | 707.0 | 358.1 | 228.5 |
| 261 | MR | 353.8 | 239.3 | 92.5 | 24.0 | 24.5 | 27.8 | 54.3 | 180.8 | 301.3 | 87.5 | 75.0 | 887.0 | 368.0 | 251.8 |
| 262 | MR | 294.5 | 296.0 | 194.1 | 190.1 | 170.9 | 200.8 | 210.1 | 246.8 | 296.9 | 97.5 | 84.2 | 429.4 | 361.0 | 245.6 |
| 263 | MR | 618.8 | 404.5 | 118.3 | 50.3 | 67.0 | 59.0 | 112.5 | 350.5 | 293.3 | 88.8 | 74.5 | 718.5 | 363.0 | 244.5 |
| 264 | MR | 303.8 | 181.7 | 66.7 | 51.5 | 15.3 | 8.5 | 15.8 | 45.1 | 302.5 | 81.5 | 74.2 | 747.4 | 360.2 | 251.1 |
| 265 | MR | 286.0 | 221.0 | 151.2 | 188.7 | 162.2 | 169.1 | 199.9 | 236.6 | 306.5 | 101.9 | 77.5 | 720.9 | 382.7 | 251.8 |
| 266 | MR | 118.7 | 25.6 | 14.4 | 43.2 | 67.6 | 149.7 | 208.9 | 286.2 | 318.7 | 144.8 | 66.7 | 1632.5 | 436.5 | 220.8 |
| 267 | MR | 125.6 | 39.5 | 15.9 | 50.3 | 62.8 | 148.0 | 169.8 | 256.0 | 319.5 | 136.3 | 64.3 | 1635.0 | 433.4 | 223.5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 268 | MR | 191.0 | 95.8 | 49.5 | 46.0 | 57.5 | 86.3 | 145.9 | 233.1 | 321.2 | 100.2 | 63.0 | 2003.7 | 418.0 | 259.6 |
| 269 | MR | 234.0 | 278.3 | 81.4 | 117.9 | 160.0 | 202.8 | 232.0 | 280.9 | 293.6 | 100.9 | 84.6 | 450.3 | 356.9 | 238.3 |
| 270 | MR | 166.3 | 69.1 | 43.0 | 53.8 | 98.0 | 154.5 | 203.7 | 239.3 | 317.5 | 107.3 | 66.3 | 1749.1 | 413.0 | 252.2 |
| 271 | MR | 196.6 | 87.3 | 50.7 | 62.0 | 79.7 | 138.1 | 183.7 | 239.0 | 317.9 | 98.9 | 64.0 | 1777.9 | 408.3 | 255.0 |
| 272 | MR | 344.9 | 187.9 | 55.4 | 56.9 | 90.4 | 55.3 | 127.3 | 210.6 | 283.6 | 69.3 | 60.9 | 1670.1 | 350.4 | 237.5 |
| 273 | MR | 197.1 | 72.5 | 46.8 | 58.8 | 81.2 | 112.4 | 169.9 | 310.3 | 318.4 | 93.5 | 65.5 | 1677.6 | 403.0 | 261.4 |
| 274 | MR | 167.8 | 62.5 | 39.2 | 48.8 | 72.7 | 108.8 | 176.0 | 282.2 | 320.3 | 92.5 | 63.5 | 1827.8 | 407.7 | 263.0 |
| 275 | MR | 218.1 | 75.2 | 49.1 | 42.8 | 55.6 | 72.4 | 127.1 | 212.4 | 319.0 | 96.7 | 61.5 | 2129.5 | 415.5 | 259.5 |
| 276 | MR | 201.6 | 102.1 | 57.1 | 78.9 | 100.0 | 152.6 | 198.5 | 252.0 | 314.5 | 98.5 | 65.0 | 1685.2 | 402.6 | 252.1 |
| 277 | MR | 303.4 | 208.4 | 40.8 | 92.3 | 87.3 | 53.8 | 162.3 | 230.5 | 305.9 | 85.7 | 67.3 | 1557.8 | 377.6 | 251.2 |
| 278 | MR | 291.5 | 298.2 | 196.2 | 188.2 | 169.3 | 201.8 | 210.5 | 247.9 | 296.1 | 96.7 | 85.0 | 408.3 | 358.8 | 245.2 |
| 279 | MR | 197.4 | 99.3 | 62.9 | 108.0 | 100.4 | 147.3 | 192.4 | 260.2 | 311.9 | 98.9 | 66.6 | 1585.2 | 399.0 | 251.7 |
| 280 | MR | 199.9 | 103.1 | 51.7 | 74.1 | 108.2 | 171.2 | 194.7 | 260.3 | 313.0 | 100.7 | 65.2 | 1656.5 | 402.7 | 249.6 |
| 281 | MR | 192.2 | 84.1 | 48.5 | 60.7 | 80.3 | 144.5 | 181.0 | 237.8 | 318.0 | 100.3 | 64.2 | 1782.3 | 409.5 | 254.6 |
| 282 | MR | 234.6 | 265.8 | 67.7 | 95.0 | 120.4 | 180.8 | 216.5 | 259.3 | 296.9 | 96.9 | 80.0 | 628.2 | 364.8 | 244.3 |
| 283 | MR | 271.4 | 374.6 | 198.2 | 89.3 | 70.8 | 97.1 | 105.5 | 113.8 | 216.9 | 114.2 | 86.1 | 362.2 | 287.4 | 155.4 |
| 284 | MR | 277.9 | 204.4 | 177.7 | 212.5 | 124.0 | 93.8 | 132.6 | 151.2 | 310.1 | 101.8 | 79.9 | 628.8 | 376.1 | 249.5 |
| 285 | MR | 259.9 | 316.5 | 192.5 | 158.6 | 139.6 | 211.2 | 215.3 | 254.7 | 289.3 | 90.0 | 91.8 | 200.1 | 339.7 | 242.3 |
| 286 | MR | 72.0 | 9.0 | 4.0 | 22.5 | 23.0 | 116.5 | 198.5 | 259.5 | 307.5 | 177.0 | 67.0 | 1493.5 | 445.0 | 182.0 |
| 287 | MR | 272.5 | 103.6 | 61.1 | 74.6 | 78.4 | 87.7 | 117.6 | 264.2 | 314.0 | 96.2 | 64.4 | 1791.6 | 405.0 | 256.7 |
| 288 | MR | 246.8 | 119.3 | 81.5 | 39.3 | 92.3 | 185.3 | 321.5 | 404.8 | 310.0 | 132.0 | 65.5 | 1722.8 | 403.0 | 203.3 |
| 289 | MR | 197.7 | 120.9 | 66.4 | 97.1 | 99.0 | 146.4 | 199.4 | 263.1 | 310.8 | 101.7 | 66.5 | 1566.1 | 402.2 | 250.5 |
| 290 | MR | 106.8 | 20.2 | 8.8 | 25.8 | 61.0 | 128.0 | 219.4 | 302.9 | 309.6 | 133.4 | 68.0 | 1608.2 | 419.1 | 224.3 |
| 291 | MR | 330.4 | 173.4 | 41.4 | 44.7 | 71.2 | 38.7 | 110.3 | 208.5 | 283.6 | 68.0 | 58.1 | 1849.2 | 351.7 | 235.5 |
| 292 | MR | 113.5 | 39.4 | 20.2 | 33.1 | 59.9 | 49.3 | 129.3 | 248.2 | 308.2 | 131.7 | 74.8 | 1522.6 | 406.3 | 231.1 |
| 293 | MR | 408.2 | 228.1 | 53.4 | 40.3 | 21.1 | 14.2 | 36.4 | 188.9 | 303.0 | 82.7 | 70.3 | 1101.3 | 373.5 | 256.7 |
| 294 | MR | 169.4 | 70.5 | 36.1 | 41.9 | 62.3 | 103.7 | 149.1 | 229.8 | 318.2 | 114.8 | 66.8 | 1875.6 | 421.2 | 250.4 |
| 295 | MR | 116.4 | 34.9 | 15.8 | 27.5 | 42.6 | 49.8 | 130.3 | 226.1 | 298.4 | 121.7 | 71.8 | 1570.0 | 394.6 | 226.4 |
| 296 | MR | 315.4 | 262.6 | 188.4 | 236.3 | 89.8 | 100.0 | 121.4 | 131.4 | 307.3 | 111.3 | 81.6 | 767.7 | 376.9 | 241.6 |
| 297 | MR | 156.3 | 18.8 | 7.0 | 20.0 | 46.8 | 116.8 | 130.5 | 170.8 | 335.3 | 152.3 | 73.3 | 1223.9 | 451.8 | 245.6 |
| 298 | MR | 185.2 | 42.6 | 25.0 | 44.5 | 77.4 | 154.8 | 198.9 | 224.7 | 320.8 | 126.1 | 70.0 | 1550.7 | 425.6 | 246.5 |
| 299 | MR | 377.5 | 494.9 | 336.7 | 174.0 | 150.9 | 148.6 | 167.5 | 162.9 | 194.1 | 106.7 | 83.7 | 452.7 | 261.0 | 134.1 |
| 300 | MR | 162.8 | 20.8 | 11.2 | 27.6 | 54.5 | 128.3 | 137.4 | 167.9 | 330.5 | 147.1 | 74.2 | 1337.3 | 444.3 | 247.4 |
| 301 | MR | 446.6 | 371.9 | 365.1 | 327.7 | 302.8 | 268.5 | 253.1 | 327.4 | 299.7 | 104.6 | 84.6 | 481.0 | 368.4 | 245.5 |
| 302 | MR | 576.0 | 400.0 | 133.5 | 58.5 | 81.5 | 64.5 | 104.5 | 342.5 | 291.5 | 86.5 | 74.5 | 755.0 | 359.0 | 244.0 |
| 303 | MR | 87.8 | 25.1 | 14.4 | 18.8 | 28.5 | 85.4 | 128.0 | 143.4 | 319.3 | 148.8 | 69.1 | 1210.1 | 428.5 | 214.8 |
| 304 | MR | 403.1 | 450.0 | 345.5 | 256.0 | 192.1 | 203.7 | 189.1 | 164.0 | 295.1 | 96.8 | 84.5 | 429.8 | 352.5 | 238.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 305 | MR | 321.3 | 181.7 | 90.4 | 103.2 | 172.0 | 287.0 | 345.2 | 404.6 | 272.0 | 98.4 | 72.9 | 891.4 | 334.8 | 200.7 |
| 306 | MR | 146.0 | 75.3 | 29.1 | 48.9 | 111.7 | 143.9 | 195.1 | 220.7 | 224.7 | 129.6 | 74.0 | 665.2 | 310.7 | 136.9 |
| 307 | MR | 289.3 | 357.3 | 148.5 | 70.9 | 68.0 | 94.9 | 102.5 | 90.1 | 224.5 | 108.5 | 84.1 | 378.4 | 291.7 | 163.3 |
| 308 | MR | 273.4 | 206.1 | 60.4 | 73.0 | 138.8 | 195.5 | 285.0 | 287.5 | 271.4 | 135.5 | 74.0 | 700.7 | 369.9 | 187.9 |
| 309 | MR | 392.9 | 445.8 | 355.1 | 259.2 | 197.6 | 210.2 | 189.1 | 158.7 | 296.8 | 94.9 | 83.0 | 493.4 | 354.3 | 240.4 |
| 310 | MR | 135.9 | 75.2 | 30.1 | 49.9 | 112.4 | 152.8 | 215.8 | 225.2 | 249.6 | 117.7 | 74.2 | 630.2 | 328.8 | 171.2 |
| 311 | MR | 170.0 | 36.0 | 30.3 | 36.8 | 87.5 | 156.5 | 249.2 | 246.6 | 298.0 | 120.1 | 71.8 | 785.8 | 386.6 | 220.5 |
| 312 | MR | 527.8 | 749.4 | 354.4 | 194.0 | 147.4 | 165.0 | 193.8 | 195.3 | 264.3 | 102.8 | 81.8 | 453.3 | 331.0 | 206.0 |
| 313 | MR | 320.5 | 254.3 | 71.7 | 87.9 | 154.7 | 245.4 | 300.3 | 371.3 | 269.5 | 129.3 | 76.4 | 457.9 | 357.8 | 189.7 |
| 314 | MR | 147.6 | 66.8 | 43.1 | 22.2 | 45.1 | 117.2 | 152.8 | 179.6 | 310.1 | 132.4 | 65.8 | 1455.5 | 407.7 | 207.8 |
| 315 | MR | 141.5 | 78.5 | 36.4 | 26.7 | 58.8 | 112.4 | 169.0 | 204.2 | 295.3 | 131.3 | 69.2 | 1660.7 | 384.9 | 196.3 |
| 316 | MR | 383.5 | 477.5 | 388.1 | 225.6 | 174.0 | 214.8 | 212.2 | 181.4 | 288.4 | 95.4 | 86.8 | 327.3 | 345.4 | 236.1 |
| 317 | MR | 283.3 | 351.2 | 274.3 | 140.6 | 119.7 | 120.6 | 125.1 | 120.5 | 161.6 | 106.0 | 83.2 | 472.3 | 229.4 | 103.2 |
| 318 | MR | 340.6 | 348.1 | 331.6 | 184.6 | 146.8 | 178.5 | 173.8 | 181.2 | 254.9 | 106.0 | 88.9 | 284.2 | 316.1 | 197.6 |
| 319 | MR | 173.0 | 142.3 | 142.0 | 88.0 | 81.3 | 155.0 | 158.0 | 176.0 | 190.7 | 97.3 | 88.0 | 269.0 | 247.0 | 136.7 |
| 320 | MR | 316.5 | 293.1 | 152.0 | 168.2 | 185.5 | 181.3 | 270.4 | 256.5 | 299.4 | 96.5 | 75.5 | 714.4 | 373.2 | 246.1 |
| 321 | MR | 163.3 | 35.5 | 36.2 | 31.2 | 59.5 | 134.1 | 193.5 | 207.0 | 302.6 | 117.7 | 67.0 | 861.3 | 392.7 | 218.3 |
| 322 | MR | 38.6 | 15.4 | 7.4 | 10.7 | 37.9 | 63.9 | 91.9 | 120.0 | 127.9 | 177.7 | 74.4 | 1271.1 | 239.6 | 1.9 |
| 323 | MR | 334.1 | 396.9 | 142.7 | 148.3 | 182.8 | 199.5 | 231.4 | 236.7 | 308.3 | 106.4 | 77.3 | 760.4 | 386.5 | 249.9 |
| 324 | MR | 394.9 | 406.6 | 152.7 | 136.0 | 147.8 | 173.5 | 231.7 | 222.4 | 307.9 | 105.2 | 81.2 | 555.5 | 379.8 | 251.0 |
| 325 | MR | 394.5 | 507.5 | 331.8 | 233.9 | 169.3 | 194.4 | 220.7 | 206.3 | 292.9 | 99.5 | 86.1 | 219.0 | 350.2 | 235.4 |
| 326 | MR | 222.3 | 84.5 | 64.0 | 54.2 | 93.9 | 197.9 | 281.3 | 300.3 | 292.3 | 110.6 | 68.9 | 1059.1 | 370.2 | 210.9 |
| 327 | MR | 500.0 | 491.0 | 437.0 | 276.0 | 258.0 | 298.0 | 312.0 | 263.0 | 280.0 | 86.0 | 86.0 | 369.0 | 332.0 | 232.0 |
| 328 | MR | 215.6 | 87.5 | 30.8 | 52.2 | 101.0 | 137.2 | 220.2 | 227.4 | 306.0 | 121.9 | 71.5 | 821.7 | 400.9 | 231.4 |
| 329 | MR | 198.9 | 83.7 | 32.3 | 56.6 | 108.6 | 150.9 | 215.2 | 234.5 | 304.3 | 119.8 | 73.0 | 815.6 | 395.4 | 232.3 |
| 330 | MR | 137.3 | 32.0 | 6.3 | 24.3 | 76.3 | 147.7 | 239.7 | 305.0 | 304.7 | 120.0 | 69.0 | 1570.7 | 405.3 | 233.3 |
| 331 | MR | 80.1 | 32.1 | 0.4 | 7.1 | 41.0 | 105.8 | 211.5 | 226.5 | 303.8 | 126.3 | 70.1 | 1550.3 | 406.0 | 227.8 |
| 332 | MR | 234.0 | 88.7 | 32.3 | 44.4 | 83.9 | 156.4 | 190.8 | 224.8 | 308.0 | 129.3 | 77.2 | 992.2 | 402.9 | 236.4 |
| 333 | MR | 322.6 | 148.4 | 63.9 | 69.3 | 50.3 | 53.9 | 118.9 | 207.6 | 315.7 | 117.1 | 75.1 | 1343.9 | 401.3 | 246.2 |
| 334 | MR | 272.3 | 296.2 | 206.3 | 171.5 | 159.1 | 196.0 | 191.2 | 243.1 | 290.7 | 92.8 | 89.1 | 278.8 | 345.1 | 241.7 |
| 335 | MR | 244.7 | 272.9 | 151.9 | 164.2 | 146.8 | 187.2 | 230.0 | 222.7 | 299.9 | 97.6 | 80.8 | 538.5 | 368.1 | 248.1 |
| 336 | MR | 138.5 | 18.2 | 7.4 | 23.7 | 44.3 | 117.0 | 126.8 | 156.9 | 334.8 | 155.4 | 74.0 | 1204.5 | 452.0 | 243.6 |
| 337 | MR | 257.7 | 179.4 | 44.3 | 82.4 | 138.1 | 183.1 | 231.6 | 266.9 | 310.8 | 110.1 | 66.1 | 1403.0 | 412.6 | 247.3 |
| 338 | MR | 108.8 | 30.0 | 2.2 | 13.8 | 59.0 | 130.7 | 235.0 | 277.2 | 304.8 | 122.8 | 69.8 | 1558.0 | 405.5 | 231.2 |
| 339 | MR | 191.6 | 144.2 | 77.1 | 117.8 | 103.3 | 125.3 | 188.7 | 208.2 | 311.1 | 102.3 | 69.4 | 1204.9 | 401.1 | 254.9 |
| 340 | MR | 193.1 | 38.6 | 25.5 | 37.6 | 83.2 | 150.3 | 212.1 | 247.6 | 300.8 | 129.8 | 76.2 | 832.2 | 392.5 | 223.3 |
| 341 | MR | 166.1 | 21.7 | 22.8 | 26.6 | 68.7 | 139.0 | 201.0 | 213.5 | 302.3 | 121.6 | 71.0 | 828.6 | 392.7 | 222.5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 342 | MR | 328.5 | 168.8 | 60.3 | 100.3 | 33.3 | 20.3 | 19.0 | 82.5 | 303.8 | 102.0 | 79.3 | 852.8 | 375.5 | 247.5 |
| 343 | MR | 82.0 | 29.3 | 9.7 | 12.7 | 35.7 | 44.3 | 118.7 | 215.0 | 311.3 | 120.0 | 72.0 | 1250.0 | 398.3 | 232.0 |
| 344 | MR | 82.5 | 13.0 | 5.0 | 17.0 | 29.0 | 97.5 | 125.0 | 142.0 | 337.0 | 164.0 | 74.0 | 1149.5 | 456.5 | 237.5 |
| 345 | MR | 270.0 | 154.0 | 39.0 | 30.0 | 8.0 | 4.0 | 15.0 | 25.0 | 301.0 | 76.0 | 73.0 | 684.0 | 353.0 | 250.0 |
| 346 | MR | 85.2 | 30.7 | 13.0 | 14.8 | 39.2 | 48.2 | 123.2 | 227.7 | 310.2 | 118.2 | 72.0 | 1236.0 | 395.5 | 233.5 |
| 347 | MR | 97.8 | 31.8 | 1.5 | 10.8 | 53.8 | 122.5 | 229.5 | 261.0 | 305.3 | 123.5 | 70.0 | 1562.8 | 406.5 | 230.8 |
| 348 | MR | 90.3 | 34.3 | 1.7 | 8.7 | 53.0 | 118.7 | 231.0 | 252.7 | 306.0 | 123.0 | 69.3 | 1566.3 | 407.7 | 231.7 |
| 349 | MR | 123.9 | 23.2 | 12.9 | 37.0 | 73.2 | 150.2 | 222.0 | 311.4 | 313.7 | 137.0 | 67.7 | 1626.6 | 425.7 | 224.5 |
| 350 | MR | 102.2 | 15.2 | 8.0 | 30.6 | 54.0 | 124.3 | 209.9 | 296.8 | 312.7 | 142.3 | 68.0 | 1596.9 | 427.0 | 219.3 |
| 351 | MR | 305.7 | 184.9 | 42.0 | 94.6 | 107.9 | 73.1 | 190.6 | 269.4 | 306.8 | 95.9 | 70.0 | 1538.5 | 382.2 | 246.3 |
| 352 | MR | 262.3 | 99.5 | 43.4 | 35.4 | 39.2 | 55.0 | 129.9 | 255.4 | 320.6 | 118.4 | 74.0 | 1406.4 | 408.9 | 250.4 |
| 353 | MR | 142.0 | 29.0 | 5.0 | 24.0 | 75.0 | 151.0 | 243.0 | 315.0 | 305.0 | 120.0 | 69.0 | 1567.0 | 406.0 | 233.0 |
| 354 | MR | 95.0 | 28.0 | 1.0 | 10.0 | 46.0 | 115.0 | 220.0 | 249.0 | 306.0 | 125.0 | 70.0 | 1539.0 | 409.0 | 230.0 |
| 355 | MR | 170.4 | 59.6 | 22.9 | 54.7 | 91.0 | 160.3 | 204.5 | 234.5 | 316.6 | 120.3 | 69.3 | 1439.3 | 419.7 | 247.4 |
| 356 | MR | 203.2 | 32.1 | 26.7 | 36.3 | 81.5 | 150.1 | 198.8 | 230.5 | 323.1 | 131.7 | 71.9 | 1531.4 | 428.3 | 246.4 |
| 357 | MR | 101.0 | 27.0 | 1.0 | 12.0 | 48.0 | 119.0 | 225.0 | 261.0 | 305.0 | 125.0 | 70.0 | 1543.0 | 407.0 | 229.0 |
| 358 | MR | 218.0 | 103.8 | 46.1 | 71.2 | 111.8 | 174.2 | 192.3 | 279.0 | 312.1 | 102.8 | 65.0 | 1639.5 | 404.9 | 248.1 |
| 359 | MR | 172.6 | 68.3 | 19.1 | 49.9 | 83.9 | 140.6 | 227.4 | 276.9 | 314.5 | 114.3 | 67.3 | 1587.3 | 417.8 | 248.9 |
| 360 | MR | 322.0 | 146.9 | 51.5 | 88.6 | 41.8 | 28.1 | 27.8 | 109.2 | 309.3 | 95.8 | 79.1 | 926.0 | 375.7 | 255.1 |
| 361 | MR | 311.8 | 187.3 | 50.5 | 146.3 | 113.3 | 94.8 | 128.9 | 287.9 | 313.3 | 103.5 | 72.6 | 1339.0 | 391.9 | 250.3 |
| 362 | MR | 331.6 | 163.5 | 57.9 | 96.6 | 32.5 | 20.5 | 19.6 | 84.6 | 304.3 | 101.0 | 79.2 | 862.3 | 375.3 | 248.5 |
| 363 | MR | 96.5 | 34.0 | 3.5 | 12.8 | 60.3 | 123.0 | 233.0 | 264.5 | 304.3 | 122.3 | 69.0 | 1586.5 | 406.5 | 230.3 |
| 364 | MR | 321.0 | 196.0 | 61.0 | 87.0 | 20.0 | 6.0 | 8.0 | 57.0 | 300.0 | 101.0 | 77.0 | 840.0 | 373.0 | 243.0 |
| 365 | MR | 304.0 | 196.0 | 62.0 | 83.0 | 20.0 | 6.0 | 9.0 | 48.0 | 300.0 | 96.0 | 77.0 | 819.0 | 369.0 | 245.0 |
| 366 | MR | 300.5 | 198.5 | 66.0 | 83.5 | 20.5 | 7.5 | 11.0 | 47.0 | 300.0 | 93.5 | 76.5 | 823.5 | 367.5 | 245.5 |
| 367 | MR | 389.1 | 166.6 | 51.5 | 73.6 | 33.1 | 8.6 | 17.3 | 107.6 | 314.9 | 83.1 | 71.8 | 1097.5 | 376.8 | 261.7 |
| 368 | MR | 325.0 | 196.0 | 65.0 | 100.0 | 27.0 | 11.0 | 10.0 | 70.0 | 300.0 | 102.0 | 78.0 | 836.0 | 374.0 | 244.0 |
| 369 | MR | 324.7 | 150.7 | 53.3 | 91.3 | 38.0 | 26.3 | 25.7 | 99.0 | 307.7 | 98.0 | 80.0 | 882.0 | 375.7 | 253.7 |
| 370 | MR | 321.0 | 145.0 | 52.0 | 87.5 | 44.5 | 28.0 | 29.0 | 115.0 | 311.0 | 94.0 | 78.0 | 955.5 | 376.5 | 256.5 |
| 371 | MR | 87.7 | 34.0 | 2.0 | 8.3 | 53.7 | 118.0 | 233.3 | 253.7 | 303.7 | 123.3 | 69.0 | 1577.3 | 406.0 | 228.7 |
| 372 | MR | 236.5 | 270.2 | 82.1 | 111.9 | 128.0 | 180.7 | 216.0 | 254.8 | 296.9 | 94.0 | 81.4 | 519.5 | 361.1 | 246.4 |
| 373 | MR | 230.4 | 147.2 | 37.9 | 60.9 | 115.8 | 178.0 | 204.4 | 260.6 | 309.9 | 112.9 | 70.2 | 1243.0 | 405.4 | 245.7 |
| 374 | MR | 114.5 | 34.0 | 5.5 | 18.5 | 68.5 | 134.5 | 235.5 | 280.0 | 305.5 | 120.5 | 69.0 | 1591.0 | 406.5 | 232.0 |
| 375 | MR | 82.1 | 20.4 | 7.3 | 18.2 | 33.0 | 96.5 | 148.5 | 169.6 | 325.2 | 162.7 | 73.7 | 1053.5 | 437.5 | 218.2 |
| 376 | MR | 96.5 | 31.0 | 1.0 | 10.5 | 51.5 | 121.0 | 227.5 | 258.5 | 305.0 | 124.0 | 70.0 | 1558.5 | 406.5 | 230.5 |
| 377 | MR | 265.2 | 107.2 | 45.6 | 27.4 | 17.6 | 16.2 | 60.5 | 105.3 | 294.9 | 74.7 | 60.6 | 1880.6 | 363.1 | 240.9 |
| 378 | MR | 331.7 | 199.4 | 38.9 | 64.9 | 66.9 | 39.5 | 146.2 | 217.0 | 298.9 | 76.9 | 63.4 | 1672.6 | 367.9 | 247.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 379 | MR | 101.8 | 15.4 | 7.0 | 22.9 | 35.3 | 107.4 | 125.7 | 144.5 | 335.6 | 161.9 | 74.6 | 1160.9 | 454.2 | 238.8 |
| 380 | MR | 110.4 | 16.3 | 8.2 | 26.9 | 39.0 | 112.5 | 126.4 | 143.9 | 333.4 | 160.6 | 74.9 | 1177.0 | 451.3 | 238.1 |
| 381 | MR | 251.1 | 207.1 | 62.2 | 111.7 | 155.0 | 199.9 | 218.2 | 244.4 | 302.1 | 109.9 | 79.8 | 694.7 | 379.2 | 242.4 |
| 382 | MR | 132.0 | 39.5 | 22.8 | 28.1 | 23.9 | 43.2 | 112.8 | 203.4 | 302.0 | 114.9 | 69.9 | 1713.8 | 396.7 | 233.5 |
| 383 | MR | 246.3 | 308.1 | 171.8 | 160.1 | 134.6 | 205.0 | 217.4 | 246.1 | 291.2 | 91.6 | 90.7 | 211.1 | 344.1 | 243.8 |
| 384 | MR | 160.1 | 20.6 | 12.4 | 25.3 | 54.1 | 126.1 | 141.5 | 173.5 | 331.5 | 144.2 | 73.5 | 1366.8 | 444.5 | 249.5 |
| 385 | MR | 151.9 | 19.7 | 9.7 | 28.2 | 49.9 | 123.8 | 130.1 | 158.9 | 332.8 | 151.6 | 74.1 | 1263.6 | 448.3 | 244.9 |
| 386 | MR | 147.8 | 40.1 | 15.1 | 34.3 | 91.0 | 145.6 | 228.4 | 294.4 | 308.1 | 116.5 | 68.4 | 1590.5 | 408.0 | 238.9 |
| 387 | MR | 265.5 | 173.7 | 131.4 | 163.3 | 149.9 | 130.2 | 164.3 | 223.8 | 307.0 | 101.4 | 79.4 | 703.7 | 379.0 | 252.0 |
| 388 | MR | 125.1 | 31.0 | 23.8 | 36.1 | 28.8 | 33.1 | 98.1 | 191.0 | 295.1 | 114.9 | 72.3 | 1531.2 | 385.9 | 228.1 |
| 389 | MR | 234.3 | 140.4 | 45.3 | 71.0 | 123.2 | 169.2 | 213.4 | 244.9 | 304.3 | 115.0 | 74.3 | 739.7 | 390.4 | 236.5 |
| 390 | MR | 148.8 | 49.0 | 30.0 | 38.9 | 26.6 | 64.0 | 138.8 | 232.4 | 308.8 | 120.7 | 69.2 | 1864.0 | 409.8 | 236.8 |
| 391 | MR | 92.0 | 33.0 | 2.0 | 9.0 | 53.0 | 120.0 | 230.0 | 255.0 | 305.0 | 123.0 | 70.0 | 1575.0 | 407.0 | 231.0 |
| 392 | MR | 321.0 | 145.0 | 51.0 | 88.0 | 44.0 | 28.0 | 29.0 | 115.0 | 310.0 | 94.0 | 78.0 | 932.0 | 375.0 | 256.0 |
| 393 | MR | 92.5 | 33.5 | 1.8 | 9.0 | 53.5 | 120.3 | 230.5 | 255.3 | 305.8 | 123.0 | 69.8 | 1567.3 | 407.5 | 231.8 |
| 394 | MR | 120.5 | 32.0 | 4.0 | 18.5 | 67.5 | 138.5 | 237.5 | 289.0 | 305.5 | 120.5 | 69.0 | 1570.5 | 406.0 | 233.0 |
| 395 | MR | 197.9 | 59.8 | 35.4 | 28.6 | 24.1 | 38.7 | 85.1 | 204.9 | 310.4 | 109.5 | 62.6 | 2305.7 | 412.9 | 239.5 |
| 396 | MR | 311.7 | 180.3 | 52.7 | 126.8 | 84.7 | 76.9 | 100.1 | 255.2 | 314.2 | 108.1 | 73.8 | 1298.0 | 394.5 | 249.0 |
| 397 | MR | 267.9 | 121.5 | 48.3 | 36.7 | 32.2 | 21.3 | 86.0 | 142.4 | 297.9 | 79.4 | 64.0 | 1754.7 | 366.0 | 243.0 |
| 398 | MR | 222.2 | 241.8 | 268.2 | 142.2 | 95.9 | 125.0 | 110.3 | 125.5 | 144.2 | 90.2 | 85.2 | 407.3 | 199.6 | 94.3 |
| 399 | MR | 187.0 | 126.0 | 102.0 | 100.0 | 112.0 | 192.0 | 209.0 | 144.0 | 179.0 | 71.0 | 87.0 | 226.0 | 220.0 | 139.0 |
| 400 | MR | 282.2 | 316.6 | 338.5 | 182.4 | 133.9 | 149.8 | 146.9 | 174.5 | 183.8 | 98.5 | 88.8 | 303.0 | 239.7 | 129.4 |
| 401 | MR | 401.8 | 274.5 | 97.8 | 29.5 | 30.5 | 32.8 | 62.5 | 195.0 | 300.8 | 86.5 | 76.0 | 814.8 | 365.3 | 252.3 |
| 402 | MR | 359.5 | 276.8 | 147.7 | 74.2 | 45.9 | 55.8 | 92.0 | 167.3 | 304.8 | 88.3 | 72.2 | 1095.8 | 373.8 | 252.1 |
| 403 | MR | 373.0 | 252.8 | 134.3 | 72.5 | 46.8 | 48.3 | 82.0 | 174.0 | 306.0 | 91.3 | 71.8 | 1170.8 | 378.0 | 252.0 |
| 404 | MR | 486.8 | 278.0 | 186.1 | 112.2 | 40.4 | 31.4 | 91.9 | 209.4 | 305.4 | 96.6 | 67.9 | 1546.9 | 387.4 | 246.0 |
| 405 | MR | 343.7 | 254.7 | 125.7 | 63.3 | 47.5 | 48.9 | 77.2 | 161.2 | 302.8 | 88.7 | 71.7 | 1075.8 | 373.5 | 250.5 |
| 406 | MR | 378.8 | 266.3 | 166.4 | 101.3 | 35.2 | 41.6 | 84.2 | 167.0 | 311.3 | 93.7 | 71.7 | 1225.7 | 383.4 | 253.6 |
| 407 | MR | 419.1 | 288.5 | 99.9 | 44.9 | 78.9 | 59.5 | 79.7 | 224.6 | 291.0 | 92.1 | 75.2 | 906.3 | 362.9 | 241.1 |
| 408 | MR | 601.1 | 400.0 | 123.6 | 53.4 | 73.3 | 62.2 | 110.2 | 347.8 | 293.0 | 87.7 | 74.6 | 733.2 | 362.0 | 245.1 |
| 409 | MR | 519.4 | 330.2 | 94.2 | 44.9 | 80.9 | 56.6 | 106.1 | 305.5 | 288.7 | 93.4 | 74.9 | 863.6 | 361.8 | 237.8 |
| 410 | MR | 171.7 | 72.6 | 19.9 | 49.3 | 84.3 | 140.2 | 227.4 | 275.2 | 313.6 | 114.1 | 66.9 | 1597.9 | 417.4 | 248.0 |
| 411 | MR | 311.5 | 257.2 | 148.3 | 73.0 | 35.3 | 45.7 | 89.7 | 141.7 | 306.7 | 86.5 | 73.0 | 1044.2 | 372.2 | 254.7 |
| 412 | MR | 66.5 | 27.8 | 0.5 | 6.0 | 33.7 | 90.9 | 203.5 | 210.8 | 304.2 | 131.0 | 69.8 | 1534.9 | 409.4 | 223.0 |
| 413 | MR | 412.8 | 189.0 | 125.6 | 75.4 | 50.4 | 41.6 | 103.4 | 157.1 | 304.8 | 114.2 | 64.5 | 2011.6 | 411.1 | 235.6 |
| 414 | MR | 346.5 | 255.6 | 124.3 | 37.3 | 40.9 | 43.7 | 68.4 | 185.2 | 301.1 | 87.5 | 74.1 | 925.4 | 368.7 | 251.4 |
| 415 | MR | 89.9 | 27.0 | 15.8 | 16.8 | 22.0 | 76.8 | 107.7 | 116.5 | 301.7 | 139.6 | 64.8 | 1626.7 | 406.8 | 193.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 416 | MR | 153.3 | 26.3 | 9.4 | 26.7 | 45.0 | 133.4 | 180.6 | 164.8 | 328.2 | 132.9 | 73.2 | 1400.0 | 431.8 | 251.6 |
| 417 | MR | 260.1 | 123.2 | 82.2 | 41.6 | 100.3 | 197.3 | 353.9 | 443.3 | 310.7 | 134.4 | 65.9 | 1797.6 | 403.0 | 200.8 |
| 418 | MR | 249.0 | 125.0 | 59.0 | 114.0 | 102.5 | 89.0 | 92.0 | 196.5 | 313.5 | 108.0 | 80.0 | 962.5 | 387.0 | 252.5 |
| 419 | MR | 96.9 | 33.5 | 22.3 | 18.9 | 27.0 | 80.7 | 121.4 | 132.9 | 311.5 | 137.2 | 65.9 | 1394.2 | 416.4 | 209.7 |
| 420 | MR | 229.0 | 97.0 | 57.5 | 36.5 | 94.0 | 234.0 | 305.0 | 410.5 | 304.5 | 145.0 | 68.0 | 1917.0 | 397.5 | 185.5 |
| 421 | MR | 148.8 | 46.0 | 50.4 | 22.4 | 43.3 | 99.8 | 169.2 | 184.9 | 307.7 | 123.4 | 68.5 | 919.1 | 398.9 | 220.0 |
| 422 | MR | 500.5 | 691.5 | 442.0 | 200.5 | 141.0 | 163.5 | 190.0 | 183.5 | 237.0 | 110.5 | 83.0 | 449.5 | 309.5 | 177.0 |
| 423 | MR | 252.7 | 121.0 | 82.0 | 39.7 | 95.7 | 189.7 | 333.7 | 419.7 | 310.3 | 132.3 | 65.3 | 1739.3 | 403.0 | 202.0 |
| 424 | MR | 332.9 | 363.4 | 321.3 | 185.6 | 147.7 | 175.4 | 174.6 | 197.7 | 235.1 | 107.9 | 91.3 | 231.0 | 295.0 | 177.7 |
| 425 | MR | 139.0 | 56.0 | 43.0 | 22.5 | 53.0 | 114.0 | 165.0 | 197.5 | 318.5 | 131.0 | 65.0 | 1130.0 | 423.0 | 223.0 |
| 426 | MR | 22.9 | 12.7 | 6.4 | 12.2 | 37.1 | 55.6 | 110.3 | 130.8 | 122.9 | 139.1 | 72.0 | 1091.3 | 209.1 | 16.9 |
| 427 | MR | 15.0 | 11.0 | 5.0 | 11.0 | 38.0 | 40.0 | 86.0 | 103.0 | 82.0 | 145.0 | 70.0 | 1171.0 | 172.0 | -32.0 |
| 428 | MR | 272.5 | 334.6 | 141.2 | 69.2 | 68.3 | 94.6 | 99.8 | 84.7 | 217.5 | 108.3 | 83.2 | 387.0 | 284.7 | 155.5 |
| 429 | MR | 106.5 | 53.5 | 27.2 | 37.7 | 86.2 | 127.6 | 184.6 | 210.6 | 221.0 | 124.7 | 75.1 | 756.5 | 301.1 | 136.3 |
| 430 | MR | 95.2 | 53.4 | 18.6 | 23.0 | 67.2 | 91.8 | 101.2 | 136.2 | 180.4 | 147.8 | 74.6 | 473.2 | 276.0 | 80.0 |
| 431 | MR | 134.7 | 168.7 | 86.3 | 37.7 | 32.9 | 64.3 | 62.8 | 72.3 | 173.0 | 120.4 | 88.1 | 308.0 | 242.0 | 106.1 |
| 432 | MR | 428.8 | 347.3 | 185.9 | 181.3 | 61.5 | 58.7 | 105.5 | 183.2 | 299.4 | 74.0 | 65.2 | 1182.8 | 364.9 | 252.4 |
| 433 | MR | 169.8 | 74.1 | 57.8 | 24.6 | 59.5 | 129.1 | 193.0 | 243.6 | 313.8 | 124.6 | 63.3 | 1201.2 | 413.6 | 218.5 |
| 434 | MR | 378.2 | 414.5 | 288.9 | 430.6 | 235.1 | 254.3 | 251.1 | 190.3 | 265.2 | 108.9 | 83.0 | 790.2 | 334.9 | 204.5 |
| 435 | MR | 468.9 | 259.7 | 178.6 | 100.5 | 37.1 | 26.9 | 89.5 | 211.0 | 305.4 | 98.6 | 67.2 | 1625.4 | 390.6 | 244.9 |
| 436 | MR | 294.9 | 366.9 | 150.8 | 80.5 | 77.6 | 100.6 | 103.2 | 88.4 | 228.9 | 102.7 | 81.0 | 430.2 | 294.9 | 168.6 |
| 437 | MR | 477.4 | 611.2 | 272.2 | 162.7 | 129.2 | 154.0 | 201.7 | 200.2 | 291.9 | 96.4 | 84.8 | 345.7 | 351.8 | 238.7 |
| 438 | MR | 346.8 | 337.8 | 111.4 | 124.1 | 168.0 | 202.8 | 225.9 | 219.0 | 308.1 | 120.1 | 79.7 | 648.2 | 391.6 | 241.9 |
| 439 | MR | 260.1 | 223.7 | 125.8 | 167.6 | 212.1 | 212.7 | 198.0 | 260.4 | 295.6 | 96.3 | 87.9 | 258.3 | 352.7 | 243.7 |
| 1 | Presente | 272.3 | 247.3 | 235.7 | 211.9 | 227.0 | 238.7 | 253.8 | 235.7 | 259.2 | 85.8 | 315.3 | 114.2 | 257.6 | 252.8 |
| 2 | Presente | 280.3 | 227.8 | 191.7 | 179.2 | 208.9 | 220.0 | 210.5 | 249.8 | 260.4 | 85.0 | 314.7 | 110.3 | 255.4 | 253.6 |
| 3 | Presente | 13.3 | 8.1 | 12.1 | 21.1 | 41.4 | 62.8 | 95.8 | 128.3 | 112.5 | 76.1 | 211.5 | 209.3 | 98.6 | 97.1 |
| 4 | Presente | 226.2 | 167.0 | 128.5 | 125.2 | 169.8 | 196.5 | 214.8 | 236.8 | 261.5 | 83.2 | 319.6 | 116.6 | 255.6 | 255.3 |
| 5 | Presente | 133.9 | 107.2 | 98.3 | 97.3 | 141.6 | 165.7 | 142.8 | 118.3 | 237.2 | 82.0 | 302.1 | 135.9 | 230.6 | 230.6 |
| 6 | Presente | 104.7 | 76.7 | 53.4 | 65.9 | 100.1 | 152.1 | 215.4 | 179.6 | 264.4 | 78.4 | 332.8 | 140.5 | 256.7 | 255.8 |
| 7 | Presente | 284.2 | 236.3 | 222.6 | 208.5 | 215.8 | 225.7 | 234.2 | 259.3 | 261.6 | 85.8 | 315.6 | 110.5 | 257.9 | 254.9 |
| 8 | Presente | 217.7 | 166.5 | 139.4 | 123.3 | 128.0 | 156.7 | 176.8 | 214.8 | 25.6 | 7.9 | 32.3 | 13.3 | 25.4 | 24.8 |
| 9 | Presente | 81.4 | 48.4 | 69.0 | 39.0 | 68.3 | 99.7 | 159.1 | 217.3 | 260.6 | 71.1 | 335.9 | 158.0 | 243.8 | 243.3 |
| 10 | Presente | 116.4 | 78.9 | 59.2 | 70.6 | 100.7 | 168.5 | 192.2 | 291.5 | 249.2 | 63.8 | 323.4 | 169.1 | 222.9 | 222.9 |
| 11 | Presente | 311.2 | 209.8 | 172.6 | 126.4 | 70.8 | 52.2 | 54.7 | 156.7 | 270.5 | 83.9 | 325.6 | 100.9 | 276.0 | 263.9 |
| 12 | Presente | 299.5 | 177.2 | 129.0 | 49.9 | 24.3 | 17.0 | 25.3 | 77.5 | 271.4 | 83.0 | 328.3 | 105.8 | 276.9 | 267.0 |
| 13 | Presente | 314.6 | 276.8 | 212.9 | 187.5 | 137.3 | 116.5 | 124.0 | 106.4 | 271.6 | 87.7 | 326.7 | 108.6 | 273.1 | 266.3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | Presente | 64.7 | 37.1 | 33.4 | 63.4 | 100.1 | 130.4 | 152.7 | 241.0 | 218.6 | 70.3 | 291.4 | 156.7 | 200.1 | 199.8 |
| 15 | Presente | 56.3 | 30.3 | 25.7 | 48.0 | 69.7 | 126.3 | 141.7 | 199.3 | 194.7 | 72.0 | 255.7 | 128.3 | 178.3 | 176.0 |
| 16 | Presente | 307.2 | 213.9 | 147.4 | 52.4 | 15.7 | 8.7 | 15.5 | 49.4 | 269.2 | 79.8 | 320.1 | 97.9 | 275.6 | 263.4 |
| 17 | Presente | 47.0 | 18.4 | 15.8 | 38.2 | 57.6 | 100.4 | 97.6 | 169.4 | 190.8 | 73.0 | 259.4 | 145.8 | 177.2 | 174.2 |
| 18 | Presente | 316.0 | 239.0 | 178.0 | 96.0 | 43.0 | 32.0 | 62.0 | 129.0 | 271.0 | 78.0 | 327.0 | 99.0 | 277.0 | 263.0 |
| 19 | Presente | 105.0 | 40.1 | 19.1 | 30.9 | 66.0 | 130.0 | 143.6 | 239.0 | 256.6 | 81.2 | 325.6 | 133.7 | 257.7 | 252.5 |
| 20 | Presente | 104.0 | 46.5 | 37.5 | 39.6 | 96.6 | 164.3 | 206.1 | 260.5 | 257.5 | 75.5 | 324.1 | 143.4 | 250.6 | 245.7 |
| 21 | Presente | 263.0 | 151.0 | 142.0 | 121.0 | 120.0 | 97.0 | 98.0 | 209.0 | 268.0 | 90.0 | 323.0 | 105.0 | 270.0 | 264.0 |
| 22 | Presente | 80.8 | 35.4 | 24.8 | 27.2 | 50.4 | 122.0 | 130.6 | 189.6 | 262.6 | 75.4 | 336.6 | 146.6 | 262.6 | 258.6 |
| 23 | Presente | 172.1 | 74.8 | 30.9 | 24.7 | 35.0 | 77.7 | 116.3 | 215.7 | 271.0 | 86.6 | 332.2 | 118.3 | 274.1 | 266.3 |
| 24 | Presente | 102.3 | 46.0 | 39.0 | 40.0 | 96.0 | 167.0 | 206.0 | 260.0 | 261.3 | 74.0 | 328.0 | 143.3 | 255.7 | 249.7 |
| 25 | Presente | 253.1 | 147.9 | 102.0 | 81.5 | 104.8 | 148.8 | 150.5 | 241.4 | 270.8 | 83.6 | 325.9 | 102.7 | 275.0 | 266.4 |
| 26 | Presente | 195.7 | 114.8 | 85.3 | 83.3 | 105.7 | 153.4 | 174.7 | 233.7 | 272.3 | 81.8 | 327.7 | 102.3 | 277.4 | 267.7 |
| 27 | Presente | 298.4 | 182.5 | 120.4 | 101.4 | 125.5 | 167.7 | 160.7 | 232.2 | 270.8 | 83.2 | 326.2 | 103.6 | 275.0 | 266.5 |
| 28 | Presente | 262.9 | 163.2 | 111.4 | 59.6 | 45.4 | 68.0 | 107.1 | 193.5 | 276.8 | 79.1 | 336.7 | 104.4 | 285.4 | 270.1 |
| 29 | Presente | 206.0 | 110.0 | 78.0 | 61.0 | 82.0 | 131.0 | 168.0 | 225.0 | 274.0 | 81.0 | 329.0 | 102.0 | 279.0 | 269.0 |
| 30 | Presente | 255.1 | 142.6 | 95.2 | 50.0 | 32.0 | 35.5 | 47.5 | 93.4 | 268.4 | 80.8 | 326.2 | 104.8 | 276.1 | 262.3 |
| 31 | Presente | 337.1 | 195.5 | 141.9 | 114.4 | 116.1 | 148.1 | 150.1 | 215.6 | 269.6 | 82.8 | 325.8 | 104.8 | 274.0 | 265.3 |
| 32 | Presente | 236.3 | 139.7 | 131.3 | 114.0 | 109.7 | 91.0 | 84.7 | 189.3 | 268.0 | 88.3 | 323.3 | 105.3 | 271.0 | 263.3 |
| 33 | Presente | 324.3 | 219.3 | 158.8 | 80.2 | 28.7 | 23.9 | 53.6 | 129.2 | 270.0 | 78.6 | 326.2 | 97.4 | 276.9 | 262.3 |
| 34 | Presente | 112.0 | 31.5 | 19.5 | 51.5 | 91.5 | 178.0 | 219.0 | 277.5 | 260.5 | 72.0 | 328.5 | 142.0 | 258.5 | 253.0 |
| 35 | Presente | 82.5 | 34.2 | 25.3 | 26.6 | 52.2 | 115.8 | 132.5 | 195.7 | 258.2 | 75.8 | 331.3 | 144.2 | 258.4 | 254.6 |
| 36 | Presente | 129.3 | 52.3 | 35.3 | 34.6 | 128.7 | 182.5 | 224.0 | 286.8 | 260.9 | 68.9 | 341.1 | 160.6 | 258.2 | 256.4 |
| 37 | Presente | 199.8 | 111.1 | 80.9 | 69.7 | 91.7 | 140.1 | 171.3 | 228.2 | 273.8 | 81.7 | 328.9 | 101.7 | 279.6 | 268.8 |
| 38 | Presente | 67.0 | 41.7 | 33.3 | 59.0 | 91.0 | 123.7 | 150.3 | 234.3 | 230.0 | 69.3 | 298.7 | 146.7 | 211.0 | 210.0 |
| 39 | Presente | 110.3 | 31.2 | 20.0 | 32.4 | 95.8 | 154.6 | 177.2 | 249.2 | 248.6 | 78.5 | 325.9 | 154.0 | 246.8 | 244.7 |
| 40 | Presente | 321.6 | 278.1 | 222.0 | 189.3 | 146.6 | 123.3 | 123.7 | 116.5 | 270.5 | 88.8 | 325.7 | 109.0 | 272.7 | 265.2 |
| 41 | Presente | 68.0 | 46.5 | 31.5 | 39.5 | 42.0 | 78.0 | 143.0 | 169.0 | 256.0 | 68.0 | 334.0 | 175.0 | 241.0 | 228.0 |
| 42 | Presente | 92.0 | 59.0 | 39.5 | 63.5 | 67.0 | 127.0 | 159.0 | 209.0 | 241.0 | 62.0 | 315.5 | 167.0 | 209.5 | 209.5 |
| 43 | Presente | 76.0 | 30.1 | 14.8 | 22.0 | 68.1 | 132.4 | 182.4 | 246.0 | 266.5 | 69.8 | 343.5 | 160.0 | 256.8 | 255.8 |
| 44 | Presente | 77.0 | 33.3 | 17.3 | 28.3 | 69.7 | 126.7 | 179.7 | 247.7 | 265.0 | 69.0 | 342.0 | 165.0 | 253.0 | 252.0 |
| 45 | Presente | 68.0 | 46.5 | 31.5 | 39.5 | 42.0 | 78.0 | 143.0 | 169.0 | 256.0 | 68.0 | 334.0 | 175.0 | 241.0 | 228.0 |
| 46 | Presente | 81.4 | 45.9 | 57.7 | 36.9 | 67.9 | 106.5 | 157.5 | 210.4 | 260.1 | 70.5 | 336.0 | 160.8 | 243.1 | 242.8 |
| 47 | Presente | 102.8 | 70.6 | 54.3 | 68.6 | 100.8 | 157.2 | 180.8 | 276.5 | 245.2 | 65.2 | 318.6 | 165.1 | 220.7 | 220.7 |
| 48 | Presente | 104.1 | 74.9 | 76.7 | 79.3 | 100.3 | 168.3 | 226.8 | 285.8 | 249.7 | 72.3 | 317.4 | 143.3 | 231.8 | 231.8 |
| 49 | Presente | 341.0 | 432.7 | 416.3 | 350.7 | 314.7 | 212.3 | 191.0 | 112.0 | 271.7 | 78.0 | 342.7 | 122.7 | 277.0 | 262.7 |
| 50 | Presente | 178.7 | 213.4 | 170.4 | 140.7 | 129.1 | 142.4 | 130.9 | 119.3 | 170.1 | 86.1 | 239.7 | 131.1 | 173.6 | 162.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 51 | Presente | 46.1 | 22.4 | 18.7 | 40.8 | 62.4 | 104.0 | 108.1 | 173.0 | 169.5 | 71.5 | 238.3 | 150.4 | 153.4 | 151.7 |
| 52 | Presente | 72.4 | 50.9 | 32.4 | 61.4 | 51.4 | 102.9 | 138.2 | 182.8 | 219.8 | 65.6 | 296.2 | 172.3 | 194.7 | 190.7 |
| 53 | Presente | 134.4 | 95.6 | 70.6 | 79.2 | 99.8 | 146.9 | 230.4 | 321.4 | 253.0 | 64.5 | 327.5 | 172.1 | 227.2 | 224.7 |
| 54 | Presente | 81.6 | 62.6 | 54.7 | 62.2 | 78.2 | 131.8 | 169.7 | 229.3 | 218.8 | 70.6 | 286.4 | 143.6 | 202.9 | 199.2 |
| 55 | Presente | 152.8 | 92.1 | 60.7 | 78.3 | 134.8 | 202.8 | 224.7 | 240.8 | 254.4 | 73.9 | 317.1 | 133.8 | 245.3 | 244.8 |
| 56 | Presente | 305.4 | 227.1 | 191.0 | 167.3 | 155.6 | 224.3 | 218.7 | 273.7 | 256.4 | 85.7 | 310.3 | 105.3 | 255.3 | 251.4 |
| 57 | Presente | 216.0 | 134.0 | 124.0 | 104.0 | 96.0 | 82.0 | 70.0 | 170.0 | 269.0 | 89.0 | 323.0 | 103.0 | 271.0 | 263.0 |
| 58 | Presente | 224.0 | 136.0 | 127.0 | 108.0 | 103.0 | 86.0 | 77.0 | 179.0 | 268.0 | 89.0 | 323.0 | 104.0 | 271.0 | 263.0 |
| 59 | Presente | 277.0 | 161.0 | 122.0 | 115.0 | 126.0 | 171.0 | 182.0 | 224.0 | 269.0 | 83.0 | 324.0 | 103.0 | 273.0 | 264.0 |
| 60 | Presente | 75.0 | 31.0 | 26.0 | 43.0 | 97.0 | 149.0 | 204.0 | 233.0 | 254.0 | 68.0 | 326.0 | 153.0 | 241.0 | 238.0 |
| 61 | Presente | 80.0 | 55.0 | 44.0 | 65.0 | 97.0 | 134.0 | 164.5 | 251.5 | 235.5 | 69.0 | 305.0 | 152.0 | 215.0 | 214.5 |
| 62 | Presente | 271.9 | 335.5 | 256.9 | 184.7 | 68.5 | 36.2 | 45.6 | 47.6 | 264.2 | 79.8 | 327.0 | 113.7 | 269.3 | 257.1 |
| 63 | Presente | 290.5 | 388.3 | 322.0 | 256.5 | 178.8 | 183.3 | 242.3 | 332.5 | 262.0 | 78.5 | 311.0 | 94.5 | 259.0 | 255.0 |
| 64 | Presente | 295.1 | 368.3 | 299.8 | 207.4 | 133.5 | 148.2 | 208.5 | 334.9 | 266.3 | 78.4 | 313.9 | 88.2 | 263.3 | 260.2 |
| 65 | Presente | 402.9 | 397.9 | 355.6 | 298.6 | 248.6 | 231.0 | 192.9 | 161.1 | 254.9 | 88.4 | 320.6 | 124.9 | 257.2 | 248.6 |
| 66 | Presente | 545.0 | 437.0 | 240.0 | 141.0 | 60.0 | 67.0 | 139.0 | 336.0 | 264.0 | 75.0 | 323.0 | 102.0 | 272.0 | 258.0 |
| 67 | Presente | 368.0 | 325.0 | 195.0 | 106.0 | 54.0 | 51.0 | 111.0 | 222.0 | 265.0 | 78.0 | 324.0 | 103.0 | 272.0 | 256.0 |
| 68 | Presente | 101.2 | 87.2 | 77.3 | 70.3 | 99.2 | 127.1 | 110.3 | 98.0 | 182.8 | 78.0 | 248.1 | 130.9 | 176.7 | 176.4 |
| 69 | Presente | 39.6 | 20.3 | 28.9 | 29.9 | 67.3 | 90.9 | 96.8 | 130.3 | 124.7 | 78.9 | 208.3 | 185.2 | 113.8 | 113.8 |
| 70 | Presente | 133.5 | 83.2 | 80.8 | 102.0 | 137.7 | 215.9 | 245.7 | 343.8 | 219.6 | 82.3 | 293.3 | 153.3 | 213.3 | 213.3 |
| 71 | Presente | 337.1 | 309.0 | 250.5 | 158.4 | 82.0 | 63.1 | 67.0 | 73.4 | 259.5 | 81.4 | 323.8 | 117.4 | 266.2 | 253.1 |
| 72 | Presente | 331.0 | 398.7 | 418.0 | 341.7 | 228.3 | 189.7 | 135.7 | 84.0 | 281.0 | 75.3 | 358.0 | 133.0 | 288.3 | 269.0 |
| 73 | Presente | 331.5 | 400.0 | 418.5 | 343.5 | 230.5 | 192.0 | 138.0 | 85.5 | 281.0 | 75.5 | 358.0 | 133.0 | 288.0 | 269.0 |
| 74 | Presente | 186.9 | 83.3 | 46.6 | 56.1 | 113.2 | 144.0 | 165.7 | 244.7 | 265.0 | 71.8 | 333.3 | 136.3 | 263.2 | 260.4 |
| 75 | Presente | 294.9 | 332.8 | 269.9 | 220.5 | 95.3 | 63.8 | 84.5 | 62.1 | 272.3 | 85.6 | 331.0 | 116.6 | 274.7 | 264.4 |
| 76 | Presente | 115.5 | 43.6 | 19.9 | 48.5 | 92.4 | 153.2 | 233.3 | 307.8 | 261.9 | 71.7 | 332.5 | 142.3 | 258.4 | 255.0 |
| 77 | Presente | 383.4 | 255.7 | 195.1 | 121.9 | 74.0 | 61.6 | 77.7 | 92.3 | 259.2 | 78.8 | 332.2 | 125.4 | 268.5 | 252.8 |
| 78 | Presente | 54.0 | 9.0 | 4.0 | 22.5 | 62.0 | 161.5 | 225.5 | 293.5 | 235.5 | 68.0 | 323.5 | 190.5 | 226.5 | 225.5 |
| 79 | Presente | 328.8 | 237.9 | 190.4 | 114.9 | 71.1 | 52.1 | 68.9 | 133.4 | 258.8 | 80.8 | 321.3 | 109.4 | 266.4 | 251.3 |
| 80 | Presente | 349.0 | 307.3 | 276.1 | 231.0 | 230.2 | 262.4 | 268.0 | 337.4 | 254.7 | 86.1 | 307.5 | 103.8 | 255.4 | 248.8 |
| 81 | Presente | 298.3 | 228.0 | 185.4 | 173.4 | 157.1 | 228.9 | 227.7 | 274.8 | 256.5 | 85.0 | 311.2 | 106.7 | 255.6 | 251.5 |
| 82 | Presente | 317.1 | 327.7 | 263.3 | 222.8 | 95.6 | 82.6 | 82.0 | 74.6 | 266.4 | 88.7 | 327.3 | 119.6 | 268.1 | 258.5 |
| 83 | Presente | 305.2 | 323.3 | 255.5 | 213.8 | 119.1 | 84.4 | 96.8 | 74.1 | 272.5 | 86.9 | 329.5 | 113.6 | 274.6 | 265.6 |
| 84 | Presente | 90.6 | 33.7 | 32.5 | 54.0 | 92.6 | 167.0 | 236.2 | 251.9 | 246.3 | 72.6 | 316.6 | 157.3 | 233.8 | 233.8 |
| 85 | Presente | 67.0 | 9.0 | 6.0 | 25.0 | 62.0 | 143.7 | 210.0 | 287.0 | 242.3 | 68.0 | 332.3 | 185.0 | 237.3 | 235.3 |
| 86 | Presente | 47.8 | 1.4 | 3.1 | 16.6 | 42.5 | 191.6 | 212.9 | 301.7 | 245.9 | 69.9 | 339.6 | 204.3 | 233.5 | 230.7 |
| 87 | Presente | 89.5 | 19.6 | 8.8 | 26.8 | 94.5 | 162.6 | 230.4 | 322.6 | 253.6 | 68.0 | 336.0 | 167.8 | 249.6 | 247.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 88 | Presente | 118.6 | 33.8 | 19.6 | 33.0 | 106.9 | 162.5 | 220.5 | 316.3 | 258.7 | 69.8 | 329.8 | 147.9 | 252.3 | 250.2 |
| 89 | Presente | 101.5 | 31.5 | 25.0 | 43.2 | 89.6 | 162.7 | 214.8 | 263.9 | 260.6 | 75.9 | 328.5 | 138.0 | 257.3 | 253.5 |
| 90 | Presente | 131.8 | 47.6 | 16.6 | 28.1 | 87.4 | 125.6 | 145.1 | 231.9 | 251.4 | 77.9 | 324.4 | 144.7 | 250.3 | 246.4 |
| 91 | Presente | 152.5 | 43.1 | 18.5 | 32.6 | 101.4 | 170.1 | 182.6 | 284.4 | 255.5 | 74.6 | 331.1 | 149.1 | 253.9 | 249.9 |
| 92 | Presente | 204.7 | 86.4 | 56.9 | 48.4 | 107.9 | 137.4 | 156.2 | 232.8 | 264.6 | 72.8 | 333.0 | 135.5 | 263.1 | 259.5 |
| 93 | Presente | 332.5 | 241.6 | 180.9 | 124.7 | 70.0 | 57.5 | 62.0 | 185.5 | 259.0 | 76.7 | 322.3 | 109.8 | 266.0 | 251.2 |
| 94 | Presente | 339.5 | 294.0 | 274.9 | 213.7 | 184.0 | 169.4 | 157.7 | 147.7 | 260.6 | 90.4 | 316.7 | 110.4 | 262.7 | 255.0 |
| 95 | Presente | 318.8 | 324.1 | 254.5 | 215.7 | 124.8 | 89.4 | 106.6 | 69.5 | 272.5 | 87.1 | 328.3 | 110.9 | 273.5 | 266.5 |
| 96 | Presente | 154.5 | 57.4 | 33.7 | 51.9 | 118.3 | 177.3 | 225.9 | 290.4 | 263.1 | 75.2 | 330.1 | 132.3 | 260.8 | 258.4 |
| 97 | Presente | 124.4 | 31.5 | 24.3 | 35.2 | 110.2 | 171.1 | 232.4 | 291.3 | 258.0 | 73.2 | 329.3 | 144.6 | 254.3 | 250.5 |
| 98 | Presente | 103.3 | 38.8 | 20.3 | 35.9 | 79.2 | 139.5 | 156.8 | 247.8 | 244.3 | 81.0 | 315.6 | 138.1 | 245.4 | 240.1 |
| 99 | Presente | 313.9 | 206.0 | 143.3 | 76.8 | 61.0 | 56.3 | 83.6 | 127.0 | 267.6 | 96.3 | 85.1 | 448.7 | 328.6 | 216.4 |
| 100 | Presente | 130.9 | 51.9 | 33.1 | 33.9 | 125.4 | 174.8 | 219.2 | 273.0 | 262.2 | 67.6 | 341.4 | 160.1 | 259.3 | 258.1 |
| 101 | Presente | 202.0 | 82.4 | 66.2 | 63.2 | 108.9 | 149.5 | 168.1 | 244.0 | 267.4 | 75.6 | 334.5 | 132.2 | 266.4 | 261.5 |
| 102 | Presente | 186.0 | 83.4 | 53.3 | 63.7 | 87.1 | 146.0 | 163.2 | 238.6 | 260.0 | 78.0 | 326.3 | 130.2 | 260.0 | 253.3 |
| 103 | Presente | 120.0 | 46.0 | 23.2 | 29.7 | 104.3 | 148.5 | 226.7 | 305.6 | 260.7 | 70.1 | 334.6 | 148.5 | 257.0 | 254.7 |
| 104 | Presente | 95.7 | 37.1 | 23.9 | 48.7 | 97.7 | 164.1 | 225.3 | 269.3 | 260.3 | 77.4 | 326.2 | 136.6 | 255.2 | 252.5 |
| 105 | Presente | 120.3 | 43.1 | 19.5 | 41.7 | 77.2 | 135.7 | 147.8 | 226.7 | 247.7 | 82.1 | 317.8 | 137.5 | 248.3 | 244.0 |
| 106 | Presente | 204.7 | 80.0 | 56.8 | 53.0 | 120.9 | 161.1 | 177.3 | 258.4 | 265.7 | 73.6 | 335.8 | 138.8 | 264.2 | 260.1 |
| 107 | Presente | 114.2 | 38.1 | 21.9 | 38.1 | 99.3 | 152.1 | 222.8 | 310.2 | 260.4 | 70.2 | 331.4 | 145.8 | 255.2 | 252.9 |
| 108 | Presente | 79.5 | 32.7 | 18.9 | 26.5 | 122.6 | 193.5 | 253.0 | 318.4 | 256.0 | 68.6 | 346.4 | 177.6 | 253.3 | 251.0 |
| 109 | Presente | 119.8 | 33.5 | 14.5 | 31.4 | 107.0 | 167.3 | 233.3 | 324.9 | 256.7 | 69.9 | 330.8 | 152.7 | 251.0 | 248.8 |
| 110 | Presente | 130.8 | 40.6 | 21.7 | 48.6 | 129.2 | 191.7 | 231.9 | 281.2 | 258.5 | 67.6 | 336.7 | 159.3 | 255.0 | 254.2 |
| 111 | Presente | 90.2 | 21.4 | 21.9 | 38.4 | 82.9 | 146.6 | 228.6 | 254.1 | 249.3 | 74.7 | 318.3 | 154.2 | 238.2 | 238.0 |
| 112 | Presente | 129.8 | 68.0 | 40.6 | 53.1 | 103.1 | 177.0 | 215.9 | 269.0 | 251.8 | 79.9 | 318.4 | 144.9 | 243.4 | 242.2 |
| 113 | Presente | 261.6 | 130.1 | 118.7 | 86.7 | 72.7 | 50.9 | 69.0 | 78.2 | 257.6 | 81.0 | 321.0 | 111.6 | 264.9 | 250.8 |
| 114 | Presente | 216.5 | 99.4 | 73.2 | 76.1 | 100.6 | 126.4 | 148.6 | 236.8 | 268.1 | 76.0 | 330.8 | 122.8 | 268.4 | 263.0 |
| 115 | Presente | 129.0 | 66.4 | 33.2 | 37.4 | 111.9 | 179.5 | 208.4 | 262.3 | 254.2 | 79.7 | 320.1 | 141.3 | 246.9 | 245.2 |
| 116 | Presente | 329.0 | 326.3 | 266.9 | 232.1 | 103.7 | 84.8 | 89.5 | 78.1 | 262.7 | 87.8 | 323.6 | 119.4 | 264.7 | 254.5 |
| 117 | Presente | 95.9 | 25.8 | 32.9 | 47.0 | 82.5 | 154.4 | 235.6 | 268.9 | 254.2 | 77.0 | 320.4 | 144.6 | 245.3 | 244.6 |
| 118 | Presente | 92.4 | 24.4 | 20.5 | 38.1 | 86.5 | 145.0 | 222.0 | 252.4 | 249.9 | 74.4 | 319.2 | 154.8 | 238.8 | 238.1 |
| 119 | Presente | 298.9 | 158.7 | 105.6 | 69.2 | 60.3 | 90.4 | 122.9 | 187.4 | 270.6 | 80.6 | 333.0 | 109.3 | 279.1 | 264.2 |
| 120 | Presente | 214.8 | 95.1 | 70.0 | 51.4 | 51.5 | 69.5 | 84.8 | 155.7 | 258.6 | 79.6 | 322.1 | 122.0 | 261.8 | 252.7 |
| 121 | Presente | 120.7 | 42.8 | 19.1 | 36.1 | 67.1 | 125.7 | 140.1 | 225.8 | 251.4 | 82.4 | 319.6 | 133.3 | 252.1 | 247.3 |
| 122 | Presente | 249.7 | 154.7 | 112.2 | 109.0 | 150.2 | 191.1 | 224.7 | 252.3 | 264.9 | 83.6 | 319.5 | 106.7 | 263.1 | 260.6 |
| 123 | Presente | 125.8 | 36.4 | 15.7 | 47.2 | 118.6 | 191.6 | 202.8 | 294.6 | 260.0 | 65.6 | 343.0 | 170.2 | 255.9 | 255.2 |
| 124 | Presente | 190.3 | 87.7 | 56.2 | 75.2 | 142.6 | 201.6 | 236.1 | 321.9 | 264.5 | 78.2 | 326.7 | 122.6 | 262.1 | 260.5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 125 | Presente | 113.4 | 23.2 | 13.0 | 40.9 | 114.8 | 187.8 | 229.0 | 327.1 | 256.6 | 67.2 | 339.1 | 168.8 | 252.5 | 251.3 |
| 126 | Presente | 302.3 | 158.4 | 124.5 | 77.1 | 79.2 | 103.0 | 114.1 | 181.3 | 271.3 | 80.8 | 333.0 | 109.0 | 279.1 | 265.3 |
| 127 | Presente | 106.0 | 26.0 | 6.0 | 27.0 | 105.0 | 190.0 | 258.0 | 346.0 | 254.0 | 70.0 | 332.0 | 160.0 | 249.0 | 247.0 |
| 128 | Presente | 78.0 | 32.0 | 4.0 | 16.0 | 93.0 | 168.0 | 248.0 | 292.0 | 252.0 | 69.0 | 333.0 | 164.0 | 248.0 | 245.0 |
| 129 | Presente | 113.5 | 40.4 | 21.8 | 33.5 | 109.8 | 156.2 | 227.3 | 309.7 | 259.4 | 69.5 | 333.7 | 150.8 | 254.9 | 252.9 |
| 130 | Presente | 109.8 | 35.5 | 17.5 | 54.9 | 90.8 | 167.5 | 227.8 | 287.8 | 260.7 | 72.0 | 329.5 | 140.6 | 258.1 | 253.0 |
| 131 | Presente | 104.0 | 29.0 | 8.0 | 28.0 | 108.0 | 186.0 | 252.0 | 337.0 | 254.0 | 69.0 | 332.0 | 160.0 | 248.0 | 246.0 |
| 132 | Presente | 103.8 | 24.8 | 5.6 | 26.0 | 104.4 | 192.6 | 260.2 | 347.2 | 253.2 | 70.0 | 331.6 | 160.4 | 248.2 | 245.6 |
| 133 | Presente | 105.0 | 28.0 | 7.0 | 28.0 | 107.0 | 187.0 | 254.0 | 340.0 | 254.0 | 69.0 | 332.0 | 159.0 | 249.0 | 247.0 |
| 134 | Presente | 112.0 | 31.0 | 22.3 | 48.0 | 94.3 | 177.7 | 218.7 | 279.7 | 260.0 | 72.3 | 328.0 | 142.0 | 257.3 | 252.0 |
| 135 | Presente | 106.0 | 24.0 | 5.0 | 26.0 | 104.0 | 192.0 | 262.0 | 349.0 | 254.0 | 70.0 | 332.0 | 160.0 | 249.0 | 246.0 |
| 136 | Presente | 400.5 | 274.2 | 179.3 | 111.4 | 60.6 | 50.8 | 80.4 | 223.5 | 259.1 | 75.4 | 324.7 | 115.6 | 265.8 | 251.6 |
| 137 | Presente | 123.8 | 43.8 | 9.8 | 26.7 | 120.6 | 160.9 | 176.2 | 281.9 | 254.1 | 74.4 | 333.9 | 157.2 | 252.2 | 248.9 |
| 138 | Presente | 210.2 | 127.4 | 102.1 | 81.8 | 85.3 | 113.4 | 133.7 | 203.6 | 269.5 | 78.8 | 329.3 | 114.6 | 273.3 | 264.2 |
| 139 | Presente | 102.8 | 23.6 | 12.2 | 29.8 | 106.8 | 176.1 | 236.3 | 337.7 | 255.6 | 68.0 | 336.3 | 163.9 | 251.7 | 250.1 |
| 140 | Presente | 319.2 | 191.5 | 169.5 | 116.7 | 80.1 | 52.0 | 62.5 | 100.7 | 256.9 | 80.6 | 321.9 | 113.0 | 264.2 | 249.5 |
| 141 | Presente | 299.7 | 174.6 | 131.3 | 112.8 | 120.3 | 166.1 | 177.1 | 220.8 | 270.6 | 82.0 | 326.6 | 104.0 | 275.3 | 266.0 |
| 142 | Presente | 114.8 | 26.6 | 13.8 | 43.7 | 113.9 | 187.0 | 218.1 | 309.0 | 256.4 | 66.6 | 340.1 | 171.4 | 252.2 | 251.2 |
| 143 | Presente | 169.9 | 75.2 | 51.4 | 59.4 | 120.6 | 170.6 | 220.4 | 285.8 | 263.4 | 76.9 | 327.9 | 125.0 | 262.1 | 259.9 |
| 144 | Presente | 356.6 | 203.3 | 159.5 | 115.1 | 97.6 | 102.8 | 105.1 | 141.3 | 266.5 | 79.7 | 335.8 | 119.6 | 275.2 | 260.2 |
| 145 | Presente | 350.2 | 316.4 | 237.8 | 164.0 | 98.0 | 95.9 | 133.5 | 208.7 | 257.6 | 78.2 | 320.2 | 107.2 | 264.9 | 249.7 |
| 146 | Presente | 148.8 | 208.5 | 178.9 | 157.6 | 107.2 | 93.1 | 99.3 | 115.1 | 264.8 | 82.2 | 328.2 | 122.3 | 262.5 | 256.4 |
| 147 | Presente | 143.8 | 239.0 | 233.0 | 243.7 | 154.7 | 107.5 | 82.3 | 64.5 | 257.3 | 80.6 | 321.3 | 120.5 | 254.8 | 251.4 |
| 148 | Presente | 152.2 | 230.2 | 236.4 | 208.6 | 140.4 | 112.0 | 98.6 | 81.4 | 260.2 | 83.0 | 321.8 | 118.4 | 256.4 | 253.4 |
| 149 | Presente | 335.9 | 439.4 | 424.6 | 380.2 | 260.0 | 220.4 | 127.6 | 53.1 | 273.7 | 72.9 | 355.6 | 142.2 | 283.6 | 261.1 |
| 150 | Presente | 226.8 | 334.7 | 310.1 | 314.3 | 225.2 | 175.1 | 150.6 | 111.5 | 232.2 | 84.6 | 293.8 | 120.2 | 229.3 | 226.8 |
| 151 | Presente | 150.0 | 253.6 | 273.4 | 308.4 | 183.6 | 112.0 | 80.1 | 42.3 | 258.9 | 81.8 | 325.6 | 124.3 | 257.0 | 253.6 |
| 152 | Presente | 305.7 | 396.7 | 427.8 | 406.2 | 315.6 | 211.8 | 160.1 | 123.0 | 252.6 | 81.9 | 318.0 | 126.7 | 251.5 | 247.8 |
| 153 | Presente | 189.2 | 266.7 | 228.0 | 196.9 | 131.9 | 134.5 | 152.4 | 166.2 | 260.4 | 81.7 | 317.0 | 109.3 | 257.0 | 252.8 |
| 154 | Presente | 200.9 | 349.7 | 360.9 | 376.1 | 248.4 | 153.8 | 111.0 | 59.6 | 258.4 | 82.9 | 322.2 | 119.6 | 257.3 | 253.6 |
| 155 | Presente | 385.5 | 490.8 | 470.4 | 403.6 | 300.5 | 236.2 | 174.7 | 97.1 | 258.0 | 77.9 | 334.1 | 134.9 | 264.1 | 246.8 |
| 156 | Presente | 536.0 | 437.0 | 238.0 | 137.0 | 59.0 | 68.0 | 139.0 | 333.0 | 264.0 | 74.0 | 323.0 | 103.0 | 271.0 | 258.0 |
| 157 | Presente | 377.0 | 481.0 | 463.0 | 400.0 | 289.0 | 226.0 | 181.0 | 108.0 | 276.0 | 78.0 | 352.0 | 133.0 | 283.0 | 264.0 |
| 158 | Presente | 72.0 | 77.5 | 30.5 | 75.0 | 34.8 | 106.3 | 129.5 | 155.8 | 228.3 | 64.3 | 304.5 | 168.5 | 210.8 | 197.5 |
| 159 | Presente | 368.8 | 454.2 | 434.3 | 395.7 | 306.4 | 236.9 | 195.0 | 141.4 | 241.6 | 84.9 | 305.9 | 123.7 | 241.2 | 236.4 |
| 160 | Presente | 247.2 | 283.6 | 253.6 | 171.6 | 94.2 | 64.0 | 83.0 | 157.2 | 273.2 | 80.2 | 326.4 | 100.6 | 281.0 | 266.2 |
| 161 | Presente | 250.6 | 300.0 | 205.4 | 155.0 | 96.0 | 80.0 | 104.6 | 169.0 | 267.6 | 76.4 | 326.0 | 104.0 | 276.2 | 260.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 162 | Presente | 301.7 | 318.7 | 227.5 | 145.3 | 88.7 | 83.5 | 99.2 | 192.2 | 265.7 | 74.5 | 326.5 | 107.0 | 274.7 | 257.5 |
| 163 | Presente | 346.8 | 328.8 | 245.3 | 177.8 | 88.0 | 71.5 | 110.1 | 194.1 | 257.3 | 76.6 | 321.0 | 110.0 | 266.8 | 249.4 |
| 164 | Presente | 92.9 | 48.9 | 47.2 | 65.3 | 109.1 | 176.9 | 244.4 | 255.7 | 250.5 | 76.3 | 320.4 | 150.4 | 241.5 | 241.0 |
| 165 | Presente | 200.6 | 101.5 | 83.0 | 72.6 | 88.7 | 124.0 | 150.6 | 229.6 | 267.9 | 78.7 | 330.8 | 120.8 | 270.4 | 262.0 |
| 166 | Presente | 61.5 | 58.9 | 30.4 | 76.3 | 42.0 | 91.5 | 118.3 | 159.9 | 207.2 | 68.1 | 283.3 | 172.0 | 186.2 | 180.8 |
| 167 | Presente | 272.9 | 164.7 | 106.6 | 85.9 | 112.9 | 157.9 | 150.2 | 241.6 | 272.4 | 83.6 | 327.5 | 102.8 | 276.6 | 268.2 |
| 168 | Presente | 142.5 | 114.7 | 110.1 | 131.9 | 145.5 | 256.3 | 295.9 | 383.3 | 238.6 | 73.9 | 304.9 | 139.7 | 221.8 | 221.7 |
| 169 | Presente | 364.1 | 259.6 | 194.1 | 137.4 | 67.0 | 60.9 | 92.8 | 189.5 | 251.1 | 76.4 | 318.6 | 118.6 | 257.9 | 244.3 |
| 170 | Presente | 116.2 | 29.6 | 16.4 | 33.0 | 118.6 | 184.7 | 239.7 | 345.0 | 257.1 | 68.7 | 335.2 | 158.4 | 253.3 | 251.7 |
| 171 | Presente | 266.6 | 385.4 | 350.1 | 368.8 | 266.6 | 206.9 | 178.4 | 126.6 | 220.5 | 85.0 | 282.5 | 121.8 | 218.1 | 215.7 |
| 172 | Presente | 79.5 | 57.5 | 59.2 | 75.1 | 79.1 | 132.9 | 181.1 | 256.3 | 191.7 | 67.0 | 280.1 | 200.1 | 164.9 | 164.2 |
| 173 | Presente | 179.9 | 184.5 | 191.7 | 149.3 | 143.6 | 139.5 | 137.3 | 118.0 | 149.2 | 88.4 | 210.1 | 119.8 | 150.3 | 143.2 |
| 174 | Presente | 146.2 | 108.7 | 95.7 | 108.6 | 138.2 | 200.7 | 211.5 | 189.1 | 238.5 | 84.5 | 311.5 | 152.3 | 231.8 | 231.5 |
| 175 | Presente | 371.7 | 251.5 | 189.7 | 131.0 | 66.2 | 59.4 | 89.2 | 193.7 | 251.0 | 75.2 | 319.6 | 122.3 | 257.3 | 244.0 |
| 176 | Presente | 569.9 | 374.8 | 195.4 | 95.5 | 46.0 | 39.0 | 111.7 | 327.1 | 261.4 | 73.0 | 329.2 | 121.2 | 267.7 | 254.7 |
| 177 | Presente | 187.1 | 57.8 | 41.2 | 50.1 | 118.9 | 191.3 | 213.5 | 317.9 | 260.3 | 73.9 | 333.4 | 144.8 | 258.6 | 254.6 |
| 178 | Presente | 305.4 | 325.6 | 310.5 | 225.3 | 216.8 | 221.3 | 193.1 | 136.1 | 259.1 | 81.2 | 316.5 | 113.4 | 264.8 | 248.7 |
| 179 | Presente | 293.3 | 341.8 | 282.3 | 242.1 | 222.4 | 231.5 | 223.0 | 186.6 | 213.9 | 83.2 | 282.6 | 126.6 | 215.2 | 206.2 |
| 180 | Presente | 299.4 | 201.7 | 162.1 | 149.0 | 145.4 | 161.6 | 168.7 | 227.4 | 267.4 | 86.1 | 322.7 | 105.1 | 270.2 | 262.9 |
| 181 | Presente | 119.8 | 32.3 | 14.9 | 45.1 | 114.1 | 187.0 | 202.3 | 302.2 | 259.0 | 65.7 | 343.9 | 174.2 | 254.6 | 254.1 |
| 182 | Presente | 407.1 | 452.3 | 354.8 | 261.1 | 120.2 | 99.8 | 156.5 | 253.3 | 242.0 | 80.7 | 297.8 | 107.5 | 248.3 | 235.0 |
| 183 | Presente | 176.3 | 222.5 | 187.8 | 156.7 | 148.5 | 127.0 | 119.6 | 102.8 | 141.4 | 82.6 | 208.5 | 126.5 | 144.9 | 131.5 |
| 184 | Presente | 82.4 | 56.4 | 54.8 | 70.1 | 91.8 | 154.4 | 190.6 | 253.8 | 215.4 | 71.8 | 283.2 | 144.3 | 197.7 | 197.3 |
| 185 | Presente | 99.4 | 72.2 | 73.1 | 92.3 | 132.4 | 196.9 | 227.0 | 273.5 | 235.1 | 78.3 | 308.3 | 153.9 | 226.2 | 225.1 |
| 186 | Presente | 108.0 | 34.9 | 22.1 | 48.7 | 93.3 | 168.1 | 221.4 | 273.4 | 261.5 | 75.2 | 329.2 | 137.0 | 258.3 | 254.8 |
| 187 | Presente | 371.7 | 233.3 | 189.7 | 127.1 | 67.4 | 55.6 | 68.8 | 177.4 | 253.3 | 76.0 | 322.0 | 120.6 | 260.3 | 245.9 |
| 188 | Presente | 258.3 | 285.3 | 251.5 | 196.4 | 109.4 | 101.2 | 100.7 | 101.4 | 200.8 | 83.6 | 262.5 | 118.4 | 196.6 | 196.1 |
| 189 | Presente | 222.1 | 82.0 | 55.7 | 72.9 | 116.5 | 184.5 | 198.3 | 307.1 | 263.4 | 79.3 | 324.2 | 116.8 | 262.9 | 259.5 |
| 190 | Presente | 300.0 | 329.1 | 332.9 | 259.4 | 221.5 | 188.7 | 164.2 | 137.0 | 196.2 | 89.8 | 251.2 | 108.8 | 197.8 | 191.5 |
| 191 | Presente | 251.0 | 206.3 | 160.9 | 157.5 | 179.6 | 217.9 | 218.4 | 259.4 | 257.0 | 85.5 | 309.1 | 107.3 | 253.3 | 250.9 |
| 192 | Presente | 326.4 | 240.8 | 238.9 | 204.7 | 242.4 | 224.6 | 221.1 | 234.3 | 261.1 | 84.3 | 313.4 | 104.4 | 260.9 | 253.3 |
| 193 | Presente | 180.3 | 160.0 | 171.9 | 130.7 | 127.8 | 182.0 | 184.0 | 159.2 | 153.4 | 91.1 | 207.0 | 106.6 | 153.1 | 150.1 |
| 194 | Presente | 228.5 | 214.9 | 178.9 | 165.0 | 160.0 | 226.1 | 215.9 | 104.3 | 202.4 | 86.2 | 256.1 | 106.7 | 204.1 | 197.1 |
| 195 | Presente | 267.0 | 306.5 | 325.5 | 244.5 | 201.0 | 175.0 | 156.0 | 132.0 | 145.0 | 87.5 | 199.5 | 108.5 | 146.0 | 138.0 |
| 196 | Presente | 306.4 | 331.1 | 324.4 | 254.2 | 228.7 | 231.9 | 197.3 | 132.3 | 257.3 | 81.6 | 314.8 | 111.0 | 263.0 | 247.3 |
| 197 | Presente | 340.2 | 249.2 | 224.6 | 175.5 | 203.3 | 232.4 | 246.8 | 307.2 | 256.7 | 87.4 | 307.1 | 101.9 | 253.1 | 250.3 |
| 198 | Presente | 328.0 | 359.9 | 352.0 | 268.1 | 232.5 | 211.5 | 192.7 | 172.6 | 198.4 | 90.7 | 254.0 | 110.5 | 199.9 | 194.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 199 | Presente | 343.3 | 292.1 | 309.6 | 298.5 | 259.7 | 238.4 | 200.0 | 128.5 | 263.3 | 76.4 | 323.2 | 116.0 | 268.9 | 252.0 |
| 200 | Presente | 350.8 | 340.2 | 339.3 | 289.7 | 234.4 | 276.8 | 225.4 | 103.4 | 258.6 | 76.7 | 325.0 | 126.6 | 265.0 | 248.2 |
| 201 | Presente | 224.2 | 257.2 | 241.7 | 191.1 | 155.2 | 199.4 | 184.2 | 96.4 | 110.0 | 81.5 | 161.5 | 101.6 | 109.9 | 105.1 |
| 202 | Presente | 381.2 | 353.1 | 308.1 | 261.7 | 238.3 | 281.2 | 227.7 | 116.9 | 260.1 | 82.3 | 325.0 | 126.4 | 264.2 | 251.7 |
| 203 | Presente | 312.5 | 249.7 | 226.8 | 204.0 | 225.0 | 236.0 | 232.4 | 227.2 | 258.2 | 86.3 | 309.4 | 102.1 | 256.1 | 250.7 |
| 204 | Presente | 61.5 | 24.0 | 13.4 | 23.6 | 59.0 | 127.4 | 181.9 | 237.7 | 239.0 | 70.7 | 322.6 | 184.1 | 225.0 | 223.2 |
| 205 | Presente | 61.9 | 32.2 | 45.0 | 58.8 | 98.0 | 129.5 | 147.6 | 189.1 | 175.7 | 78.3 | 266.2 | 193.8 | 166.2 | 165.5 |
| 206 | Presente | 101.1 | 19.8 | 18.7 | 42.9 | 94.2 | 149.1 | 202.2 | 230.8 | 244.8 | 72.3 | 329.5 | 167.4 | 240.7 | 237.5 |
| 207 | Presente | 345.6 | 301.2 | 270.2 | 234.9 | 186.0 | 173.3 | 163.4 | 150.9 | 243.7 | 90.2 | 303.6 | 116.0 | 245.1 | 238.4 |
| 208 | Presente | 350.8 | 306.0 | 291.6 | 233.4 | 204.4 | 197.9 | 183.0 | 221.4 | 261.3 | 89.4 | 315.8 | 106.5 | 263.6 | 255.3 |
| 209 | Presente | 102.5 | 94.7 | 97.9 | 75.2 | 75.7 | 103.1 | 91.8 | 101.8 | 155.6 | 86.2 | 222.0 | 125.9 | 152.4 | 149.4 |
| 210 | Presente | 57.5 | 32.9 | 32.5 | 32.2 | 60.0 | 110.0 | 111.6 | 109.4 | 167.0 | 83.2 | 243.2 | 166.5 | 157.2 | 157.2 |
| 211 | Presente | 89.1 | 26.4 | 17.5 | 32.2 | 129.1 | 204.9 | 270.3 | 328.8 | 255.6 | 66.4 | 347.5 | 182.9 | 252.1 | 251.2 |
| 212 | Presente | 203.2 | 252.5 | 206.2 | 176.0 | 163.8 | 150.4 | 122.6 | 116.0 | 146.1 | 85.5 | 212.3 | 125.6 | 148.9 | 138.6 |
| 213 | Presente | 88.7 | 19.2 | 8.5 | 26.1 | 68.2 | 139.0 | 158.9 | 201.7 | 258.7 | 72.7 | 340.0 | 161.2 | 252.1 | 250.2 |
| 214 | Presente | 305.5 | 297.7 | 242.8 | 211.4 | 130.8 | 97.7 | 100.2 | 83.1 | 266.9 | 88.6 | 323.5 | 112.7 | 268.8 | 260.6 |
| 215 | Presente | 140.9 | 81.4 | 55.3 | 71.2 | 119.4 | 173.8 | 225.4 | 237.6 | 256.6 | 75.9 | 322.7 | 139.2 | 248.1 | 247.5 |
| 216 | Presente | 127.6 | 39.1 | 23.2 | 36.9 | 79.4 | 128.7 | 144.6 | 214.6 | 249.2 | 79.8 | 321.6 | 143.9 | 248.1 | 245.0 |
| 217 | Presente | 375.8 | 341.7 | 313.8 | 258.5 | 245.6 | 218.4 | 202.4 | 218.0 | 252.9 | 90.8 | 312.2 | 114.6 | 255.4 | 247.0 |
| 218 | Presente | 346.3 | 387.3 | 380.9 | 276.9 | 280.6 | 232.9 | 237.1 | 193.8 | 185.7 | 88.0 | 249.7 | 125.6 | 187.8 | 179.0 |
| 219 | Presente | 97.0 | 61.5 | 61.0 | 61.5 | 88.0 | 152.5 | 180.0 | 194.5 | 221.0 | 86.0 | 295.5 | 157.0 | 214.0 | 214.0 |
| 220 | Presente | 36.0 | 25.1 | 17.2 | 29.9 | 53.5 | 73.2 | 93.1 | 133.8 | 76.7 | 71.7 | 176.9 | 217.1 | 57.6 | 57.5 |
| 221 | Presente | 309.5 | 342.9 | 266.0 | 213.8 | 115.8 | 78.4 | 94.3 | 68.7 | 272.8 | 86.2 | 330.2 | 113.8 | 274.9 | 265.5 |
| 222 | Presente | 30.6 | 13.0 | 13.7 | 35.7 | 57.5 | 73.8 | 79.5 | 144.0 | 164.9 | 73.8 | 247.1 | 180.3 | 148.3 | 148.2 |
| 223 | Presente | 164.3 | 114.2 | 86.7 | 94.2 | 130.6 | 221.0 | 268.6 | 407.1 | 248.9 | 63.0 | 325.1 | 178.3 | 221.5 | 220.5 |
| 224 | Presente | 63.5 | 48.2 | 51.3 | 39.1 | 40.2 | 75.5 | 64.4 | 82.7 | 127.7 | 88.6 | 193.6 | 129.5 | 123.6 | 123.6 |
| 225 | Presente | 78.0 | 44.7 | 45.1 | 57.7 | 88.6 | 143.9 | 154.9 | 214.1 | 187.9 | 81.7 | 265.5 | 168.6 | 178.2 | 178.2 |
| 226 | Presente | 468.9 | 467.4 | 435.9 | 386.8 | 319.9 | 260.6 | 185.8 | 117.3 | 272.6 | 81.3 | 345.4 | 133.1 | 278.6 | 262.4 |
| 227 | Presente | 296.2 | 322.1 | 287.1 | 223.4 | 232.8 | 260.3 | 237.1 | 182.3 | 252.5 | 85.7 | 309.2 | 112.0 | 256.5 | 244.4 |
| 228 | Presente | 88.7 | 21.4 | 30.0 | 42.7 | 81.0 | 156.4 | 240.6 | 263.9 | 250.7 | 75.4 | 319.1 | 151.6 | 240.5 | 240.3 |
| 229 | Presente | 60.8 | 20.2 | 10.1 | 22.7 | 58.9 | 140.9 | 178.8 | 220.3 | 242.3 | 70.9 | 327.2 | 180.7 | 232.0 | 229.7 |
| 230 | Presente | 67.8 | 15.8 | 11.1 | 23.3 | 131.5 | 188.1 | 270.4 | 334.8 | 254.0 | 68.1 | 358.7 | 201.9 | 250.2 | 248.1 |
| 231 | Presente | 100.3 | 26.4 | 17.5 | 34.9 | 88.1 | 154.2 | 185.3 | 228.1 | 255.0 | 74.1 | 331.4 | 150.2 | 250.4 | 248.4 |
| 232 | Presente | 105.1 | 21.7 | 11.6 | 32.8 | 108.6 | 179.7 | 235.4 | 338.2 | 254.2 | 68.0 | 335.6 | 165.6 | 250.3 | 248.6 |
| 233 | Presente | 98.7 | 20.7 | 10.5 | 38.1 | 97.5 | 171.7 | 207.1 | 306.9 | 256.1 | 66.4 | 342.2 | 177.0 | 251.5 | 250.4 |
| 234 | Presente | 237.3 | 132.0 | 73.8 | 73.0 | 125.2 | 189.1 | 212.1 | 264.7 | 266.4 | 80.8 | 323.5 | 110.2 | 267.2 | 261.2 |
| 235 | Presente | 259.0 | 146.7 | 93.7 | 51.0 | 31.3 | 32.0 | 40.7 | 90.7 | 268.0 | 80.7 | 326.0 | 104.7 | 276.7 | 261.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 236 | Presente | 300.1 | 187.5 | 132.1 | 106.2 | 124.5 | 158.6 | 132.9 | 218.6 | 269.7 | 84.8 | 325.1 | 104.4 | 272.9 | 265.3 |
| 237 | Presente | 238.3 | 139.8 | 99.3 | 87.8 | 113.9 | 157.4 | 171.4 | 247.6 | 271.8 | 82.5 | 327.0 | 102.6 | 276.9 | 267.4 |
| 238 | Presente | 308.7 | 291.5 | 238.4 | 206.8 | 156.0 | 139.8 | 137.4 | 91.9 | 259.7 | 90.4 | 316.8 | 112.6 | 261.7 | 253.9 |
| 239 | Presente | 82.9 | 34.5 | 25.0 | 27.1 | 54.6 | 116.2 | 136.8 | 199.0 | 253.1 | 76.0 | 326.0 | 143.5 | 253.5 | 249.3 |
| 240 | Presente | 73.1 | 14.8 | 6.9 | 21.0 | 57.8 | 126.6 | 167.3 | 206.4 | 256.3 | 72.4 | 341.8 | 168.1 | 248.8 | 246.3 |
| 241 | Presente | 116.2 | 28.3 | 13.5 | 45.3 | 112.9 | 187.7 | 206.9 | 304.2 | 257.3 | 65.9 | 342.3 | 174.3 | 253.0 | 252.2 |
| 242 | Presente | 208.0 | 112.0 | 81.0 | 67.0 | 87.0 | 136.0 | 169.0 | 223.0 | 272.0 | 82.0 | 328.0 | 102.0 | 278.0 | 267.0 |
| 243 | Presente | 88.8 | 24.6 | 10.2 | 23.3 | 96.1 | 160.8 | 234.7 | 322.2 | 254.8 | 68.1 | 335.7 | 164.7 | 250.7 | 248.8 |
| 244 | Presente | 228.3 | 137.8 | 128.8 | 110.3 | 106.8 | 88.8 | 81.0 | 185.0 | 268.0 | 88.8 | 323.3 | 104.8 | 271.0 | 263.3 |
| 245 | Presente | 47.3 | 8.0 | 4.0 | 20.0 | 113.5 | 210.1 | 232.0 | 343.8 | 256.2 | 71.3 | 352.0 | 191.7 | 249.4 | 248.9 |
| 246 | Presente | 92.5 | 67.5 | 72.0 | 65.5 | 84.0 | 138.0 | 194.5 | 253.0 | 238.0 | 71.5 | 307.0 | 145.5 | 219.5 | 219.0 |
| 247 | Presente | 83.7 | 39.3 | 29.0 | 38.2 | 73.0 | 115.0 | 183.6 | 237.5 | 257.0 | 67.7 | 337.7 | 173.4 | 237.1 | 237.0 |
| 248 | Presente | 107.1 | 68.7 | 51.0 | 50.4 | 74.8 | 146.7 | 166.9 | 229.7 | 250.8 | 63.6 | 326.5 | 173.3 | 223.6 | 223.6 |
| 249 | Presente | 298.8 | 227.0 | 189.3 | 150.3 | 93.3 | 82.8 | 71.8 | 165.3 | 260.5 | 78.8 | 322.5 | 107.3 | 267.5 | 252.5 |
| 250 | Presente | 53.5 | 27.8 | 26.2 | 58.6 | 95.7 | 116.9 | 136.5 | 221.0 | 214.5 | 71.0 | 288.7 | 157.9 | 196.4 | 196.4 |
| 251 | Presente | 66.8 | 18.9 | 8.4 | 20.6 | 58.8 | 116.5 | 176.5 | 223.4 | 253.4 | 71.8 | 337.7 | 172.9 | 243.2 | 241.1 |
| 252 | Presente | 43.0 | 5.0 | 2.0 | 8.0 | 58.8 | 172.5 | 238.0 | 285.0 | 250.0 | 68.0 | 351.0 | 206.8 | 242.0 | 238.0 |
| 253 | Presente | 82.0 | 36.0 | 18.0 | 26.0 | 66.0 | 140.0 | 152.0 | 253.0 | 253.0 | 79.0 | 326.0 | 142.0 | 254.0 | 248.0 |
| 254 | Presente | 229.8 | 223.0 | 213.2 | 166.6 | 170.0 | 175.2 | 164.8 | 117.6 | 120.0 | 86.6 | 172.8 | 101.2 | 121.6 | 114.2 |
| 255 | Presente | 258.7 | 279.7 | 293.7 | 232.3 | 192.3 | 175.0 | 148.3 | 120.7 | 173.0 | 90.3 | 226.7 | 107.7 | 174.0 | 168.3 |
| 256 | Presente | 511.0 | 408.3 | 229.9 | 146.1 | 83.3 | 79.0 | 159.5 | 332.3 | 257.8 | 75.5 | 320.0 | 110.6 | 263.5 | 251.9 |
| 257 | Presente | 164.0 | 130.0 | 100.5 | 108.5 | 123.5 | 200.5 | 208.5 | 87.0 | 145.5 | 90.0 | 189.0 | 86.0 | 146.5 | 141.5 |
| 258 | Presente | 355.0 | 389.0 | 291.0 | 338.0 | 342.0 | 306.0 | 206.0 | 88.0 | 265.0 | 77.0 | 335.0 | 126.0 | 271.0 | 256.0 |
| 259 | Presente | 376.5 | 337.0 | 343.0 | 330.5 | 279.0 | 293.0 | 218.0 | 110.0 | 270.0 | 73.5 | 341.5 | 129.5 | 278.0 | 258.0 |
| 260 | Presente | 376.0 | 446.6 | 420.8 | 394.5 | 305.1 | 244.7 | 220.9 | 178.1 | 246.9 | 86.0 | 309.4 | 122.1 | 246.4 | 242.3 |
| 261 | Presente | 319.3 | 282.0 | 178.5 | 82.3 | 45.0 | 43.3 | 93.5 | 205.8 | 265.5 | 77.3 | 326.5 | 105.8 | 272.8 | 256.8 |
| 262 | Presente | 340.8 | 273.5 | 204.1 | 185.5 | 181.4 | 226.5 | 221.0 | 258.4 | 260.5 | 86.5 | 315.2 | 106.7 | 260.8 | 255.3 |
| 263 | Presente | 589.8 | 456.0 | 246.5 | 158.3 | 80.0 | 82.3 | 173.5 | 368.0 | 259.3 | 75.0 | 322.5 | 112.5 | 265.0 | 254.0 |
| 264 | Presente | 303.2 | 208.7 | 141.2 | 51.3 | 15.3 | 8.5 | 15.8 | 48.4 | 269.1 | 79.3 | 319.9 | 98.2 | 275.7 | 263.3 |
| 265 | Presente | 333.2 | 251.1 | 185.7 | 170.2 | 168.2 | 197.2 | 206.1 | 234.2 | 265.8 | 86.7 | 320.4 | 105.5 | 267.5 | 261.1 |
| 266 | Presente | 116.4 | 25.5 | 13.9 | 43.0 | 116.8 | 189.6 | 225.9 | 319.6 | 258.2 | 67.0 | 340.9 | 169.1 | 254.2 | 253.1 |
| 267 | Presente | 129.7 | 38.5 | 15.0 | 48.3 | 118.4 | 195.2 | 194.1 | 295.5 | 262.2 | 65.0 | 345.8 | 171.9 | 258.1 | 257.6 |
| 268 | Presente | 225.0 | 144.5 | 97.9 | 95.8 | 90.5 | 117.5 | 147.4 | 212.1 | 269.9 | 79.6 | 327.3 | 110.3 | 273.0 | 265.0 |
| 269 | Presente | 199.4 | 127.6 | 84.0 | 96.4 | 146.9 | 214.0 | 252.8 | 319.0 | 256.0 | 83.9 | 314.6 | 119.8 | 251.6 | 251.0 |
| 270 | Presente | 186.5 | 82.3 | 51.5 | 64.5 | 132.8 | 187.0 | 218.6 | 261.6 | 266.5 | 75.0 | 329.8 | 125.7 | 265.0 | 261.7 |
| 271 | Presente | 239.9 | 128.7 | 76.5 | 76.5 | 108.7 | 171.1 | 194.8 | 248.9 | 268.3 | 79.8 | 325.8 | 110.7 | 270.3 | 263.2 |
| 272 | Presente | 335.0 | 242.6 | 194.8 | 130.8 | 79.1 | 60.8 | 78.1 | 154.0 | 257.3 | 80.4 | 320.3 | 108.8 | 264.7 | 249.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 273 | Presente | 245.5 | 138.1 | 99.2 | 71.3 | 101.1 | 139.0 | 167.1 | 271.9 | 271.5 | 83.1 | 326.5 | 102.1 | 276.1 | 267.1 |
| 274 | Presente | 205.8 | 115.2 | 85.5 | 68.0 | 94.0 | 137.5 | 171.5 | 243.8 | 272.7 | 81.8 | 328.0 | 102.2 | 278.2 | 268.0 |
| 275 | Presente | 252.9 | 125.2 | 122.0 | 83.2 | 81.6 | 100.2 | 114.7 | 168.0 | 271.0 | 81.2 | 328.6 | 105.2 | 277.5 | 266.3 |
| 276 | Presente | 246.8 | 136.6 | 81.1 | 80.5 | 129.0 | 184.0 | 210.4 | 273.0 | 265.9 | 81.6 | 322.6 | 108.3 | 266.9 | 261.2 |
| 277 | Presente | 299.4 | 258.4 | 186.1 | 129.1 | 86.9 | 56.8 | 101.5 | 150.2 | 269.6 | 82.2 | 329.3 | 106.1 | 275.5 | 262.8 |
| 278 | Presente | 337.7 | 272.5 | 205.4 | 186.3 | 180.2 | 226.5 | 221.5 | 259.7 | 260.1 | 86.4 | 314.7 | 106.7 | 260.3 | 254.8 |
| 279 | Presente | 237.0 | 112.3 | 85.2 | 94.1 | 125.8 | 176.1 | 202.9 | 287.9 | 264.6 | 82.9 | 321.0 | 106.3 | 264.8 | 260.7 |
| 280 | Presente | 230.4 | 111.1 | 64.2 | 76.0 | 131.8 | 199.1 | 205.0 | 289.8 | 264.5 | 80.7 | 322.5 | 112.1 | 264.0 | 259.8 |
| 281 | Presente | 230.5 | 118.0 | 70.2 | 76.5 | 109.2 | 178.1 | 192.4 | 249.8 | 268.1 | 78.8 | 326.6 | 113.2 | 269.5 | 262.9 |
| 282 | Presente | 190.5 | 111.8 | 64.7 | 81.6 | 119.0 | 194.6 | 232.8 | 295.2 | 258.7 | 81.6 | 317.7 | 118.9 | 253.9 | 253.9 |
| 283 | Presente | 210.6 | 95.3 | 77.4 | 81.5 | 116.0 | 168.6 | 207.5 | 302.7 | 263.8 | 81.5 | 322.1 | 110.5 | 263.9 | 260.8 |
| 284 | Presente | 196.0 | 145.8 | 110.5 | 121.8 | 153.5 | 209.8 | 347.3 | 485.5 | 252.0 | 63.0 | 326.0 | 174.0 | 223.0 | 223.0 |
| 285 | Presente | 133.6 | 131.5 | 133.0 | 103.7 | 104.5 | 126.0 | 118.5 | 122.9 | 182.6 | 85.5 | 253.4 | 133.0 | 181.3 | 176.5 |
| 286 | Presente | 261.1 | 297.6 | 251.0 | 198.3 | 208.5 | 178.9 | 192.7 | 166.0 | 161.9 | 85.8 | 226.0 | 124.3 | 164.0 | 153.9 |
| 287 | Presente | 295.7 | 342.7 | 284.7 | 243.3 | 226.0 | 230.0 | 226.7 | 187.3 | 211.7 | 82.7 | 282.3 | 129.0 | 213.7 | 204.7 |
| 288 | Presente | 273.7 | 339.0 | 304.7 | 237.0 | 204.0 | 209.0 | 190.3 | 165.0 | 181.0 | 85.0 | 251.0 | 129.7 | 183.7 | 173.7 |
| 289 | Presente | 68.8 | 18.6 | 8.0 | 21.8 | 65.2 | 133.3 | 186.2 | 230.4 | 247.9 | 71.2 | 335.0 | 176.9 | 240.3 | 237.6 |
| 290 | Presente | 140.6 | 56.7 | 30.3 | 28.8 | 30.0 | 45.5 | 50.6 | 106.9 | 262.4 | 83.5 | 325.7 | 123.3 | 262.9 | 258.6 |
| 291 | Presente | 48.1 | 28.1 | 0.5 | 6.0 | 52.9 | 120.6 | 216.0 | 221.2 | 248.5 | 68.5 | 334.3 | 173.6 | 244.8 | 241.8 |
| 292 | Presente | 429.3 | 267.3 | 166.1 | 65.2 | 21.7 | 14.7 | 44.7 | 193.0 | 267.3 | 76.9 | 327.0 | 100.9 | 274.8 | 259.6 |
| 293 | Presente | 311.0 | 326.5 | 275.5 | 220.5 | 248.0 | 297.0 | 282.0 | 209.0 | 249.0 | 85.5 | 307.5 | 112.0 | 251.5 | 242.5 |
| 294 | Presente | 360.9 | 210.7 | 186.5 | 120.6 | 63.9 | 45.6 | 53.0 | 115.2 | 253.7 | 79.4 | 322.8 | 118.0 | 261.8 | 246.3 |
| 295 | Presente | 383.3 | 286.9 | 298.7 | 248.4 | 187.8 | 191.6 | 161.9 | 231.4 | 267.3 | 88.4 | 320.2 | 103.4 | 269.9 | 260.7 |
| 296 | Presente | 70.1 | 11.5 | 10.5 | 16.4 | 149.7 | 197.9 | 340.4 | 337.6 | 243.5 | 68.3 | 350.8 | 204.6 | 241.0 | 236.3 |
| 297 | Presente | 101.5 | 23.8 | 11.2 | 26.8 | 80.2 | 145.7 | 165.3 | 217.9 | 259.4 | 71.9 | 337.7 | 154.9 | 254.0 | 252.8 |
| 298 | Presente | 324.5 | 171.1 | 127.1 | 94.8 | 97.2 | 125.5 | 131.4 | 194.1 | 272.4 | 80.4 | 336.7 | 112.0 | 279.3 | 266.0 |
| 299 | Presente | 122.2 | 43.5 | 19.2 | 33.1 | 60.7 | 119.8 | 134.7 | 223.6 | 256.1 | 82.6 | 323.3 | 131.2 | 256.7 | 251.9 |
| 300 | Presente | 103.5 | 20.8 | 7.0 | 19.6 | 73.2 | 135.3 | 163.0 | 232.5 | 262.8 | 70.9 | 343.3 | 160.3 | 255.8 | 254.8 |
| 301 | Presente | 316.4 | 180.0 | 144.0 | 112.1 | 97.8 | 109.8 | 99.3 | 179.6 | 269.8 | 83.3 | 327.1 | 106.7 | 275.6 | 265.3 |
| 302 | Presente | 545.5 | 454.5 | 278.0 | 193.5 | 98.0 | 90.0 | 171.0 | 365.0 | 256.5 | 76.0 | 317.0 | 106.0 | 263.0 | 251.5 |
| 303 | Presente | 64.7 | 25.0 | 13.7 | 24.4 | 56.3 | 107.4 | 171.6 | 215.2 | 251.8 | 70.8 | 334.0 | 176.2 | 236.7 | 235.2 |
| 304 | Presente | 328.6 | 324.5 | 302.5 | 248.0 | 235.1 | 226.9 | 191.5 | 140.6 | 258.8 | 80.5 | 316.3 | 113.8 | 264.9 | 248.3 |
| 305 | Presente | 183.9 | 157.1 | 143.3 | 174.7 | 202.9 | 310.7 | 311.6 | 416.2 | 238.7 | 78.3 | 302.5 | 134.5 | 226.7 | 226.3 |
| 306 | Presente | 72.0 | 39.3 | 49.3 | 69.7 | 109.5 | 144.5 | 161.8 | 203.0 | 197.9 | 79.4 | 283.9 | 183.7 | 188.8 | 188.2 |
| 307 | Presente | 119.6 | 105.8 | 89.6 | 74.3 | 96.6 | 120.3 | 115.1 | 97.6 | 189.3 | 83.4 | 255.7 | 129.8 | 184.3 | 183.6 |
| 308 | Presente | 109.7 | 73.4 | 68.4 | 76.6 | 117.0 | 182.3 | 245.6 | 267.0 | 227.7 | 80.8 | 303.3 | 156.7 | 221.5 | 221.1 |
| 309 | Presente | 333.8 | 343.5 | 317.7 | 253.2 | 239.4 | 232.5 | 191.6 | 133.2 | 261.1 | 79.2 | 318.7 | 114.2 | 267.4 | 249.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 310 | Presente | 68.4 | 42.2 | 51.7 | 72.2 | 112.8 | 155.2 | 180.0 | 210.2 | 225.5 | 80.0 | 308.2 | 173.3 | 217.6 | 217.4 |
| 311 | Presente | 87.4 | 33.1 | 34.7 | 52.8 | 94.4 | 161.6 | 239.6 | 253.0 | 252.2 | 75.7 | 320.9 | 149.7 | 242.8 | 242.4 |
| 312 | Presente | 262.0 | 267.3 | 237.6 | 212.7 | 214.7 | 212.1 | 213.2 | 206.9 | 229.5 | 82.3 | 296.5 | 124.5 | 230.2 | 222.4 |
| 313 | Presente | 127.9 | 82.8 | 79.8 | 92.9 | 126.3 | 224.6 | 251.1 | 329.9 | 227.6 | 83.3 | 297.9 | 146.9 | 220.9 | 220.9 |
| 314 | Presente | 100.8 | 65.8 | 53.8 | 49.3 | 73.0 | 137.3 | 162.9 | 221.3 | 252.7 | 64.9 | 328.1 | 169.2 | 228.3 | 228.3 |
| 315 | Presente | 94.7 | 77.2 | 62.7 | 64.7 | 88.2 | 131.2 | 168.0 | 241.9 | 241.5 | 68.2 | 314.0 | 157.8 | 223.0 | 219.7 |
| 316 | Presente | 295.9 | 325.3 | 315.7 | 233.8 | 226.1 | 247.4 | 223.8 | 161.6 | 254.9 | 84.7 | 311.7 | 111.1 | 259.0 | 246.5 |
| 317 | Presente | 202.5 | 221.2 | 209.8 | 161.6 | 165.4 | 145.2 | 144.9 | 122.8 | 129.0 | 85.6 | 193.2 | 122.0 | 131.4 | 120.8 |
| 318 | Presente | 274.4 | 260.9 | 280.3 | 218.5 | 204.5 | 216.0 | 202.7 | 177.7 | 221.7 | 90.0 | 278.9 | 113.3 | 222.6 | 217.4 |
| 319 | Presente | 159.0 | 134.0 | 135.0 | 106.3 | 110.0 | 186.0 | 180.3 | 154.0 | 161.3 | 90.7 | 216.3 | 109.7 | 160.7 | 158.7 |
| 320 | Presente | 254.0 | 205.8 | 168.1 | 159.3 | 198.0 | 195.0 | 262.4 | 251.0 | 263.5 | 84.7 | 321.5 | 114.2 | 259.0 | 257.4 |
| 321 | Presente | 81.3 | 39.4 | 37.0 | 52.2 | 91.3 | 148.1 | 206.9 | 246.1 | 256.5 | 68.8 | 331.1 | 157.8 | 241.9 | 240.2 |
| 322 | Presente | 30.9 | 20.3 | 16.3 | 30.0 | 52.3 | 69.4 | 89.9 | 133.1 | 74.0 | 72.0 | 173.9 | 216.6 | 55.4 | 55.4 |
| 323 | Presente | 208.9 | 167.3 | 116.7 | 125.4 | 170.9 | 201.5 | 224.5 | 234.5 | 266.7 | 81.4 | 327.8 | 125.7 | 261.0 | 260.0 |
| 324 | Presente | 197.3 | 150.2 | 114.9 | 111.0 | 149.9 | 182.2 | 224.7 | 219.6 | 268.0 | 84.0 | 328.7 | 122.0 | 263.2 | 262.0 |
| 325 | Presente | 259.7 | 272.2 | 267.5 | 223.0 | 213.6 | 222.6 | 220.9 | 192.1 | 256.6 | 85.8 | 312.6 | 113.0 | 260.8 | 249.3 |
| 326 | Presente | 123.3 | 86.3 | 84.9 | 102.4 | 129.5 | 220.5 | 273.7 | 336.1 | 252.2 | 73.5 | 320.9 | 145.0 | 235.8 | 235.8 |
| 327 | Presente | 448.0 | 440.0 | 397.0 | 313.0 | 333.0 | 343.0 | 337.0 | 221.0 | 250.0 | 83.0 | 307.0 | 108.0 | 256.0 | 242.0 |
| 328 | Presente | 104.2 | 47.1 | 33.6 | 55.7 | 92.5 | 134.1 | 208.9 | 231.5 | 256.4 | 76.6 | 322.0 | 140.9 | 248.0 | 247.8 |
| 329 | Presente | 103.7 | 46.0 | 32.9 | 57.4 | 97.5 | 148.3 | 210.1 | 241.6 | 254.6 | 76.5 | 319.1 | 139.7 | 245.8 | 245.7 |
| 330 | Presente | 94.3 | 29.3 | 6.3 | 24.7 | 104.3 | 183.7 | 252.0 | 323.0 | 251.3 | 69.0 | 331.0 | 161.7 | 246.7 | 244.3 |
| 331 | Presente | 55.5 | 32.1 | 0.4 | 7.1 | 61.0 | 137.3 | 224.4 | 238.5 | 249.0 | 69.0 | 332.8 | 169.0 | 245.0 | 242.4 |
| 332 | Presente | 120.9 | 59.3 | 32.3 | 42.3 | 90.9 | 161.9 | 216.8 | 257.9 | 253.6 | 79.0 | 320.9 | 146.0 | 245.4 | 243.1 |
| 333 | Presente | 297.9 | 169.7 | 115.8 | 69.3 | 49.3 | 58.2 | 80.6 | 142.2 | 268.6 | 88.0 | 330.0 | 117.0 | 271.8 | 263.8 |
| 334 | Presente | 318.2 | 277.2 | 218.6 | 188.0 | 167.4 | 215.0 | 201.6 | 248.4 | 257.1 | 85.9 | 311.5 | 106.8 | 258.6 | 251.4 |
| 335 | Presente | 270.3 | 193.7 | 141.2 | 140.9 | 167.2 | 211.2 | 241.1 | 252.4 | 261.6 | 84.6 | 316.3 | 107.3 | 261.0 | 257.0 |
| 336 | Presente | 96.2 | 20.0 | 7.4 | 22.8 | 70.3 | 137.6 | 159.6 | 214.8 | 261.0 | 71.8 | 341.7 | 160.7 | 254.1 | 252.7 |
| 337 | Presente | 176.0 | 70.8 | 44.3 | 67.4 | 136.9 | 196.4 | 232.9 | 307.0 | 263.8 | 77.0 | 328.0 | 128.0 | 260.8 | 259.4 |
| 338 | Presente | 75.2 | 29.0 | 2.2 | 13.8 | 84.7 | 166.8 | 248.0 | 292.2 | 251.2 | 69.0 | 332.5 | 165.3 | 247.0 | 244.2 |
| 339 | Presente | 214.6 | 124.3 | 83.6 | 86.6 | 121.4 | 145.8 | 195.9 | 237.9 | 266.0 | 84.8 | 321.2 | 104.2 | 267.1 | 262.2 |
| 340 | Presente | 102.7 | 33.3 | 24.8 | 43.4 | 90.2 | 156.1 | 227.5 | 270.0 | 249.1 | 76.6 | 317.9 | 153.9 | 238.2 | 237.6 |
| 341 | Presente | 82.8 | 26.0 | 22.7 | 36.8 | 88.8 | 147.6 | 214.9 | 238.3 | 251.3 | 71.1 | 321.3 | 153.7 | 239.6 | 238.1 |
| 342 | Presente | 330.8 | 190.3 | 149.0 | 98.3 | 33.3 | 21.3 | 19.3 | 88.3 | 263.5 | 81.8 | 324.8 | 112.0 | 268.5 | 257.8 |
| 343 | Presente | 79.0 | 29.3 | 9.7 | 12.7 | 35.7 | 59.7 | 118.7 | 172.3 | 266.0 | 77.0 | 339.0 | 145.0 | 265.0 | 263.0 |
| 344 | Presente | 67.5 | 13.0 | 5.0 | 17.0 | 50.0 | 120.5 | 164.0 | 205.0 | 260.5 | 71.5 | 345.5 | 169.0 | 251.5 | 249.5 |
| 345 | Presente | 273.0 | 179.0 | 90.0 | 30.0 | 8.0 | 4.0 | 15.0 | 27.0 | 269.0 | 78.0 | 318.0 | 96.0 | 276.0 | 263.0 |
| 346 | Presente | 82.8 | 30.7 | 12.0 | 14.8 | 39.2 | 66.5 | 123.8 | 183.8 | 266.3 | 77.7 | 337.7 | 142.2 | 265.3 | 263.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 347 | Presente | 68.0 | 30.8 | 1.5 | 10.8 | 78.0 | 157.8 | 242.5 | 274.5 | 251.8 | 68.5 | 333.5 | 166.8 | 247.3 | 244.8 |
| 348 | Presente | 63.3 | 33.3 | 1.7 | 8.7 | 78.0 | 153.3 | 243.3 | 264.7 | 253.0 | 68.7 | 335.0 | 167.0 | 248.7 | 246.0 |
| 349 | Presente | 113.0 | 22.5 | 12.8 | 38.0 | 115.6 | 188.1 | 235.4 | 339.5 | 256.2 | 67.8 | 337.6 | 166.0 | 252.3 | 250.9 |
| 350 | Presente | 88.6 | 15.1 | 8.0 | 31.1 | 90.6 | 160.1 | 222.0 | 318.4 | 253.5 | 67.6 | 337.6 | 171.8 | 249.3 | 247.6 |
| 351 | Presente | 300.1 | 232.5 | 156.7 | 118.9 | 111.4 | 81.3 | 115.7 | 167.4 | 268.3 | 85.0 | 329.6 | 111.3 | 273.3 | 262.2 |
| 352 | Presente | 97.0 | 27.0 | 5.0 | 24.0 | 104.0 | 188.0 | 256.0 | 334.0 | 251.0 | 69.0 | 331.0 | 162.0 | 247.0 | 244.0 |
| 353 | Presente | 233.4 | 111.4 | 55.2 | 35.4 | 38.2 | 65.5 | 99.3 | 183.6 | 272.3 | 87.2 | 333.6 | 118.0 | 274.7 | 267.5 |
| 354 | Presente | 65.0 | 28.0 | 1.0 | 10.0 | 68.0 | 148.0 | 233.0 | 263.0 | 252.0 | 69.0 | 335.0 | 169.0 | 247.0 | 245.0 |
| 355 | Presente | 95.8 | 30.7 | 22.9 | 49.8 | 96.8 | 167.5 | 217.7 | 272.9 | 261.7 | 76.7 | 327.6 | 134.9 | 257.8 | 254.8 |
| 356 | Presente | 116.0 | 31.2 | 26.7 | 36.3 | 103.4 | 163.7 | 218.9 | 272.1 | 259.5 | 74.8 | 330.5 | 143.2 | 255.7 | 252.4 |
| 357 | Presente | 70.0 | 27.0 | 1.0 | 12.0 | 71.0 | 153.0 | 239.0 | 276.0 | 250.0 | 69.0 | 333.0 | 168.0 | 246.0 | 243.0 |
| 358 | Presente | 235.6 | 94.8 | 53.0 | 72.8 | 129.8 | 197.1 | 200.4 | 314.1 | 264.0 | 79.0 | 324.2 | 116.8 | 263.1 | 259.3 |
| 359 | Presente | 112.8 | 41.6 | 19.1 | 48.9 | 92.8 | 153.7 | 234.2 | 309.9 | 262.0 | 71.5 | 331.9 | 141.7 | 258.3 | 254.6 |
| 360 | Presente | 323.8 | 166.4 | 132.8 | 87.6 | 40.8 | 29.1 | 27.6 | 111.1 | 267.5 | 84.8 | 322.8 | 99.8 | 272.9 | 261.0 |
| 361 | Presente | 302.8 | 217.2 | 172.3 | 155.2 | 111.3 | 91.0 | 82.7 | 196.0 | 268.9 | 85.8 | 327.2 | 107.3 | 273.5 | 263.2 |
| 362 | Presente | 334.3 | 184.5 | 144.2 | 94.7 | 32.5 | 21.5 | 19.9 | 90.2 | 263.7 | 81.9 | 324.4 | 110.3 | 268.9 | 257.9 |
| 363 | Presente | 69.0 | 33.0 | 3.5 | 12.8 | 87.0 | 157.5 | 244.8 | 276.5 | 251.5 | 68.8 | 333.5 | 166.3 | 247.5 | 244.8 |
| 364 | Presente | 327.0 | 221.0 | 155.0 | 85.0 | 20.0 | 6.0 | 8.0 | 63.0 | 262.0 | 80.0 | 327.0 | 116.0 | 269.0 | 256.0 |
| 365 | Presente | 308.0 | 220.0 | 156.0 | 81.0 | 20.0 | 6.0 | 9.0 | 53.0 | 263.0 | 80.0 | 325.0 | 112.0 | 270.0 | 257.0 |
| 366 | Presente | 302.5 | 222.0 | 162.0 | 82.5 | 20.5 | 7.5 | 11.0 | 51.5 | 264.0 | 79.5 | 324.0 | 109.0 | 271.0 | 258.0 |
| 367 | Presente | 396.8 | 192.5 | 148.1 | 73.7 | 32.1 | 8.6 | 16.1 | 102.6 | 273.7 | 80.5 | 321.3 | 89.6 | 280.6 | 265.7 |
| 368 | Presente | 330.0 | 221.0 | 164.0 | 98.0 | 27.0 | 11.0 | 10.0 | 77.0 | 262.0 | 79.0 | 327.0 | 118.0 | 268.0 | 255.0 |
| 369 | Presente | 326.3 | 170.3 | 133.7 | 90.3 | 37.7 | 27.3 | 25.7 | 102.7 | 266.3 | 83.7 | 323.3 | 103.3 | 271.7 | 260.3 |
| 370 | Presente | 322.0 | 164.5 | 134.0 | 86.5 | 43.5 | 29.0 | 28.0 | 115.0 | 269.5 | 84.5 | 322.5 | 96.5 | 274.5 | 262.5 |
| 371 | Presente | 62.3 | 33.0 | 2.0 | 8.3 | 79.3 | 152.0 | 245.3 | 265.0 | 250.7 | 68.7 | 333.3 | 167.7 | 246.7 | 243.7 |
| 372 | Presente | 208.7 | 122.1 | 75.3 | 99.7 | 133.5 | 197.1 | 230.4 | 291.0 | 259.8 | 81.3 | 317.8 | 114.7 | 255.2 | 255.2 |
| 373 | Presente | 137.9 | 61.5 | 38.6 | 52.8 | 116.7 | 187.4 | 217.5 | 299.0 | 261.0 | 78.6 | 324.6 | 131.4 | 256.3 | 254.7 |
| 374 | Presente | 80.5 | 32.0 | 5.5 | 18.5 | 97.0 | 170.0 | 247.0 | 294.5 | 252.5 | 68.5 | 333.5 | 164.5 | 248.5 | 245.5 |
| 375 | Presente | 66.9 | 20.4 | 7.3 | 18.6 | 62.0 | 125.4 | 187.3 | 235.3 | 249.8 | 71.4 | 335.5 | 176.2 | 240.8 | 238.3 |
| 376 | Presente | 67.0 | 30.0 | 1.0 | 10.5 | 75.0 | 155.5 | 240.5 | 272.0 | 251.0 | 69.0 | 333.5 | 167.0 | 247.0 | 244.5 |
| 377 | Presente | 282.4 | 180.3 | 120.7 | 55.6 | 26.8 | 37.0 | 48.1 | 69.1 | 265.4 | 82.9 | 323.8 | 106.1 | 272.9 | 259.4 |
| 378 | Presente | 328.8 | 258.8 | 184.8 | 113.7 | 67.6 | 47.1 | 92.2 | 140.1 | 268.1 | 81.6 | 328.8 | 107.2 | 274.6 | 260.9 |
| 379 | Presente | 78.7 | 16.0 | 7.0 | 21.7 | 59.4 | 130.5 | 161.9 | 203.2 | 259.4 | 72.4 | 342.5 | 164.6 | 252.0 | 250.0 |
| 380 | Presente | 83.5 | 17.3 | 8.2 | 25.3 | 64.6 | 136.4 | 160.8 | 198.7 | 257.7 | 73.0 | 340.2 | 162.9 | 250.9 | 248.9 |
| 381 | Presente | 161.4 | 87.7 | 58.0 | 79.1 | 116.4 | 193.7 | 229.7 | 264.4 | 256.7 | 80.2 | 317.3 | 129.1 | 250.0 | 248.8 |
| 382 | Presente | 150.5 | 62.5 | 26.6 | 31.4 | 63.3 | 103.5 | 123.6 | 202.4 | 254.8 | 79.0 | 321.3 | 131.9 | 255.1 | 249.2 |
| 383 | Presente | 276.7 | 205.8 | 157.2 | 166.2 | 153.4 | 224.9 | 229.7 | 271.1 | 257.6 | 84.5 | 312.7 | 107.6 | 256.7 | 252.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 384 | Presente | 96.5 | 23.8 | 12.4 | 24.9 | 78.0 | 141.4 | 168.9 | 223.4 | 261.4 | 71.5 | 339.1 | 153.8 | 256.0 | 255.1 |
| 385 | Presente | 100.3 | 22.2 | 9.7 | 27.1 | 76.8 | 143.9 | 159.8 | 211.0 | 260.2 | 71.9 | 339.9 | 158.1 | 254.2 | 252.8 |
| 386 | Presente | 104.6 | 34.9 | 15.1 | 35.7 | 119.3 | 176.6 | 237.8 | 312.8 | 256.3 | 68.9 | 333.5 | 157.7 | 251.2 | 249.3 |
| 387 | Presente | 311.2 | 241.6 | 192.6 | 160.7 | 147.4 | 149.2 | 162.8 | 193.7 | 266.7 | 87.9 | 321.6 | 105.9 | 269.6 | 262.0 |
| 388 | Presente | 138.7 | 47.5 | 24.4 | 36.5 | 50.8 | 92.1 | 104.5 | 182.9 | 250.1 | 80.7 | 316.9 | 132.4 | 250.5 | 245.6 |
| 389 | Presente | 129.6 | 64.1 | 41.5 | 63.3 | 103.9 | 163.7 | 210.1 | 250.9 | 255.0 | 75.7 | 317.8 | 135.7 | 246.1 | 246.0 |
| 390 | Presente | 169.5 | 68.7 | 37.9 | 46.7 | 77.6 | 133.9 | 153.6 | 236.6 | 257.6 | 77.8 | 325.2 | 133.5 | 257.1 | 251.4 |
| 391 | Presente | 65.0 | 32.0 | 2.0 | 9.0 | 77.0 | 155.0 | 243.0 | 268.0 | 252.0 | 69.0 | 334.0 | 167.0 | 248.0 | 245.0 |
| 392 | Presente | 323.0 | 165.0 | 134.0 | 87.0 | 43.0 | 29.0 | 28.0 | 115.0 | 269.0 | 85.0 | 322.0 | 97.0 | 274.0 | 262.0 |
| 393 | Presente | 64.8 | 32.5 | 1.8 | 9.0 | 78.5 | 155.0 | 243.3 | 267.8 | 252.8 | 68.8 | 334.5 | 166.8 | 248.3 | 245.8 |
| 394 | Presente | 83.5 | 30.0 | 4.0 | 18.5 | 95.5 | 174.5 | 250.0 | 305.0 | 252.5 | 69.0 | 333.0 | 164.0 | 248.0 | 245.5 |
| 395 | Presente | 226.1 | 99.4 | 75.9 | 54.9 | 55.5 | 75.5 | 79.2 | 168.0 | 261.9 | 80.1 | 325.7 | 119.0 | 266.5 | 256.3 |
| 396 | Presente | 299.8 | 206.7 | 155.1 | 130.0 | 83.4 | 74.6 | 64.8 | 175.9 | 268.7 | 87.0 | 327.4 | 109.3 | 272.6 | 263.5 |
| 397 | Presente | 275.9 | 187.6 | 127.5 | 62.2 | 42.0 | 40.3 | 63.2 | 91.3 | 267.2 | 83.6 | 326.7 | 108.8 | 273.9 | 261.0 |
| 398 | Presente | 194.3 | 206.3 | 244.1 | 172.1 | 132.7 | 151.6 | 129.5 | 118.8 | 111.7 | 87.6 | 162.5 | 98.4 | 113.0 | 104.8 |
| 399 | Presente | 179.0 | 132.0 | 101.0 | 109.0 | 131.0 | 211.0 | 212.0 | 101.0 | 152.0 | 90.0 | 197.0 | 90.0 | 148.0 | 148.0 |
| 400 | Presente | 251.4 | 279.5 | 311.3 | 218.9 | 182.9 | 179.9 | 168.8 | 159.0 | 152.6 | 90.1 | 206.9 | 107.8 | 154.1 | 147.1 |
| 401 | Presente | 365.8 | 322.3 | 192.8 | 104.3 | 53.0 | 50.3 | 109.8 | 221.0 | 265.0 | 78.3 | 324.0 | 102.8 | 271.8 | 256.5 |
| 402 | Presente | 303.9 | 328.4 | 241.8 | 170.2 | 110.0 | 102.6 | 123.6 | 179.6 | 266.7 | 76.8 | 326.8 | 106.6 | 275.6 | 258.9 |
| 403 | Presente | 319.0 | 302.8 | 222.8 | 162.3 | 92.5 | 84.8 | 108.8 | 185.0 | 266.5 | 77.0 | 328.0 | 108.0 | 275.0 | 258.3 |
| 404 | Presente | 403.0 | 340.6 | 274.9 | 168.7 | 71.2 | 46.2 | 79.9 | 164.2 | 262.8 | 76.0 | 329.6 | 116.0 | 273.3 | 255.0 |
| 405 | Presente | 300.3 | 302.8 | 222.5 | 172.9 | 96.0 | 84.1 | 117.8 | 179.3 | 265.2 | 75.2 | 327.7 | 109.0 | 274.5 | 256.9 |
| 406 | Presente | 306.8 | 309.5 | 251.2 | 172.7 | 89.7 | 70.9 | 92.1 | 160.6 | 271.3 | 79.6 | 330.1 | 108.6 | 279.5 | 264.1 |
| 407 | Presente | 392.1 | 336.9 | 207.1 | 144.1 | 88.5 | 84.6 | 143.1 | 245.6 | 252.1 | 77.3 | 313.1 | 107.6 | 257.9 | 245.4 |
| 408 | Presente | 571.7 | 452.5 | 257.4 | 171.8 | 88.1 | 86.5 | 173.5 | 367.2 | 258.6 | 75.0 | 321.0 | 110.2 | 264.6 | 253.5 |
| 409 | Presente | 494.3 | 381.3 | 202.5 | 138.2 | 81.9 | 75.8 | 163.2 | 326.8 | 251.5 | 74.7 | 316.1 | 116.9 | 256.7 | 245.8 |
| 410 | Presente | 340.1 | 339.3 | 368.6 | 315.1 | 252.8 | 252.8 | 189.8 | 135.1 | 267.4 | 72.5 | 336.8 | 124.4 | 275.6 | 255.6 |
| 411 | Presente | 259.5 | 301.7 | 236.5 | 164.0 | 101.3 | 87.2 | 118.5 | 151.3 | 269.5 | 77.5 | 326.8 | 103.8 | 277.7 | 262.2 |
| 412 | Presente | 396.3 | 400.1 | 383.9 | 322.1 | 282.5 | 260.7 | 216.7 | 188.1 | 260.4 | 82.4 | 326.6 | 118.9 | 264.2 | 252.2 |
| 413 | Presente | 392.1 | 257.1 | 198.4 | 106.4 | 60.5 | 43.5 | 57.5 | 72.8 | 260.2 | 77.1 | 341.3 | 135.8 | 270.2 | 252.8 |
| 414 | Presente | 310.3 | 302.1 | 235.5 | 121.2 | 79.2 | 70.6 | 115.1 | 210.7 | 264.9 | 76.9 | 326.3 | 105.9 | 272.7 | 257.2 |
| 415 | Presente | 58.5 | 27.0 | 15.8 | 24.7 | 49.2 | 96.6 | 157.2 | 194.1 | 244.0 | 69.7 | 329.3 | 187.8 | 224.8 | 223.1 |
| 416 | Presente | 80.5 | 26.0 | 9.4 | 26.7 | 56.9 | 140.5 | 206.2 | 201.9 | 263.9 | 74.3 | 336.0 | 143.2 | 258.9 | 256.8 |
| 417 | Presente | 208.8 | 157.0 | 119.5 | 129.8 | 164.1 | 222.2 | 376.4 | 523.5 | 252.0 | 62.3 | 327.0 | 176.3 | 222.3 | 222.3 |
| 418 | Presente | 238.0 | 137.0 | 129.0 | 114.0 | 102.5 | 88.0 | 81.0 | 180.0 | 268.0 | 88.0 | 323.0 | 105.0 | 271.0 | 262.5 |
| 419 | Presente | 67.1 | 33.1 | 21.3 | 30.9 | 54.0 | 99.0 | 164.7 | 202.9 | 250.9 | 69.1 | 332.6 | 178.6 | 230.9 | 230.0 |
| 420 | Presente | 186.5 | 138.0 | 108.0 | 109.5 | 141.0 | 256.5 | 308.0 | 461.0 | 246.0 | 63.0 | 324.5 | 185.0 | 216.5 | 216.5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 421 | Presente | 81.1 | 45.0 | 54.4 | 45.1 | 74.1 | 115.0 | 181.3 | 230.6 | 260.5 | 71.1 | 335.6 | 156.0 | 245.2 | 244.4 |
| 422 | Presente | 267.0 | 267.0 | 307.0 | 231.0 | 206.0 | 211.0 | 211.0 | 195.5 | 203.0 | 84.0 | 275.5 | 132.0 | 210.0 | 196.0 |
| 423 | Presente | 201.0 | 150.0 | 114.0 | 124.7 | 157.7 | 214.3 | 357.7 | 499.3 | 252.0 | 62.3 | 327.0 | 176.0 | 222.3 | 222.3 |
| 424 | Presente | 282.1 | 294.9 | 283.7 | 221.9 | 204.3 | 211.6 | 203.1 | 188.6 | 202.7 | 91.3 | 259.9 | 114.1 | 203.7 | 198.6 |
| 425 | Presente | 103.0 | 54.0 | 42.0 | 45.5 | 89.5 | 134.0 | 192.0 | 254.0 | 257.5 | 65.5 | 336.0 | 173.0 | 234.5 | 234.5 |
| 426 | Presente | 13.2 | 8.1 | 12.4 | 21.3 | 40.9 | 59.3 | 93.0 | 125.1 | 99.0 | 75.2 | 197.7 | 212.6 | 83.9 | 82.4 |
| 427 | Presente | 9.0 | 7.0 | 10.0 | 20.0 | 43.0 | 43.0 | 72.0 | 97.0 | 57.0 | 73.0 | 158.0 | 222.0 | 41.0 | 38.0 |
| 428 | Presente | 110.5 | 97.5 | 84.5 | 70.8 | 96.0 | 119.5 | 111.7 | 91.6 | 181.9 | 82.8 | 248.3 | 130.6 | 176.6 | 176.1 |
| 429 | Presente | 56.3 | 35.0 | 45.6 | 57.4 | 91.3 | 132.9 | 157.6 | 203.0 | 196.6 | 78.4 | 285.5 | 185.6 | 187.9 | 187.2 |
| 430 | Presente | 42.4 | 20.2 | 24.2 | 28.0 | 58.8 | 86.6 | 82.8 | 119.0 | 141.6 | 80.2 | 222.8 | 179.8 | 130.0 | 130.0 |
| 431 | Presente | 65.5 | 59.2 | 57.8 | 46.9 | 49.9 | 83.8 | 72.2 | 79.1 | 139.7 | 88.5 | 208.3 | 136.5 | 135.1 | 135.1 |
| 432 | Presente | 322.8 | 377.4 | 266.9 | 224.9 | 101.7 | 59.0 | 79.8 | 119.2 | 266.4 | 79.4 | 325.2 | 110.5 | 273.8 | 259.9 |
| 433 | Presente | 125.7 | 73.9 | 57.6 | 62.7 | 99.2 | 149.2 | 219.4 | 304.0 | 255.9 | 64.2 | 331.9 | 173.9 | 229.2 | 229.2 |
| 434 | Presente | 265.6 | 384.8 | 350.0 | 368.4 | 266.3 | 206.3 | 177.8 | 126.1 | 221.0 | 85.0 | 283.0 | 121.7 | 218.6 | 216.1 |
| 435 | Presente | 397.0 | 324.0 | 266.2 | 150.4 | 60.9 | 38.4 | 72.9 | 151.9 | 262.2 | 76.5 | 329.9 | 116.9 | 272.6 | 254.5 |
| 436 | Presente | 117.2 | 104.7 | 89.8 | 78.4 | 104.9 | 125.0 | 113.8 | 94.8 | 192.6 | 79.6 | 257.9 | 128.3 | 187.4 | 186.8 |
| 437 | Presente | 241.4 | 226.1 | 184.0 | 172.3 | 185.7 | 194.8 | 218.0 | 207.9 | 257.2 | 84.7 | 317.0 | 114.3 | 252.9 | 250.0 |
| 438 | Presente | 158.0 | 105.0 | 78.4 | 97.6 | 142.6 | 193.0 | 213.6 | 211.7 | 260.5 | 78.6 | 327.7 | 138.7 | 253.0 | 252.1 |
| 439 | Presente | 295.3 | 227.7 | 196.8 | 166.3 | 218.9 | 222.2 | 201.6 | 251.1 | 258.8 | 85.4 | 311.6 | 106.9 | 253.9 | 252.1 |

| Código | Modelo | Bio7 mean | Bio8 mean | Bio9 mean | Bio10 mean | Bio11 mean | Bio12 mean | Bio13 mean | Bio14 mean | Bio15 mean | Bio16 mean | Bio17 mean | Bio18 mean | Bio19 mean |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HE | 114.2 | 258.8 | 257.6 | 262.9 | 252.8 | 2939.0 | 276.9 | 206.1 | 9.0 | 820.7 | 658.9 | 713.8 | 695.2 |
| 2 | HE | 110.3 | 260.1 | 255.4 | 265.4 | 253.6 | 2906.3 | 326.3 | 179.2 | 18.0 | 907.2 | 579.8 | 680.3 | 598.7 |
| 3 | HE | 209.3 | 115.7 | 98.6 | 123.8 | 97.1 | 902.5 | 167.1 | 8.1 | 74.6 | 456.2 | 33.6 | 286.9 | 41.4 |
| 4 | HE | 116.6 | 262.0 | 255.6 | 265.9 | 255.3 | 2570.0 | 293.2 | 125.1 | 25.9 | 828.8 | 420.4 | 648.1 | 420.7 |
| 5 | HE | 135.9 | 236.1 | 230.6 | 243.1 | 230.6 | 1668.0 | 204.6 | 95.4 | 22.4 | 514.8 | 302.8 | 424.9 | 306.1 |
| 6 | HE | 140.5 | 265.5 | 256.7 | 269.0 | 255.8 | 1690.3 | 222.2 | 53.4 | 39.4 | 583.2 | 196.0 | 509.2 | 234.8 |
| 7 | HE | 110.5 | 261.6 | 257.9 | 266.0 | 254.9 | 2994.3 | 316.8 | 206.6 | 13.8 | 900.5 | 645.3 | 719.1 | 667.5 |
| 8 | HE | 131.1 | 167.1 | 173.6 | 175.0 | 162.4 | 1776.9 | 213.4 | 101.4 | 22.0 | 582.3 | 330.9 | 386.4 | 524.6 |
| 9 | HE | 158.0 | 267.4 | 243.8 | 270.6 | 243.3 | 1646.3 | 285.9 | 38.9 | 57.3 | 730.0 | 156.3 | 446.7 | 183.0 |
| 10 | HE | 169.1 | 262.5 | 222.9 | 263.9 | 222.9 | 2140.0 | 328.4 | 59.2 | 52.3 | 921.3 | 208.7 | 720.6 | 208.7 |
| 11 | HE | 100.9 | 265.4 | 276.0 | 276.1 | 263.9 | 2763.2 | 440.5 | 48.3 | 61.4 | 1256.1 | 176.8 | 213.2 | 1209.9 |
| 12 | HE | 105.8 | 267.9 | 276.9 | 277.2 | 267.0 | 1977.3 | 366.9 | 16.1 | 77.1 | 1018.3 | 64.4 | 67.2 | 883.0 |
| 13 | HE | 108.6 | 266.6 | 273.1 | 275.6 | 266.3 | 2080.8 | 316.4 | 98.1 | 41.9 | 842.3 | 304.5 | 374.8 | 829.9 |
| 14 | HE | 128.3 | 202.3 | 178.3 | 206.0 | 176.0 | 1412.0 | 218.0 | 25.7 | 58.0 | 623.0 | 104.0 | 467.3 | 112.3 |
| 15 | HE | 97.9 | 264.7 | 275.6 | 275.6 | 263.4 | 1956.3 | 377.8 | 8.6 | 81.6 | 1037.4 | 39.9 | 39.9 | 976.7 |
| 16 | HE | 156.7 | 227.8 | 200.1 | 229.5 | 199.8 | 1587.9 | 243.6 | 33.4 | 55.9 | 709.7 | 132.5 | 557.9 | 135.4 |
| 17 | HE | 145.8 | 198.0 | 177.2 | 200.2 | 174.2 | 1183.4 | 217.8 | 15.8 | 67.2 | 585.0 | 72.4 | 386.2 | 81.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | HE | 99.0 | 265.0 | 277.0 | 279.0 | 263.0 | 2482.0 | 388.0 | 32.0 | 61.0 | 1078.0 | 137.0 | 171.0 | 1022.0 |
| 19 | HE | 133.7 | 254.4 | 257.7 | 260.6 | 252.5 | 1878.7 | 308.6 | 19.1 | 65.4 | 856.5 | 90.1 | 226.9 | 795.0 |
| 20 | HE | 143.4 | 260.7 | 250.6 | 263.3 | 245.7 | 1941.5 | 286.1 | 37.5 | 56.0 | 830.5 | 123.6 | 489.5 | 188.0 |
| 21 | HE | 105.0 | 266.0 | 270.0 | 270.0 | 264.0 | 2692.0 | 404.0 | 97.0 | 51.0 | 1135.0 | 315.0 | 315.0 | 1129.0 |
| 22 | HE | 146.6 | 259.4 | 262.6 | 266.6 | 258.6 | 1563.4 | 267.8 | 24.8 | 64.8 | 737.8 | 87.4 | 199.6 | 660.6 |
| 23 | HE | 118.3 | 268.3 | 274.1 | 274.9 | 266.3 | 2289.4 | 428.0 | 24.7 | 78.0 | 1202.4 | 90.6 | 129.5 | 1163.1 |
| 24 | HE | 143.3 | 264.3 | 255.7 | 267.0 | 249.7 | 1934.0 | 286.0 | 39.0 | 56.0 | 829.7 | 125.0 | 413.7 | 187.3 |
| 25 | HE | 102.7 | 266.7 | 275.0 | 276.3 | 266.4 | 2450.3 | 325.8 | 81.5 | 43.0 | 936.8 | 288.3 | 335.0 | 861.9 |
| 26 | HE | 102.3 | 268.1 | 277.4 | 278.7 | 267.7 | 2250.3 | 295.7 | 80.9 | 40.4 | 828.8 | 273.9 | 342.4 | 808.5 |
| 27 | HE | 103.6 | 267.0 | 275.0 | 276.3 | 266.5 | 2578.0 | 354.1 | 101.2 | 38.0 | 978.2 | 347.3 | 394.6 | 846.1 |
| 28 | HE | 104.4 | 271.0 | 285.4 | 285.4 | 270.1 | 2297.6 | 372.5 | 45.4 | 57.5 | 1015.9 | 173.0 | 173.0 | 970.5 |
| 29 | HE | 102.0 | 270.0 | 279.0 | 280.0 | 269.0 | 2165.0 | 293.0 | 61.0 | 46.0 | 836.0 | 221.0 | 274.0 | 820.0 |
| 30 | HE | 104.8 | 262.7 | 276.1 | 276.8 | 262.3 | 1743.8 | 298.2 | 32.0 | 67.0 | 846.3 | 114.0 | 115.0 | 826.4 |
| 31 | HE | 104.8 | 265.8 | 274.0 | 275.3 | 265.3 | 2635.4 | 396.4 | 110.1 | 41.8 | 1070.6 | 369.6 | 378.4 | 901.1 |
| 32 | HE | 105.3 | 264.7 | 271.0 | 271.0 | 263.3 | 2459.0 | 373.0 | 84.7 | 51.0 | 1036.3 | 285.3 | 285.3 | 1028.3 |
| 33 | HE | 97.4 | 264.3 | 276.9 | 277.9 | 262.3 | 2405.2 | 388.3 | 23.9 | 66.1 | 1101.0 | 106.1 | 132.8 | 1006.6 |
| 34 | HE | 142.0 | 259.5 | 258.5 | 268.5 | 253.0 | 2076.5 | 304.5 | 19.5 | 60.0 | 898.5 | 102.5 | 321.0 | 255.5 |
| 35 | HE | 144.2 | 254.8 | 258.4 | 261.9 | 254.6 | 1602.3 | 271.7 | 25.3 | 65.6 | 760.7 | 86.1 | 194.6 | 684.8 |
| 36 | HE | 160.6 | 256.5 | 258.2 | 266.2 | 256.4 | 2291.1 | 335.5 | 31.1 | 57.3 | 963.6 | 122.2 | 460.9 | 839.1 |
| 37 | HE | 101.7 | 269.8 | 279.6 | 280.4 | 268.8 | 2194.9 | 289.7 | 69.7 | 43.4 | 831.0 | 242.2 | 301.4 | 815.3 |
| 38 | HE | 146.7 | 241.0 | 211.0 | 242.0 | 210.0 | 1525.7 | 234.3 | 33.3 | 54.3 | 671.3 | 134.0 | 609.3 | 142.0 |
| 39 | HE | 154.0 | 245.0 | 246.8 | 252.7 | 244.7 | 1987.3 | 315.7 | 18.9 | 62.3 | 884.8 | 83.6 | 372.1 | 754.7 |
| 40 | HE | 109.0 | 265.7 | 272.7 | 274.1 | 265.2 | 2193.1 | 322.3 | 102.5 | 39.6 | 864.7 | 326.6 | 381.4 | 844.4 |
| 41 | HE | 175.0 | 271.0 | 241.0 | 272.0 | 228.0 | 1204.5 | 200.5 | 31.5 | 59.5 | 546.5 | 113.0 | 450.5 | 146.0 |
| 42 | HE | 167.0 | 262.0 | 209.5 | 262.0 | 209.5 | 1541.5 | 286.5 | 39.5 | 57.5 | 721.0 | 162.0 | 721.0 | 162.0 |
| 43 | HE | 160.0 | 267.6 | 256.8 | 274.8 | 255.8 | 1682.3 | 265.6 | 14.8 | 65.3 | 758.6 | 66.9 | 382.9 | 120.9 |
| 44 | HE | 165.0 | 268.0 | 253.0 | 273.0 | 252.0 | 1642.0 | 266.0 | 17.3 | 64.3 | 748.7 | 79.0 | 376.0 | 127.7 |
| 45 | HE | 175.0 | 271.0 | 241.0 | 272.0 | 228.0 | 1204.5 | 200.5 | 31.5 | 59.5 | 546.5 | 113.0 | 450.5 | 146.0 |
| 46 | HE | 160.8 | 267.0 | 243.1 | 270.0 | 242.8 | 1612.8 | 280.7 | 36.9 | 57.7 | 716.3 | 140.5 | 463.3 | 176.5 |
| 47 | HE | 165.1 | 257.7 | 220.7 | 259.0 | 220.7 | 1983.3 | 299.3 | 54.3 | 52.1 | 856.0 | 193.4 | 655.8 | 193.4 |
| 48 | HE | 143.3 | 258.1 | 231.8 | 259.8 | 231.8 | 2215.8 | 342.8 | 74.9 | 51.6 | 938.0 | 230.8 | 710.1 | 245.3 |
| 49 | HE | 122.7 | 262.7 | 277.0 | 280.0 | 262.7 | 2878.3 | 432.7 | 59.0 | 52.7 | 1199.7 | 245.3 | 249.7 | 1199.7 |
| 50 | HE | 150.4 | 177.9 | 153.4 | 180.2 | 151.7 | 1217.4 | 209.5 | 18.6 | 64.2 | 576.3 | 81.5 | 398.4 | 87.1 |
| 51 | HE | 172.3 | 239.5 | 194.7 | 239.5 | 190.7 | 1342.6 | 240.3 | 32.2 | 59.0 | 624.9 | 136.4 | 620.0 | 146.8 |
| 52 | HE | 172.1 | 269.9 | 227.2 | 270.1 | 224.7 | 2250.7 | 356.0 | 70.6 | 52.2 | 979.3 | 244.6 | 920.2 | 251.6 |
| 53 | HE | 143.6 | 228.0 | 202.9 | 230.6 | 199.2 | 1734.6 | 262.4 | 51.2 | 52.9 | 743.0 | 173.6 | 567.3 | 190.0 |
| 54 | HE | 133.8 | 257.5 | 245.3 | 259.6 | 244.8 | 2222.1 | 285.0 | 60.7 | 40.3 | 796.9 | 231.0 | 641.8 | 305.6 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55 | HE | 105.3 | 254.6 | 255.3 | 260.1 | 251.4 | 2903.6 | 305.4 | 155.6 | 20.6 | 889.7 | 513.9 | 598.6 | 723.6 |
| 56 | HE | 103.0 | 265.0 | 271.0 | 271.0 | 263.0 | 2263.0 | 347.0 | 70.0 | 52.0 | 975.0 | 248.0 | 282.0 | 947.0 |
| 57 | HE | 104.0 | 264.0 | 271.0 | 271.0 | 263.0 | 2341.0 | 356.0 | 77.0 | 51.0 | 995.0 | 266.0 | 266.0 | 977.0 |
| 58 | HE | 103.0 | 265.0 | 273.0 | 274.0 | 264.0 | 2451.0 | 324.0 | 115.0 | 32.0 | 889.0 | 363.0 | 412.0 | 749.0 |
| 59 | HE | 153.0 | 260.0 | 241.0 | 263.0 | 238.0 | 1773.0 | 263.0 | 26.0 | 58.0 | 742.0 | 100.0 | 450.0 | 132.0 |
| 60 | HE | 113.7 | 257.7 | 269.3 | 272.8 | 257.1 | 1559.4 | 335.5 | 35.2 | 78.3 | 864.2 | 126.1 | 150.4 | 786.7 |
| 61 | HE | 88.2 | 264.5 | 263.3 | 272.6 | 260.2 | 2622.3 | 368.3 | 111.1 | 38.4 | 963.2 | 397.0 | 489.1 | 465.4 |
| 62 | HE | 94.5 | 261.5 | 259.0 | 268.0 | 255.0 | 2782.5 | 388.3 | 108.0 | 37.0 | 1000.8 | 372.0 | 618.5 | 439.8 |
| 63 | HE | 94.5 | 261.5 | 259.0 | 268.0 | 255.0 | 2782.5 | 388.3 | 108.0 | 37.0 | 1000.8 | 372.0 | 618.5 | 439.8 |
| 64 | HE | 124.9 | 249.0 | 257.2 | 258.6 | 248.6 | 3023.8 | 418.3 | 121.7 | 37.9 | 1156.5 | 420.3 | 489.8 | 1086.4 |
| 65 | HE | 102.0 | 262.0 | 272.0 | 272.0 | 258.0 | 3398.0 | 545.0 | 60.0 | 52.0 | 1369.0 | 266.0 | 268.0 | 1046.0 |
| 66 | HE | 103.0 | 266.0 | 272.0 | 272.0 | 256.0 | 2234.0 | 368.0 | 51.0 | 50.0 | 927.0 | 211.0 | 211.0 | 612.0 |
| 67 | HE | 130.9 | 182.7 | 176.7 | 189.3 | 176.4 | 1259.7 | 143.5 | 70.3 | 21.1 | 385.7 | 233.2 | 335.3 | 234.8 |
| 68 | HE | 185.2 | 126.0 | 113.8 | 133.7 | 113.8 | 1041.6 | 159.9 | 20.3 | 56.7 | 461.1 | 79.1 | 318.0 | 80.2 |
| 69 | HE | 153.3 | 220.0 | 213.3 | 225.0 | 213.3 | 2452.9 | 345.4 | 80.2 | 45.8 | 984.7 | 265.9 | 600.9 | 269.5 |
| 70 | HE | 152.0 | 247.0 | 215.0 | 247.5 | 214.5 | 1701.0 | 251.5 | 44.0 | 52.0 | 736.5 | 164.0 | 664.5 | 179.0 |
| 71 | HE | 117.4 | 254.1 | 266.2 | 267.6 | 253.1 | 1916.4 | 338.7 | 62.4 | 61.8 | 922.5 | 202.5 | 212.1 | 893.2 |
| 72 | HE | 133.0 | 269.0 | 288.3 | 292.7 | 269.0 | 2512.7 | 418.0 | 36.7 | 62.0 | 1158.3 | 172.0 | 175.7 | 1158.3 |
| 73 | HE | 133.0 | 269.0 | 288.0 | 292.5 | 269.0 | 2528.0 | 418.5 | 37.0 | 61.5 | 1162.0 | 174.5 | 177.5 | 1162.0 |
| 74 | HE | 112.0 | 245.5 | 251.5 | 253.5 | 242.5 | 3252.0 | 328.0 | 209.0 | 14.5 | 965.0 | 677.0 | 788.0 | 822.5 |
| 75 | HE | 157.3 | 250.7 | 233.8 | 253.4 | 233.8 | 1894.7 | 255.3 | 32.5 | 55.1 | 757.9 | 120.2 | 655.1 | 120.2 |
| 76 | HE | 103.8 | 253.6 | 255.4 | 258.6 | 248.8 | 3513.1 | 358.9 | 227.4 | 14.0 | 1002.3 | 715.6 | 773.3 | 932.4 |
| 77 | HE | 123.3 | 259.9 | 262.9 | 267.7 | 258.6 | 1599.2 | 339.2 | 28.4 | 81.5 | 874.9 | 89.1 | 126.2 | 379.9 |
| 78 | HE | 185.0 | 242.0 | 237.3 | 247.7 | 235.3 | 1925.0 | 328.7 | 6.0 | 74.0 | 934.3 | 40.0 | 230.7 | 82.0 |
| 79 | HE | 204.6 | 237.7 | 241.0 | 249.6 | 236.3 | 2437.3 | 409.2 | 10.3 | 70.2 | 1104.0 | 38.4 | 364.1 | 1099.2 |
| 80 | HE | 129.0 | 209.3 | 213.7 | 219.7 | 204.7 | 2937.7 | 342.7 | 168.7 | 19.7 | 934.0 | 552.0 | 644.0 | 870.7 |
| 81 | HE | 129.7 | 176.0 | 183.7 | 187.0 | 173.7 | 2677.3 | 339.0 | 139.3 | 26.0 | 917.3 | 465.3 | 564.3 | 880.7 |
| 82 | HE | 176.9 | 250.4 | 240.3 | 253.7 | 237.6 | 1594.1 | 260.9 | 8.0 | 68.5 | 735.5 | 48.5 | 374.1 | 95.4 |
| 83 | HE | 118.0 | 248.9 | 261.8 | 262.0 | 246.3 | 2135.8 | 360.9 | 45.2 | 54.1 | 914.0 | 162.4 | 214.0 | 686.8 |
| 84 | HE | 103.4 | 261.1 | 269.9 | 270.6 | 260.7 | 2954.9 | 383.3 | 161.9 | 23.6 | 968.8 | 541.2 | 693.5 | 863.4 |
| 85 | HE | 204.3 | 248.9 | 233.5 | 254.2 | 230.7 | 1807.0 | 313.5 | 1.4 | 79.0 | 915.3 | 21.1 | 446.9 | 52.4 |
| 86 | HE | 116.6 | 265.1 | 274.7 | 276.8 | 264.4 | 1774.4 | 332.8 | 48.8 | 67.5 | 897.5 | 161.7 | 208.5 | 823.1 |
| 87 | HE | 125.4 | 254.0 | 268.5 | 268.6 | 252.8 | 2114.5 | 383.6 | 61.6 | 57.0 | 973.9 | 213.2 | 221.5 | 622.8 |
| 88 | HE | 147.9 | 256.2 | 252.3 | 266.0 | 250.2 | 2258.7 | 360.9 | 19.6 | 64.4 | 1019.1 | 86.3 | 489.9 | 172.0 |
| 89 | HE | 112.0 | 266.8 | 279.3 | 280.9 | 266.0 | 2545.1 | 406.5 | 92.6 | 49.2 | 1109.0 | 316.8 | 317.5 | 900.7 |
| 90 | HE | 124.4 | 259.9 | 275.6 | 279.3 | 255.6 | 2750.7 | 368.6 | 51.3 | 43.8 | 1048.0 | 285.7 | 289.4 | 1023.0 |
| 91 | HE | 149.1 | 249.9 | 253.9 | 261.5 | 249.9 | 2221.4 | 344.2 | 18.5 | 61.3 | 971.8 | 94.2 | 453.0 | 971.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 92 | HE | 135.5 | 259.5 | 263.1 | 269.9 | 259.5 | 2213.1 | 311.1 | 48.3 | 51.0 | 900.1 | 191.6 | 301.0 | 900.1 |
| 93 | HE | 109.8 | 255.0 | 266.0 | 266.5 | 251.2 | 2529.1 | 349.3 | 55.7 | 51.1 | 1018.8 | 189.5 | 252.1 | 927.2 |
| 94 | HE | 110.4 | 255.1 | 262.7 | 263.5 | 255.0 | 2407.5 | 339.5 | 119.8 | 34.6 | 908.5 | 391.2 | 463.0 | 890.4 |
| 95 | HE | 110.9 | 266.6 | 273.5 | 277.2 | 266.5 | 1894.1 | 328.5 | 61.8 | 58.6 | 897.4 | 196.0 | 307.9 | 882.2 |
| 96 | HE | 132.3 | 260.6 | 260.8 | 267.9 | 258.4 | 2323.7 | 340.2 | 33.7 | 54.5 | 953.9 | 143.0 | 385.0 | 249.8 |
| 97 | HE | 144.6 | 256.7 | 254.3 | 265.4 | 250.5 | 2187.3 | 333.2 | 24.3 | 60.7 | 947.8 | 91.0 | 316.4 | 180.2 |
| 98 | HE | 138.1 | 242.2 | 245.4 | 248.3 | 240.1 | 1893.7 | 299.2 | 20.3 | 62.2 | 831.4 | 95.0 | 254.0 | 774.9 |
| 99 | HE | 112.3 | 264.2 | 272.9 | 273.2 | 261.5 | 2260.1 | 335.9 | 55.8 | 55.5 | 975.4 | 193.5 | 199.0 | 856.7 |
| 100 | HE | 160.1 | 258.3 | 259.3 | 267.2 | 258.1 | 2248.6 | 330.2 | 30.5 | 57.1 | 960.4 | 118.8 | 449.3 | 770.3 |
| 101 | HE | 132.2 | 262.9 | 266.4 | 273.4 | 261.5 | 2256.5 | 317.3 | 62.7 | 48.0 | 890.1 | 211.8 | 391.1 | 883.8 |
| 102 | HE | 130.2 | 254.3 | 260.0 | 266.7 | 253.3 | 2238.0 | 344.1 | 53.3 | 52.7 | 933.0 | 196.2 | 396.3 | 924.9 |
| 103 | HE | 148.5 | 257.1 | 257.0 | 267.1 | 254.7 | 2165.3 | 339.9 | 23.2 | 61.6 | 922.8 | 99.0 | 311.9 | 189.2 |
| 104 | HE | 136.6 | 261.3 | 255.2 | 265.8 | 252.5 | 2013.8 | 288.7 | 23.9 | 58.2 | 827.6 | 109.7 | 486.8 | 156.7 |
| 105 | HE | 137.5 | 245.7 | 248.3 | 251.8 | 244.0 | 1912.2 | 294.9 | 19.5 | 61.3 | 846.4 | 104.3 | 254.5 | 821.8 |
| 106 | HE | 138.8 | 260.1 | 264.2 | 271.5 | 260.1 | 2336.0 | 325.0 | 52.9 | 49.9 | 930.2 | 189.8 | 423.8 | 930.2 |
| 107 | HE | 145.8 | 259.1 | 255.2 | 267.4 | 252.9 | 2165.1 | 334.1 | 21.9 | 62.2 | 938.6 | 98.1 | 466.8 | 174.2 |
| 108 | HE | 177.6 | 251.2 | 253.3 | 261.5 | 251.0 | 2279.3 | 353.7 | 18.1 | 64.5 | 993.3 | 78.1 | 430.9 | 989.9 |
| 109 | HE | 152.7 | 254.5 | 251.0 | 263.4 | 248.8 | 2333.5 | 382.5 | 14.5 | 66.3 | 1073.8 | 79.4 | 470.2 | 167.8 |
| 110 | HE | 159.3 | 255.3 | 255.0 | 263.1 | 254.2 | 2247.5 | 336.2 | 21.7 | 56.7 | 940.5 | 110.9 | 377.4 | 235.8 |
| 111 | HE | 154.2 | 253.6 | 238.2 | 255.6 | 238.0 | 1822.4 | 261.2 | 20.3 | 60.6 | 771.5 | 81.7 | 629.4 | 132.9 |
| 112 | HE | 144.9 | 254.9 | 243.4 | 256.8 | 242.2 | 2209.1 | 330.4 | 40.6 | 54.4 | 940.6 | 161.7 | 502.1 | 238.4 |
| 113 | HE | 111.6 | 251.4 | 264.9 | 266.2 | 250.8 | 1771.1 | 271.6 | 50.9 | 53.4 | 786.1 | 190.2 | 208.6 | 639.2 |
| 114 | HE | 122.8 | 263.8 | 268.4 | 273.5 | 263.0 | 2292.3 | 317.2 | 69.4 | 48.7 | 915.9 | 240.5 | 304.0 | 904.4 |
| 115 | HE | 141.3 | 257.0 | 246.9 | 259.3 | 245.2 | 2162.2 | 324.7 | 32.9 | 55.5 | 922.8 | 137.0 | 499.8 | 228.6 |
| 116 | HE | 119.4 | 256.3 | 264.7 | 266.5 | 254.5 | 1841.7 | 330.7 | 43.5 | 65.9 | 922.2 | 177.8 | 241.6 | 825.3 |
| 117 | HE | 144.6 | 257.1 | 245.3 | 259.7 | 244.6 | 1897.5 | 268.9 | 25.7 | 58.5 | 788.8 | 105.7 | 623.4 | 154.6 |
| 118 | HE | 154.8 | 254.5 | 238.8 | 256.1 | 238.1 | 1827.3 | 265.9 | 20.5 | 59.9 | 775.8 | 83.0 | 619.4 | 137.3 |
| 119 | HE | 109.3 | 265.1 | 279.1 | 279.1 | 264.2 | 2368.0 | 414.2 | 60.3 | 56.2 | 1050.0 | 219.9 | 219.9 | 937.8 |
| 120 | HE | 122.0 | 253.7 | 261.8 | 266.1 | 252.7 | 1867.5 | 302.6 | 49.3 | 59.3 | 829.7 | 165.0 | 205.8 | 791.3 |
| 121 | HE | 133.3 | 249.0 | 252.1 | 255.4 | 247.3 | 1900.8 | 304.5 | 19.1 | 64.3 | 866.2 | 98.0 | 229.0 | 846.0 |
| 122 | HE | 106.7 | 264.6 | 263.1 | 268.3 | 260.6 | 2643.9 | 327.5 | 107.4 | 32.9 | 910.5 | 370.2 | 565.3 | 516.3 |
| 123 | HE | 170.2 | 257.4 | 255.9 | 264.6 | 255.2 | 2279.8 | 361.0 | 15.7 | 60.8 | 1001.5 | 99.2 | 372.4 | 177.9 |
| 124 | HE | 122.6 | 262.5 | 262.1 | 268.0 | 260.5 | 2553.4 | 327.6 | 56.2 | 46.3 | 960.8 | 219.1 | 482.2 | 334.2 |
| 125 | HE | 168.8 | 255.2 | 252.5 | 261.6 | 251.3 | 2296.3 | 366.3 | 13.0 | 64.3 | 1028.5 | 77.2 | 343.5 | 149.6 |
| 126 | HE | 109.0 | 266.2 | 279.1 | 279.2 | 265.3 | 2319.4 | 380.2 | 75.0 | 51.3 | 1018.7 | 259.3 | 259.3 | 841.0 |
| 127 | HE | 160.0 | 252.0 | 249.0 | 260.0 | 247.0 | 2310.0 | 362.0 | 6.0 | 67.0 | 1024.0 | 59.0 | 322.0 | 138.0 |
| 128 | HE | 164.0 | 250.0 | 248.0 | 258.0 | 245.0 | 2154.0 | 348.0 | 4.0 | 69.0 | 999.0 | 52.0 | 277.0 | 114.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 129 | HE | 150.8 | 256.1 | 254.9 | 265.5 | 252.9 | 2186.8 | 345.2 | 21.8 | 62.0 | 943.5 | 95.7 | 387.7 | 175.7 |
| 130 | HE | 140.6 | 259.0 | 258.1 | 267.8 | 253.0 | 2121.5 | 317.6 | 17.5 | 60.7 | 916.5 | 107.9 | 313.1 | 162.8 |
| 131 | HE | 160.0 | 252.0 | 248.0 | 260.0 | 246.0 | 2301.0 | 361.0 | 8.0 | 67.0 | 1025.0 | 65.0 | 322.0 | 141.0 |
| 132 | HE | 160.4 | 251.2 | 248.2 | 259.2 | 245.6 | 2305.4 | 361.0 | 5.6 | 67.0 | 1018.4 | 56.4 | 323.0 | 134.2 |
| 133 | HE | 159.0 | 252.0 | 249.0 | 260.0 | 247.0 | 2307.0 | 362.0 | 7.0 | 67.0 | 1027.0 | 63.0 | 322.0 | 140.0 |
| 134 | HE | 142.0 | 259.0 | 257.3 | 267.3 | 252.0 | 2072.7 | 298.7 | 22.3 | 59.7 | 885.0 | 101.3 | 320.0 | 347.0 |
| 135 | HE | 160.0 | 252.0 | 249.0 | 260.0 | 246.0 | 2306.0 | 359.0 | 5.0 | 67.0 | 1018.0 | 55.0 | 322.0 | 135.0 |
| 136 | HE | 115.6 | 255.4 | 265.8 | 266.2 | 251.6 | 2784.5 | 411.6 | 49.9 | 54.4 | 1141.0 | 191.5 | 222.8 | 1023.1 |
| 137 | HE | 157.2 | 248.9 | 252.2 | 259.6 | 248.9 | 2139.7 | 338.7 | 9.8 | 62.6 | 949.9 | 80.2 | 456.3 | 948.8 |
| 138 | HE | 163.9 | 253.0 | 251.7 | 260.9 | 250.1 | 2332.1 | 375.8 | 12.2 | 67.4 | 1059.8 | 65.7 | 312.8 | 138.7 |
| 139 | HE | 114.6 | 264.8 | 273.3 | 275.5 | 264.2 | 2240.1 | 301.9 | 80.8 | 46.0 | 897.5 | 267.7 | 280.4 | 892.3 |
| 140 | HE | 113.0 | 251.2 | 264.2 | 265.4 | 249.5 | 2068.3 | 320.0 | 51.6 | 50.8 | 865.9 | 191.7 | 248.7 | 697.3 |
| 141 | HE | 104.0 | 266.6 | 275.3 | 276.7 | 266.0 | 2523.3 | 344.6 | 112.8 | 34.8 | 948.9 | 364.5 | 399.3 | 776.1 |
| 142 | HE | 171.4 | 254.5 | 252.2 | 261.3 | 251.2 | 2250.6 | 359.5 | 13.8 | 62.9 | 992.6 | 84.1 | 344.5 | 155.2 |
| 143 | HE | 125.0 | 260.4 | 262.1 | 268.2 | 259.9 | 2360.7 | 333.7 | 49.9 | 50.7 | 961.4 | 186.0 | 351.0 | 494.6 |
| 144 | HE | 119.6 | 261.1 | 275.2 | 275.3 | 260.2 | 2366.3 | 376.9 | 95.6 | 49.2 | 1045.5 | 302.1 | 304.6 | 719.4 |
| 145 | HE | 107.2 | 256.7 | 264.9 | 264.9 | 249.7 | 2531.3 | 350.2 | 95.9 | 36.8 | 955.6 | 327.3 | 355.4 | 638.0 |
| 146 | HE | 122.3 | 264.5 | 262.5 | 270.3 | 256.4 | 1417.7 | 208.5 | 60.0 | 37.2 | 545.5 | 213.9 | 320.1 | 272.3 |
| 147 | HE | 120.5 | 252.8 | 254.8 | 264.9 | 251.4 | 1444.3 | 243.7 | 24.6 | 64.4 | 715.7 | 104.0 | 240.2 | 143.9 |
| 148 | HE | 118.4 | 256.2 | 256.4 | 266.4 | 253.4 | 1477.0 | 236.4 | 33.8 | 54.8 | 675.2 | 140.6 | 262.6 | 188.2 |
| 149 | HE | 142.2 | 261.1 | 283.6 | 286.5 | 261.1 | 2492.7 | 439.4 | 18.4 | 72.9 | 1244.1 | 94.2 | 233.3 | 1244.1 |
| 150 | HE | 120.2 | 229.3 | 229.3 | 236.6 | 226.8 | 2155.0 | 337.0 | 49.3 | 54.7 | 960.0 | 180.8 | 458.6 | 348.6 |
| 151 | HE | 124.3 | 254.6 | 257.0 | 266.6 | 253.6 | 1541.1 | 308.4 | 19.1 | 77.4 | 835.4 | 70.9 | 236.0 | 94.0 |
| 152 | HE | 126.7 | 248.8 | 251.5 | 257.5 | 247.8 | 2658.2 | 434.8 | 40.5 | 64.6 | 1236.5 | 157.5 | 514.5 | 578.5 |
| 153 | HE | 109.3 | 260.0 | 257.0 | 265.8 | 252.8 | 1849.4 | 266.8 | 72.7 | 37.8 | 696.3 | 254.2 | 432.7 | 333.1 |
| 154 | HE | 119.6 | 253.7 | 257.3 | 265.4 | 253.6 | 2046.9 | 379.1 | 28.5 | 75.1 | 1086.7 | 102.1 | 318.7 | 971.2 |
| 155 | HE | 134.9 | 247.0 | 264.1 | 267.7 | 246.8 | 2979.3 | 491.6 | 44.3 | 61.9 | 1366.6 | 196.3 | 272.6 | 1364.8 |
| 156 | HE | 103.0 | 261.0 | 271.0 | 271.0 | 258.0 | 3365.0 | 536.0 | 59.0 | 52.0 | 1350.0 | 264.0 | 264.0 | 1027.0 |
| 157 | HE | 133.0 | 264.0 | 283.0 | 286.0 | 264.0 | 2976.0 | 481.0 | 49.0 | 59.0 | 1344.0 | 222.0 | 231.0 | 1344.0 |
| 158 | HE | 168.5 | 247.8 | 210.8 | 248.3 | 197.5 | 1231.3 | 177.0 | 30.5 | 44.3 | 489.3 | 140.3 | 462.3 | 180.0 |
| 159 | HE | 123.7 | 237.5 | 241.2 | 245.9 | 236.4 | 2991.7 | 468.1 | 65.2 | 55.9 | 1317.7 | 246.1 | 549.8 | 849.8 |
| 160 | HE | 100.6 | 271.2 | 281.0 | 281.0 | 266.2 | 1875.0 | 283.6 | 64.0 | 45.0 | 784.4 | 241.2 | 256.4 | 364.6 |
| 161 | HE | 104.0 | 265.2 | 276.2 | 276.2 | 260.4 | 1989.8 | 300.0 | 80.0 | 38.8 | 756.0 | 280.6 | 301.2 | 459.0 |
| 162 | HE | 107.0 | 264.0 | 274.7 | 274.7 | 257.5 | 2137.7 | 318.8 | 83.5 | 42.0 | 847.8 | 271.3 | 317.5 | 492.2 |
| 163 | HE | 110.0 | 254.4 | 266.8 | 266.8 | 249.4 | 2390.8 | 346.8 | 71.5 | 41.3 | 923.8 | 269.6 | 269.6 | 580.4 |
| 164 | HE | 150.4 | 253.5 | 241.5 | 256.5 | 241.0 | 1990.5 | 259.9 | 46.8 | 50.2 | 765.3 | 161.4 | 635.4 | 187.5 |
| 165 | HE | 120.8 | 262.4 | 270.4 | 274.1 | 262.0 | 2263.6 | 327.4 | 71.4 | 49.1 | 924.9 | 243.3 | 285.5 | 923.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 166 | HE | 172.0 | 225.7 | 186.2 | 225.7 | 180.8 | 1229.4 | 198.7 | 30.4 | 53.1 | 540.8 | 141.5 | 539.4 | 165.0 |
| 167 | HE | 102.8 | 268.6 | 276.6 | 277.8 | 268.2 | 2558.1 | 343.2 | 85.9 | 42.5 | 985.1 | 305.3 | 356.7 | 856.9 |
| 168 | HE | 139.7 | 246.4 | 221.8 | 248.3 | 221.7 | 3053.4 | 462.3 | 109.7 | 48.8 | 1271.1 | 356.0 | 1015.9 | 359.6 |
| 169 | HE | 118.6 | 249.1 | 257.9 | 258.0 | 244.3 | 2412.3 | 366.4 | 59.7 | 46.4 | 957.6 | 220.7 | 226.5 | 732.4 |
| 170 | HE | 158.4 | 254.2 | 253.3 | 262.4 | 251.7 | 2414.2 | 377.9 | 16.4 | 65.1 | 1071.5 | 79.0 | 336.3 | 162.2 |
| 171 | HE | 121.8 | 217.6 | 218.1 | 224.5 | 215.7 | 2501.1 | 388.7 | 55.3 | 55.1 | 1105.0 | 198.6 | 553.1 | 488.6 |
| 172 | HE | 200.1 | 207.5 | 164.9 | 210.8 | 164.2 | 1876.5 | 322.7 | 52.8 | 63.9 | 856.1 | 184.6 | 680.7 | 192.4 |
| 173 | HE | 119.8 | 147.1 | 150.3 | 152.1 | 143.2 | 1851.1 | 200.2 | 114.3 | 18.1 | 566.6 | 368.2 | 399.4 | 526.8 |
| 174 | HE | 152.3 | 238.4 | 231.8 | 244.1 | 231.5 | 2037.6 | 237.2 | 95.7 | 27.8 | 650.6 | 311.6 | 600.3 | 329.2 |
| 175 | HE | 122.3 | 248.8 | 257.3 | 257.4 | 244.0 | 2422.8 | 372.5 | 58.7 | 47.6 | 964.9 | 214.4 | 233.6 | 756.3 |
| 176 | HE | 121.2 | 258.4 | 267.7 | 267.7 | 254.7 | 3511.2 | 569.9 | 39.0 | 60.8 | 1495.6 | 180.6 | 181.8 | 1266.1 |
| 177 | HE | 144.8 | 254.6 | 258.6 | 266.3 | 254.6 | 2529.8 | 389.4 | 41.1 | 56.3 | 1052.3 | 148.9 | 523.3 | 1052.3 |
| 178 | HE | 113.4 | 250.8 | 264.8 | 265.2 | 248.7 | 2710.5 | 326.2 | 132.5 | 28.3 | 941.5 | 419.4 | 478.3 | 861.4 |
| 179 | HE | 126.6 | 210.7 | 215.2 | 221.2 | 206.2 | 2912.2 | 346.5 | 166.2 | 20.7 | 938.9 | 544.1 | 641.1 | 866.2 |
| 180 | HE | 105.1 | 263.9 | 270.2 | 271.3 | 262.9 | 2634.8 | 338.0 | 142.3 | 29.0 | 925.3 | 444.9 | 460.1 | 839.2 |
| 181 | HE | 174.2 | 256.5 | 254.6 | 263.8 | 254.1 | 2271.8 | 365.7 | 14.9 | 62.5 | 1007.1 | 92.3 | 365.3 | 176.1 |
| 182 | HE | 107.5 | 241.4 | 248.3 | 248.4 | 235.0 | 2959.2 | 452.3 | 99.8 | 43.0 | 1214.2 | 376.6 | 400.8 | 611.6 |
| 183 | HE | 126.5 | 135.6 | 144.9 | 146.2 | 131.5 | 1716.3 | 222.6 | 84.0 | 28.0 | 590.0 | 285.5 | 354.9 | 567.0 |
| 184 | HE | 144.3 | 223.7 | 197.7 | 226.3 | 197.3 | 1906.3 | 294.4 | 53.6 | 54.4 | 823.0 | 179.1 | 610.4 | 191.3 |
| 185 | HE | 153.9 | 236.2 | 226.2 | 241.5 | 225.1 | 2245.9 | 305.9 | 70.8 | 46.8 | 874.9 | 237.6 | 670.7 | 244.8 |
| 186 | HE | 137.0 | 260.1 | 258.3 | 267.7 | 254.8 | 2045.3 | 301.2 | 22.1 | 58.8 | 857.4 | 105.8 | 358.6 | 169.1 |
| 187 | HE | 120.6 | 249.8 | 260.3 | 260.6 | 245.9 | 2413.1 | 371.8 | 54.8 | 50.6 | 987.4 | 191.7 | 237.1 | 802.0 |
| 188 | HE | 118.4 | 198.7 | 196.6 | 205.3 | 196.1 | 1752.4 | 285.3 | 51.3 | 52.8 | 795.1 | 213.9 | 311.2 | 257.4 |
| 189 | HE | 116.8 | 259.6 | 262.9 | 267.8 | 259.5 | 2519.2 | 354.4 | 55.7 | 49.3 | 984.0 | 210.6 | 376.7 | 977.2 |
| 190 | HE | 108.8 | 193.0 | 197.8 | 198.6 | 191.5 | 2684.1 | 337.4 | 128.5 | 31.6 | 962.0 | 409.7 | 536.4 | 918.5 |
| 191 | HE | 107.3 | 258.1 | 253.3 | 261.1 | 250.9 | 2790.7 | 304.7 | 156.5 | 20.7 | 859.4 | 498.0 | 695.7 | 613.2 |
| 192 | HE | 104.4 | 262.7 | 260.9 | 265.5 | 253.3 | 3011.5 | 330.7 | 196.8 | 17.3 | 965.7 | 645.2 | 671.5 | 684.4 |
| 193 | HE | 106.6 | 152.9 | 153.1 | 156.3 | 150.1 | 1901.1 | 201.6 | 118.9 | 17.0 | 558.2 | 392.0 | 526.2 | 456.9 |
| 194 | HE | 106.7 | 201.0 | 204.1 | 206.4 | 197.1 | 2043.9 | 242.8 | 77.1 | 30.1 | 667.9 | 287.8 | 377.7 | 568.9 |
| 195 | HE | 108.5 | 142.0 | 146.0 | 148.5 | 138.0 | 2496.5 | 325.5 | 111.5 | 32.5 | 899.0 | 377.5 | 645.5 | 771.0 |
| 196 | HE | 111.0 | 250.0 | 263.0 | 263.2 | 247.3 | 2816.4 | 335.3 | 122.7 | 30.0 | 963.1 | 405.8 | 470.9 | 909.7 |
| 197 | HE | 101.9 | 256.9 | 253.1 | 260.8 | 250.3 | 3215.0 | 346.1 | 175.5 | 20.1 | 1011.5 | 602.7 | 786.5 | 691.9 |
| 198 | HE | 110.5 | 195.1 | 199.9 | 200.6 | 194.2 | 2982.4 | 367.8 | 163.1 | 28.1 | 1040.0 | 505.9 | 608.2 | 995.3 |
| 199 | HE | 116.0 | 256.7 | 268.9 | 270.8 | 252.0 | 2722.5 | 343.3 | 68.9 | 36.6 | 945.4 | 321.6 | 375.9 | 900.3 |
| 200 | HE | 126.6 | 251.8 | 265.0 | 268.6 | 248.2 | 2734.0 | 360.0 | 43.7 | 45.1 | 1031.1 | 243.7 | 286.3 | 969.2 |
| 201 | HE | 101.6 | 108.1 | 109.9 | 114.2 | 105.1 | 1985.7 | 257.3 | 57.3 | 38.2 | 723.1 | 227.5 | 482.5 | 621.5 |
| 202 | HE | 126.4 | 257.5 | 264.2 | 267.0 | 251.7 | 2974.7 | 381.2 | 77.3 | 37.4 | 1081.0 | 332.7 | 459.8 | 922.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203 | HE | 102.1 | 259.2 | 256.1 | 261.9 | 250.7 | 3045.8 | 330.7 | 192.4 | 17.1 | 948.8 | 617.6 | 697.2 | 680.4 |
| 204 | HE | 184.1 | 245.0 | 225.0 | 247.4 | 223.2 | 1575.5 | 279.6 | 13.4 | 69.3 | 747.2 | 61.0 | 368.3 | 98.9 |
| 205 | HE | 193.8 | 174.3 | 166.2 | 185.4 | 165.5 | 1502.5 | 213.8 | 32.2 | 51.6 | 624.3 | 135.6 | 398.0 | 139.2 |
| 206 | HE | 167.4 | 244.5 | 240.7 | 251.5 | 237.5 | 1900.3 | 303.1 | 17.6 | 62.6 | 865.1 | 81.4 | 286.2 | 139.6 |
| 207 | HE | 116.0 | 238.8 | 245.1 | 246.5 | 238.4 | 2450.7 | 347.2 | 113.5 | 34.4 | 917.0 | 386.7 | 471.0 | 823.5 |
| 208 | HE | 106.5 | 256.0 | 263.6 | 264.4 | 255.3 | 2904.6 | 353.0 | 174.3 | 21.7 | 951.0 | 573.2 | 631.1 | 914.4 |
| 209 | HE | 125.9 | 156.6 | 152.4 | 159.4 | 149.4 | 1322.9 | 166.2 | 73.6 | 26.6 | 456.2 | 243.0 | 296.7 | 267.8 |
| 210 | HE | 166.5 | 169.3 | 157.2 | 173.3 | 157.2 | 1058.1 | 156.3 | 31.7 | 47.5 | 405.9 | 97.6 | 328.2 | 97.6 |
| 211 | HE | 182.9 | 251.7 | 252.1 | 260.9 | 251.2 | 2412.2 | 360.2 | 17.5 | 64.5 | 1051.4 | 76.1 | 409.7 | 669.5 |
| 212 | HE | 125.6 | 142.6 | 148.9 | 150.0 | 138.6 | 1975.2 | 255.7 | 104.6 | 27.6 | 675.0 | 342.4 | 388.6 | 637.5 |
| 213 | HE | 161.2 | 258.8 | 252.1 | 266.3 | 250.2 | 1597.7 | 255.7 | 8.5 | 64.2 | 726.3 | 53.9 | 356.0 | 116.5 |
| 214 | HE | 112.7 | 260.8 | 268.8 | 270.8 | 260.6 | 1889.3 | 308.3 | 66.9 | 52.8 | 846.0 | 221.0 | 286.0 | 802.5 |
| 215 | HE | 139.2 | 257.9 | 248.1 | 261.8 | 247.5 | 2081.7 | 285.1 | 55.3 | 43.4 | 758.9 | 207.9 | 574.1 | 277.6 |
| 216 | HE | 143.9 | 245.0 | 248.1 | 253.8 | 245.0 | 1880.0 | 316.5 | 23.2 | 62.2 | 863.5 | 99.2 | 283.9 | 863.5 |
| 217 | HE | 114.6 | 247.2 | 255.4 | 256.0 | 247.0 | 3031.3 | 375.8 | 175.6 | 24.0 | 1031.3 | 577.3 | 605.5 | 979.8 |
| 218 | HE | 125.6 | 181.2 | 187.8 | 190.0 | 179.0 | 3354.6 | 393.4 | 187.1 | 24.6 | 1116.2 | 600.1 | 663.7 | 1056.1 |
| 219 | HE | 157.0 | 221.0 | 214.0 | 226.5 | 214.0 | 1666.0 | 223.5 | 60.0 | 42.5 | 626.5 | 184.0 | 527.0 | 184.0 |
| 220 | HE | 217.1 | 84.7 | 57.6 | 92.5 | 57.5 | 1007.7 | 196.3 | 17.0 | 68.7 | 503.3 | 71.0 | 300.1 | 74.8 |
| 221 | HE | 113.8 | 266.1 | 274.9 | 277.5 | 265.5 | 1862.7 | 342.9 | 53.3 | 63.5 | 918.4 | 177.0 | 252.2 | 838.6 |
| 222 | HE | 180.3 | 173.2 | 148.3 | 175.4 | 148.2 | 970.1 | 185.0 | 13.0 | 70.4 | 498.4 | 57.1 | 396.7 | 57.9 |
| 223 | HE | 178.3 | 264.3 | 221.5 | 265.2 | 220.5 | 2973.1 | 466.2 | 86.4 | 52.9 | 1277.2 | 294.6 | 1090.8 | 295.1 |
| 224 | HE | 129.5 | 128.3 | 123.6 | 129.7 | 123.6 | 1008.7 | 163.6 | 39.1 | 47.3 | 432.0 | 130.5 | 225.1 | 132.6 |
| 225 | HE | 168.6 | 190.7 | 178.2 | 194.4 | 178.2 | 1578.8 | 224.3 | 43.5 | 51.5 | 649.8 | 147.5 | 442.9 | 147.8 |
| 226 | HE | 133.1 | 263.4 | 278.6 | 280.8 | 262.4 | 3227.5 | 475.9 | 70.4 | 53.1 | 1372.1 | 266.3 | 300.0 | 1290.1 |
| 227 | HE | 112.0 | 246.4 | 256.5 | 257.4 | 244.4 | 2946.2 | 322.5 | 180.7 | 18.6 | 912.9 | 554.0 | 634.8 | 832.6 |
| 228 | HE | 151.6 | 254.3 | 240.5 | 256.8 | 240.3 | 1872.2 | 264.7 | 21.4 | 59.8 | 782.6 | 94.2 | 655.7 | 132.6 |
| 229 | HE | 180.7 | 246.3 | 232.0 | 248.8 | 229.7 | 1570.3 | 270.8 | 10.1 | 69.8 | 741.1 | 53.0 | 378.6 | 91.0 |
| 230 | HE | 201.9 | 248.7 | 250.2 | 260.9 | 248.1 | 2373.8 | 393.0 | 11.1 | 69.9 | 1091.6 | 50.2 | 342.9 | 952.8 |
| 231 | HE | 150.2 | 253.9 | 250.4 | 262.4 | 248.4 | 1816.4 | 278.5 | 17.5 | 60.5 | 796.7 | 78.8 | 301.2 | 144.2 |
| 232 | HE | 165.6 | 252.7 | 250.3 | 259.4 | 248.6 | 2322.0 | 374.8 | 11.6 | 66.9 | 1052.7 | 66.1 | 321.2 | 138.5 |
| 233 | HE | 177.0 | 254.3 | 251.5 | 261.1 | 250.4 | 2160.7 | 358.3 | 10.5 | 66.5 | 986.3 | 69.3 | 307.3 | 129.9 |
| 234 | HE | 110.2 | 261.3 | 267.2 | 270.7 | 261.2 | 2593.5 | 345.1 | 71.5 | 43.3 | 983.9 | 270.2 | 502.8 | 975.9 |
| 235 | HE | 104.7 | 262.0 | 276.7 | 276.7 | 261.7 | 1700.7 | 291.0 | 31.3 | 67.7 | 833.0 | 104.0 | 104.0 | 801.0 |
| 236 | HE | 104.4 | 265.8 | 272.9 | 274.5 | 265.3 | 2514.8 | 347.8 | 106.2 | 37.5 | 959.8 | 362.7 | 389.3 | 835.4 |
| 237 | HE | 102.6 | 267.8 | 276.9 | 277.9 | 267.4 | 2465.5 | 326.9 | 87.8 | 40.7 | 915.8 | 301.0 | 359.2 | 844.1 |
| 238 | HE | 112.6 | 254.2 | 261.7 | 262.8 | 253.9 | 1991.7 | 308.7 | 62.4 | 47.2 | 838.5 | 230.0 | 362.6 | 773.3 |
| 239 | HE | 143.5 | 249.6 | 253.5 | 257.0 | 249.3 | 1624.4 | 273.1 | 25.0 | 65.5 | 765.2 | 86.6 | 197.9 | 691.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 240 | HE | 168.1 | 257.8 | 248.8 | 263.3 | 246.3 | 1539.0 | 254.4 | 6.9 | 67.9 | 712.2 | 42.7 | 351.6 | 94.8 |
| 241 | HE | 174.3 | 254.8 | 253.0 | 262.2 | 252.2 | 2255.6 | 364.3 | 13.5 | 62.8 | 997.4 | 87.1 | 351.3 | 158.1 |
| 242 | HE | 102.0 | 268.0 | 278.0 | 279.0 | 267.0 | 2172.0 | 289.0 | 67.0 | 44.0 | 824.0 | 235.0 | 290.0 | 807.0 |
| 243 | HE | 164.7 | 252.1 | 250.7 | 260.1 | 248.8 | 2248.9 | 365.8 | 10.2 | 69.4 | 1040.7 | 58.2 | 280.2 | 123.6 |
| 244 | HE | 104.8 | 264.8 | 271.0 | 271.0 | 263.3 | 2388.0 | 360.5 | 81.0 | 50.5 | 1007.3 | 276.5 | 276.5 | 994.8 |
| 245 | HE | 191.7 | 255.4 | 249.4 | 261.3 | 248.9 | 2133.0 | 344.1 | 4.0 | 72.5 | 1006.6 | 32.0 | 555.7 | 59.3 |
| 246 | HE | 173.4 | 267.3 | 237.1 | 268.7 | 237.0 | 1616.0 | 266.8 | 29.0 | 61.5 | 742.1 | 106.4 | 536.1 | 138.3 |
| 247 | HE | 173.3 | 263.0 | 223.6 | 266.1 | 223.6 | 1862.5 | 305.3 | 49.8 | 55.2 | 825.0 | 170.1 | 564.7 | 170.1 |
| 248 | HE | 107.3 | 256.3 | 267.5 | 268.0 | 252.5 | 2458.5 | 341.0 | 71.8 | 44.0 | 968.3 | 247.8 | 326.3 | 851.8 |
| 249 | HE | 172.9 | 257.4 | 243.2 | 260.6 | 241.1 | 1489.0 | 246.7 | 8.4 | 69.0 | 693.6 | 47.9 | 351.8 | 94.1 |
| 250 | HE | 206.8 | 250.0 | 242.0 | 259.0 | 238.0 | 1819.8 | 308.5 | 2.0 | 77.0 | 893.0 | 15.0 | 469.3 | 50.0 |
| 251 | HE | 145.5 | 247.0 | 219.5 | 249.0 | 219.0 | 1943.0 | 301.5 | 65.5 | 52.0 | 826.5 | 205.0 | 585.5 | 232.0 |
| 252 | HE | 142.0 | 251.0 | 254.0 | 257.0 | 248.0 | 1758.0 | 290.0 | 18.0 | 65.0 | 766.0 | 80.0 | 232.0 | 715.0 |
| 253 | HE | 157.9 | 224.0 | 196.4 | 225.2 | 196.4 | 1421.2 | 226.5 | 26.1 | 58.4 | 649.7 | 107.1 | 535.8 | 112.9 |
| 254 | HE | 110.6 | 256.4 | 263.5 | 263.6 | 251.9 | 3359.6 | 510.7 | 78.2 | 47.8 | 1279.2 | 305.3 | 311.8 | 1043.0 |
| 255 | HE | 86.0 | 145.0 | 146.5 | 147.5 | 141.5 | 1638.0 | 208.5 | 87.0 | 27.5 | 532.5 | 300.5 | 413.5 | 339.0 |
| 256 | HE | 126.0 | 263.0 | 271.0 | 275.0 | 256.0 | 2932.0 | 389.0 | 40.0 | 49.0 | 1090.0 | 218.0 | 271.0 | 1018.0 |
| 257 | HE | 129.5 | 262.0 | 278.0 | 282.5 | 258.0 | 2838.0 | 376.5 | 35.0 | 48.0 | 1056.5 | 227.5 | 243.0 | 1010.5 |
| 258 | HE | 101.2 | 117.6 | 121.6 | 122.6 | 114.2 | 2075.8 | 232.4 | 110.0 | 23.2 | 676.0 | 357.2 | 567.4 | 578.4 |
| 259 | HE | 107.7 | 171.0 | 174.0 | 175.7 | 168.3 | 2351.0 | 293.7 | 111.0 | 30.7 | 832.0 | 357.3 | 539.3 | 774.7 |
| 260 | HE | 122.1 | 243.2 | 246.4 | 250.7 | 242.3 | 3105.1 | 463.0 | 84.1 | 49.1 | 1291.2 | 305.0 | 628.0 | 932.0 |
| 261 | HE | 105.8 | 264.5 | 272.8 | 272.8 | 256.8 | 2015.5 | 319.3 | 43.3 | 51.0 | 828.3 | 170.5 | 170.5 | 539.0 |
| 262 | HE | 106.7 | 258.2 | 260.8 | 264.7 | 255.3 | 3100.1 | 347.0 | 177.5 | 21.3 | 999.2 | 570.1 | 626.3 | 819.7 |
| 263 | HE | 112.5 | 257.0 | 265.0 | 265.0 | 254.0 | 3813.8 | 589.8 | 80.0 | 49.5 | 1495.5 | 320.5 | 324.0 | 1189.5 |
| 264 | HE | 98.2 | 264.6 | 275.7 | 275.7 | 263.3 | 1928.1 | 375.2 | 8.5 | 82.1 | 1028.2 | 39.6 | 39.6 | 964.1 |
| 265 | HE | 105.5 | 262.9 | 267.5 | 269.2 | 261.1 | 2915.6 | 342.2 | 163.0 | 24.9 | 989.1 | 514.0 | 549.9 | 882.3 |
| 266 | HE | 169.1 | 256.9 | 254.2 | 263.2 | 253.1 | 2288.3 | 362.7 | 13.9 | 63.2 | 1014.5 | 82.4 | 349.4 | 155.7 |
| 267 | HE | 171.9 | 259.7 | 258.1 | 266.9 | 257.6 | 2315.6 | 365.9 | 15.0 | 61.2 | 1027.6 | 101.8 | 389.4 | 183.2 |
| 268 | HE | 110.3 | 266.4 | 273.0 | 275.7 | 265.0 | 2242.6 | 286.5 | 90.5 | 40.5 | 833.2 | 284.2 | 303.8 | 825.5 |
| 269 | HE | 119.8 | 255.7 | 251.6 | 259.6 | 251.0 | 2668.7 | 329.2 | 84.0 | 39.2 | 951.6 | 307.3 | 613.7 | 407.4 |
| 270 | HE | 125.7 | 261.7 | 265.0 | 270.9 | 261.7 | 2443.1 | 330.6 | 51.5 | 48.4 | 966.6 | 198.2 | 503.2 | 966.6 |
| 271 | HE | 110.7 | 263.2 | 270.3 | 272.7 | 263.2 | 2449.1 | 317.6 | 75.5 | 42.4 | 928.0 | 261.8 | 356.4 | 928.0 |
| 272 | HE | 108.8 | 252.6 | 264.7 | 265.2 | 249.6 | 2414.6 | 335.8 | 60.8 | 46.9 | 948.9 | 218.0 | 270.7 | 827.4 |
| 273 | HE | 102.1 | 267.1 | 276.1 | 277.3 | 267.1 | 2616.3 | 359.6 | 71.3 | 48.4 | 1057.2 | 271.6 | 311.4 | 978.9 |
| 274 | HE | 102.2 | 268.3 | 278.2 | 279.2 | 268.0 | 2310.7 | 304.5 | 68.0 | 45.7 | 893.2 | 247.5 | 299.5 | 888.2 |
| 275 | HE | 105.2 | 267.2 | 277.5 | 277.6 | 266.3 | 2171.8 | 320.5 | 81.4 | 46.5 | 868.3 | 264.9 | 265.1 | 833.6 |
| 276 | HE | 108.3 | 261.2 | 266.9 | 270.2 | 261.2 | 2594.6 | 342.6 | 76.1 | 41.3 | 951.9 | 284.8 | 404.2 | 949.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 277 | HE | 106.1 | 265.7 | 275.5 | 276.3 | 262.8 | 2521.2 | 333.8 | 56.8 | 46.7 | 962.3 | 245.3 | 272.9 | 921.1 |
| 278 | HE | 106.7 | 257.8 | 260.3 | 264.3 | 254.8 | 3092.1 | 343.2 | 176.6 | 20.9 | 989.8 | 570.9 | 626.2 | 816.5 |
| 279 | HE | 106.3 | 261.1 | 264.8 | 269.2 | 260.7 | 2473.4 | 321.4 | 85.2 | 39.9 | 872.3 | 291.4 | 395.7 | 863.1 |
| 280 | HE | 112.1 | 259.8 | 264.0 | 268.7 | 259.8 | 2616.7 | 355.3 | 64.2 | 45.3 | 993.3 | 251.3 | 513.6 | 991.7 |
| 281 | HE | 113.2 | 263.0 | 269.5 | 272.6 | 262.9 | 2439.5 | 321.4 | 70.2 | 43.7 | 936.7 | 254.4 | 406.1 | 933.0 |
| 282 | HE | 118.9 | 258.3 | 253.9 | 262.2 | 253.9 | 2467.6 | 313.6 | 64.7 | 42.7 | 901.6 | 258.1 | 546.3 | 344.2 |
| 283 | HE | 133.0 | 182.7 | 181.3 | 187.6 | 176.5 | 1639.5 | 182.6 | 103.3 | 18.1 | 505.7 | 333.3 | 367.5 | 368.2 |
| 284 | HE | 113.6 | 266.0 | 274.6 | 276.7 | 265.6 | 1862.6 | 323.6 | 59.0 | 59.3 | 884.0 | 193.1 | 263.2 | 812.5 |
| 285 | HE | 106.7 | 255.1 | 255.6 | 260.4 | 251.5 | 2914.0 | 301.5 | 157.1 | 20.0 | 886.6 | 515.8 | 613.6 | 711.7 |
| 286 | HE | 190.5 | 236.0 | 226.5 | 241.0 | 225.5 | 1933.0 | 354.5 | 4.0 | 76.0 | 957.0 | 35.5 | 449.0 | 67.0 |
| 287 | HE | 106.7 | 266.1 | 275.6 | 275.6 | 265.3 | 2384.5 | 392.5 | 93.2 | 47.2 | 1020.9 | 306.0 | 314.2 | 880.3 |
| 288 | HE | 174.0 | 270.0 | 223.0 | 270.0 | 223.0 | 3391.0 | 518.8 | 110.5 | 50.8 | 1450.5 | 378.0 | 1450.5 | 378.0 |
| 289 | HE | 110.5 | 261.1 | 263.9 | 267.9 | 260.8 | 2450.5 | 309.6 | 77.4 | 44.0 | 906.5 | 254.2 | 366.0 | 899.3 |
| 290 | HE | 167.8 | 251.6 | 249.6 | 258.9 | 247.7 | 2207.7 | 364.6 | 8.8 | 69.5 | 1022.0 | 55.1 | 283.9 | 117.9 |
| 291 | HE | 109.4 | 253.7 | 266.4 | 267.0 | 251.3 | 2267.3 | 328.8 | 52.1 | 49.3 | 908.4 | 192.1 | 238.1 | 772.4 |
| 292 | HE | 131.2 | 253.4 | 256.7 | 259.9 | 251.9 | 1901.0 | 311.4 | 19.2 | 66.1 | 882.4 | 95.8 | 213.5 | 875.0 |
| 293 | HE | 100.9 | 262.1 | 274.8 | 274.8 | 259.6 | 2901.9 | 443.7 | 14.7 | 70.4 | 1304.4 | 81.2 | 92.9 | 1256.3 |
| 294 | HE | 136.3 | 260.5 | 263.2 | 269.9 | 260.4 | 2242.6 | 315.0 | 46.6 | 51.4 | 911.1 | 186.0 | 322.2 | 910.7 |
| 295 | HE | 144.7 | 246.5 | 250.3 | 256.8 | 246.4 | 1897.5 | 308.3 | 16.5 | 63.3 | 864.8 | 91.1 | 355.6 | 860.8 |
| 296 | HE | 119.6 | 260.0 | 268.1 | 269.7 | 258.5 | 1758.9 | 329.4 | 36.1 | 69.4 | 908.0 | 160.0 | 240.0 | 813.8 |
| 297 | HE | 160.3 | 261.1 | 255.8 | 271.0 | 254.8 | 1647.3 | 259.8 | 7.0 | 64.5 | 737.3 | 47.4 | 371.4 | 131.3 |
| 298 | HE | 138.0 | 258.8 | 257.3 | 267.4 | 253.5 | 1940.9 | 278.0 | 25.0 | 58.2 | 807.5 | 99.7 | 295.5 | 157.9 |
| 299 | HE | 124.3 | 160.1 | 164.0 | 166.0 | 153.9 | 2535.5 | 298.2 | 141.8 | 22.3 | 833.6 | 462.9 | 537.5 | 747.0 |
| 300 | HE | 154.9 | 258.3 | 254.0 | 267.1 | 252.8 | 1688.3 | 260.3 | 11.2 | 61.8 | 747.0 | 61.9 | 381.2 | 136.6 |
| 301 | HE | 118.9 | 253.2 | 264.2 | 267.2 | 252.2 | 3242.9 | 407.4 | 121.2 | 34.6 | 1180.3 | 449.3 | 469.9 | 1106.1 |
| 302 | HE | 106.0 | 254.0 | 263.0 | 263.0 | 251.5 | 3772.5 | 545.5 | 90.0 | 44.5 | 1404.0 | 359.0 | 359.0 | 1150.5 |
| 303 | HE | 176.2 | 259.3 | 236.7 | 260.7 | 235.2 | 1418.3 | 237.4 | 13.7 | 67.6 | 665.2 | 63.1 | 420.0 | 103.4 |
| 304 | HE | 113.8 | 250.5 | 264.9 | 265.5 | 248.3 | 2787.4 | 329.1 | 131.7 | 27.7 | 955.7 | 434.8 | 475.1 | 875.0 |
| 305 | HE | 134.5 | 242.9 | 226.7 | 245.7 | 226.3 | 3588.4 | 498.9 | 143.3 | 41.0 | 1389.8 | 475.1 | 1038.5 | 483.6 |
| 306 | HE | 183.7 | 197.4 | 188.8 | 206.0 | 188.2 | 1656.1 | 233.6 | 39.3 | 49.8 | 677.7 | 157.3 | 447.2 | 160.6 |
| 307 | HE | 129.8 | 188.3 | 184.3 | 194.9 | 183.6 | 1316.7 | 138.8 | 74.3 | 17.2 | 393.3 | 258.8 | 332.9 | 269.6 |
| 308 | HE | 156.7 | 229.0 | 221.5 | 234.1 | 221.1 | 2033.0 | 275.7 | 67.6 | 43.9 | 773.3 | 218.4 | 548.3 | 250.7 |
| 309 | HE | 114.2 | 252.3 | 267.4 | 267.9 | 249.9 | 2831.6 | 344.9 | 120.5 | 30.5 | 995.0 | 414.4 | 492.5 | 914.4 |
| 310 | HE | 173.3 | 224.6 | 217.6 | 231.9 | 217.4 | 1726.7 | 238.3 | 42.2 | 49.0 | 695.0 | 161.1 | 480.5 | 162.3 |
| 311 | HE | 149.7 | 256.2 | 242.8 | 258.3 | 242.4 | 1874.2 | 253.0 | 32.5 | 54.8 | 741.4 | 120.7 | 647.4 | 154.9 |
| 312 | HE | 124.5 | 227.5 | 230.2 | 237.2 | 222.4 | 2741.8 | 272.0 | 180.1 | 11.9 | 793.7 | 600.5 | 632.2 | 717.6 |
| 313 | HE | 146.9 | 229.4 | 220.9 | 232.1 | 220.9 | 2418.1 | 331.8 | 79.6 | 46.3 | 957.0 | 255.5 | 631.9 | 259.3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 314 | HE | 169.2 | 263.1 | 228.3 | 266.2 | 228.3 | 1786.4 | 294.8 | 49.3 | 54.5 | 784.9 | 168.9 | 521.5 | 168.9 |
| 315 | HE | 157.8 | 252.9 | 223.0 | 254.0 | 219.7 | 1808.5 | 268.9 | 58.5 | 49.9 | 771.1 | 200.7 | 585.4 | 207.9 |
| 316 | HE | 111.1 | 248.5 | 259.0 | 259.9 | 246.5 | 2928.0 | 329.5 | 160.6 | 22.7 | 940.1 | 508.4 | 582.9 | 875.7 |
| 317 | HE | 122.0 | 125.8 | 131.4 | 133.3 | 120.8 | 1974.1 | 227.5 | 108.4 | 22.2 | 646.5 | 354.0 | 412.9 | 592.6 |
| 318 | HE | 113.3 | 217.9 | 222.6 | 224.4 | 217.4 | 2667.0 | 287.7 | 169.5 | 16.8 | 817.3 | 525.9 | 603.9 | 808.1 |
| 319 | HE | 109.7 | 159.7 | 160.7 | 163.7 | 158.7 | 1742.3 | 187.7 | 105.0 | 19.7 | 520.3 | 351.0 | 499.0 | 483.3 |
| 320 | HE | 114.2 | 262.3 | 259.0 | 268.8 | 257.4 | 2753.5 | 285.8 | 159.3 | 18.2 | 814.1 | 525.4 | 708.4 | 533.2 |
| 321 | HE | 157.8 | 262.7 | 241.9 | 265.4 | 240.2 | 1804.4 | 276.5 | 36.9 | 56.4 | 770.2 | 128.6 | 464.7 | 157.7 |
| 322 | HE | 216.6 | 82.6 | 55.4 | 88.4 | 55.4 | 970.3 | 191.4 | 16.3 | 70.7 | 491.4 | 66.1 | 292.4 | 67.7 |
| 323 | HE | 125.7 | 267.9 | 261.0 | 270.1 | 260.0 | 2434.9 | 256.8 | 116.7 | 22.6 | 734.0 | 408.4 | 614.5 | 479.5 |
| 324 | HE | 122.0 | 268.1 | 263.2 | 271.3 | 262.0 | 2262.3 | 255.5 | 107.7 | 24.5 | 694.3 | 373.7 | 597.0 | 445.3 |
| 325 | HE | 113.0 | 251.8 | 260.8 | 261.2 | 249.3 | 2769.8 | 277.0 | 183.4 | 13.3 | 808.3 | 574.8 | 597.5 | 765.0 |
| 326 | HE | 145.0 | 259.8 | 235.8 | 261.8 | 235.8 | 2664.1 | 405.0 | 83.8 | 51.1 | 1110.9 | 273.6 | 931.1 | 277.4 |
| 327 | HE | 108.0 | 247.0 | 256.0 | 256.0 | 242.0 | 4033.0 | 448.0 | 189.0 | 25.0 | 1323.0 | 633.0 | 633.0 | 1150.0 |
| 328 | HE | 140.9 | 257.7 | 248.0 | 261.8 | 247.8 | 1810.8 | 259.9 | 33.6 | 51.8 | 704.2 | 136.4 | 515.7 | 184.9 |
| 329 | HE | 139.7 | 256.2 | 245.8 | 260.0 | 245.7 | 1853.1 | 262.9 | 32.9 | 51.7 | 713.2 | 136.2 | 597.9 | 179.0 |
| 330 | HE | 161.7 | 249.3 | 246.7 | 257.3 | 244.3 | 2249.3 | 355.3 | 6.3 | 67.0 | 1007.0 | 60.3 | 312.7 | 130.0 |
| 331 | HE | 169.0 | 247.3 | 245.0 | 255.1 | 242.4 | 1875.1 | 318.9 | 0.4 | 73.8 | 901.0 | 39.6 | 205.4 | 88.0 |
| 332 | HE | 146.0 | 257.7 | 245.4 | 258.9 | 243.1 | 2040.1 | 303.1 | 32.3 | 55.5 | 855.5 | 133.9 | 486.5 | 212.5 |
| 333 | HE | 117.0 | 265.9 | 271.8 | 271.8 | 263.8 | 2567.8 | 434.8 | 49.3 | 67.8 | 1252.7 | 176.7 | 177.6 | 1150.1 |
| 334 | HE | 106.8 | 254.8 | 258.6 | 261.6 | 251.4 | 2992.8 | 323.1 | 167.4 | 20.2 | 947.8 | 569.0 | 584.0 | 814.1 |
| 335 | HE | 107.3 | 261.0 | 261.0 | 265.5 | 257.0 | 2898.0 | 351.8 | 139.1 | 28.4 | 971.9 | 449.3 | 619.5 | 605.2 |
| 336 | HE | 160.7 | 261.0 | 254.1 | 268.8 | 252.7 | 1616.1 | 256.8 | 7.4 | 64.2 | 726.7 | 50.2 | 367.5 | 123.6 |
| 337 | HE | 128.0 | 262.4 | 260.8 | 267.6 | 259.4 | 2488.8 | 339.8 | 44.3 | 50.0 | 979.5 | 182.6 | 559.4 | 291.2 |
| 338 | HE | 165.3 | 249.3 | 247.0 | 257.0 | 244.2 | 2110.8 | 342.7 | 2.2 | 70.5 | 976.3 | 45.0 | 265.3 | 106.3 |
| 339 | HE | 104.2 | 264.8 | 267.1 | 270.1 | 262.2 | 2191.4 | 265.2 | 83.5 | 34.8 | 736.8 | 291.3 | 353.8 | 553.0 |
| 340 | HE | 153.9 | 253.7 | 238.2 | 255.2 | 237.6 | 1960.0 | 291.2 | 24.0 | 58.8 | 829.1 | 101.5 | 653.0 | 160.8 |
| 341 | HE | 153.7 | 255.8 | 239.6 | 258.0 | 238.1 | 1769.7 | 255.6 | 22.6 | 59.4 | 741.8 | 85.6 | 490.6 | 125.7 |
| 342 | HE | 112.0 | 257.8 | 268.5 | 269.3 | 257.8 | 2639.5 | 515.8 | 19.3 | 79.0 | 1404.0 | 73.8 | 128.8 | 1404.0 |
| 343 | HE | 145.0 | 265.0 | 265.0 | 270.0 | 263.0 | 1606.0 | 320.0 | 10.0 | 81.0 | 846.0 | 54.0 | 107.0 | 121.0 |
| 344 | HE | 169.0 | 262.0 | 251.5 | 268.5 | 249.5 | 1498.0 | 252.5 | 5.0 | 69.5 | 695.0 | 35.0 | 334.5 | 85.5 |
| 345 | HE | 96.0 | 265.0 | 276.0 | 276.0 | 263.0 | 1541.0 | 318.0 | 4.0 | 90.0 | 892.0 | 27.0 | 27.0 | 825.0 |
| 346 | HE | 142.2 | 263.2 | 265.3 | 269.7 | 263.2 | 1690.3 | 327.5 | 12.0 | 79.3 | 882.7 | 57.5 | 120.5 | 758.3 |
| 347 | HE | 166.8 | 249.8 | 247.3 | 257.5 | 244.8 | 2052.8 | 337.3 | 1.5 | 71.8 | 967.0 | 43.0 | 246.5 | 100.3 |
| 348 | HE | 167.0 | 251.0 | 248.7 | 259.0 | 246.0 | 2064.0 | 345.7 | 1.7 | 73.0 | 993.7 | 43.7 | 240.0 | 98.3 |
| 349 | HE | 166.0 | 255.0 | 252.3 | 261.2 | 250.9 | 2343.7 | 373.8 | 12.8 | 65.2 | 1054.4 | 73.3 | 341.8 | 148.4 |
| 350 | HE | 171.8 | 252.5 | 249.3 | 258.7 | 247.6 | 2132.5 | 359.8 | 8.0 | 69.8 | 1000.2 | 54.2 | 281.8 | 111.7 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 351 | HE | 111.3 | 265.2 | 273.3 | 273.7 | 262.2 | 2468.0 | 320.0 | 81.3 | 41.6 | 924.4 | 307.2 | 311.5 | 868.3 |
| 352 | HE | 118.0 | 269.6 | 274.7 | 275.6 | 267.5 | 2437.3 | 438.6 | 35.4 | 75.7 | 1284.7 | 128.8 | 139.1 | 1203.3 |
| 353 | HE | 162.0 | 250.0 | 247.0 | 257.0 | 244.0 | 2271.0 | 358.0 | 5.0 | 67.0 | 1011.0 | 56.0 | 316.0 | 129.0 |
| 354 | HE | 169.0 | 250.0 | 247.0 | 257.0 | 245.0 | 1941.0 | 317.0 | 1.0 | 72.0 | 911.0 | 39.0 | 226.0 | 94.0 |
| 355 | HE | 134.9 | 261.3 | 257.8 | 267.3 | 254.8 | 2009.1 | 286.6 | 22.9 | 58.9 | 835.8 | 103.4 | 456.0 | 149.9 |
| 356 | HE | 143.2 | 258.4 | 255.7 | 266.6 | 252.4 | 2046.1 | 307.1 | 26.7 | 59.2 | 870.2 | 94.2 | 303.4 | 173.8 |
| 357 | HE | 168.0 | 249.0 | 246.0 | 256.0 | 243.0 | 1982.0 | 320.0 | 1.0 | 71.0 | 918.0 | 40.0 | 236.0 | 98.0 |
| 358 | HE | 116.8 | 259.5 | 263.1 | 268.1 | 259.3 | 2648.0 | 385.4 | 53.0 | 49.2 | 1037.3 | 220.5 | 470.3 | 1028.7 |
| 359 | HE | 141.7 | 260.2 | 258.3 | 268.9 | 254.6 | 2196.7 | 340.1 | 19.1 | 61.7 | 944.8 | 109.5 | 308.1 | 173.4 |
| 360 | HE | 99.8 | 261.7 | 272.9 | 272.9 | 261.0 | 2680.5 | 510.2 | 27.6 | 78.0 | 1409.3 | 97.5 | 97.5 | 1270.6 |
| 361 | HE | 107.3 | 264.9 | 273.5 | 273.5 | 263.2 | 2820.7 | 398.6 | 82.5 | 48.1 | 1153.1 | 285.1 | 354.3 | 1117.7 |
| 362 | HE | 110.3 | 257.9 | 268.9 | 269.5 | 257.9 | 2666.4 | 524.5 | 19.9 | 80.2 | 1426.5 | 73.8 | 131.5 | 1343.5 |
| 363 | HE | 166.3 | 249.8 | 247.5 | 257.5 | 244.8 | 2123.5 | 345.5 | 3.5 | 71.5 | 1011.8 | 49.3 | 257.3 | 105.5 |
| 364 | HE | 116.0 | 256.0 | 269.0 | 269.0 | 256.0 | 2459.0 | 496.0 | 6.0 | 82.0 | 1333.0 | 34.0 | 34.0 | 1333.0 |
| 365 | HE | 112.0 | 257.0 | 270.0 | 270.0 | 257.0 | 2234.0 | 450.0 | 6.0 | 80.0 | 1177.0 | 35.0 | 35.0 | 1177.0 |
| 366 | HE | 109.0 | 258.0 | 271.0 | 271.0 | 258.0 | 2157.5 | 427.5 | 7.5 | 78.5 | 1105.5 | 39.0 | 39.0 | 1105.5 |
| 367 | HE | 89.6 | 267.2 | 280.6 | 280.6 | 265.7 | 2893.3 | 536.0 | 8.6 | 82.3 | 1544.6 | 56.8 | 92.0 | 1404.6 |
| 368 | HE | 118.0 | 255.0 | 268.0 | 268.0 | 255.0 | 2576.0 | 501.0 | 10.0 | 80.0 | 1373.0 | 48.0 | 48.0 | 1373.0 |
| 369 | HE | 103.3 | 260.7 | 271.7 | 271.7 | 260.3 | 2675.3 | 519.0 | 25.7 | 79.0 | 1417.0 | 90.7 | 90.7 | 1264.3 |
| 370 | HE | 96.5 | 264.0 | 274.5 | 274.5 | 262.5 | 2678.0 | 502.5 | 28.0 | 77.5 | 1402.0 | 100.5 | 100.5 | 1273.0 |
| 371 | HE | 167.7 | 248.7 | 246.7 | 256.7 | 243.7 | 2083.7 | 352.7 | 2.0 | 73.3 | 1009.3 | 43.3 | 239.7 | 97.3 |
| 372 | HE | 114.7 | 259.4 | 255.2 | 263.0 | 255.2 | 2513.1 | 311.5 | 75.3 | 38.2 | 871.4 | 297.1 | 560.9 | 345.1 |
| 373 | HE | 131.4 | 261.4 | 256.3 | 265.6 | 254.7 | 2244.3 | 311.4 | 38.6 | 52.5 | 893.0 | 152.9 | 521.6 | 237.9 |
| 374 | HE | 164.5 | 250.0 | 248.5 | 259.0 | 245.5 | 2171.0 | 348.5 | 5.5 | 68.5 | 1001.5 | 56.0 | 285.5 | 118.0 |
| 375 | HE | 176.2 | 253.1 | 240.8 | 256.0 | 238.3 | 1552.0 | 256.8 | 7.3 | 69.7 | 723.5 | 46.3 | 374.8 | 94.6 |
| 376 | HE | 167.0 | 249.5 | 247.0 | 257.0 | 244.5 | 2024.5 | 332.5 | 1.0 | 72.0 | 952.5 | 41.5 | 241.0 | 98.0 |
| 377 | HE | 106.1 | 260.1 | 272.9 | 273.1 | 259.4 | 1941.8 | 340.6 | 26.8 | 69.5 | 949.6 | 111.1 | 111.9 | 792.1 |
| 378 | HE | 107.2 | 263.9 | 274.6 | 275.4 | 260.9 | 2393.3 | 343.4 | 47.1 | 50.5 | 974.1 | 206.9 | 228.4 | 816.9 |
| 379 | HE | 162.9 | 257.9 | 250.9 | 264.8 | 248.9 | 1583.1 | 256.3 | 8.2 | 65.3 | 726.2 | 50.9 | 361.8 | 109.0 |
| 380 | HE | 164.6 | 260.1 | 252.0 | 267.1 | 250.0 | 1555.1 | 255.7 | 7.0 | 66.8 | 714.8 | 44.6 | 344.3 | 101.6 |
| 381 | HE | 129.1 | 258.4 | 250.0 | 261.4 | 248.8 | 2182.7 | 267.9 | 58.0 | 41.1 | 770.5 | 224.8 | 545.4 | 307.1 |
| 382 | HE | 131.9 | 249.5 | 255.1 | 261.3 | 249.2 | 1839.3 | 306.7 | 26.6 | 62.6 | 843.9 | 116.6 | 290.5 | 843.0 |
| 383 | HE | 107.6 | 256.9 | 256.7 | 261.4 | 252.7 | 2832.4 | 309.4 | 150.6 | 22.5 | 887.4 | 476.8 | 608.1 | 639.7 |
| 384 | HE | 153.8 | 259.9 | 256.0 | 269.3 | 255.1 | 1677.9 | 259.9 | 12.4 | 62.4 | 743.2 | 61.2 | 371.6 | 132.7 |
| 385 | HE | 158.1 | 259.2 | 254.2 | 267.9 | 252.8 | 1652.3 | 257.4 | 9.7 | 62.6 | 742.2 | 59.0 | 359.5 | 132.1 |
| 386 | HE | 157.7 | 253.7 | 251.2 | 262.2 | 249.3 | 2244.0 | 350.4 | 15.1 | 63.2 | 986.2 | 85.7 | 393.6 | 154.6 |
| 387 | HE | 105.9 | 263.5 | 269.6 | 270.0 | 262.0 | 2627.1 | 330.9 | 140.1 | 28.5 | 930.9 | 452.9 | 459.6 | 846.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 388 | HE | 132.4 | 245.6 | 250.5 | 255.3 | 245.6 | 1705.5 | 288.2 | 24.4 | 65.7 | 821.5 | 102.7 | 225.7 | 821.5 |
| 389 | HE | 135.7 | 257.3 | 246.1 | 260.2 | 246.0 | 1997.8 | 275.5 | 41.5 | 47.9 | 758.2 | 168.9 | 618.1 | 219.3 |
| 390 | HE | 133.5 | 252.1 | 257.1 | 264.2 | 251.4 | 2117.5 | 339.1 | 37.9 | 58.1 | 924.3 | 150.9 | 365.1 | 919.5 |
| 391 | HE | 167.0 | 250.0 | 248.0 | 258.0 | 245.0 | 2053.0 | 339.0 | 2.0 | 72.0 | 979.0 | 43.0 | 241.0 | 99.0 |
| 392 | HE | 97.0 | 263.0 | 274.0 | 274.0 | 262.0 | 2683.0 | 504.0 | 28.0 | 77.0 | 1405.0 | 100.0 | 100.0 | 1274.0 |
| 393 | HE | 166.8 | 250.8 | 248.3 | 258.5 | 245.8 | 2062.8 | 342.3 | 1.8 | 72.5 | 987.0 | 43.3 | 242.5 | 99.0 |
| 394 | HE | 164.0 | 250.5 | 248.0 | 258.5 | 245.5 | 2179.5 | 349.5 | 4.0 | 68.5 | 995.0 | 52.5 | 288.5 | 117.5 |
| 395 | HE | 119.0 | 256.7 | 266.5 | 269.7 | 256.3 | 2013.2 | 319.8 | 53.1 | 60.9 | 908.8 | 177.1 | 210.2 | 860.3 |
| 396 | HE | 109.3 | 265.4 | 272.6 | 272.7 | 263.5 | 2671.8 | 393.6 | 64.7 | 54.5 | 1150.8 | 222.8 | 279.7 | 1101.7 |
| 397 | HE | 108.8 | 262.1 | 273.9 | 274.3 | 261.0 | 2012.7 | 330.7 | 37.4 | 63.4 | 931.5 | 139.9 | 147.5 | 797.7 |
| 398 | HE | 98.4 | 109.6 | 113.0 | 115.3 | 104.8 | 1902.8 | 244.6 | 108.4 | 25.2 | 645.2 | 339.0 | 527.5 | 548.9 |
| 399 | HE | 90.0 | 152.0 | 148.0 | 154.0 | 148.0 | 1747.0 | 212.0 | 101.0 | 26.0 | 554.0 | 341.0 | 455.0 | 342.0 |
| 400 | HE | 107.8 | 150.1 | 154.1 | 155.4 | 147.1 | 2442.7 | 313.8 | 138.4 | 25.6 | 843.4 | 440.6 | 594.9 | 755.7 |
| 401 | HE | 102.8 | 265.5 | 271.8 | 271.8 | 256.5 | 2218.0 | 365.8 | 50.3 | 50.3 | 921.5 | 207.5 | 207.5 | 586.8 |
| 402 | HE | 106.6 | 264.5 | 275.6 | 275.6 | 258.9 | 2284.8 | 328.4 | 102.6 | 36.7 | 874.2 | 336.2 | 350.3 | 507.4 |
| 403 | HE | 108.0 | 263.8 | 275.0 | 275.0 | 258.3 | 2222.0 | 319.0 | 84.8 | 38.8 | 846.5 | 286.0 | 286.0 | 520.3 |
| 404 | HE | 116.0 | 258.8 | 273.3 | 273.3 | 255.0 | 2460.8 | 403.0 | 46.2 | 51.9 | 1051.5 | 197.2 | 197.2 | 605.1 |
| 405 | HE | 109.0 | 263.1 | 274.5 | 274.5 | 256.9 | 2214.6 | 303.4 | 84.1 | 36.8 | 825.5 | 297.9 | 310.5 | 522.1 |
| 406 | HE | 108.6 | 268.6 | 279.5 | 279.5 | 264.1 | 2110.7 | 310.4 | 70.9 | 43.5 | 867.5 | 252.7 | 257.4 | 454.8 |
| 407 | HE | 107.6 | 251.8 | 257.9 | 258.1 | 245.4 | 2762.0 | 392.1 | 84.6 | 41.2 | 1044.9 | 313.9 | 317.1 | 795.1 |
| 408 | HE | 110.2 | 256.4 | 264.6 | 264.6 | 253.5 | 3780.6 | 571.7 | 85.9 | 47.4 | 1454.4 | 342.1 | 346.6 | 1165.7 |
| 409 | HE | 116.9 | 250.6 | 256.7 | 256.8 | 245.8 | 3275.3 | 494.3 | 75.8 | 47.5 | 1225.2 | 295.9 | 298.1 | 1048.7 |
| 410 | HE | 142.3 | 260.1 | 258.4 | 268.6 | 255.0 | 2187.8 | 337.2 | 19.9 | 61.0 | 933.2 | 112.0 | 304.9 | 179.0 |
| 411 | HE | 103.8 | 267.0 | 277.7 | 277.7 | 262.2 | 2009.8 | 301.7 | 87.2 | 38.7 | 797.7 | 307.0 | 344.7 | 416.8 |
| 412 | HE | 173.6 | 247.0 | 244.8 | 254.2 | 241.8 | 1803.1 | 323.9 | 0.5 | 76.7 | 898.5 | 34.6 | 179.5 | 76.7 |
| 413 | HE | 135.8 | 255.4 | 270.2 | 270.2 | 252.8 | 1880.2 | 392.1 | 43.5 | 64.0 | 897.7 | 161.5 | 161.5 | 443.4 |
| 414 | HE | 105.9 | 263.6 | 272.7 | 272.9 | 257.2 | 2269.8 | 310.6 | 70.6 | 40.8 | 851.3 | 264.4 | 270.7 | 592.4 |
| 415 | HE | 187.8 | 253.8 | 224.8 | 255.3 | 223.1 | 1301.5 | 223.1 | 15.8 | 66.7 | 611.1 | 67.5 | 421.5 | 101.3 |
| 416 | HE | 143.2 | 262.0 | 258.9 | 271.2 | 256.8 | 1621.0 | 270.3 | 9.4 | 64.8 | 715.4 | 62.0 | 399.0 | 115.9 |
| 417 | HE | 176.3 | 270.3 | 222.3 | 270.3 | 222.3 | 3661.1 | 559.0 | 119.5 | 51.0 | 1564.8 | 406.3 | 1486.3 | 406.3 |
| 418 | HE | 105.0 | 264.5 | 271.0 | 271.0 | 262.5 | 2438.0 | 380.5 | 81.0 | 52.5 | 1047.0 | 271.5 | 271.5 | 1029.5 |
| 419 | HE | 178.6 | 261.7 | 230.9 | 262.9 | 230.0 | 1371.0 | 229.2 | 21.3 | 64.4 | 635.7 | 85.3 | 466.3 | 120.5 |
| 420 | HE | 185.0 | 264.0 | 216.5 | 264.0 | 216.5 | 3473.5 | 559.5 | 108.0 | 53.5 | 1500.0 | 355.5 | 1328.5 | 355.5 |
| 421 | HE | 156.0 | 266.8 | 245.2 | 269.7 | 244.4 | 1698.7 | 288.2 | 44.7 | 57.6 | 752.0 | 144.5 | 498.2 | 180.5 |
| 422 | HE | 132.0 | 200.5 | 210.0 | 210.0 | 196.0 | 2918.5 | 309.0 | 195.5 | 15.5 | 850.0 | 617.5 | 617.5 | 805.0 |
| 423 | HE | 176.0 | 270.0 | 222.3 | 270.3 | 222.3 | 3489.3 | 533.0 | 114.0 | 50.3 | 1491.0 | 388.7 | 1423.7 | 388.7 |
| 424 | HE | 114.1 | 199.0 | 203.7 | 204.4 | 198.6 | 2733.1 | 297.1 | 171.4 | 18.7 | 860.7 | 545.4 | 612.4 | 855.3 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 425 | HE | 173.0 | 269.5 | 234.5 | 271.5 | 234.5 | 1853.0 | 312.5 | 42.0 | 58.0 | 835.5 | 141.5 | 580.0 | 141.5 |
| 426 | HE | 212.6 | 104.2 | 83.9 | 110.4 | 82.4 | 877.8 | 165.2 | 8.1 | 74.8 | 443.0 | 33.8 | 277.4 | 41.6 |
| 427 | HE | 222.0 | 65.0 | 41.0 | 68.0 | 38.0 | 761.0 | 148.0 | 7.0 | 78.0 | 411.0 | 26.0 | 212.0 | 37.0 |
| 428 | HE | 130.6 | 181.5 | 176.6 | 187.4 | 176.1 | 1255.9 | 133.5 | 70.8 | 18.0 | 375.4 | 245.9 | 322.8 | 252.7 |
| 429 | HE | 185.6 | 195.0 | 187.9 | 204.7 | 187.2 | 1563.3 | 221.8 | 35.0 | 53.4 | 650.5 | 136.2 | 402.8 | 137.0 |
| 430 | HE | 179.8 | 145.0 | 130.0 | 149.2 | 130.0 | 972.2 | 148.2 | 20.2 | 57.4 | 432.2 | 72.4 | 288.4 | 72.4 |
| 431 | HE | 136.5 | 140.9 | 135.1 | 142.1 | 135.1 | 986.7 | 141.2 | 46.9 | 34.4 | 365.6 | 154.6 | 268.7 | 155.0 |
| 432 | HE | 110.5 | 263.9 | 273.8 | 274.2 | 259.9 | 2108.4 | 377.4 | 59.0 | 55.3 | 967.2 | 239.4 | 240.6 | 383.0 |
| 433 | HE | 173.9 | 269.9 | 229.2 | 270.8 | 229.2 | 2157.3 | 354.3 | 57.6 | 55.2 | 955.6 | 194.2 | 672.6 | 194.2 |
| 434 | HE | 121.7 | 218.0 | 218.6 | 224.9 | 216.1 | 2495.2 | 388.1 | 55.0 | 55.2 | 1104.0 | 197.9 | 549.7 | 488.3 |
| 435 | HE | 116.9 | 258.0 | 272.6 | 272.6 | 254.5 | 2341.1 | 397.0 | 38.4 | 55.0 | 1017.5 | 172.2 | 172.2 | 583.0 |
| 436 | HE | 128.3 | 192.1 | 187.4 | 199.1 | 186.8 | 1318.7 | 139.2 | 78.4 | 16.8 | 394.4 | 269.6 | 333.6 | 272.9 |
| 437 | HE | 114.3 | 256.6 | 252.9 | 262.8 | 250.0 | 2500.0 | 246.5 | 168.1 | 12.1 | 721.9 | 537.9 | 620.7 | 582.4 |
| 438 | HE | 138.7 | 260.6 | 253.0 | 265.3 | 252.1 | 2125.9 | 266.5 | 78.4 | 32.4 | 714.2 | 281.0 | 564.6 | 341.4 |
| 439 | HE | 106.9 | 259.0 | 253.9 | 263.5 | 252.1 | 2945.4 | 326.2 | 166.3 | 19.6 | 936.0 | 581.9 | 674.9 | 592.8 |
| 1 | MP | 114.2 | 258.8 | 257.6 | 262.9 | 252.8 | 2939.0 | 276.9 | 206.1 | 9.0 | 820.7 | 658.9 | 713.8 | 695.2 |
| 2 | MP | 110.3 | 260.1 | 255.4 | 265.4 | 253.6 | 2906.3 | 326.3 | 179.2 | 18.0 | 907.2 | 579.8 | 680.3 | 598.7 |
| 3 | MP | 209.3 | 115.7 | 98.6 | 123.8 | 97.1 | 902.5 | 167.1 | 8.1 | 74.6 | 456.2 | 33.6 | 286.9 | 41.4 |
| 4 | MP | 116.6 | 262.0 | 255.6 | 265.9 | 255.3 | 2570.0 | 293.2 | 125.1 | 25.9 | 828.8 | 420.4 | 648.1 | 420.7 |
| 5 | MP | 135.9 | 236.1 | 230.6 | 243.1 | 230.6 | 1668.0 | 204.6 | 95.4 | 22.4 | 514.8 | 302.8 | 424.9 | 306.1 |
| 6 | MP | 140.5 | 265.5 | 256.7 | 269.0 | 255.8 | 1690.3 | 222.2 | 53.4 | 39.4 | 583.2 | 196.0 | 509.2 | 234.8 |
| 7 | MP | 110.5 | 261.6 | 257.9 | 266.0 | 254.9 | 2994.3 | 316.8 | 206.6 | 13.8 | 900.5 | 645.3 | 719.1 | 667.5 |
| 8 | MP | 131.1 | 167.1 | 173.6 | 175.0 | 162.4 | 1776.9 | 213.4 | 101.4 | 22.0 | 582.3 | 330.9 | 386.4 | 524.6 |
| 9 | MP | 348.1 | 63.6 | 180.4 | 633.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10 | MP | 158.0 | 267.4 | 243.8 | 270.6 | 243.3 | 1646.3 | 285.9 | 38.9 | 57.3 | 730.0 | 156.3 | 446.7 | 183.0 |
| 11 | MP | 169.1 | 262.5 | 222.9 | 263.9 | 222.9 | 2140.0 | 328.4 | 59.2 | 52.3 | 921.3 | 208.7 | 720.6 | 208.7 |
| 12 | MP | 100.9 | 265.4 | 276.0 | 276.1 | 263.9 | 2763.2 | 440.5 | 48.3 | 61.4 | 1256.1 | 176.8 | 213.2 | 1209.9 |
| 13 | MP | 105.8 | 267.9 | 276.9 | 277.2 | 267.0 | 1977.3 | 366.9 | 16.1 | 77.1 | 1018.3 | 64.4 | 67.2 | 883.0 |
| 14 | MP | 108.6 | 266.6 | 273.1 | 275.6 | 266.3 | 2080.8 | 316.4 | 98.1 | 41.9 | 842.3 | 304.5 | 374.8 | 829.9 |
| 15 | MP | 156.7 | 227.8 | 200.1 | 229.5 | 199.8 | 1587.9 | 243.6 | 33.4 | 55.9 | 709.7 | 132.5 | 557.9 | 135.4 |
| 16 | MP | 128.3 | 202.3 | 178.3 | 206.0 | 176.0 | 1412.0 | 218.0 | 25.7 | 58.0 | 623.0 | 104.0 | 467.3 | 112.3 |
| 17 | MP | 97.9 | 264.7 | 275.6 | 275.6 | 263.4 | 1956.3 | 377.8 | 8.6 | 81.6 | 1037.4 | 39.9 | 39.9 | 976.7 |
| 18 | MP | 145.8 | 198.0 | 177.2 | 200.2 | 174.2 | 1183.4 | 217.8 | 15.8 | 67.2 | 585.0 | 72.4 | 386.2 | 81.2 |
| 19 | MP | 99.0 | 265.0 | 277.0 | 279.0 | 263.0 | 2482.0 | 388.0 | 32.0 | 61.0 | 1078.0 | 137.0 | 171.0 | 1022.0 |
| 20 | MP | 133.7 | 254.4 | 257.7 | 260.6 | 252.5 | 1878.7 | 308.6 | 19.1 | 65.4 | 856.5 | 90.1 | 226.9 | 795.0 |
| 21 | MP | 143.4 | 260.7 | 250.6 | 263.3 | 245.7 | 1941.5 | 286.1 | 37.5 | 56.0 | 830.5 | 123.6 | 489.5 | 188.0 |
| 22 | MP | 105.0 | 266.0 | 270.0 | 270.0 | 264.0 | 2692.0 | 404.0 | 97.0 | 51.0 | 1135.0 | 315.0 | 315.0 | 1129.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23 | MP | 146.6 | 259.4 | 262.6 | 266.6 | 258.6 | 1563.4 | 267.8 | 24.8 | 64.8 | 737.8 | 87.4 | 199.6 | 660.6 |
| 24 | MP | 118.3 | 268.3 | 274.1 | 274.9 | 266.3 | 2289.4 | 428.0 | 24.7 | 78.0 | 1202.4 | 90.6 | 129.5 | 1163.1 |
| 25 | MP | 143.3 | 264.3 | 255.7 | 267.0 | 249.7 | 1934.0 | 286.0 | 39.0 | 56.0 | 829.7 | 125.0 | 413.7 | 187.3 |
| 26 | MP | 102.7 | 266.7 | 275.0 | 276.3 | 266.4 | 2450.3 | 325.8 | 81.5 | 43.0 | 936.8 | 288.3 | 335.0 | 861.9 |
| 27 | MP | 102.3 | 268.1 | 277.4 | 278.7 | 267.7 | 2250.3 | 295.7 | 80.9 | 40.4 | 828.8 | 273.9 | 342.4 | 808.5 |
| 28 | MP | 103.6 | 267.0 | 275.0 | 276.3 | 266.5 | 2578.0 | 354.1 | 101.2 | 38.0 | 978.2 | 347.3 | 394.6 | 846.1 |
| 29 | MP | 104.4 | 271.0 | 285.4 | 285.4 | 270.1 | 2297.6 | 372.5 | 45.4 | 57.5 | 1015.9 | 173.0 | 173.0 | 970.5 |
| 30 | MP | 102.0 | 270.0 | 279.0 | 280.0 | 269.0 | 2165.0 | 293.0 | 61.0 | 46.0 | 836.0 | 221.0 | 274.0 | 820.0 |
| 31 | MP | 104.8 | 262.7 | 276.1 | 276.8 | 262.3 | 1743.8 | 298.2 | 32.0 | 67.0 | 846.3 | 114.0 | 115.0 | 826.4 |
| 32 | MP | 104.8 | 265.8 | 274.0 | 275.3 | 265.3 | 2635.4 | 396.4 | 110.1 | 41.8 | 1070.6 | 369.6 | 378.4 | 901.1 |
| 33 | MP | 105.3 | 264.7 | 271.0 | 271.0 | 263.3 | 2459.0 | 373.0 | 84.7 | 51.0 | 1036.3 | 285.3 | 285.3 | 1028.3 |
| 34 | MP | 97.4 | 264.3 | 276.9 | 277.9 | 262.3 | 2405.2 | 388.3 | 23.9 | 66.1 | 1101.0 | 106.1 | 132.8 | 1006.6 |
| 35 | MP | 142.0 | 259.5 | 258.5 | 268.5 | 253.0 | 2076.5 | 304.5 | 19.5 | 60.0 | 898.5 | 102.5 | 321.0 | 255.5 |
| 36 | MP | 144.2 | 254.8 | 258.4 | 261.9 | 254.6 | 1602.3 | 271.7 | 25.3 | 65.6 | 760.7 | 86.1 | 194.6 | 684.8 |
| 37 | MP | 160.6 | 256.5 | 258.2 | 266.2 | 256.4 | 2291.1 | 335.5 | 31.1 | 57.3 | 963.6 | 122.2 | 460.9 | 839.1 |
| 38 | MP | 101.7 | 269.8 | 279.6 | 280.4 | 268.8 | 2194.9 | 289.7 | 69.7 | 43.4 | 831.0 | 242.2 | 301.4 | 815.3 |
| 39 | MP | 146.7 | 241.0 | 211.0 | 242.0 | 210.0 | 1525.7 | 234.3 | 33.3 | 54.3 | 671.3 | 134.0 | 609.3 | 142.0 |
| 40 | MP | 154.0 | 245.0 | 246.8 | 252.7 | 244.7 | 1987.3 | 315.7 | 18.9 | 62.3 | 884.8 | 83.6 | 372.1 | 754.7 |
| 41 | MP | 109.0 | 265.7 | 272.7 | 274.1 | 265.2 | 2193.1 | 322.3 | 102.5 | 39.6 | 864.7 | 326.6 | 381.4 | 844.4 |
| 42 | MP | 175.0 | 271.0 | 241.0 | 272.0 | 228.0 | 1204.5 | 200.5 | 31.5 | 59.5 | 546.5 | 113.0 | 450.5 | 146.0 |
| 43 | MP | 167.0 | 262.0 | 209.5 | 262.0 | 209.5 | 1541.5 | 286.5 | 39.5 | 57.5 | 721.0 | 162.0 | 721.0 | 162.0 |
| 44 | MP | 160.0 | 267.6 | 256.8 | 274.8 | 255.8 | 1682.3 | 265.6 | 14.8 | 65.3 | 758.6 | 66.9 | 382.9 | 120.9 |
| 45 | MP | 165.0 | 268.0 | 253.0 | 273.0 | 252.0 | 1642.0 | 266.0 | 17.3 | 64.3 | 748.7 | 79.0 | 376.0 | 127.7 |
| 46 | MP | 175.0 | 271.0 | 241.0 | 272.0 | 228.0 | 1204.5 | 200.5 | 31.5 | 59.5 | 546.5 | 113.0 | 450.5 | 146.0 |
| 47 | MP | 160.8 | 267.0 | 243.1 | 270.0 | 242.8 | 1612.8 | 280.7 | 36.9 | 57.7 | 716.3 | 140.5 | 463.3 | 176.5 |
| 48 | MP | 165.1 | 257.7 | 220.7 | 259.0 | 220.7 | 1983.3 | 299.3 | 54.3 | 52.1 | 856.0 | 193.4 | 655.8 | 193.4 |
| 49 | MP | 143.3 | 258.1 | 231.8 | 259.8 | 231.8 | 2215.8 | 342.8 | 74.9 | 51.6 | 938.0 | 230.8 | 710.1 | 245.3 |
| 50 | MP | 122.7 | 262.7 | 277.0 | 280.0 | 262.7 | 2878.3 | 432.7 | 59.0 | 52.7 | 1199.7 | 245.3 | 249.7 | 1199.7 |
| 51 | MP | 150.4 | 177.9 | 153.4 | 180.2 | 151.7 | 1217.4 | 209.5 | 18.6 | 64.2 | 576.3 | 81.5 | 398.4 | 87.1 |
| 52 | MP | 172.3 | 239.5 | 194.7 | 239.5 | 190.7 | 1342.6 | 240.3 | 32.2 | 59.0 | 624.9 | 136.4 | 620.0 | 146.8 |
| 53 | MP | 172.1 | 269.9 | 227.2 | 270.1 | 224.7 | 2250.7 | 356.0 | 70.6 | 52.2 | 979.3 | 244.6 | 920.2 | 251.6 |
| 54 | MP | 143.6 | 228.0 | 202.9 | 230.6 | 199.2 | 1734.6 | 262.4 | 51.2 | 52.9 | 743.0 | 173.6 | 567.3 | 190.0 |
| 55 | MP | 133.8 | 257.5 | 245.3 | 259.6 | 244.8 | 2222.1 | 285.0 | 60.7 | 40.3 | 796.9 | 231.0 | 641.8 | 305.6 |
| 56 | MP | 105.3 | 254.6 | 255.3 | 260.1 | 251.4 | 2903.6 | 305.4 | 155.6 | 20.6 | 889.7 | 513.9 | 598.6 | 723.6 |
| 57 | MP | 103.0 | 265.0 | 271.0 | 271.0 | 263.0 | 2263.0 | 347.0 | 70.0 | 52.0 | 975.0 | 248.0 | 282.0 | 947.0 |
| 58 | MP | 104.0 | 264.0 | 271.0 | 271.0 | 263.0 | 2341.0 | 356.0 | 77.0 | 51.0 | 995.0 | 266.0 | 266.0 | 977.0 |
| 59 | MP | 103.0 | 265.0 | 273.0 | 274.0 | 264.0 | 2451.0 | 324.0 | 115.0 | 32.0 | 889.0 | 363.0 | 412.0 | 749.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | MP | 153.0 | 260.0 | 241.0 | 263.0 | 238.0 | 1773.0 | 263.0 | 26.0 | 58.0 | 742.0 | 100.0 | 450.0 | 132.0 |
| 61 | MP | 152.0 | 247.0 | 215.0 | 247.5 | 214.5 | 1701.0 | 251.5 | 44.0 | 52.0 | 736.5 | 164.0 | 664.5 | 179.0 |
| 62 | MP | 113.7 | 257.7 | 269.3 | 272.8 | 257.1 | 1559.4 | 335.5 | 35.2 | 78.3 | 864.2 | 126.1 | 150.4 | 786.7 |
| 63 | MP | 88.2 | 264.5 | 263.3 | 272.6 | 260.2 | 2622.3 | 368.3 | 111.1 | 38.4 | 963.2 | 397.0 | 489.1 | 465.4 |
| 64 | MP | 124.9 | 249.0 | 257.2 | 258.6 | 248.6 | 3023.8 | 418.3 | 121.7 | 37.9 | 1156.5 | 420.3 | 489.8 | 1086.4 |
| 65 | MP | 102.0 | 262.0 | 272.0 | 272.0 | 258.0 | 3398.0 | 545.0 | 60.0 | 52.0 | 1369.0 | 266.0 | 268.0 | 1046.0 |
| 66 | MP | 103.0 | 266.0 | 272.0 | 272.0 | 256.0 | 2234.0 | 368.0 | 51.0 | 50.0 | 927.0 | 211.0 | 211.0 | 612.0 |
| 67 | MP | 130.9 | 182.7 | 176.7 | 189.3 | 176.4 | 1259.7 | 143.5 | 70.3 | 21.1 | 385.7 | 233.2 | 335.3 | 234.8 |
| 68 | MP | 185.2 | 126.0 | 113.8 | 133.7 | 113.8 | 1041.6 | 159.9 | 20.3 | 56.7 | 461.1 | 79.1 | 318.0 | 80.2 |
| 69 | MP | 153.3 | 220.0 | 213.3 | 225.0 | 213.3 | 2452.9 | 345.4 | 80.2 | 45.8 | 984.7 | 265.9 | 600.9 | 269.5 |
| 70 | MP | 117.4 | 254.1 | 266.2 | 267.6 | 253.1 | 1916.4 | 338.7 | 62.4 | 61.8 | 922.5 | 202.5 | 212.1 | 893.2 |
| 71 | MP | 133.0 | 269.0 | 288.3 | 292.7 | 269.0 | 2512.7 | 418.0 | 36.7 | 62.0 | 1158.3 | 172.0 | 175.7 | 1158.3 |
| 72 | MP | 133.0 | 269.0 | 288.0 | 292.5 | 269.0 | 2528.0 | 418.5 | 37.0 | 61.5 | 1162.0 | 174.5 | 177.5 | 1162.0 |
| 73 | MP | 112.0 | 245.5 | 251.5 | 253.5 | 242.5 | 3252.0 | 328.0 | 209.0 | 14.5 | 965.0 | 677.0 | 788.0 | 822.5 |
| 74 | MP | 157.3 | 250.7 | 233.8 | 253.4 | 233.8 | 1894.7 | 255.3 | 32.5 | 55.1 | 757.9 | 120.2 | 655.1 | 120.2 |
| 75 | MP | 103.8 | 253.6 | 255.4 | 258.6 | 248.8 | 3513.1 | 358.9 | 227.4 | 14.0 | 1002.3 | 715.6 | 773.3 | 932.4 |
| 76 | MP | 123.3 | 259.9 | 262.9 | 267.7 | 258.6 | 1599.2 | 339.2 | 28.4 | 81.5 | 874.9 | 89.1 | 126.2 | 379.9 |
| 77 | MP | 185.0 | 242.0 | 237.3 | 247.7 | 235.3 | 1925.0 | 328.7 | 6.0 | 74.0 | 934.3 | 40.0 | 230.7 | 82.0 |
| 78 | MP | 204.6 | 237.7 | 241.0 | 249.6 | 236.3 | 2437.3 | 409.2 | 10.3 | 70.2 | 1104.0 | 38.4 | 364.1 | 1099.2 |
| 79 | MP | 129.0 | 209.3 | 213.7 | 219.7 | 204.7 | 2937.7 | 342.7 | 168.7 | 19.7 | 934.0 | 552.0 | 644.0 | 870.7 |
| 80 | MP | 129.7 | 176.0 | 183.7 | 187.0 | 173.7 | 2677.3 | 339.0 | 139.3 | 26.0 | 917.3 | 465.3 | 564.3 | 880.7 |
| 81 | MP | 176.9 | 250.4 | 240.3 | 253.7 | 237.6 | 1594.1 | 260.9 | 8.0 | 68.5 | 735.5 | 48.5 | 374.1 | 95.4 |
| 82 | MP | 118.0 | 248.9 | 261.8 | 262.0 | 246.3 | 2135.8 | 360.9 | 45.2 | 54.1 | 914.0 | 162.4 | 214.0 | 686.8 |
| 83 | MP | 103.4 | 261.1 | 269.9 | 270.6 | 260.7 | 2954.9 | 383.3 | 161.9 | 23.6 | 968.8 | 541.2 | 693.5 | 863.4 |
| 84 | MP | 204.3 | 248.9 | 233.5 | 254.2 | 230.7 | 1807.0 | 313.5 | 1.4 | 79.0 | 915.3 | 21.1 | 446.9 | 52.4 |
| 85 | MP | 116.6 | 265.1 | 274.7 | 276.8 | 264.4 | 1774.4 | 332.8 | 48.8 | 67.5 | 897.5 | 161.7 | 208.5 | 823.1 |
| 86 | MP | 125.4 | 254.0 | 268.5 | 268.6 | 252.8 | 2114.5 | 383.6 | 61.6 | 57.0 | 973.9 | 213.2 | 221.5 | 622.8 |
| 87 | MP | 147.9 | 256.2 | 252.3 | 266.0 | 250.2 | 2258.7 | 360.9 | 19.6 | 64.4 | 1019.1 | 86.3 | 489.9 | 172.0 |
| 88 | MP | 112.0 | 266.8 | 279.3 | 280.9 | 266.0 | 2545.1 | 406.5 | 92.6 | 49.2 | 1109.0 | 316.8 | 317.5 | 900.7 |
| 89 | MP | 124.4 | 259.9 | 275.6 | 279.3 | 255.6 | 2750.7 | 368.6 | 51.3 | 43.8 | 1048.0 | 285.7 | 289.4 | 1023.0 |
| 90 | MP | 149.1 | 249.9 | 253.9 | 261.5 | 249.9 | 2221.4 | 344.2 | 18.5 | 61.3 | 971.8 | 94.2 | 453.0 | 971.8 |
| 91 | MP | 135.5 | 259.5 | 263.1 | 269.9 | 259.5 | 2213.1 | 311.1 | 48.3 | 51.0 | 900.1 | 191.6 | 301.0 | 900.1 |
| 92 | MP | 109.8 | 255.0 | 266.0 | 266.5 | 251.2 | 2529.1 | 349.3 | 55.7 | 51.1 | 1018.8 | 189.5 | 252.1 | 927.2 |
| 93 | MP | 110.4 | 255.1 | 262.7 | 263.5 | 255.0 | 2407.5 | 339.5 | 119.8 | 34.6 | 908.5 | 391.2 | 463.0 | 890.4 |
| 94 | MP | 110.9 | 266.6 | 273.5 | 277.2 | 266.5 | 1894.1 | 328.5 | 61.8 | 58.6 | 897.4 | 196.0 | 307.9 | 882.2 |
| 95 | MP | 132.3 | 260.6 | 260.8 | 267.9 | 258.4 | 2323.7 | 340.2 | 33.7 | 54.5 | 953.9 | 143.0 | 385.0 | 249.8 |
| 96 | MP | 144.6 | 256.7 | 254.3 | 265.4 | 250.5 | 2187.3 | 333.2 | 24.3 | 60.7 | 947.8 | 91.0 | 316.4 | 180.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | MP | 138.1 | 242.2 | 245.4 | 248.3 | 240.1 | 1893.7 | 299.2 | 20.3 | 62.2 | 831.4 | 95.0 | 254.0 | 774.9 |
| 98 | MP | 112.3 | 264.2 | 272.9 | 273.2 | 261.5 | 2260.1 | 335.9 | 55.8 | 55.5 | 975.4 | 193.5 | 199.0 | 856.7 |
| 99 | MP | 160.1 | 258.3 | 259.3 | 267.2 | 258.1 | 2248.6 | 330.2 | 30.5 | 57.1 | 960.4 | 118.8 | 449.3 | 770.3 |
| 100 | MP | 132.2 | 262.9 | 266.4 | 273.4 | 261.5 | 2256.5 | 317.3 | 62.7 | 48.0 | 890.1 | 211.8 | 391.1 | 883.8 |
| 101 | MP | 130.2 | 254.3 | 260.0 | 266.7 | 253.3 | 2238.0 | 344.1 | 53.3 | 52.7 | 933.0 | 196.2 | 396.3 | 924.9 |
| 102 | MP | 148.5 | 257.1 | 257.0 | 267.1 | 254.7 | 2165.3 | 339.9 | 23.2 | 61.6 | 922.8 | 99.0 | 311.9 | 189.2 |
| 103 | MP | 136.6 | 261.3 | 255.2 | 265.8 | 252.5 | 2013.8 | 288.7 | 23.9 | 58.2 | 827.6 | 109.7 | 486.8 | 156.7 |
| 104 | MP | 137.5 | 245.7 | 248.3 | 251.8 | 244.0 | 1912.2 | 294.9 | 19.5 | 61.3 | 846.4 | 104.3 | 254.5 | 821.8 |
| 105 | MP | 138.8 | 260.1 | 264.2 | 271.5 | 260.1 | 2336.0 | 325.0 | 52.9 | 49.9 | 930.2 | 189.8 | 423.8 | 930.2 |
| 106 | MP | 145.8 | 259.1 | 255.2 | 267.4 | 252.9 | 2165.1 | 334.1 | 21.9 | 62.2 | 938.6 | 98.1 | 466.8 | 174.2 |
| 107 | MP | 177.6 | 251.2 | 253.3 | 261.5 | 251.0 | 2279.3 | 353.7 | 18.1 | 64.5 | 993.3 | 78.1 | 430.9 | 989.9 |
| 108 | MP | 152.7 | 254.5 | 251.0 | 263.4 | 248.8 | 2333.5 | 382.5 | 14.5 | 66.3 | 1073.8 | 79.4 | 470.2 | 167.8 |
| 109 | MP | 159.3 | 255.3 | 255.0 | 263.1 | 254.2 | 2247.5 | 336.2 | 21.7 | 56.7 | 940.5 | 110.9 | 377.4 | 235.8 |
| 110 | MP | 154.2 | 253.6 | 238.2 | 255.6 | 238.0 | 1822.4 | 261.2 | 20.3 | 60.6 | 771.5 | 81.7 | 629.4 | 132.9 |
| 111 | MP | 144.9 | 254.9 | 243.4 | 256.8 | 242.2 | 2209.1 | 330.4 | 40.6 | 54.4 | 940.6 | 161.7 | 502.1 | 238.4 |
| 112 | MP | 111.6 | 251.4 | 264.9 | 266.2 | 250.8 | 1771.1 | 271.6 | 50.9 | 53.4 | 786.1 | 190.2 | 208.6 | 639.2 |
| 113 | MP | 122.8 | 263.8 | 268.4 | 273.5 | 263.0 | 2292.3 | 317.2 | 69.4 | 48.7 | 915.9 | 240.5 | 304.0 | 904.4 |
| 114 | MP | 141.3 | 257.0 | 246.9 | 259.3 | 245.2 | 2162.2 | 324.7 | 32.9 | 55.5 | 922.8 | 137.0 | 499.8 | 228.6 |
| 115 | MP | 119.4 | 256.3 | 264.7 | 266.5 | 254.5 | 1841.7 | 330.7 | 43.5 | 65.9 | 922.2 | 177.8 | 241.6 | 825.3 |
| 116 | MP | 144.6 | 257.1 | 245.3 | 259.7 | 244.6 | 1897.5 | 268.9 | 25.7 | 58.5 | 788.8 | 105.7 | 623.4 | 154.6 |
| 117 | MP | 154.8 | 254.5 | 238.8 | 256.1 | 238.1 | 1827.3 | 265.9 | 20.5 | 59.9 | 775.8 | 83.0 | 619.4 | 137.3 |
| 118 | MP | 109.3 | 265.1 | 279.1 | 279.1 | 264.2 | 2368.0 | 414.2 | 60.3 | 56.2 | 1050.0 | 219.9 | 219.9 | 937.8 |
| 119 | MP | 122.0 | 253.7 | 261.8 | 266.1 | 252.7 | 1867.5 | 302.6 | 49.3 | 59.3 | 829.7 | 165.0 | 205.8 | 791.3 |
| 120 | MP | 133.3 | 249.0 | 252.1 | 255.4 | 247.3 | 1900.8 | 304.5 | 19.1 | 64.3 | 866.2 | 98.0 | 229.0 | 846.0 |
| 121 | MP | 106.7 | 264.6 | 263.1 | 268.3 | 260.6 | 2643.9 | 327.5 | 107.4 | 32.9 | 910.5 | 370.2 | 565.3 | 516.3 |
| 122 | MP | 170.2 | 257.4 | 255.9 | 264.6 | 255.2 | 2279.8 | 361.0 | 15.7 | 60.8 | 1001.5 | 99.2 | 372.4 | 177.9 |
| 123 | MP | 122.6 | 262.5 | 262.1 | 268.0 | 260.5 | 2553.4 | 327.6 | 56.2 | 46.3 | 960.8 | 219.1 | 482.2 | 334.2 |
| 124 | MP | 168.8 | 255.2 | 252.5 | 261.6 | 251.3 | 2296.3 | 366.3 | 13.0 | 64.3 | 1028.5 | 77.2 | 343.5 | 149.6 |
| 125 | MP | 109.0 | 266.2 | 279.1 | 279.2 | 265.3 | 2319.4 | 380.2 | 75.0 | 51.3 | 1018.7 | 259.3 | 259.3 | 841.0 |
| 126 | MP | 160.0 | 252.0 | 249.0 | 260.0 | 247.0 | 2310.0 | 362.0 | 6.0 | 67.0 | 1024.0 | 59.0 | 322.0 | 138.0 |
| 127 | MP | 164.0 | 250.0 | 248.0 | 258.0 | 245.0 | 2154.0 | 348.0 | 4.0 | 69.0 | 999.0 | 52.0 | 277.0 | 114.0 |
| 128 | MP | 150.8 | 256.1 | 254.9 | 265.5 | 252.9 | 2186.8 | 345.2 | 21.8 | 62.0 | 943.5 | 95.7 | 387.7 | 175.7 |
| 129 | MP | 140.6 | 259.0 | 258.1 | 267.8 | 253.0 | 2121.5 | 317.6 | 17.5 | 60.7 | 916.5 | 107.9 | 313.1 | 162.8 |
| 130 | MP | 160.0 | 252.0 | 248.0 | 260.0 | 246.0 | 2301.0 | 361.0 | 8.0 | 67.0 | 1025.0 | 65.0 | 322.0 | 141.0 |
| 131 | MP | 160.4 | 251.2 | 248.2 | 259.2 | 245.6 | 2305.4 | 361.0 | 5.6 | 67.0 | 1018.4 | 56.4 | 323.0 | 134.2 |
| 132 | MP | 159.0 | 252.0 | 249.0 | 260.0 | 247.0 | 2307.0 | 362.0 | 7.0 | 67.0 | 1027.0 | 63.0 | 322.0 | 140.0 |
| 133 | MP | 142.0 | 259.0 | 257.3 | 267.3 | 252.0 | 2072.7 | 298.7 | 22.3 | 59.7 | 885.0 | 101.3 | 320.0 | 347.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 134 | MP | 160.0 | 252.0 | 249.0 | 260.0 | 246.0 | 2306.0 | 359.0 | 5.0 | 67.0 | 1018.0 | 55.0 | 322.0 | 135.0 |
| 135 | MP | 115.6 | 255.4 | 265.8 | 266.2 | 251.6 | 2784.5 | 411.6 | 49.9 | 54.4 | 1141.0 | 191.5 | 222.8 | 1023.1 |
| 136 | MP | 157.2 | 248.9 | 252.2 | 259.6 | 248.9 | 2139.7 | 338.7 | 9.8 | 62.6 | 949.9 | 80.2 | 456.3 | 948.8 |
| 137 | MP | 163.9 | 253.0 | 251.7 | 260.9 | 250.1 | 2332.1 | 375.8 | 12.2 | 67.4 | 1059.8 | 65.7 | 312.8 | 138.7 |
| 138 | MP | 114.6 | 264.8 | 273.3 | 275.5 | 264.2 | 2240.1 | 301.9 | 80.8 | 46.0 | 897.5 | 267.7 | 280.4 | 892.3 |
| 139 | MP | 113.0 | 251.2 | 264.2 | 265.4 | 249.5 | 2068.3 | 320.0 | 51.6 | 50.8 | 865.9 | 191.7 | 248.7 | 697.3 |
| 140 | MP | 104.0 | 266.6 | 275.3 | 276.7 | 266.0 | 2523.3 | 344.6 | 112.8 | 34.8 | 948.9 | 364.5 | 399.3 | 776.1 |
| 141 | MP | 171.4 | 254.5 | 252.2 | 261.3 | 251.2 | 2250.6 | 359.5 | 13.8 | 62.9 | 992.6 | 84.1 | 344.5 | 155.2 |
| 142 | MP | 125.0 | 260.4 | 262.1 | 268.2 | 259.9 | 2360.7 | 333.7 | 49.9 | 50.7 | 961.4 | 186.0 | 351.0 | 494.6 |
| 143 | MP | 119.6 | 261.1 | 275.2 | 275.3 | 260.2 | 2366.3 | 376.9 | 95.6 | 49.2 | 1045.5 | 302.1 | 304.6 | 719.4 |
| 144 | MP | 107.2 | 256.7 | 264.9 | 264.9 | 249.7 | 2531.3 | 350.2 | 95.9 | 36.8 | 955.6 | 327.3 | 355.4 | 638.0 |
| 145 | MP | 122.3 | 264.5 | 262.5 | 270.3 | 256.4 | 1417.7 | 208.5 | 60.0 | 37.2 | 545.5 | 213.9 | 320.1 | 272.3 |
| 146 | MP | 120.5 | 252.8 | 254.8 | 264.9 | 251.4 | 1444.3 | 243.7 | 24.6 | 64.4 | 715.7 | 104.0 | 240.2 | 143.9 |
| 147 | MP | 118.4 | 256.2 | 256.4 | 266.4 | 253.4 | 1477.0 | 236.4 | 33.8 | 54.8 | 675.2 | 140.6 | 262.6 | 188.2 |
| 148 | MP | 142.2 | 261.1 | 283.6 | 286.5 | 261.1 | 2492.7 | 439.4 | 18.4 | 72.9 | 1244.1 | 94.2 | 233.3 | 1244.1 |
| 149 | MP | 120.2 | 229.3 | 229.3 | 236.6 | 226.8 | 2155.0 | 337.0 | 49.3 | 54.7 | 960.0 | 180.8 | 458.6 | 348.6 |
| 150 | MP | 124.3 | 254.6 | 257.0 | 266.6 | 253.6 | 1541.1 | 308.4 | 19.1 | 77.4 | 835.4 | 70.9 | 236.0 | 94.0 |
| 151 | MP | 126.7 | 248.8 | 251.5 | 257.5 | 247.8 | 2658.2 | 434.8 | 40.5 | 64.6 | 1236.5 | 157.5 | 514.5 | 578.5 |
| 152 | MP | 109.3 | 260.0 | 257.0 | 265.8 | 252.8 | 1849.4 | 266.8 | 72.7 | 37.8 | 696.3 | 254.2 | 432.7 | 333.1 |
| 153 | MP | 119.6 | 253.7 | 257.3 | 265.4 | 253.6 | 2046.9 | 379.1 | 28.5 | 75.1 | 1086.7 | 102.1 | 318.7 | 971.2 |
| 154 | MP | 134.9 | 247.0 | 264.1 | 267.7 | 246.8 | 2979.3 | 491.6 | 44.3 | 61.9 | 1366.6 | 196.3 | 272.6 | 1364.8 |
| 155 | MP | 130.0 | 308.9 | 310.4 | 324.8 | 302.5 | 1262.6 | 347.0 | 15.1 | 105.8 | 834.5 | 83.0 | 92.1 | 84.6 |
| 156 | MP | 103.0 | 261.0 | 271.0 | 271.0 | 258.0 | 3365.0 | 536.0 | 59.0 | 52.0 | 1350.0 | 264.0 | 264.0 | 1027.0 |
| 157 | MP | 133.0 | 264.0 | 283.0 | 286.0 | 264.0 | 2976.0 | 481.0 | 49.0 | 59.0 | 1344.0 | 222.0 | 231.0 | 1344.0 |
| 158 | MP | 168.5 | 247.8 | 210.8 | 248.3 | 197.5 | 1231.3 | 177.0 | 30.5 | 44.3 | 489.3 | 140.3 | 462.3 | 180.0 |
| 159 | MP | 123.7 | 237.5 | 241.2 | 245.9 | 236.4 | 2991.7 | 468.1 | 65.2 | 55.9 | 1317.7 | 246.1 | 549.8 | 849.8 |
| 160 | MP | 100.6 | 271.2 | 281.0 | 281.0 | 266.2 | 1875.0 | 283.6 | 64.0 | 45.0 | 784.4 | 241.2 | 256.4 | 364.6 |
| 161 | MP | 104.0 | 265.2 | 276.2 | 276.2 | 260.4 | 1989.8 | 300.0 | 80.0 | 38.8 | 756.0 | 280.6 | 301.2 | 459.0 |
| 162 | MP | 107.0 | 264.0 | 274.7 | 274.7 | 257.5 | 2137.7 | 318.8 | 83.5 | 42.0 | 847.8 | 271.3 | 317.5 | 492.2 |
| 163 | MP | 110.0 | 254.4 | 266.8 | 266.8 | 249.4 | 2390.8 | 346.8 | 71.5 | 41.3 | 923.8 | 269.6 | 269.6 | 580.4 |
| 164 | MP | 150.4 | 253.5 | 241.5 | 256.5 | 241.0 | 1990.5 | 259.9 | 46.8 | 50.2 | 765.3 | 161.4 | 635.4 | 187.5 |
| 165 | MP | 120.8 | 262.4 | 270.4 | 274.1 | 262.0 | 2263.6 | 327.4 | 71.4 | 49.1 | 924.9 | 243.3 | 285.5 | 923.6 |
| 166 | MP | 172.0 | 225.7 | 186.2 | 225.7 | 180.8 | 1229.4 | 198.7 | 30.4 | 53.1 | 540.8 | 141.5 | 539.4 | 165.0 |
| 167 | MP | 102.8 | 268.6 | 276.6 | 277.8 | 268.2 | 2558.1 | 343.2 | 85.9 | 42.5 | 985.1 | 305.3 | 356.7 | 856.9 |
| 168 | MP | 139.7 | 246.4 | 221.8 | 248.3 | 221.7 | 3053.4 | 462.3 | 109.7 | 48.8 | 1271.1 | 356.0 | 1015.9 | 359.6 |
| 169 | MP | 118.6 | 249.1 | 257.9 | 258.0 | 244.3 | 2412.3 | 366.4 | 59.7 | 46.4 | 957.6 | 220.7 | 226.5 | 732.4 |
| 170 | MP | 158.4 | 254.2 | 253.3 | 262.4 | 251.7 | 2414.2 | 377.9 | 16.4 | 65.1 | 1071.5 | 79.0 | 336.3 | 162.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | MP | 121.8 | 217.6 | 218.1 | 224.5 | 215.7 | 2501.1 | 388.7 | 55.3 | 55.1 | 1105.0 | 198.6 | 553.1 | 488.6 |
| 172 | MP | 200.1 | 207.5 | 164.9 | 210.8 | 164.2 | 1876.5 | 322.7 | 52.8 | 63.9 | 856.1 | 184.6 | 680.7 | 192.4 |
| 173 | MP | 119.8 | 147.1 | 150.3 | 152.1 | 143.2 | 1851.1 | 200.2 | 114.3 | 18.1 | 566.6 | 368.2 | 399.4 | 526.8 |
| 174 | MP | 152.3 | 238.4 | 231.8 | 244.1 | 231.5 | 2037.6 | 237.2 | 95.7 | 27.8 | 650.6 | 311.6 | 600.3 | 329.2 |
| 175 | MP | 122.3 | 248.8 | 257.3 | 257.4 | 244.0 | 2422.8 | 372.5 | 58.7 | 47.6 | 964.9 | 214.4 | 233.6 | 756.3 |
| 176 | MP | 121.2 | 258.4 | 267.7 | 267.7 | 254.7 | 3511.2 | 569.9 | 39.0 | 60.8 | 1495.6 | 180.6 | 181.8 | 1266.1 |
| 177 | MP | 144.8 | 254.6 | 258.6 | 266.3 | 254.6 | 2529.8 | 389.4 | 41.1 | 56.3 | 1052.3 | 148.9 | 523.3 | 1052.3 |
| 178 | MP | 113.4 | 250.8 | 264.8 | 265.2 | 248.7 | 2710.5 | 326.2 | 132.5 | 28.3 | 941.5 | 419.4 | 478.3 | 861.4 |
| 179 | MP | 126.6 | 210.7 | 215.2 | 221.2 | 206.2 | 2912.2 | 346.5 | 166.2 | 20.7 | 938.9 | 544.1 | 641.1 | 866.2 |
| 180 | MP | 105.1 | 263.9 | 270.2 | 271.3 | 262.9 | 2634.8 | 338.0 | 142.3 | 29.0 | 925.3 | 444.9 | 460.1 | 839.2 |
| 181 | MP | 174.2 | 256.5 | 254.6 | 263.8 | 254.1 | 2271.8 | 365.7 | 14.9 | 62.5 | 1007.1 | 92.3 | 365.3 | 176.1 |
| 182 | MP | 107.5 | 241.4 | 248.3 | 248.4 | 235.0 | 2959.2 | 452.3 | 99.8 | 43.0 | 1214.2 | 376.6 | 400.8 | 611.6 |
| 183 | MP | 126.5 | 135.6 | 144.9 | 146.2 | 131.5 | 1716.3 | 222.6 | 84.0 | 28.0 | 590.0 | 285.5 | 354.9 | 567.0 |
| 184 | MP | 144.3 | 223.7 | 197.7 | 226.3 | 197.3 | 1906.3 | 294.4 | 53.6 | 54.4 | 823.0 | 179.1 | 610.4 | 191.3 |
| 185 | MP | 153.9 | 236.2 | 226.2 | 241.5 | 225.1 | 2245.9 | 305.9 | 70.8 | 46.8 | 874.9 | 237.6 | 670.7 | 244.8 |
| 186 | MP | 137.0 | 260.1 | 258.3 | 267.7 | 254.8 | 2045.3 | 301.2 | 22.1 | 58.8 | 857.4 | 105.8 | 358.6 | 169.1 |
| 187 | MP | 120.6 | 249.8 | 260.3 | 260.6 | 245.9 | 2413.1 | 371.8 | 54.8 | 50.6 | 987.4 | 191.7 | 237.1 | 802.0 |
| 188 | MP | 118.4 | 198.7 | 196.6 | 205.3 | 196.1 | 1752.4 | 285.3 | 51.3 | 52.8 | 795.1 | 213.9 | 311.2 | 257.4 |
| 189 | MP | 116.8 | 259.6 | 262.9 | 267.8 | 259.5 | 2519.2 | 354.4 | 55.7 | 49.3 | 984.0 | 210.6 | 376.7 | 977.2 |
| 190 | MP | 108.8 | 193.0 | 197.8 | 198.6 | 191.5 | 2684.1 | 337.4 | 128.5 | 31.6 | 962.0 | 409.7 | 536.4 | 918.5 |
| 191 | MP | 107.3 | 258.1 | 253.3 | 261.1 | 250.9 | 2790.7 | 304.7 | 156.5 | 20.7 | 859.4 | 498.0 | 695.7 | 613.2 |
| 192 | MP | 104.4 | 262.7 | 260.9 | 265.5 | 253.3 | 3011.5 | 330.7 | 196.8 | 17.3 | 965.7 | 645.2 | 671.5 | 684.4 |
| 193 | MP | 106.6 | 152.9 | 153.1 | 156.3 | 150.1 | 1901.1 | 201.6 | 118.9 | 17.0 | 558.2 | 392.0 | 526.2 | 456.9 |
| 194 | MP | 106.7 | 201.0 | 204.1 | 206.4 | 197.1 | 2043.9 | 242.8 | 77.1 | 30.1 | 667.9 | 287.8 | 377.7 | 568.9 |
| 195 | MP | 108.5 | 142.0 | 146.0 | 148.5 | 138.0 | 2496.5 | 325.5 | 111.5 | 32.5 | 899.0 | 377.5 | 645.5 | 771.0 |
| 196 | MP | 111.0 | 250.0 | 263.0 | 263.2 | 247.3 | 2816.4 | 335.3 | 122.7 | 30.0 | 963.1 | 405.8 | 470.9 | 909.7 |
| 197 | MP | 101.9 | 256.9 | 253.1 | 260.8 | 250.3 | 3215.0 | 346.1 | 175.5 | 20.1 | 1011.5 | 602.7 | 786.5 | 691.9 |
| 198 | MP | 110.5 | 195.1 | 199.9 | 200.6 | 194.2 | 2982.4 | 367.8 | 163.1 | 28.1 | 1040.0 | 505.9 | 608.2 | 995.3 |
| 199 | MP | 116.0 | 256.7 | 268.9 | 270.8 | 252.0 | 2722.5 | 343.3 | 68.9 | 36.6 | 945.4 | 321.6 | 375.9 | 900.3 |
| 200 | MP | 126.6 | 251.8 | 265.0 | 268.6 | 248.2 | 2734.0 | 360.0 | 43.7 | 45.1 | 1031.1 | 243.7 | 286.3 | 969.2 |
| 201 | MP | 101.6 | 108.1 | 109.9 | 114.2 | 105.1 | 1985.7 | 257.3 | 57.3 | 38.2 | 723.1 | 227.5 | 482.5 | 621.5 |
| 202 | MP | 126.4 | 257.5 | 264.2 | 267.0 | 251.7 | 2974.7 | 381.2 | 77.3 | 37.4 | 1081.0 | 332.7 | 459.8 | 922.9 |
| 203 | MP | 102.1 | 259.2 | 256.1 | 261.9 | 250.7 | 3045.8 | 330.7 | 192.4 | 17.1 | 948.8 | 617.6 | 697.2 | 680.4 |
| 204 | MP | 184.1 | 245.0 | 225.0 | 247.4 | 223.2 | 1575.5 | 279.6 | 13.4 | 69.3 | 747.2 | 61.0 | 368.3 | 98.9 |
| 205 | MP | 193.8 | 174.3 | 166.2 | 185.4 | 165.5 | 1502.5 | 213.8 | 32.2 | 51.6 | 624.3 | 135.6 | 398.0 | 139.2 |
| 206 | MP | 167.4 | 244.5 | 240.7 | 251.5 | 237.5 | 1900.3 | 303.1 | 17.6 | 62.6 | 865.1 | 81.4 | 286.2 | 139.6 |
| 207 | MP | 116.0 | 238.8 | 245.1 | 246.5 | 238.4 | 2450.7 | 347.2 | 113.5 | 34.4 | 917.0 | 386.7 | 471.0 | 823.5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 208 | MP | 106.5 | 256.0 | 263.6 | 264.4 | 255.3 | 2904.6 | 353.0 | 174.3 | 21.7 | 951.0 | 573.2 | 631.1 | 914.4 |
| 209 | MP | 125.9 | 156.6 | 152.4 | 159.4 | 149.4 | 1322.9 | 166.2 | 73.6 | 26.6 | 456.2 | 243.0 | 296.7 | 267.8 |
| 210 | MP | 166.5 | 169.3 | 157.2 | 173.3 | 157.2 | 1058.1 | 156.3 | 31.7 | 47.5 | 405.9 | 97.6 | 328.2 | 97.6 |
| 211 | MP | 182.9 | 251.7 | 252.1 | 260.9 | 251.2 | 2412.2 | 360.2 | 17.5 | 64.5 | 1051.4 | 76.1 | 409.7 | 669.5 |
| 212 | MP | 125.6 | 142.6 | 148.9 | 150.0 | 138.6 | 1975.2 | 255.7 | 104.6 | 27.6 | 675.0 | 342.4 | 388.6 | 637.5 |
| 213 | MP | 161.2 | 258.8 | 252.1 | 266.3 | 250.2 | 1597.7 | 255.7 | 8.5 | 64.2 | 726.3 | 53.9 | 356.0 | 116.5 |
| 214 | MP | 112.7 | 260.8 | 268.8 | 270.8 | 260.6 | 1889.3 | 308.3 | 66.9 | 52.8 | 846.0 | 221.0 | 286.0 | 802.5 |
| 215 | MP | 139.2 | 257.9 | 248.1 | 261.8 | 247.5 | 2081.7 | 285.1 | 55.3 | 43.4 | 758.9 | 207.9 | 574.1 | 277.6 |
| 216 | MP | 143.9 | 245.0 | 248.1 | 253.8 | 245.0 | 1880.0 | 316.5 | 23.2 | 62.2 | 863.5 | 99.2 | 283.9 | 863.5 |
| 217 | MP | 114.6 | 247.2 | 255.4 | 256.0 | 247.0 | 3031.3 | 375.8 | 175.6 | 24.0 | 1031.3 | 577.3 | 605.5 | 979.8 |
| 218 | MP | 125.6 | 181.2 | 187.8 | 190.0 | 179.0 | 3354.6 | 393.4 | 187.1 | 24.6 | 1116.2 | 600.1 | 663.7 | 1056.1 |
| 219 | MP | 157.0 | 221.0 | 214.0 | 226.5 | 214.0 | 1666.0 | 223.5 | 60.0 | 42.5 | 626.5 | 184.0 | 527.0 | 184.0 |
| 220 | MP | 217.1 | 84.7 | 57.6 | 92.5 | 57.5 | 1007.7 | 196.3 | 17.0 | 68.7 | 503.3 | 71.0 | 300.1 | 74.8 |
| 221 | MP | 113.8 | 266.1 | 274.9 | 277.5 | 265.5 | 1862.7 | 342.9 | 53.3 | 63.5 | 918.4 | 177.0 | 252.2 | 838.6 |
| 222 | MP | 180.3 | 173.2 | 148.3 | 175.4 | 148.2 | 970.1 | 185.0 | 13.0 | 70.4 | 498.4 | 57.1 | 396.7 | 57.9 |
| 223 | MP | 178.3 | 264.3 | 221.5 | 265.2 | 220.5 | 2973.1 | 466.2 | 86.4 | 52.9 | 1277.2 | 294.6 | 1090.8 | 295.1 |
| 224 | MP | 129.5 | 128.3 | 123.6 | 129.7 | 123.6 | 1008.7 | 163.6 | 39.1 | 47.3 | 432.0 | 130.5 | 225.1 | 132.6 |
| 225 | MP | 168.6 | 190.7 | 178.2 | 194.4 | 178.2 | 1578.8 | 224.3 | 43.5 | 51.5 | 649.8 | 147.5 | 442.9 | 147.8 |
| 226 | MP | 133.1 | 263.4 | 278.6 | 280.8 | 262.4 | 3227.5 | 475.9 | 70.4 | 53.1 | 1372.1 | 266.3 | 300.0 | 1290.1 |
| 227 | MP | 112.0 | 246.4 | 256.5 | 257.4 | 244.4 | 2946.2 | 322.5 | 180.7 | 18.6 | 912.9 | 554.0 | 634.8 | 832.6 |
| 228 | MP | 151.6 | 254.3 | 240.5 | 256.8 | 240.3 | 1872.2 | 264.7 | 21.4 | 59.8 | 782.6 | 94.2 | 655.7 | 132.6 |
| 229 | MP | 180.7 | 246.3 | 232.0 | 248.8 | 229.7 | 1570.3 | 270.8 | 10.1 | 69.8 | 741.1 | 53.0 | 378.6 | 91.0 |
| 230 | MP | 201.9 | 248.7 | 250.2 | 260.9 | 248.1 | 2373.8 | 393.0 | 11.1 | 69.9 | 1091.6 | 50.2 | 342.9 | 952.8 |
| 231 | MP | 150.2 | 253.9 | 250.4 | 262.4 | 248.4 | 1816.4 | 278.5 | 17.5 | 60.5 | 796.7 | 78.8 | 301.2 | 144.2 |
| 232 | MP | 165.6 | 252.7 | 250.3 | 259.4 | 248.6 | 2322.0 | 374.8 | 11.6 | 66.9 | 1052.7 | 66.1 | 321.2 | 138.5 |
| 233 | MP | 177.0 | 254.3 | 251.5 | 261.1 | 250.4 | 2160.7 | 358.3 | 10.5 | 66.5 | 986.3 | 69.3 | 307.3 | 129.9 |
| 234 | MP | 110.2 | 261.3 | 267.2 | 270.7 | 261.2 | 2593.5 | 345.1 | 71.5 | 43.3 | 983.9 | 270.2 | 502.8 | 975.9 |
| 235 | MP | 104.7 | 262.0 | 276.7 | 276.7 | 261.7 | 1700.7 | 291.0 | 31.3 | 67.7 | 833.0 | 104.0 | 104.0 | 801.0 |
| 236 | MP | 104.4 | 265.8 | 272.9 | 274.5 | 265.3 | 2514.8 | 347.8 | 106.2 | 37.5 | 959.8 | 362.7 | 389.3 | 835.4 |
| 237 | MP | 102.6 | 267.8 | 276.9 | 277.9 | 267.4 | 2465.5 | 326.9 | 87.8 | 40.7 | 915.8 | 301.0 | 359.2 | 844.1 |
| 238 | MP | 112.6 | 254.2 | 261.7 | 262.8 | 253.9 | 1991.7 | 308.7 | 62.4 | 47.2 | 838.5 | 230.0 | 362.6 | 773.3 |
| 239 | MP | 143.5 | 249.6 | 253.5 | 257.0 | 249.3 | 1624.4 | 273.1 | 25.0 | 65.5 | 765.2 | 86.6 | 197.9 | 691.6 |
| 240 | MP | 168.1 | 257.8 | 248.8 | 263.3 | 246.3 | 1539.0 | 254.4 | 6.9 | 67.9 | 712.2 | 42.7 | 351.6 | 94.8 |
| 241 | MP | 174.3 | 254.8 | 253.0 | 262.2 | 252.2 | 2255.6 | 364.3 | 13.5 | 62.8 | 997.4 | 87.1 | 351.3 | 158.1 |
| 242 | MP | 102.0 | 268.0 | 278.0 | 279.0 | 267.0 | 2172.0 | 289.0 | 67.0 | 44.0 | 824.0 | 235.0 | 290.0 | 807.0 |
| 243 | MP | 164.7 | 252.1 | 250.7 | 260.1 | 248.8 | 2248.9 | 365.8 | 10.2 | 69.4 | 1040.7 | 58.2 | 280.2 | 123.6 |
| 244 | MP | 104.8 | 264.8 | 271.0 | 271.0 | 263.3 | 2388.0 | 360.5 | 81.0 | 50.5 | 1007.3 | 276.5 | 276.5 | 994.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | MP | 191.7 | 255.4 | 249.4 | 261.3 | 248.9 | 2133.0 | 344.1 | 4.0 | 72.5 | 1006.6 | 32.0 | 555.7 | 59.3 |
| 246 | MP | 145.5 | 247.0 | 219.5 | 249.0 | 219.0 | 1943.0 | 301.5 | 65.5 | 52.0 | 826.5 | 205.0 | 585.5 | 232.0 |
| 247 | MP | 173.4 | 267.3 | 237.1 | 268.7 | 237.0 | 1616.0 | 266.8 | 29.0 | 61.5 | 742.1 | 106.4 | 536.1 | 138.3 |
| 248 | MP | 173.3 | 263.0 | 223.6 | 266.1 | 223.6 | 1862.5 | 305.3 | 49.8 | 55.2 | 825.0 | 170.1 | 564.7 | 170.1 |
| 249 | MP | 107.3 | 256.3 | 267.5 | 268.0 | 252.5 | 2458.5 | 341.0 | 71.8 | 44.0 | 968.3 | 247.8 | 326.3 | 851.8 |
| 250 | MP | 157.9 | 224.0 | 196.4 | 225.2 | 196.4 | 1421.2 | 226.5 | 26.1 | 58.4 | 649.7 | 107.1 | 535.8 | 112.9 |
| 251 | MP | 172.9 | 257.4 | 243.2 | 260.6 | 241.1 | 1489.0 | 246.7 | 8.4 | 69.0 | 693.6 | 47.9 | 351.8 | 94.1 |
| 252 | MP | 206.8 | 250.0 | 242.0 | 259.0 | 238.0 | 1819.8 | 308.5 | 2.0 | 77.0 | 893.0 | 15.0 | 469.3 | 50.0 |
| 253 | MP | 142.0 | 251.0 | 254.0 | 257.0 | 248.0 | 1758.0 | 290.0 | 18.0 | 65.0 | 766.0 | 80.0 | 232.0 | 715.0 |
| 254 | MP | 101.2 | 117.6 | 121.6 | 122.6 | 114.2 | 2075.8 | 232.4 | 110.0 | 23.2 | 676.0 | 357.2 | 567.4 | 578.4 |
| 255 | MP | 107.7 | 171.0 | 174.0 | 175.7 | 168.3 | 2351.0 | 293.7 | 111.0 | 30.7 | 832.0 | 357.3 | 539.3 | 774.7 |
| 256 | MP | 110.6 | 256.4 | 263.5 | 263.6 | 251.9 | 3359.6 | 510.7 | 78.2 | 47.8 | 1279.2 | 305.3 | 311.8 | 1043.0 |
| 257 | MP | 86.0 | 145.0 | 146.5 | 147.5 | 141.5 | 1638.0 | 208.5 | 87.0 | 27.5 | 532.5 | 300.5 | 413.5 | 339.0 |
| 258 | MP | 126.0 | 263.0 | 271.0 | 275.0 | 256.0 | 2932.0 | 389.0 | 40.0 | 49.0 | 1090.0 | 218.0 | 271.0 | 1018.0 |
| 259 | MP | 129.5 | 262.0 | 278.0 | 282.5 | 258.0 | 2838.0 | 376.5 | 35.0 | 48.0 | 1056.5 | 227.5 | 243.0 | 1010.5 |
| 260 | MP | 122.1 | 243.2 | 246.4 | 250.7 | 242.3 | 3105.1 | 463.0 | 84.1 | 49.1 | 1291.2 | 305.0 | 628.0 | 932.0 |
| 261 | MP | 105.8 | 264.5 | 272.8 | 272.8 | 256.8 | 2015.5 | 319.3 | 43.3 | 51.0 | 828.3 | 170.5 | 170.5 | 539.0 |
| 262 | MP | 106.7 | 258.2 | 260.8 | 264.7 | 255.3 | 3100.1 | 347.0 | 177.5 | 21.3 | 999.2 | 570.1 | 626.3 | 819.7 |
| 263 | MP | 112.5 | 257.0 | 265.0 | 265.0 | 254.0 | 3813.8 | 589.8 | 80.0 | 49.5 | 1495.5 | 320.5 | 324.0 | 1189.5 |
| 264 | MP | 98.2 | 264.6 | 275.7 | 275.7 | 263.3 | 1928.1 | 375.2 | 8.5 | 82.1 | 1028.2 | 39.6 | 39.6 | 964.1 |
| 265 | MP | 105.5 | 262.9 | 267.5 | 269.2 | 261.1 | 2915.6 | 342.2 | 163.0 | 24.9 | 989.1 | 514.0 | 549.9 | 882.3 |
| 266 | MP | 169.1 | 256.9 | 254.2 | 263.2 | 253.1 | 2288.3 | 362.7 | 13.9 | 63.2 | 1014.5 | 82.4 | 349.4 | 155.7 |
| 267 | MP | 171.9 | 259.7 | 258.1 | 266.9 | 257.6 | 2315.6 | 365.9 | 15.0 | 61.2 | 1027.6 | 101.8 | 389.4 | 183.2 |
| 268 | MP | 110.3 | 266.4 | 273.0 | 275.7 | 265.0 | 2242.6 | 286.5 | 90.5 | 40.5 | 833.2 | 284.2 | 303.8 | 825.5 |
| 269 | MP | 119.8 | 255.7 | 251.6 | 259.6 | 251.0 | 2668.7 | 329.2 | 84.0 | 39.2 | 951.6 | 307.3 | 613.7 | 407.4 |
| 270 | MP | 125.7 | 261.7 | 265.0 | 270.9 | 261.7 | 2443.1 | 330.6 | 51.5 | 48.4 | 966.6 | 198.2 | 503.2 | 966.6 |
| 271 | MP | 110.7 | 263.2 | 270.3 | 272.7 | 263.2 | 2449.1 | 317.6 | 75.5 | 42.4 | 928.0 | 261.8 | 356.4 | 928.0 |
| 272 | MP | 108.8 | 252.6 | 264.7 | 265.2 | 249.6 | 2414.6 | 335.8 | 60.8 | 46.9 | 948.9 | 218.0 | 270.7 | 827.4 |
| 273 | MP | 102.1 | 267.1 | 276.1 | 277.3 | 267.1 | 2616.3 | 359.6 | 71.3 | 48.4 | 1057.2 | 271.6 | 311.4 | 978.9 |
| 274 | MP | 102.2 | 268.3 | 278.2 | 279.2 | 268.0 | 2310.7 | 304.5 | 68.0 | 45.7 | 893.2 | 247.5 | 299.5 | 888.2 |
| 275 | MP | 105.2 | 267.2 | 277.5 | 277.6 | 266.3 | 2171.8 | 320.5 | 81.4 | 46.5 | 868.3 | 264.9 | 265.1 | 833.6 |
| 276 | MP | 108.3 | 261.2 | 266.9 | 270.2 | 261.2 | 2594.6 | 342.6 | 76.1 | 41.3 | 951.9 | 284.8 | 404.2 | 949.0 |
| 277 | MP | 106.1 | 265.7 | 275.5 | 276.3 | 262.8 | 2521.2 | 333.8 | 56.8 | 46.7 | 962.3 | 245.3 | 272.9 | 921.1 |
| 278 | MP | 106.7 | 257.8 | 260.3 | 264.3 | 254.8 | 3092.1 | 343.2 | 176.6 | 20.9 | 989.8 | 570.9 | 626.2 | 816.5 |
| 279 | MP | 106.3 | 261.1 | 264.8 | 269.2 | 260.7 | 2473.4 | 321.4 | 85.2 | 39.9 | 872.3 | 291.4 | 395.7 | 863.1 |
| 280 | MP | 112.1 | 259.8 | 264.0 | 268.7 | 259.8 | 2616.7 | 355.3 | 64.2 | 45.3 | 993.3 | 251.3 | 513.6 | 991.7 |
| 281 | MP | 113.2 | 263.0 | 269.5 | 272.6 | 262.9 | 2439.5 | 321.4 | 70.2 | 43.7 | 936.7 | 254.4 | 406.1 | 933.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 282 | MP | 118.9 | 258.3 | 253.9 | 262.2 | 253.9 | 2467.6 | 313.6 | 64.7 | 42.7 | 901.6 | 258.1 | 546.3 | 344.2 |
| 283 | MP | 133.0 | 182.7 | 181.3 | 187.6 | 176.5 | 1639.5 | 182.6 | 103.3 | 18.1 | 505.7 | 333.3 | 367.5 | 368.2 |
| 284 | MP | 113.6 | 266.0 | 274.6 | 276.7 | 265.6 | 1862.6 | 323.6 | 59.0 | 59.3 | 884.0 | 193.1 | 263.2 | 812.5 |
| 285 | MP | 106.7 | 255.1 | 255.6 | 260.4 | 251.5 | 2914.0 | 301.5 | 157.1 | 20.0 | 886.6 | 515.8 | 613.6 | 711.7 |
| 286 | MP | 190.5 | 236.0 | 226.5 | 241.0 | 225.5 | 1933.0 | 354.5 | 4.0 | 76.0 | 957.0 | 35.5 | 449.0 | 67.0 |
| 287 | MP | 106.7 | 266.1 | 275.6 | 275.6 | 265.3 | 2384.5 | 392.5 | 93.2 | 47.2 | 1020.9 | 306.0 | 314.2 | 880.3 |
| 288 | MP | 174.0 | 270.0 | 223.0 | 270.0 | 223.0 | 3391.0 | 518.8 | 110.5 | 50.8 | 1450.5 | 378.0 | 1450.5 | 378.0 |
| 289 | MP | 110.5 | 261.1 | 263.9 | 267.9 | 260.8 | 2450.5 | 309.6 | 77.4 | 44.0 | 906.5 | 254.2 | 366.0 | 899.3 |
| 290 | MP | 167.8 | 251.6 | 249.6 | 258.9 | 247.7 | 2207.7 | 364.6 | 8.8 | 69.5 | 1022.0 | 55.1 | 283.9 | 117.9 |
| 291 | MP | 109.4 | 253.7 | 266.4 | 267.0 | 251.3 | 2267.3 | 328.8 | 52.1 | 49.3 | 908.4 | 192.1 | 238.1 | 772.4 |
| 292 | MP | 131.2 | 253.4 | 256.7 | 259.9 | 251.9 | 1901.0 | 311.4 | 19.2 | 66.1 | 882.4 | 95.8 | 213.5 | 875.0 |
| 293 | MP | 100.9 | 262.1 | 274.8 | 274.8 | 259.6 | 2901.9 | 443.7 | 14.7 | 70.4 | 1304.4 | 81.2 | 92.9 | 1256.3 |
| 294 | MP | 136.3 | 260.5 | 263.2 | 269.9 | 260.4 | 2242.6 | 315.0 | 46.6 | 51.4 | 911.1 | 186.0 | 322.2 | 910.7 |
| 295 | MP | 144.7 | 246.5 | 250.3 | 256.8 | 246.4 | 1897.5 | 308.3 | 16.5 | 63.3 | 864.8 | 91.1 | 355.6 | 860.8 |
| 296 | MP | 119.6 | 260.0 | 268.1 | 269.7 | 258.5 | 1758.9 | 329.4 | 36.1 | 69.4 | 908.0 | 160.0 | 240.0 | 813.8 |
| 297 | MP | 160.3 | 261.1 | 255.8 | 271.0 | 254.8 | 1647.3 | 259.8 | 7.0 | 64.5 | 737.3 | 47.4 | 371.4 | 131.3 |
| 298 | MP | 138.0 | 258.8 | 257.3 | 267.4 | 253.5 | 1940.9 | 278.0 | 25.0 | 58.2 | 807.5 | 99.7 | 295.5 | 157.9 |
| 299 | MP | 124.3 | 160.1 | 164.0 | 166.0 | 153.9 | 2535.5 | 298.2 | 141.8 | 22.3 | 833.6 | 462.9 | 537.5 | 747.0 |
| 300 | MP | 154.9 | 258.3 | 254.0 | 267.1 | 252.8 | 1688.3 | 260.3 | 11.2 | 61.8 | 747.0 | 61.9 | 381.2 | 136.6 |
| 301 | MP | 118.9 | 253.2 | 264.2 | 267.2 | 252.2 | 3242.9 | 407.4 | 121.2 | 34.6 | 1180.3 | 449.3 | 469.9 | 1106.1 |
| 302 | MP | 106.0 | 254.0 | 263.0 | 263.0 | 251.5 | 3772.5 | 545.5 | 90.0 | 44.5 | 1404.0 | 359.0 | 359.0 | 1150.5 |
| 303 | MP | 176.2 | 259.3 | 236.7 | 260.7 | 235.2 | 1418.3 | 237.4 | 13.7 | 67.6 | 665.2 | 63.1 | 420.0 | 103.4 |
| 304 | MP | 113.8 | 250.5 | 264.9 | 265.5 | 248.3 | 2787.4 | 329.1 | 131.7 | 27.7 | 955.7 | 434.8 | 475.1 | 875.0 |
| 305 | MP | 134.5 | 242.9 | 226.7 | 245.7 | 226.3 | 3588.4 | 498.9 | 143.3 | 41.0 | 1389.8 | 475.1 | 1038.5 | 483.6 |
| 306 | MP | 183.7 | 197.4 | 188.8 | 206.0 | 188.2 | 1656.1 | 233.6 | 39.3 | 49.8 | 677.7 | 157.3 | 447.2 | 160.6 |
| 307 | MP | 129.8 | 188.3 | 184.3 | 194.9 | 183.6 | 1316.7 | 138.8 | 74.3 | 17.2 | 393.3 | 258.8 | 332.9 | 269.6 |
| 308 | MP | 156.7 | 229.0 | 221.5 | 234.1 | 221.1 | 2033.0 | 275.7 | 67.6 | 43.9 | 773.3 | 218.4 | 548.3 | 250.7 |
| 309 | MP | 114.2 | 252.3 | 267.4 | 267.9 | 249.9 | 2831.6 | 344.9 | 120.5 | 30.5 | 995.0 | 414.4 | 492.5 | 914.4 |
| 310 | MP | 173.3 | 224.6 | 217.6 | 231.9 | 217.4 | 1726.7 | 238.3 | 42.2 | 49.0 | 695.0 | 161.1 | 480.5 | 162.3 |
| 311 | MP | 149.7 | 256.2 | 242.8 | 258.3 | 242.4 | 1874.2 | 253.0 | 32.5 | 54.8 | 741.4 | 120.7 | 647.4 | 154.9 |
| 312 | MP | 124.5 | 227.5 | 230.2 | 237.2 | 222.4 | 2741.8 | 272.0 | 180.1 | 11.9 | 793.7 | 600.5 | 632.2 | 717.6 |
| 313 | MP | 146.9 | 229.4 | 220.9 | 232.1 | 220.9 | 2418.1 | 331.8 | 79.6 | 46.3 | 957.0 | 255.5 | 631.9 | 259.3 |
| 314 | MP | 169.2 | 263.1 | 228.3 | 266.2 | 228.3 | 1786.4 | 294.8 | 49.3 | 54.5 | 784.9 | 168.9 | 521.5 | 168.9 |
| 315 | MP | 157.8 | 252.9 | 223.0 | 254.0 | 219.7 | 1808.5 | 268.9 | 58.5 | 49.9 | 771.1 | 200.7 | 585.4 | 207.9 |
| 316 | MP | 111.1 | 248.5 | 259.0 | 259.9 | 246.5 | 2928.0 | 329.5 | 160.6 | 22.7 | 940.1 | 508.4 | 582.9 | 875.7 |
| 317 | MP | 122.0 | 125.8 | 131.4 | 133.3 | 120.8 | 1974.1 | 227.5 | 108.4 | 22.2 | 646.5 | 354.0 | 412.9 | 592.6 |
| 318 | MP | 113.3 | 217.9 | 222.6 | 224.4 | 217.4 | 2667.0 | 287.7 | 169.5 | 16.8 | 817.3 | 525.9 | 603.9 | 808.1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 319 | MP | 109.7 | 159.7 | 160.7 | 163.7 | 158.7 | 1742.3 | 187.7 | 105.0 | 19.7 | 520.3 | 351.0 | 499.0 | 483.3 |
| 320 | MP | 114.2 | 262.3 | 259.0 | 268.8 | 257.4 | 2753.5 | 285.8 | 159.3 | 18.2 | 814.1 | 525.4 | 708.4 | 533.2 |
| 321 | MP | 157.8 | 262.7 | 241.9 | 265.4 | 240.2 | 1804.4 | 276.5 | 36.9 | 56.4 | 770.2 | 128.6 | 464.7 | 157.7 |
| 322 | MP | 216.6 | 82.6 | 55.4 | 88.4 | 55.4 | 970.3 | 191.4 | 16.3 | 70.7 | 491.4 | 66.1 | 292.4 | 67.7 |
| 323 | MP | 125.7 | 267.9 | 261.0 | 270.1 | 260.0 | 2434.9 | 256.8 | 116.7 | 22.6 | 734.0 | 408.4 | 614.5 | 479.5 |
| 324 | MP | 122.0 | 268.1 | 263.2 | 271.3 | 262.0 | 2262.3 | 255.5 | 107.7 | 24.5 | 694.3 | 373.7 | 597.0 | 445.3 |
| 325 | MP | 113.0 | 251.8 | 260.8 | 261.2 | 249.3 | 2769.8 | 277.0 | 183.4 | 13.3 | 808.3 | 574.8 | 597.5 | 765.0 |
| 326 | MP | 145.0 | 259.8 | 235.8 | 261.8 | 235.8 | 2664.1 | 405.0 | 83.8 | 51.1 | 1110.9 | 273.6 | 931.1 | 277.4 |
| 327 | MP | 108.0 | 247.0 | 256.0 | 256.0 | 242.0 | 4033.0 | 448.0 | 189.0 | 25.0 | 1323.0 | 633.0 | 633.0 | 1150.0 |
| 328 | MP | 140.9 | 257.7 | 248.0 | 261.8 | 247.8 | 1810.8 | 259.9 | 33.6 | 51.8 | 704.2 | 136.4 | 515.7 | 184.9 |
| 329 | MP | 139.7 | 256.2 | 245.8 | 260.0 | 245.7 | 1853.1 | 262.9 | 32.9 | 51.7 | 713.2 | 136.2 | 597.9 | 179.0 |
| 330 | MP | 161.7 | 249.3 | 246.7 | 257.3 | 244.3 | 2249.3 | 355.3 | 6.3 | 67.0 | 1007.0 | 60.3 | 312.7 | 130.0 |
| 331 | MP | 169.0 | 247.3 | 245.0 | 255.1 | 242.4 | 1875.1 | 318.9 | 0.4 | 73.8 | 901.0 | 39.6 | 205.4 | 88.0 |
| 332 | MP | 146.0 | 257.7 | 245.4 | 258.9 | 243.1 | 2040.1 | 303.1 | 32.3 | 55.5 | 855.5 | 133.9 | 486.5 | 212.5 |
| 333 | MP | 117.0 | 265.9 | 271.8 | 271.8 | 263.8 | 2567.8 | 434.8 | 49.3 | 67.8 | 1252.7 | 176.7 | 177.6 | 1150.1 |
| 334 | MP | 106.8 | 254.8 | 258.6 | 261.6 | 251.4 | 2992.8 | 323.1 | 167.4 | 20.2 | 947.8 | 569.0 | 584.0 | 814.1 |
| 335 | MP | 107.3 | 261.0 | 261.0 | 265.5 | 257.0 | 2898.0 | 351.8 | 139.1 | 28.4 | 971.9 | 449.3 | 619.5 | 605.2 |
| 336 | MP | 160.7 | 261.0 | 254.1 | 268.8 | 252.7 | 1616.1 | 256.8 | 7.4 | 64.2 | 726.7 | 50.2 | 367.5 | 123.6 |
| 337 | MP | 128.0 | 262.4 | 260.8 | 267.6 | 259.4 | 2488.8 | 339.8 | 44.3 | 50.0 | 979.5 | 182.6 | 559.4 | 291.2 |
| 338 | MP | 165.3 | 249.3 | 247.0 | 257.0 | 244.2 | 2110.8 | 342.7 | 2.2 | 70.5 | 976.3 | 45.0 | 265.3 | 106.3 |
| 339 | MP | 104.2 | 264.8 | 267.1 | 270.1 | 262.2 | 2191.4 | 265.2 | 83.5 | 34.8 | 736.8 | 291.3 | 353.8 | 553.0 |
| 340 | MP | 153.9 | 253.7 | 238.2 | 255.2 | 237.6 | 1960.0 | 291.2 | 24.0 | 58.8 | 829.1 | 101.5 | 653.0 | 160.8 |
| 341 | MP | 153.7 | 255.8 | 239.6 | 258.0 | 238.1 | 1769.7 | 255.6 | 22.6 | 59.4 | 741.8 | 85.6 | 490.6 | 125.7 |
| 342 | MP | 112.0 | 257.8 | 268.5 | 269.3 | 257.8 | 2639.5 | 515.8 | 19.3 | 79.0 | 1404.0 | 73.8 | 128.8 | 1404.0 |
| 343 | MP | 145.0 | 265.0 | 265.0 | 270.0 | 263.0 | 1606.0 | 320.0 | 10.0 | 81.0 | 846.0 | 54.0 | 107.0 | 121.0 |
| 344 | MP | 169.0 | 262.0 | 251.5 | 268.5 | 249.5 | 1498.0 | 252.5 | 5.0 | 69.5 | 695.0 | 35.0 | 334.5 | 85.5 |
| 345 | MP | 96.0 | 265.0 | 276.0 | 276.0 | 263.0 | 1541.0 | 318.0 | 4.0 | 90.0 | 892.0 | 27.0 | 27.0 | 825.0 |
| 346 | MP | 142.2 | 263.2 | 265.3 | 269.7 | 263.2 | 1690.3 | 327.5 | 12.0 | 79.3 | 882.7 | 57.5 | 120.5 | 758.3 |
| 347 | MP | 166.8 | 249.8 | 247.3 | 257.5 | 244.8 | 2052.8 | 337.3 | 1.5 | 71.8 | 967.0 | 43.0 | 246.5 | 100.3 |
| 348 | MP | 167.0 | 251.0 | 248.7 | 259.0 | 246.0 | 2064.0 | 345.7 | 1.7 | 73.0 | 993.7 | 43.7 | 240.0 | 98.3 |
| 349 | MP | 166.0 | 255.0 | 252.3 | 261.2 | 250.9 | 2343.7 | 373.8 | 12.8 | 65.2 | 1054.4 | 73.3 | 341.8 | 148.4 |
| 350 | MP | 171.8 | 252.5 | 249.3 | 258.7 | 247.6 | 2132.5 | 359.8 | 8.0 | 69.8 | 1000.2 | 54.2 | 281.8 | 111.7 |
| 351 | MP | 111.3 | 265.2 | 273.3 | 273.7 | 262.2 | 2468.0 | 320.0 | 81.3 | 41.6 | 924.4 | 307.2 | 311.5 | 868.3 |
| 352 | MP | 118.0 | 269.6 | 274.7 | 275.6 | 267.5 | 2437.3 | 438.6 | 35.4 | 75.7 | 1284.7 | 128.8 | 139.1 | 1203.3 |
| 353 | MP | 162.0 | 250.0 | 247.0 | 257.0 | 244.0 | 2271.0 | 358.0 | 5.0 | 67.0 | 1011.0 | 56.0 | 316.0 | 129.0 |
| 354 | MP | 169.0 | 250.0 | 247.0 | 257.0 | 245.0 | 1941.0 | 317.0 | 1.0 | 72.0 | 911.0 | 39.0 | 226.0 | 94.0 |
| 355 | MP | 134.9 | 261.3 | 257.8 | 267.3 | 254.8 | 2009.1 | 286.6 | 22.9 | 58.9 | 835.8 | 103.4 | 456.0 | 149.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 356 | MP | 143.2 | 258.4 | 255.7 | 266.6 | 252.4 | 2046.1 | 307.1 | 26.7 | 59.2 | 870.2 | 94.2 | 303.4 | 173.8 |
| 357 | MP | 168.0 | 249.0 | 246.0 | 256.0 | 243.0 | 1982.0 | 320.0 | 1.0 | 71.0 | 918.0 | 40.0 | 236.0 | 98.0 |
| 358 | MP | 116.8 | 259.5 | 263.1 | 268.1 | 259.3 | 2648.0 | 385.4 | 53.0 | 49.2 | 1037.3 | 220.5 | 470.3 | 1028.7 |
| 359 | MP | 141.7 | 260.2 | 258.3 | 268.9 | 254.6 | 2196.7 | 340.1 | 19.1 | 61.7 | 944.8 | 109.5 | 308.1 | 173.4 |
| 360 | MP | 99.8 | 261.7 | 272.9 | 272.9 | 261.0 | 2680.5 | 510.2 | 27.6 | 78.0 | 1409.3 | 97.5 | 97.5 | 1270.6 |
| 361 | MP | 107.3 | 264.9 | 273.5 | 273.5 | 263.2 | 2820.7 | 398.6 | 82.5 | 48.1 | 1153.1 | 285.1 | 354.3 | 1117.7 |
| 362 | MP | 110.3 | 257.9 | 268.9 | 269.5 | 257.9 | 2666.4 | 524.5 | 19.9 | 80.2 | 1426.5 | 73.8 | 131.5 | 1343.5 |
| 363 | MP | 166.3 | 249.8 | 247.5 | 257.5 | 244.8 | 2123.5 | 345.5 | 3.5 | 71.5 | 1011.8 | 49.3 | 257.3 | 105.5 |
| 364 | MP | 116.0 | 256.0 | 269.0 | 269.0 | 256.0 | 2459.0 | 496.0 | 6.0 | 82.0 | 1333.0 | 34.0 | 34.0 | 1333.0 |
| 365 | MP | 112.0 | 257.0 | 270.0 | 270.0 | 257.0 | 2234.0 | 450.0 | 6.0 | 80.0 | 1177.0 | 35.0 | 35.0 | 1177.0 |
| 366 | MP | 109.0 | 258.0 | 271.0 | 271.0 | 258.0 | 2157.5 | 427.5 | 7.5 | 78.5 | 1105.5 | 39.0 | 39.0 | 1105.5 |
| 367 | MP | 89.6 | 267.2 | 280.6 | 280.6 | 265.7 | 2893.3 | 536.0 | 8.6 | 82.3 | 1544.6 | 56.8 | 92.0 | 1404.6 |
| 368 | MP | 118.0 | 255.0 | 268.0 | 268.0 | 255.0 | 2576.0 | 501.0 | 10.0 | 80.0 | 1373.0 | 48.0 | 48.0 | 1373.0 |
| 369 | MP | 103.3 | 260.7 | 271.7 | 271.7 | 260.3 | 2675.3 | 519.0 | 25.7 | 79.0 | 1417.0 | 90.7 | 90.7 | 1264.3 |
| 370 | MP | 96.5 | 264.0 | 274.5 | 274.5 | 262.5 | 2678.0 | 502.5 | 28.0 | 77.5 | 1402.0 | 100.5 | 100.5 | 1273.0 |
| 371 | MP | 167.7 | 248.7 | 246.7 | 256.7 | 243.7 | 2083.7 | 352.7 | 2.0 | 73.3 | 1009.3 | 43.3 | 239.7 | 97.3 |
| 372 | MP | 114.7 | 259.4 | 255.2 | 263.0 | 255.2 | 2513.1 | 311.5 | 75.3 | 38.2 | 871.4 | 297.1 | 560.9 | 345.1 |
| 373 | MP | 131.4 | 261.4 | 256.3 | 265.6 | 254.7 | 2244.3 | 311.4 | 38.6 | 52.5 | 893.0 | 152.9 | 521.6 | 237.9 |
| 374 | MP | 164.5 | 250.0 | 248.5 | 259.0 | 245.5 | 2171.0 | 348.5 | 5.5 | 68.5 | 1001.5 | 56.0 | 285.5 | 118.0 |
| 375 | MP | 176.2 | 253.1 | 240.8 | 256.0 | 238.3 | 1552.0 | 256.8 | 7.3 | 69.7 | 723.5 | 46.3 | 374.8 | 94.6 |
| 376 | MP | 167.0 | 249.5 | 247.0 | 257.0 | 244.5 | 2024.5 | 332.5 | 1.0 | 72.0 | 952.5 | 41.5 | 241.0 | 98.0 |
| 377 | MP | 106.1 | 260.1 | 272.9 | 273.1 | 259.4 | 1941.8 | 340.6 | 26.8 | 69.5 | 949.6 | 111.1 | 111.9 | 792.1 |
| 378 | MP | 107.2 | 263.9 | 274.6 | 275.4 | 260.9 | 2393.3 | 343.4 | 47.1 | 50.5 | 974.1 | 206.9 | 228.4 | 816.9 |
| 379 | MP | 164.6 | 260.1 | 252.0 | 267.1 | 250.0 | 1555.1 | 255.7 | 7.0 | 66.8 | 714.8 | 44.6 | 344.3 | 101.6 |
| 380 | MP | 162.9 | 257.9 | 250.9 | 264.8 | 248.9 | 1583.1 | 256.3 | 8.2 | 65.3 | 726.2 | 50.9 | 361.8 | 109.0 |
| 381 | MP | 129.1 | 258.4 | 250.0 | 261.4 | 248.8 | 2182.7 | 267.9 | 58.0 | 41.1 | 770.5 | 224.8 | 545.4 | 307.1 |
| 382 | MP | 131.9 | 249.5 | 255.1 | 261.3 | 249.2 | 1839.3 | 306.7 | 26.6 | 62.6 | 843.9 | 116.6 | 290.5 | 843.0 |
| 383 | MP | 107.6 | 256.9 | 256.7 | 261.4 | 252.7 | 2832.4 | 309.4 | 150.6 | 22.5 | 887.4 | 476.8 | 608.1 | 639.7 |
| 384 | MP | 153.8 | 259.9 | 256.0 | 269.3 | 255.1 | 1677.9 | 259.9 | 12.4 | 62.4 | 743.2 | 61.2 | 371.6 | 132.7 |
| 385 | MP | 158.1 | 259.2 | 254.2 | 267.9 | 252.8 | 1652.3 | 257.4 | 9.7 | 62.6 | 742.2 | 59.0 | 359.5 | 132.1 |
| 386 | MP | 157.7 | 253.7 | 251.2 | 262.2 | 249.3 | 2244.0 | 350.4 | 15.1 | 63.2 | 986.2 | 85.7 | 393.6 | 154.6 |
| 387 | MP | 105.9 | 263.5 | 269.6 | 270.0 | 262.0 | 2627.1 | 330.9 | 140.1 | 28.5 | 930.9 | 452.9 | 459.6 | 846.9 |
| 388 | MP | 132.4 | 245.6 | 250.5 | 255.3 | 245.6 | 1705.5 | 288.2 | 24.4 | 65.7 | 821.5 | 102.7 | 225.7 | 821.5 |
| 389 | MP | 135.7 | 257.3 | 246.1 | 260.2 | 246.0 | 1997.8 | 275.5 | 41.5 | 47.9 | 758.2 | 168.9 | 618.1 | 219.3 |
| 390 | MP | 133.5 | 252.1 | 257.1 | 264.2 | 251.4 | 2117.5 | 339.1 | 37.9 | 58.1 | 924.3 | 150.9 | 365.1 | 919.5 |
| 391 | MP | 167.0 | 250.0 | 248.0 | 258.0 | 245.0 | 2053.0 | 339.0 | 2.0 | 72.0 | 979.0 | 43.0 | 241.0 | 99.0 |
| 392 | MP | 97.0 | 263.0 | 274.0 | 274.0 | 262.0 | 2683.0 | 504.0 | 28.0 | 77.0 | 1405.0 | 100.0 | 100.0 | 1274.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 393 | MP | 166.8 | 250.8 | 248.3 | 258.5 | 245.8 | 2062.8 | 342.3 | 1.8 | 72.5 | 987.0 | 43.3 | 242.5 | 99.0 |
| 394 | MP | 164.0 | 250.5 | 248.0 | 258.5 | 245.5 | 2179.5 | 349.5 | 4.0 | 68.5 | 995.0 | 52.5 | 288.5 | 117.5 |
| 395 | MP | 119.0 | 256.7 | 266.5 | 269.7 | 256.3 | 2013.2 | 319.8 | 53.1 | 60.9 | 908.8 | 177.1 | 210.2 | 860.3 |
| 396 | MP | 109.3 | 265.4 | 272.6 | 272.7 | 263.5 | 2671.8 | 393.6 | 64.7 | 54.5 | 1150.8 | 222.8 | 279.7 | 1101.7 |
| 397 | MP | 108.8 | 262.1 | 273.9 | 274.3 | 261.0 | 2012.7 | 330.7 | 37.4 | 63.4 | 931.5 | 139.9 | 147.5 | 797.7 |
| 398 | MP | 98.4 | 109.6 | 113.0 | 115.3 | 104.8 | 1902.8 | 244.6 | 108.4 | 25.2 | 645.2 | 339.0 | 527.5 | 548.9 |
| 399 | MP | 90.0 | 152.0 | 148.0 | 154.0 | 148.0 | 1747.0 | 212.0 | 101.0 | 26.0 | 554.0 | 341.0 | 455.0 | 342.0 |
| 400 | MP | 107.8 | 150.1 | 154.1 | 155.4 | 147.1 | 2442.7 | 313.8 | 138.4 | 25.6 | 843.4 | 440.6 | 594.9 | 755.7 |
| 401 | MP | 102.8 | 265.5 | 271.8 | 271.8 | 256.5 | 2218.0 | 365.8 | 50.3 | 50.3 | 921.5 | 207.5 | 207.5 | 586.8 |
| 402 | MP | 106.6 | 264.5 | 275.6 | 275.6 | 258.9 | 2284.8 | 328.4 | 102.6 | 36.7 | 874.2 | 336.2 | 350.3 | 507.4 |
| 403 | MP | 108.0 | 263.8 | 275.0 | 275.0 | 258.3 | 2222.0 | 319.0 | 84.8 | 38.8 | 846.5 | 286.0 | 286.0 | 520.3 |
| 404 | MP | 116.0 | 258.8 | 273.3 | 273.3 | 255.0 | 2460.8 | 403.0 | 46.2 | 51.9 | 1051.5 | 197.2 | 197.2 | 605.1 |
| 405 | MP | 109.0 | 263.1 | 274.5 | 274.5 | 256.9 | 2214.6 | 303.4 | 84.1 | 36.8 | 825.5 | 297.9 | 310.5 | 522.1 |
| 406 | MP | 108.6 | 268.6 | 279.5 | 279.5 | 264.1 | 2110.7 | 310.4 | 70.9 | 43.5 | 867.5 | 252.7 | 257.4 | 454.8 |
| 407 | MP | 107.6 | 251.8 | 257.9 | 258.1 | 245.4 | 2762.0 | 392.1 | 84.6 | 41.2 | 1044.9 | 313.9 | 317.1 | 795.1 |
| 408 | MP | 110.2 | 256.4 | 264.6 | 264.6 | 253.5 | 3780.6 | 571.7 | 85.9 | 47.4 | 1454.4 | 342.1 | 346.6 | 1165.7 |
| 409 | MP | 116.9 | 250.6 | 256.7 | 256.8 | 245.8 | 3275.3 | 494.3 | 75.8 | 47.5 | 1225.2 | 295.9 | 298.1 | 1048.7 |
| 410 | MP | 142.3 | 260.1 | 258.4 | 268.6 | 255.0 | 2187.8 | 337.2 | 19.9 | 61.0 | 933.2 | 112.0 | 304.9 | 179.0 |
| 411 | MP | 103.8 | 267.0 | 277.7 | 277.7 | 262.2 | 2009.8 | 301.7 | 87.2 | 38.7 | 797.7 | 307.0 | 344.7 | 416.8 |
| 412 | MP | 173.6 | 247.0 | 244.8 | 254.2 | 241.8 | 1803.1 | 323.9 | 0.5 | 76.7 | 898.5 | 34.6 | 179.5 | 76.7 |
| 413 | MP | 135.8 | 255.4 | 270.2 | 270.2 | 252.8 | 1880.2 | 392.1 | 43.5 | 64.0 | 897.7 | 161.5 | 161.5 | 443.4 |
| 414 | MP | 105.9 | 263.6 | 272.7 | 272.9 | 257.2 | 2269.8 | 310.6 | 70.6 | 40.8 | 851.3 | 264.4 | 270.7 | 592.4 |
| 415 | MP | 187.8 | 253.8 | 224.8 | 255.3 | 223.1 | 1301.5 | 223.1 | 15.8 | 66.7 | 611.1 | 67.5 | 421.5 | 101.3 |
| 416 | MP | 143.2 | 262.0 | 258.9 | 271.2 | 256.8 | 1621.0 | 270.3 | 9.4 | 64.8 | 715.4 | 62.0 | 399.0 | 115.9 |
| 417 | MP | 176.3 | 270.3 | 222.3 | 270.3 | 222.3 | 3661.1 | 559.0 | 119.5 | 51.0 | 1564.8 | 406.3 | 1486.3 | 406.3 |
| 418 | MP | 105.0 | 264.5 | 271.0 | 271.0 | 262.5 | 2438.0 | 380.5 | 81.0 | 52.5 | 1047.0 | 271.5 | 271.5 | 1029.5 |
| 419 | MP | 178.6 | 261.7 | 230.9 | 262.9 | 230.0 | 1371.0 | 229.2 | 21.3 | 64.4 | 635.7 | 85.3 | 466.3 | 120.5 |
| 420 | MP | 185.0 | 264.0 | 216.5 | 264.0 | 216.5 | 3473.5 | 559.5 | 108.0 | 53.5 | 1500.0 | 355.5 | 1328.5 | 355.5 |
| 421 | MP | 156.0 | 266.8 | 245.2 | 269.7 | 244.4 | 1698.7 | 288.2 | 44.7 | 57.6 | 752.0 | 144.5 | 498.2 | 180.5 |
| 422 | MP | 132.0 | 200.5 | 210.0 | 210.0 | 196.0 | 2918.5 | 309.0 | 195.5 | 15.5 | 850.0 | 617.5 | 617.5 | 805.0 |
| 423 | MP | 176.0 | 270.0 | 222.3 | 270.3 | 222.3 | 3489.3 | 533.0 | 114.0 | 50.3 | 1491.0 | 388.7 | 1423.7 | 388.7 |
| 424 | MP | 114.1 | 199.0 | 203.7 | 204.4 | 198.6 | 2733.1 | 297.1 | 171.4 | 18.7 | 860.7 | 545.4 | 612.4 | 855.3 |
| 425 | MP | 173.0 | 269.5 | 234.5 | 271.5 | 234.5 | 1853.0 | 312.5 | 42.0 | 58.0 | 835.5 | 141.5 | 580.0 | 141.5 |
| 426 | MP | 212.6 | 104.2 | 83.9 | 110.4 | 82.4 | 877.8 | 165.2 | 8.1 | 74.8 | 443.0 | 33.8 | 277.4 | 41.6 |
| 427 | MP | 222.0 | 65.0 | 41.0 | 68.0 | 38.0 | 761.0 | 148.0 | 7.0 | 78.0 | 411.0 | 26.0 | 212.0 | 37.0 |
| 428 | MP | 130.6 | 181.5 | 176.6 | 187.4 | 176.1 | 1255.9 | 133.5 | 70.8 | 18.0 | 375.4 | 245.9 | 322.8 | 252.7 |
| 429 | MP | 185.6 | 195.0 | 187.9 | 204.7 | 187.2 | 1563.3 | 221.8 | 35.0 | 53.4 | 650.5 | 136.2 | 402.8 | 137.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 430 | MP | 179.8 | 145.0 | 130.0 | 149.2 | 130.0 | 972.2 | 148.2 | 20.2 | 57.4 | 432.2 | 72.4 | 288.4 | 72.4 |
| 431 | MP | 136.5 | 140.9 | 135.1 | 142.1 | 135.1 | 986.7 | 141.2 | 46.9 | 34.4 | 365.6 | 154.6 | 268.7 | 155.0 |
| 432 | MP | 110.5 | 263.9 | 273.8 | 274.2 | 259.9 | 2108.4 | 377.4 | 59.0 | 55.3 | 967.2 | 239.4 | 240.6 | 383.0 |
| 433 | MP | 173.9 | 269.9 | 229.2 | 270.8 | 229.2 | 2157.3 | 354.3 | 57.6 | 55.2 | 955.6 | 194.2 | 672.6 | 194.2 |
| 434 | MP | 121.7 | 218.0 | 218.6 | 224.9 | 216.1 | 2495.2 | 388.1 | 55.0 | 55.2 | 1104.0 | 197.9 | 549.7 | 488.3 |
| 435 | MP | 116.9 | 258.0 | 272.6 | 272.6 | 254.5 | 2341.1 | 397.0 | 38.4 | 55.0 | 1017.5 | 172.2 | 172.2 | 583.0 |
| 436 | MP | 128.3 | 192.1 | 187.4 | 199.1 | 186.8 | 1318.7 | 139.2 | 78.4 | 16.8 | 394.4 | 269.6 | 333.6 | 272.9 |
| 437 | MP | 114.3 | 256.6 | 252.9 | 262.8 | 250.0 | 2500.0 | 246.5 | 168.1 | 12.1 | 721.9 | 537.9 | 620.7 | 582.4 |
| 438 | MP | 138.7 | 260.6 | 253.0 | 265.3 | 252.1 | 2125.9 | 266.5 | 78.4 | 32.4 | 714.2 | 281.0 | 564.6 | 341.4 |
| 439 | MP | 106.9 | 259.0 | 253.9 | 263.5 | 252.1 | 2945.4 | 326.2 | 166.3 | 19.6 | 936.0 | 581.9 | 674.9 | 592.8 |
| 1 | MR | 124.8 | 295.9 | 299.6 | 300.7 | 291.4 | 3262.1 | 404.0 | 194.0 | 22.1 | 1063.6 | 631.9 | 855.8 | 813.1 |
| 2 | MR | 122.3 | 292.8 | 302.8 | 302.8 | 292.6 | 2889.6 | 316.5 | 133.9 | 22.1 | 894.5 | 517.5 | 518.9 | 893.7 |
| 3 | MR | 189.1 | 138.1 | 120.1 | 146.2 | 120.1 | 964.4 | 192.2 | 6.2 | 77.9 | 496.4 | 31.3 | 307.9 | 31.3 |
| 4 | MR | 129.6 | 293.7 | 307.8 | 308.5 | 288.1 | 2728.9 | 289.8 | 118.4 | 25.3 | 847.7 | 427.7 | 522.7 | 832.9 |
| 5 | MR | 131.6 | 278.9 | 278.2 | 282.8 | 273.9 | 2343.9 | 433.8 | 114.6 | 51.5 | 1021.6 | 381.3 | 415.7 | 498.0 |
| 6 | MR | 165.3 | 311.6 | 321.4 | 321.9 | 306.0 | 2049.3 | 263.5 | 59.1 | 35.2 | 694.2 | 252.8 | 357.8 | 525.8 |
| 7 | MR | 125.9 | 296.4 | 305.0 | 305.1 | 295.1 | 3034.8 | 316.9 | 171.3 | 17.8 | 893.3 | 587.9 | 599.6 | 873.9 |
| 8 | MR | 130.0 | 200.9 | 204.4 | 208.4 | 196.9 | 2211.3 | 493.7 | 89.7 | 60.7 | 1047.4 | 318.7 | 339.0 | 451.1 |
| 9 | MR | 360.6 | 52.8 | 249.4 | 858.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10 | MR | 186.9 | 316.1 | 307.1 | 323.4 | 296.6 | 1447.2 | 217.4 | 18.8 | 53.1 | 586.5 | 115.4 | 278.5 | 161.4 |
| 11 | MR | 196.4 | 317.8 | 292.6 | 319.4 | 279.1 | 1950.7 | 282.2 | 26.7 | 54.3 | 810.1 | 130.9 | 652.6 | 138.6 |
| 12 | MR | 131.7 | 297.9 | 328.8 | 330.2 | 297.5 | 3086.2 | 564.5 | 40.2 | 74.6 | 1605.1 | 186.5 | 240.8 | 1601.5 |
| 13 | MR | 125.3 | 302.1 | 321.9 | 322.6 | 301.3 | 1910.4 | 350.3 | 14.9 | 79.4 | 996.3 | 62.3 | 64.2 | 963.4 |
| 14 | MR | 128.0 | 302.6 | 319.8 | 323.0 | 302.4 | 2137.9 | 286.1 | 106.2 | 29.2 | 750.9 | 395.7 | 422.5 | 744.0 |
| 15 | MR | 184.1 | 283.6 | 248.8 | 285.1 | 248.8 | 1449.7 | 219.7 | 15.2 | 58.4 | 637.0 | 76.1 | 560.2 | 76.1 |
| 16 | MR | 156.0 | 251.3 | 222.3 | 254.7 | 222.0 | 1295.7 | 191.0 | 13.7 | 58.7 | 552.3 | 65.0 | 304.7 | 129.7 |
| 17 | MR | 109.1 | 296.0 | 313.7 | 313.7 | 294.7 | 1815.9 | 349.9 | 8.6 | 84.5 | 981.2 | 40.0 | 40.0 | 944.6 |
| 18 | MR | 164.4 | 249.0 | 221.8 | 250.8 | 220.6 | 1096.2 | 196.2 | 6.6 | 68.0 | 530.8 | 41.0 | 444.0 | 79.0 |
| 19 | MR | 117.0 | 288.0 | 326.0 | 326.0 | 288.0 | 2823.0 | 546.0 | 32.0 | 78.0 | 1470.0 | 141.0 | 141.0 | 1470.0 |
| 20 | MR | 177.6 | 292.6 | 312.7 | 330.5 | 292.5 | 1974.7 | 368.4 | 20.1 | 77.3 | 1033.1 | 89.4 | 152.7 | 931.4 |
| 21 | MR | 168.9 | 305.3 | 323.0 | 329.1 | 303.5 | 1877.1 | 273.1 | 35.3 | 52.0 | 733.2 | 116.5 | 197.1 | 671.6 |
| 22 | MR | 137.0 | 302.0 | 324.0 | 327.0 | 302.0 | 2824.0 | 447.0 | 66.0 | 59.0 | 1308.0 | 308.0 | 341.0 | 1308.0 |
| 23 | MR | 153.0 | 289.6 | 301.4 | 318.0 | 289.6 | 1570.8 | 304.2 | 25.6 | 76.6 | 845.8 | 88.4 | 222.6 | 845.8 |
| 24 | MR | 159.5 | 303.6 | 333.2 | 340.6 | 303.6 | 2716.6 | 529.3 | 24.7 | 84.2 | 1499.1 | 91.9 | 202.4 | 1499.1 |
| 25 | MR | 170.7 | 309.3 | 328.3 | 335.0 | 307.7 | 1858.0 | 271.7 | 35.3 | 52.0 | 727.7 | 116.3 | 148.3 | 660.7 |
| 26 | MR | 139.7 | 301.5 | 333.6 | 340.8 | 301.5 | 2421.1 | 385.8 | 48.8 | 59.0 | 1091.9 | 198.4 | 208.2 | 1091.9 |
| 27 | MR | 144.6 | 301.7 | 336.6 | 346.7 | 301.7 | 2224.6 | 358.1 | 38.4 | 58.7 | 971.5 | 159.9 | 178.9 | 971.5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 28 | MR | 139.2 | 301.5 | 332.0 | 340.1 | 301.3 | 2587.8 | 389.5 | 53.5 | 53.8 | 1071.8 | 232.0 | 241.2 | 1068.4 |
| 29 | MR | 172.5 | 298.5 | 363.3 | 365.7 | 298.5 | 2469.2 | 478.0 | 24.4 | 79.1 | 1324.3 | 90.3 | 92.6 | 1324.3 |
| 30 | MR | 146.0 | 303.0 | 339.0 | 350.0 | 303.0 | 2126.0 | 342.0 | 36.0 | 62.0 | 960.0 | 138.0 | 138.0 | 960.0 |
| 31 | MR | 127.7 | 274.3 | 326.4 | 326.4 | 273.9 | 2024.7 | 457.2 | 15.7 | 88.5 | 1158.5 | 55.4 | 55.4 | 1097.3 |
| 32 | MR | 143.1 | 299.7 | 339.2 | 340.7 | 299.0 | 2697.4 | 425.9 | 60.2 | 57.3 | 1138.8 | 233.8 | 292.0 | 1103.4 |
| 33 | MR | 135.3 | 302.0 | 323.7 | 326.7 | 302.0 | 2554.7 | 409.0 | 59.7 | 58.7 | 1181.7 | 284.3 | 316.3 | 1181.7 |
| 34 | MR | 114.7 | 288.3 | 324.9 | 324.9 | 288.1 | 2702.2 | 530.9 | 24.3 | 80.6 | 1404.3 | 107.0 | 107.0 | 1404.2 |
| 35 | MR | 172.5 | 298.0 | 334.5 | 340.5 | 298.0 | 2028.0 | 296.5 | 19.5 | 55.5 | 855.0 | 121.0 | 153.0 | 855.0 |
| 36 | MR | 152.6 | 285.9 | 298.6 | 315.4 | 285.9 | 1637.1 | 319.0 | 26.2 | 76.6 | 878.7 | 86.9 | 229.4 | 878.7 |
| 37 | MR | 184.7 | 293.6 | 324.1 | 338.4 | 293.6 | 2010.3 | 334.7 | 28.5 | 66.1 | 951.7 | 107.4 | 203.7 | 951.7 |
| 38 | MR | 145.4 | 302.9 | 339.0 | 349.0 | 302.9 | 2159.8 | 347.8 | 36.8 | 60.9 | 963.6 | 145.8 | 153.3 | 963.6 |
| 39 | MR | 175.7 | 295.7 | 257.7 | 296.3 | 257.7 | 1400.0 | 204.3 | 14.7 | 56.7 | 601.3 | 80.0 | 556.7 | 80.0 |
| 40 | MR | 182.8 | 280.3 | 302.6 | 318.8 | 280.3 | 1921.1 | 379.8 | 18.7 | 78.3 | 1028.6 | 80.2 | 225.6 | 1028.6 |
| 41 | MR | 122.5 | 302.5 | 316.1 | 317.5 | 302.0 | 2311.8 | 305.0 | 120.9 | 28.3 | 808.5 | 427.6 | 445.8 | 784.2 |
| 42 | MR | 195.0 | 318.0 | 302.0 | 326.0 | 285.0 | 953.5 | 145.5 | 17.5 | 56.0 | 409.0 | 69.0 | 288.5 | 172.0 |
| 43 | MR | 197.5 | 323.0 | 280.0 | 323.0 | 265.0 | 1238.5 | 213.5 | 21.0 | 60.0 | 574.5 | 82.5 | 574.5 | 129.0 |
| 44 | MR | 195.9 | 318.8 | 334.4 | 347.4 | 318.8 | 1494.6 | 220.5 | 14.8 | 60.0 | 640.9 | 60.8 | 187.8 | 640.9 |
| 45 | MR | 199.3 | 318.0 | 328.0 | 343.0 | 318.0 | 1440.0 | 205.0 | 18.0 | 58.3 | 605.7 | 71.0 | 185.3 | 556.0 |
| 46 | MR | 195.0 | 318.0 | 302.0 | 326.0 | 285.0 | 953.5 | 145.5 | 17.5 | 56.0 | 409.0 | 69.0 | 288.5 | 172.0 |
| 47 | MR | 192.9 | 317.2 | 310.6 | 326.7 | 300.2 | 1403.4 | 209.1 | 18.6 | 53.0 | 573.0 | 108.0 | 275.9 | 138.4 |
| 48 | MR | 193.5 | 313.5 | 282.8 | 315.1 | 274.6 | 1806.2 | 260.3 | 26.4 | 54.1 | 752.9 | 123.4 | 659.1 | 126.3 |
| 49 | MR | 163.0 | 300.0 | 285.1 | 302.5 | 274.6 | 2013.6 | 282.2 | 36.9 | 50.3 | 799.5 | 160.9 | 444.0 | 169.1 |
| 50 | MR | 133.0 | 306.0 | 323.0 | 323.0 | 306.0 | 3349.3 | 415.7 | 109.0 | 37.0 | 1221.3 | 423.7 | 423.7 | 1216.7 |
| 51 | MR | 170.7 | 227.0 | 197.6 | 228.8 | 197.0 | 1123.4 | 188.1 | 8.6 | 65.1 | 520.4 | 48.6 | 384.1 | 74.2 |
| 52 | MR | 209.4 | 302.3 | 257.6 | 302.4 | 247.1 | 1103.1 | 189.1 | 17.7 | 63.7 | 516.0 | 67.1 | 498.6 | 95.7 |
| 53 | MR | 193.0 | 322.1 | 301.3 | 323.5 | 286.9 | 1915.8 | 275.0 | 27.6 | 52.6 | 800.0 | 147.3 | 502.2 | 326.6 |
| 54 | MR | 170.7 | 277.1 | 252.8 | 280.0 | 245.4 | 1577.2 | 227.2 | 24.4 | 53.6 | 644.6 | 105.6 | 446.1 | 146.7 |
| 55 | MR | 146.6 | 300.4 | 312.3 | 312.3 | 295.7 | 2542.4 | 273.0 | 78.1 | 29.7 | 786.9 | 330.5 | 330.5 | 755.2 |
| 56 | MR | 96.4 | 287.1 | 290.0 | 291.0 | 287.0 | 2897.6 | 325.4 | 138.6 | 25.0 | 927.9 | 483.3 | 669.9 | 806.9 |
| 57 | MR | 134.0 | 302.0 | 324.0 | 327.0 | 302.0 | 2332.0 | 379.0 | 55.0 | 60.0 | 1082.0 | 255.0 | 283.0 | 1082.0 |
| 58 | MR | 134.0 | 302.0 | 323.0 | 326.0 | 302.0 | 2416.0 | 388.0 | 56.0 | 59.0 | 1116.0 | 268.0 | 299.0 | 1116.0 |
| 59 | MR | 144.0 | 298.0 | 330.0 | 342.0 | 298.0 | 2422.0 | 342.0 | 52.0 | 51.0 | 950.0 | 219.0 | 309.0 | 950.0 |
| 60 | MR | 170.0 | 301.0 | 304.0 | 318.0 | 298.0 | 1645.0 | 225.0 | 25.0 | 54.0 | 638.0 | 81.0 | 238.0 | 206.0 |
| 61 | MR | 183.5 | 303.0 | 263.5 | 304.0 | 263.5 | 1549.5 | 219.0 | 21.5 | 54.0 | 650.0 | 103.0 | 600.0 | 103.0 |
| 62 | MR | 118.7 | 283.3 | 312.9 | 314.8 | 283.2 | 1669.9 | 327.2 | 38.0 | 66.6 | 839.2 | 153.7 | 174.3 | 838.8 |
| 63 | MR | 138.8 | 304.0 | 295.0 | 324.0 | 295.0 | 2273.0 | 412.3 | 72.8 | 58.8 | 1049.5 | 281.3 | 356.0 | 281.3 |
| 64 | MR | 153.2 | 308.2 | 333.5 | 337.0 | 302.2 | 1945.9 | 364.3 | 45.1 | 63.0 | 913.4 | 219.7 | 222.8 | 271.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 65 | MR | 126.3 | 288.6 | 293.7 | 296.3 | 287.4 | 3543.1 | 416.7 | 211.0 | 18.8 | 1054.4 | 709.4 | 768.5 | 1005.0 |
| 66 | MR | 114.0 | 293.0 | 310.0 | 311.0 | 291.0 | 3046.0 | 580.0 | 41.0 | 70.0 | 1441.0 | 135.0 | 177.0 | 958.0 |
| 67 | MR | 113.0 | 297.0 | 311.0 | 311.0 | 291.0 | 1896.0 | 404.0 | 30.0 | 72.0 | 983.0 | 94.0 | 94.0 | 461.0 |
| 68 | MR | 128.4 | 221.7 | 216.7 | 225.2 | 215.9 | 1659.4 | 318.3 | 73.5 | 52.1 | 736.9 | 259.6 | 299.2 | 296.7 |
| 69 | MR | 199.7 | 158.9 | 157.1 | 168.8 | 155.2 | 1178.8 | 176.2 | 19.9 | 51.0 | 486.3 | 91.3 | 286.6 | 154.3 |
| 70 | MR | 173.3 | 254.7 | 264.9 | 267.2 | 253.4 | 2899.1 | 384.8 | 64.8 | 39.8 | 1053.6 | 315.9 | 482.1 | 922.1 |
| 71 | MR | 151.1 | 282.6 | 320.4 | 322.2 | 281.9 | 1955.7 | 312.8 | 60.7 | 51.1 | 861.4 | 222.3 | 246.8 | 810.8 |
| 72 | MR | 143.3 | 308.0 | 335.0 | 335.0 | 308.0 | 2863.0 | 427.0 | 57.3 | 49.0 | 1178.7 | 274.7 | 274.7 | 1172.0 |
| 73 | MR | 143.0 | 308.0 | 335.0 | 335.0 | 308.0 | 2882.0 | 427.5 | 57.5 | 48.5 | 1181.0 | 277.5 | 277.5 | 1175.5 |
| 74 | MR | 112.5 | 279.5 | 281.5 | 287.0 | 279.0 | 3629.0 | 511.5 | 182.0 | 30.0 | 1291.0 | 634.5 | 731.0 | 1068.0 |
| 75 | MR | 169.1 | 289.7 | 286.3 | 300.8 | 284.5 | 1839.6 | 241.7 | 28.4 | 54.0 | 699.3 | 91.6 | 474.6 | 564.3 |
| 76 | MR | 94.1 | 286.5 | 286.4 | 288.9 | 283.7 | 3500.9 | 412.4 | 193.3 | 21.8 | 1110.5 | 641.2 | 846.8 | 888.1 |
| 77 | MR | 162.2 | 300.3 | 318.5 | 331.7 | 299.9 | 1714.4 | 355.9 | 27.3 | 81.5 | 917.3 | 86.5 | 125.3 | 916.2 |
| 78 | MR | 234.3 | 293.0 | 315.3 | 331.0 | 293.0 | 1699.7 | 296.3 | 6.0 | 77.0 | 849.7 | 40.0 | 158.7 | 849.7 |
| 79 | MR | 224.7 | 282.7 | 307.7 | 328.9 | 281.1 | 2145.3 | 402.2 | 10.3 | 79.9 | 1094.0 | 38.4 | 204.2 | 1088.8 |
| 80 | MR | 128.3 | 243.7 | 250.3 | 253.0 | 241.0 | 3742.0 | 861.3 | 154.7 | 64.3 | 1818.0 | 539.3 | 563.0 | 1243.0 |
| 81 | MR | 128.7 | 212.7 | 217.7 | 220.3 | 209.3 | 3452.3 | 844.7 | 140.0 | 70.3 | 1782.0 | 469.3 | 492.0 | 784.3 |
| 82 | MR | 218.9 | 315.3 | 319.0 | 337.2 | 315.3 | 1304.6 | 224.1 | 8.0 | 68.6 | 624.6 | 48.5 | 159.5 | 593.4 |
| 83 | MR | 125.8 | 263.4 | 307.9 | 308.0 | 262.0 | 2592.8 | 464.6 | 41.5 | 69.6 | 1234.5 | 166.7 | 166.8 | 1148.9 |
| 84 | MR | 101.0 | 303.3 | 301.2 | 303.3 | 299.1 | 3192.5 | 424.7 | 168.2 | 28.6 | 1048.6 | 535.1 | 1006.7 | 721.7 |
| 85 | MR | 250.0 | 303.8 | 316.5 | 341.3 | 303.8 | 1429.3 | 264.0 | 1.4 | 83.8 | 781.2 | 21.1 | 146.2 | 781.2 |
| 86 | MR | 129.0 | 302.0 | 317.3 | 319.7 | 300.8 | 1807.2 | 274.6 | 72.2 | 42.0 | 688.6 | 285.8 | 287.3 | 674.0 |
| 87 | MR | 167.3 | 281.8 | 333.3 | 333.4 | 281.2 | 2459.5 | 435.1 | 54.8 | 60.9 | 1162.5 | 199.2 | 199.4 | 1096.8 |
| 88 | MR | 166.7 | 292.7 | 324.8 | 333.3 | 292.7 | 2178.3 | 338.6 | 19.6 | 62.1 | 981.1 | 95.8 | 261.8 | 981.1 |
| 89 | MR | 171.8 | 290.7 | 352.0 | 356.9 | 290.5 | 2888.5 | 606.7 | 41.4 | 72.5 | 1402.5 | 150.2 | 193.1 | 1399.5 |
| 90 | MR | 122.4 | 298.3 | 315.9 | 315.9 | 295.6 | 3048.6 | 364.9 | 91.4 | 32.1 | 1046.1 | 424.5 | 424.5 | 1001.5 |
| 91 | MR | 173.9 | 285.0 | 316.0 | 329.6 | 285.0 | 2037.6 | 367.3 | 16.5 | 74.7 | 1038.0 | 80.3 | 151.8 | 1038.0 |
| 92 | MR | 175.6 | 296.9 | 342.0 | 348.6 | 296.9 | 1958.6 | 323.1 | 35.0 | 61.1 | 877.2 | 127.0 | 177.9 | 877.2 |
| 93 | MR | 113.2 | 274.5 | 307.0 | 307.7 | 274.5 | 2675.7 | 455.2 | 55.5 | 67.1 | 1228.9 | 193.9 | 196.1 | 1228.9 |
| 94 | MR | 107.1 | 291.4 | 294.3 | 295.7 | 290.7 | 2643.7 | 334.2 | 163.9 | 20.3 | 786.7 | 536.7 | 603.5 | 655.4 |
| 95 | MR | 133.9 | 302.9 | 311.0 | 323.9 | 301.1 | 1870.9 | 279.3 | 88.4 | 32.6 | 643.7 | 339.7 | 392.0 | 640.8 |
| 96 | MR | 169.0 | 294.7 | 332.9 | 333.2 | 294.7 | 2288.5 | 316.4 | 33.7 | 45.5 | 878.6 | 208.9 | 209.7 | 878.6 |
| 97 | MR | 177.2 | 299.8 | 332.4 | 339.2 | 299.8 | 2114.9 | 311.4 | 24.3 | 58.4 | 909.0 | 95.3 | 182.4 | 909.0 |
| 98 | MR | 184.8 | 281.3 | 301.9 | 319.7 | 281.0 | 1945.0 | 353.4 | 21.1 | 74.5 | 989.0 | 94.3 | 171.3 | 909.8 |
| 99 | MR | 133.4 | 282.7 | 323.1 | 323.3 | 282.7 | 2735.7 | 496.8 | 40.8 | 71.5 | 1346.0 | 154.0 | 154.7 | 1346.0 |
| 100 | MR | 185.4 | 295.1 | 324.7 | 339.9 | 295.1 | 1969.1 | 320.1 | 28.4 | 64.9 | 933.2 | 109.4 | 204.6 | 933.2 |
| 101 | MR | 181.7 | 300.1 | 346.6 | 353.9 | 300.1 | 2010.2 | 318.3 | 40.0 | 61.3 | 892.2 | 134.0 | 176.6 | 892.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | MR | 179.7 | 290.2 | 335.5 | 343.2 | 290.2 | 2062.3 | 364.1 | 29.5 | 68.0 | 983.1 | 117.5 | 154.5 | 983.1 |
| 103 | MR | 168.7 | 290.1 | 326.0 | 332.1 | 290.1 | 2048.2 | 313.0 | 23.7 | 58.0 | 860.0 | 116.2 | 215.1 | 860.0 |
| 104 | MR | 170.0 | 301.7 | 331.3 | 334.0 | 301.6 | 1996.8 | 278.9 | 23.5 | 50.4 | 776.2 | 143.3 | 166.6 | 775.7 |
| 105 | MR | 185.0 | 284.3 | 305.4 | 323.2 | 284.3 | 1991.4 | 377.3 | 20.5 | 75.2 | 1035.9 | 101.7 | 165.9 | 1034.2 |
| 106 | MR | 178.1 | 298.0 | 341.5 | 349.3 | 298.0 | 2069.5 | 329.8 | 41.0 | 61.7 | 929.3 | 131.5 | 185.8 | 929.3 |
| 107 | MR | 166.2 | 292.3 | 326.5 | 333.0 | 292.3 | 2082.5 | 311.0 | 21.9 | 58.3 | 888.6 | 115.0 | 210.7 | 888.6 |
| 108 | MR | 191.7 | 288.6 | 312.3 | 330.8 | 288.6 | 2018.8 | 368.4 | 18.1 | 73.9 | 1010.5 | 78.7 | 196.7 | 1010.5 |
| 109 | MR | 168.9 | 291.2 | 323.2 | 332.2 | 291.2 | 2245.5 | 364.2 | 14.5 | 65.2 | 1042.4 | 85.1 | 256.8 | 1042.4 |
| 110 | MR | 199.4 | 294.5 | 323.2 | 339.3 | 294.0 | 1951.9 | 300.9 | 22.5 | 58.0 | 843.3 | 111.9 | 282.1 | 842.4 |
| 111 | MR | 170.7 | 293.0 | 303.5 | 311.9 | 290.0 | 1772.7 | 246.1 | 19.1 | 56.9 | 703.6 | 70.5 | 240.2 | 667.3 |
| 112 | MR | 157.9 | 291.2 | 314.5 | 314.5 | 291.2 | 2265.2 | 322.4 | 40.4 | 45.9 | 884.5 | 205.6 | 205.6 | 884.4 |
| 113 | MR | 140.0 | 260.8 | 318.6 | 319.6 | 260.7 | 2061.9 | 429.3 | 24.8 | 79.4 | 1077.8 | 106.1 | 110.1 | 1077.5 |
| 114 | MR | 170.2 | 299.6 | 348.1 | 352.7 | 299.6 | 2052.5 | 329.5 | 41.5 | 60.8 | 903.3 | 143.0 | 186.0 | 903.3 |
| 115 | MR | 159.1 | 293.5 | 319.3 | 319.3 | 293.5 | 2216.5 | 316.8 | 32.2 | 47.8 | 870.4 | 184.3 | 184.3 | 870.4 |
| 116 | MR | 132.0 | 293.3 | 307.9 | 309.8 | 293.1 | 1918.7 | 319.3 | 56.4 | 46.6 | 759.6 | 276.6 | 334.3 | 726.3 |
| 117 | MR | 163.4 | 296.4 | 309.6 | 315.3 | 292.2 | 1895.3 | 257.0 | 29.5 | 53.1 | 736.1 | 105.7 | 274.7 | 702.2 |
| 118 | MR | 171.4 | 294.4 | 305.1 | 313.5 | 291.5 | 1775.3 | 247.5 | 20.5 | 56.4 | 702.5 | 73.5 | 242.2 | 672.1 |
| 119 | MR | 172.3 | 288.8 | 352.0 | 356.4 | 288.8 | 2660.9 | 580.7 | 28.6 | 78.8 | 1392.1 | 101.2 | 123.7 | 1392.1 |
| 120 | MR | 168.6 | 282.1 | 336.5 | 336.8 | 281.9 | 1905.2 | 363.4 | 20.3 | 78.3 | 992.8 | 85.3 | 85.4 | 989.5 |
| 121 | MR | 179.1 | 287.2 | 308.0 | 325.7 | 287.1 | 2019.0 | 387.8 | 20.1 | 77.6 | 1068.3 | 95.2 | 151.4 | 1046.8 |
| 122 | MR | 130.0 | 298.8 | 317.1 | 317.6 | 298.8 | 2587.8 | 309.4 | 120.1 | 28.3 | 884.5 | 390.7 | 497.3 | 884.5 |
| 123 | MR | 212.4 | 298.5 | 324.0 | 342.4 | 298.5 | 1962.4 | 321.4 | 16.7 | 62.9 | 901.6 | 103.2 | 261.2 | 901.6 |
| 124 | MR | 160.5 | 296.1 | 331.0 | 331.4 | 296.1 | 2557.4 | 304.5 | 56.2 | 36.2 | 886.8 | 290.4 | 350.4 | 886.8 |
| 125 | MR | 212.4 | 298.1 | 324.3 | 339.5 | 296.6 | 1998.0 | 314.1 | 13.2 | 65.9 | 919.3 | 77.1 | 257.0 | 902.0 |
| 126 | MR | 168.2 | 292.8 | 350.2 | 354.9 | 292.7 | 2581.0 | 541.0 | 37.1 | 73.0 | 1255.2 | 135.7 | 163.4 | 1253.8 |
| 127 | MR | 171.0 | 288.0 | 319.0 | 329.0 | 288.0 | 2203.0 | 365.0 | 6.0 | 68.0 | 1006.0 | 61.0 | 257.0 | 1006.0 |
| 128 | MR | 173.0 | 284.0 | 316.0 | 326.0 | 284.0 | 2040.0 | 349.0 | 4.0 | 71.0 | 982.0 | 54.0 | 216.0 | 982.0 |
| 129 | MR | 167.8 | 289.3 | 323.9 | 331.2 | 289.3 | 2075.3 | 320.7 | 22.4 | 59.5 | 892.0 | 107.5 | 248.7 | 892.0 |
| 130 | MR | 170.9 | 296.5 | 332.9 | 338.3 | 296.5 | 2070.0 | 300.4 | 17.5 | 55.1 | 868.5 | 131.8 | 155.8 | 868.5 |
| 131 | MR | 170.0 | 286.0 | 318.0 | 328.0 | 286.0 | 2194.0 | 362.0 | 8.0 | 67.0 | 1003.0 | 67.0 | 260.0 | 1003.0 |
| 132 | MR | 171.4 | 287.0 | 318.0 | 328.2 | 287.0 | 2196.2 | 364.0 | 5.6 | 68.0 | 999.6 | 58.0 | 257.8 | 999.6 |
| 133 | MR | 171.0 | 288.0 | 319.0 | 329.0 | 288.0 | 2201.0 | 364.0 | 7.0 | 67.0 | 1007.0 | 66.0 | 259.0 | 1007.0 |
| 134 | MR | 175.0 | 299.0 | 335.0 | 340.7 | 299.0 | 2029.7 | 290.7 | 22.3 | 55.0 | 845.3 | 117.3 | 154.7 | 845.3 |
| 135 | MR | 172.0 | 289.0 | 319.0 | 330.0 | 289.0 | 2197.0 | 363.0 | 5.0 | 68.0 | 999.0 | 57.0 | 257.0 | 999.0 |
| 136 | MR | 118.5 | 278.0 | 306.0 | 306.3 | 276.2 | 2887.0 | 481.1 | 43.7 | 69.0 | 1330.9 | 160.1 | 164.2 | 1280.2 |
| 137 | MR | 176.3 | 283.1 | 308.8 | 324.4 | 283.1 | 1984.3 | 380.4 | 9.6 | 77.1 | 1043.2 | 75.0 | 151.9 | 1043.2 |
| 138 | MR | 190.5 | 290.8 | 320.8 | 332.9 | 289.6 | 2105.2 | 336.6 | 12.2 | 68.6 | 978.2 | 65.6 | 242.2 | 975.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 139 | MR | 171.4 | 300.9 | 352.8 | 356.8 | 300.9 | 2045.6 | 336.2 | 41.6 | 62.5 | 940.7 | 140.2 | 163.1 | 940.7 |
| 140 | MR | 128.1 | 259.2 | 310.8 | 311.4 | 259.1 | 2445.9 | 466.5 | 36.8 | 73.2 | 1206.9 | 155.0 | 159.5 | 1196.7 |
| 141 | MR | 144.1 | 300.1 | 342.3 | 343.8 | 299.6 | 2507.3 | 365.8 | 55.8 | 52.4 | 998.5 | 223.6 | 297.9 | 995.4 |
| 142 | MR | 220.7 | 299.1 | 324.0 | 341.0 | 298.0 | 1930.4 | 306.7 | 14.3 | 64.6 | 878.1 | 85.6 | 254.0 | 871.9 |
| 143 | MR | 163.3 | 293.9 | 332.9 | 332.9 | 293.9 | 2272.1 | 308.6 | 49.9 | 43.3 | 879.3 | 232.6 | 233.0 | 879.3 |
| 144 | MR | 171.8 | 287.5 | 343.3 | 347.2 | 286.9 | 2755.2 | 539.4 | 59.9 | 65.1 | 1277.5 | 201.4 | 218.9 | 1236.3 |
| 145 | MR | 127.4 | 289.5 | 311.7 | 311.7 | 286.6 | 2205.7 | 388.4 | 55.2 | 60.2 | 1036.3 | 197.8 | 197.8 | 581.7 |
| 146 | MR | 140.0 | 301.4 | 304.6 | 324.2 | 301.2 | 1630.6 | 265.3 | 56.4 | 49.7 | 679.6 | 185.1 | 300.4 | 679.1 |
| 147 | MR | 117.8 | 290.6 | 301.5 | 307.1 | 288.8 | 1742.4 | 316.3 | 24.8 | 66.9 | 833.1 | 96.5 | 356.1 | 770.8 |
| 148 | MR | 116.6 | 292.2 | 303.8 | 312.0 | 292.2 | 1802.8 | 292.4 | 34.4 | 58.6 | 793.2 | 128.8 | 378.2 | 793.2 |
| 149 | MR | 148.4 | 296.6 | 324.9 | 327.3 | 296.6 | 2628.2 | 419.3 | 23.5 | 63.9 | 1220.5 | 123.9 | 283.4 | 1220.5 |
| 150 | MR | 127.3 | 267.8 | 277.6 | 285.6 | 265.3 | 2509.7 | 392.4 | 48.3 | 53.6 | 1030.8 | 185.7 | 611.9 | 984.0 |
| 151 | MR | 124.4 | 292.1 | 304.1 | 308.0 | 290.0 | 1811.1 | 400.0 | 19.8 | 77.6 | 955.3 | 68.9 | 140.1 | 800.1 |
| 152 | MR | 126.9 | 286.1 | 296.6 | 299.6 | 282.8 | 3012.6 | 500.0 | 55.7 | 58.1 | 1263.7 | 221.7 | 616.2 | 1118.0 |
| 153 | MR | 131.5 | 297.9 | 297.9 | 318.3 | 295.9 | 1911.6 | 324.6 | 59.4 | 53.5 | 826.2 | 211.2 | 362.1 | 520.9 |
| 154 | MR | 120.9 | 291.5 | 305.2 | 307.4 | 289.5 | 2403.3 | 480.9 | 29.9 | 72.9 | 1218.6 | 104.5 | 338.9 | 1057.1 |
| 155 | MR | 145.8 | 287.3 | 310.6 | 311.0 | 287.2 | 3369.9 | 468.0 | 74.8 | 47.7 | 1362.6 | 331.8 | 375.2 | 1348.3 |
| 156 | MR | 115.0 | 293.0 | 310.0 | 310.0 | 291.0 | 3008.0 | 570.0 | 40.0 | 69.0 | 1418.0 | 134.0 | 176.0 | 950.0 |
| 157 | MR | 146.0 | 305.0 | 330.0 | 330.0 | 305.0 | 3417.0 | 460.0 | 83.0 | 44.0 | 1349.0 | 376.0 | 376.0 | 1349.0 |
| 158 | MR | 202.0 | 309.0 | 267.0 | 309.5 | 250.5 | 975.8 | 135.8 | 17.0 | 49.8 | 384.0 | 62.8 | 363.8 | 147.3 |
| 159 | MR | 128.7 | 277.4 | 287.2 | 289.3 | 273.7 | 3479.4 | 504.2 | 95.1 | 45.7 | 1318.9 | 369.0 | 744.3 | 1239.3 |
| 160 | MR | 121.4 | 302.4 | 326.8 | 328.0 | 302.4 | 1640.2 | 300.2 | 29.8 | 63.6 | 804.6 | 128.4 | 148.2 | 804.6 |
| 161 | MR | 115.2 | 296.0 | 317.4 | 317.4 | 294.6 | 1674.0 | 295.6 | 33.6 | 61.8 | 809.8 | 136.0 | 136.0 | 377.8 |
| 162 | MR | 117.5 | 294.3 | 315.0 | 315.0 | 291.5 | 1785.0 | 347.7 | 35.7 | 65.5 | 887.7 | 132.7 | 132.7 | 398.8 |
| 163 | MR | 131.0 | 286.0 | 314.9 | 314.9 | 286.0 | 2200.1 | 402.4 | 42.0 | 64.0 | 1073.6 | 171.8 | 171.8 | 1073.6 |
| 164 | MR | 161.3 | 290.4 | 290.7 | 301.3 | 283.9 | 2007.6 | 264.4 | 36.1 | 48.4 | 755.2 | 138.8 | 352.8 | 633.6 |
| 165 | MR | 185.0 | 300.4 | 353.0 | 358.6 | 300.4 | 2073.9 | 343.9 | 35.8 | 64.9 | 966.9 | 129.2 | 156.4 | 966.9 |
| 166 | MR | 211.9 | 289.2 | 247.5 | 289.2 | 237.7 | 1014.6 | 167.9 | 15.8 | 59.8 | 456.3 | 65.9 | 448.9 | 88.0 |
| 167 | MR | 138.6 | 303.2 | 333.4 | 341.7 | 303.2 | 2569.8 | 412.3 | 49.1 | 58.9 | 1155.3 | 209.4 | 218.0 | 1155.3 |
| 168 | MR | 155.2 | 285.9 | 268.4 | 288.7 | 261.4 | 2830.3 | 400.7 | 66.8 | 48.8 | 1133.4 | 246.7 | 709.4 | 258.9 |
| 169 | MR | 128.1 | 277.8 | 304.5 | 304.5 | 275.7 | 2468.2 | 412.5 | 48.4 | 62.5 | 1138.9 | 177.5 | 178.6 | 893.4 |
| 170 | MR | 180.7 | 289.8 | 321.5 | 332.3 | 288.9 | 2193.0 | 342.1 | 16.9 | 65.3 | 990.8 | 79.8 | 269.8 | 988.4 |
| 171 | MR | 130.6 | 257.3 | 267.2 | 273.9 | 253.8 | 2880.5 | 441.2 | 54.3 | 51.8 | 1146.7 | 214.5 | 727.6 | 1079.1 |
| 172 | MR | 233.3 | 268.0 | 225.2 | 272.3 | 223.3 | 1654.5 | 277.5 | 24.4 | 69.3 | 771.8 | 93.2 | 640.7 | 95.3 |
| 173 | MR | 126.2 | 181.4 | 185.0 | 187.4 | 178.8 | 1971.3 | 263.5 | 99.7 | 32.5 | 728.9 | 328.5 | 348.8 | 510.3 |
| 174 | MR | 159.5 | 281.4 | 284.3 | 287.1 | 277.8 | 2828.9 | 459.8 | 141.2 | 43.0 | 1129.5 | 453.1 | 543.4 | 626.1 |
| 175 | MR | 124.2 | 275.2 | 301.5 | 301.5 | 272.2 | 2504.3 | 407.7 | 48.8 | 62.7 | 1144.4 | 177.6 | 177.6 | 961.1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 176 | MR | 123.9 | 287.5 | 303.5 | 303.7 | 283.9 | 3403.1 | 579.2 | 30.5 | 72.5 | 1610.0 | 108.6 | 137.0 | 1336.0 |
| 177 | MR | 175.8 | 291.3 | 327.3 | 339.2 | 291.3 | 2274.7 | 398.9 | 34.0 | 68.5 | 1084.8 | 117.3 | 191.3 | 1084.8 |
| 178 | MR | 110.9 | 290.0 | 298.2 | 298.9 | 288.4 | 3016.5 | 449.5 | 158.9 | 36.1 | 1190.1 | 524.6 | 530.9 | 1039.6 |
| 179 | MR | 125.4 | 245.7 | 250.4 | 254.8 | 242.6 | 3706.9 | 851.1 | 152.5 | 63.2 | 1803.4 | 528.4 | 561.9 | 1077.1 |
| 180 | MR | 133.9 | 301.5 | 323.7 | 326.2 | 301.0 | 2614.5 | 343.4 | 99.7 | 38.4 | 974.7 | 383.9 | 397.9 | 920.1 |
| 181 | MR | 216.4 | 298.9 | 323.7 | 342.3 | 298.9 | 1953.9 | 323.8 | 15.4 | 65.2 | 909.4 | 94.6 | 248.9 | 908.6 |
| 182 | MR | 131.4 | 272.3 | 299.1 | 301.1 | 272.2 | 3177.1 | 532.1 | 70.7 | 51.0 | 1382.6 | 344.2 | 375.5 | 1294.4 |
| 183 | MR | 127.6 | 169.0 | 177.8 | 179.9 | 165.1 | 1995.3 | 386.0 | 90.7 | 52.3 | 905.1 | 292.5 | 310.2 | 770.3 |
| 184 | MR | 166.6 | 269.0 | 246.6 | 272.1 | 241.4 | 1735.6 | 251.6 | 28.5 | 54.4 | 715.1 | 120.8 | 428.6 | 142.8 |
| 185 | MR | 145.7 | 265.1 | 257.9 | 272.8 | 257.6 | 2278.7 | 303.0 | 47.6 | 46.5 | 869.2 | 199.1 | 509.7 | 277.0 |
| 186 | MR | 175.0 | 300.6 | 335.3 | 339.4 | 300.6 | 2009.2 | 280.2 | 22.1 | 51.8 | 802.5 | 136.2 | 160.2 | 786.5 |
| 187 | MR | 118.4 | 270.2 | 301.7 | 301.9 | 267.5 | 2670.2 | 444.8 | 51.6 | 65.2 | 1220.0 | 189.4 | 189.8 | 1140.9 |
| 188 | MR | 135.0 | 231.8 | 240.0 | 256.5 | 231.8 | 1900.8 | 343.8 | 44.8 | 53.6 | 841.1 | 236.6 | 350.8 | 841.1 |
| 189 | MR | 156.7 | 292.5 | 332.8 | 333.4 | 292.5 | 2307.7 | 316.4 | 48.9 | 45.8 | 900.2 | 227.2 | 229.3 | 900.2 |
| 190 | MR | 103.7 | 226.6 | 226.5 | 227.2 | 223.3 | 2760.7 | 370.2 | 150.3 | 33.1 | 1058.1 | 473.8 | 742.9 | 691.8 |
| 191 | MR | 102.6 | 291.3 | 292.7 | 294.6 | 291.0 | 2738.8 | 331.5 | 112.6 | 26.0 | 915.6 | 439.8 | 664.5 | 801.5 |
| 192 | MR | 104.4 | 298.2 | 294.9 | 301.3 | 294.9 | 2972.4 | 334.2 | 155.5 | 20.0 | 921.8 | 545.0 | 772.5 | 550.3 |
| 193 | MR | 107.9 | 185.3 | 181.8 | 187.1 | 180.7 | 1906.0 | 205.7 | 93.9 | 19.6 | 572.0 | 349.6 | 522.1 | 452.9 |
| 194 | MR | 95.8 | 230.5 | 232.1 | 233.9 | 228.3 | 2169.5 | 248.3 | 121.9 | 19.9 | 654.4 | 418.0 | 471.4 | 532.5 |
| 195 | MR | 103.0 | 175.0 | 174.5 | 177.0 | 169.0 | 2551.5 | 352.0 | 142.0 | 33.5 | 977.0 | 445.0 | 848.5 | 716.0 |
| 196 | MR | 107.3 | 287.0 | 295.2 | 295.8 | 285.2 | 3058.9 | 420.3 | 157.3 | 33.3 | 1152.6 | 518.9 | 523.2 | 1015.2 |
| 197 | MR | 98.1 | 290.4 | 289.0 | 293.2 | 287.8 | 3181.4 | 368.0 | 149.8 | 26.6 | 1053.0 | 510.2 | 914.6 | 659.1 |
| 198 | MR | 108.1 | 229.4 | 228.8 | 230.2 | 226.7 | 3068.7 | 411.5 | 168.1 | 32.2 | 1160.8 | 526.8 | 765.2 | 763.9 |
| 199 | MR | 115.3 | 295.2 | 305.4 | 306.0 | 292.0 | 2828.9 | 328.9 | 108.9 | 26.6 | 887.0 | 459.9 | 477.3 | 849.3 |
| 200 | MR | 122.9 | 287.7 | 299.7 | 300.8 | 284.7 | 2916.8 | 371.9 | 77.4 | 35.4 | 1041.3 | 378.4 | 400.8 | 864.3 |
| 201 | MR | 94.9 | 143.9 | 143.2 | 144.6 | 138.4 | 2146.7 | 242.0 | 104.5 | 24.9 | 710.3 | 363.3 | 557.1 | 525.6 |
| 202 | MR | 119.5 | 288.2 | 295.2 | 296.5 | 286.4 | 3165.9 | 400.0 | 132.2 | 27.6 | 1068.0 | 511.3 | 621.8 | 795.5 |
| 203 | MR | 99.6 | 294.5 | 289.1 | 296.3 | 288.9 | 3126.8 | 367.0 | 162.2 | 23.6 | 1039.5 | 548.5 | 863.6 | 582.5 |
| 204 | MR | 221.5 | 302.1 | 293.7 | 319.6 | 290.3 | 1238.8 | 211.9 | 13.4 | 68.4 | 598.2 | 57.5 | 258.6 | 104.7 |
| 205 | MR | 180.0 | 197.7 | 196.0 | 210.6 | 194.7 | 1639.9 | 241.6 | 26.4 | 50.1 | 659.4 | 128.1 | 382.8 | 330.9 |
| 206 | MR | 202.9 | 300.7 | 320.6 | 333.7 | 300.7 | 1686.1 | 275.2 | 16.9 | 62.7 | 785.8 | 82.1 | 225.1 | 785.8 |
| 207 | MR | 113.0 | 277.0 | 279.2 | 281.0 | 274.5 | 2897.1 | 353.6 | 179.3 | 19.9 | 847.9 | 595.8 | 704.7 | 741.6 |
| 208 | MR | 103.6 | 295.8 | 294.1 | 296.2 | 292.5 | 3165.1 | 385.1 | 179.5 | 24.0 | 1023.3 | 577.3 | 891.1 | 671.2 |
| 209 | MR | 125.4 | 189.0 | 187.5 | 192.8 | 184.7 | 1576.2 | 252.6 | 51.5 | 44.5 | 622.4 | 193.7 | 277.4 | 323.2 |
| 210 | MR | 163.6 | 206.0 | 202.7 | 211.2 | 202.1 | 1306.4 | 183.0 | 41.8 | 37.6 | 474.9 | 158.3 | 327.4 | 225.7 |
| 211 | MR | 199.2 | 290.0 | 313.1 | 332.0 | 290.0 | 2112.0 | 363.0 | 18.3 | 71.8 | 1035.7 | 78.8 | 228.0 | 1035.7 |
| 212 | MR | 124.6 | 175.4 | 181.6 | 182.8 | 172.3 | 2400.1 | 507.2 | 102.5 | 58.3 | 1132.9 | 327.8 | 344.8 | 873.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 213 | MR | 210.4 | 320.7 | 334.0 | 350.4 | 320.7 | 1335.9 | 220.5 | 8.5 | 62.1 | 604.9 | 53.9 | 186.1 | 604.9 |
| 214 | MR | 122.1 | 297.9 | 310.9 | 310.9 | 297.4 | 2003.9 | 280.5 | 107.2 | 27.5 | 654.2 | 383.3 | 383.3 | 651.1 |
| 215 | MR | 158.5 | 303.8 | 315.6 | 315.7 | 297.8 | 2408.6 | 294.4 | 68.3 | 34.8 | 796.2 | 289.6 | 326.8 | 713.1 |
| 216 | MR | 169.7 | 278.5 | 301.4 | 317.1 | 278.5 | 1862.5 | 386.1 | 23.2 | 79.3 | 1018.2 | 91.5 | 206.8 | 1018.2 |
| 217 | MR | 112.4 | 287.8 | 286.2 | 288.6 | 284.5 | 3409.8 | 399.1 | 210.3 | 19.5 | 1029.5 | 684.1 | 897.5 | 711.1 |
| 218 | MR | 129.3 | 216.2 | 223.5 | 224.4 | 214.7 | 3735.4 | 602.2 | 181.7 | 43.1 | 1568.5 | 578.2 | 593.5 | 1360.0 |
| 219 | MR | 175.0 | 265.5 | 266.0 | 267.5 | 260.5 | 2131.0 | 274.0 | 71.0 | 34.5 | 674.0 | 258.5 | 356.0 | 605.0 |
| 220 | MR | 238.8 | 137.8 | 113.1 | 146.9 | 113.1 | 932.9 | 177.0 | 8.0 | 72.1 | 473.8 | 36.9 | 283.7 | 45.2 |
| 221 | MR | 130.4 | 303.5 | 311.1 | 321.6 | 301.5 | 1879.4 | 280.0 | 81.0 | 36.5 | 680.6 | 320.9 | 332.1 | 674.7 |
| 222 | MR | 198.3 | 224.9 | 195.7 | 226.7 | 195.7 | 896.8 | 169.9 | 5.3 | 72.2 | 458.6 | 30.8 | 375.9 | 30.8 |
| 223 | MR | 202.8 | 316.8 | 291.6 | 319.9 | 281.3 | 2707.2 | 399.2 | 31.8 | 56.3 | 1143.2 | 172.9 | 851.2 | 210.7 |
| 224 | MR | 128.3 | 161.6 | 158.4 | 162.7 | 157.6 | 1138.4 | 166.4 | 26.8 | 47.2 | 457.7 | 116.4 | 236.7 | 130.8 |
| 225 | MR | 189.2 | 228.0 | 229.2 | 235.2 | 224.3 | 1877.8 | 246.0 | 39.9 | 41.3 | 689.6 | 198.5 | 352.0 | 499.6 |
| 226 | MR | 143.2 | 304.5 | 322.7 | 324.1 | 304.5 | 3713.4 | 512.0 | 129.9 | 35.6 | 1326.4 | 512.1 | 518.7 | 1325.1 |
| 227 | MR | 109.2 | 283.9 | 288.0 | 290.9 | 283.2 | 3447.8 | 565.4 | 175.9 | 38.7 | 1378.4 | 609.0 | 645.5 | 1167.2 |
| 228 | MR | 167.7 | 293.6 | 303.1 | 311.6 | 289.3 | 1833.7 | 251.8 | 20.8 | 56.4 | 725.3 | 80.9 | 253.2 | 682.4 |
| 229 | MR | 221.7 | 309.4 | 305.4 | 327.4 | 305.4 | 1270.8 | 215.8 | 10.1 | 70.1 | 626.9 | 51.6 | 242.3 | 54.9 |
| 230 | MR | 225.3 | 294.3 | 321.4 | 342.4 | 294.3 | 2078.8 | 381.7 | 11.1 | 77.3 | 1052.7 | 50.2 | 215.2 | 1052.7 |
| 231 | MR | 192.6 | 307.5 | 332.7 | 343.2 | 307.5 | 1659.3 | 247.7 | 17.5 | 58.4 | 723.4 | 76.3 | 235.3 | 723.4 |
| 232 | MR | 196.2 | 292.2 | 320.3 | 333.1 | 289.7 | 2079.4 | 331.9 | 11.6 | 68.2 | 965.5 | 66.1 | 246.2 | 957.9 |
| 233 | MR | 233.2 | 301.8 | 326.2 | 343.6 | 301.8 | 1841.5 | 297.0 | 10.5 | 68.5 | 866.0 | 70.0 | 221.0 | 859.7 |
| 234 | MR | 152.4 | 294.4 | 337.2 | 338.3 | 294.4 | 2288.2 | 344.7 | 53.6 | 48.6 | 940.5 | 216.6 | 217.1 | 940.5 |
| 235 | MR | 127.7 | 272.3 | 325.0 | 325.0 | 272.0 | 1971.7 | 440.0 | 14.3 | 88.3 | 1128.7 | 53.7 | 53.7 | 1053.7 |
| 236 | MR | 134.1 | 302.1 | 327.6 | 334.1 | 302.0 | 2522.9 | 372.7 | 63.9 | 50.7 | 1039.7 | 266.4 | 280.1 | 1033.0 |
| 237 | MR | 142.3 | 301.7 | 334.8 | 344.3 | 301.7 | 2458.4 | 391.8 | 44.7 | 58.5 | 1082.3 | 186.5 | 202.9 | 1082.3 |
| 238 | MR | 111.7 | 290.5 | 295.4 | 297.4 | 290.0 | 2158.1 | 298.8 | 109.4 | 25.3 | 678.2 | 413.2 | 498.7 | 676.1 |
| 239 | MR | 152.5 | 280.8 | 293.7 | 310.4 | 280.8 | 1659.9 | 323.5 | 26.0 | 76.5 | 884.5 | 87.8 | 235.9 | 884.5 |
| 240 | MR | 218.2 | 322.9 | 330.1 | 348.4 | 322.9 | 1235.1 | 217.4 | 6.9 | 66.0 | 579.5 | 43.7 | 157.1 | 575.4 |
| 241 | MR | 221.6 | 298.8 | 323.5 | 341.7 | 298.6 | 1930.7 | 314.9 | 14.3 | 64.9 | 887.1 | 90.3 | 251.6 | 886.4 |
| 242 | MR | 146.0 | 302.0 | 338.0 | 349.0 | 302.0 | 2125.0 | 338.0 | 36.0 | 61.0 | 946.0 | 143.0 | 145.0 | 946.0 |
| 243 | MR | 185.5 | 287.4 | 319.1 | 330.8 | 287.4 | 2060.1 | 333.4 | 10.2 | 70.7 | 978.1 | 58.3 | 216.2 | 978.1 |
| 244 | MR | 134.8 | 301.8 | 323.8 | 326.5 | 301.8 | 2478.3 | 395.5 | 57.5 | 58.5 | 1143.8 | 275.5 | 307.8 | 1143.8 |
| 245 | MR | 239.4 | 309.0 | 324.1 | 348.8 | 304.3 | 1829.9 | 355.7 | 4.0 | 85.0 | 1015.3 | 32.0 | 175.1 | 966.8 |
| 246 | MR | 170.5 | 292.0 | 276.5 | 295.5 | 264.5 | 1753.5 | 246.5 | 29.0 | 51.0 | 697.5 | 134.5 | 368.5 | 149.0 |
| 247 | MR | 204.1 | 319.1 | 313.9 | 334.6 | 308.4 | 1326.0 | 204.1 | 23.0 | 57.5 | 573.9 | 93.0 | 282.5 | 183.1 |
| 248 | MR | 202.8 | 315.2 | 299.6 | 323.5 | 285.9 | 1657.9 | 243.5 | 22.1 | 53.8 | 702.0 | 110.6 | 327.7 | 133.5 |
| 249 | MR | 111.0 | 272.0 | 307.3 | 308.5 | 272.0 | 2717.8 | 502.8 | 60.8 | 63.3 | 1240.8 | 240.8 | 263.3 | 1240.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 250 | MR | 181.3 | 278.4 | 244.4 | 279.3 | 244.4 | 1303.5 | 208.5 | 11.0 | 61.0 | 589.7 | 60.5 | 525.1 | 60.5 |
| 251 | MR | 218.7 | 321.0 | 320.2 | 340.9 | 318.7 | 1178.6 | 197.3 | 8.5 | 67.0 | 552.4 | 46.5 | 186.9 | 279.6 |
| 252 | MR | 261.8 | 307.0 | 330.3 | 353.8 | 307.0 | 1506.3 | 291.0 | 2.0 | 83.0 | 798.0 | 15.0 | 145.5 | 798.0 |
| 253 | MR | 181.0 | 288.0 | 308.0 | 325.0 | 288.0 | 1756.0 | 325.0 | 18.0 | 76.0 | 887.0 | 81.0 | 151.0 | 825.0 |
| 254 | MR | 90.2 | 148.6 | 144.4 | 149.6 | 142.8 | 2162.0 | 244.0 | 138.4 | 18.8 | 697.2 | 442.6 | 656.2 | 511.8 |
| 255 | MR | 103.0 | 204.0 | 202.0 | 204.3 | 199.3 | 2405.3 | 317.0 | 136.3 | 31.0 | 900.7 | 431.3 | 866.7 | 613.7 |
| 256 | MR | 119.0 | 288.1 | 303.7 | 303.8 | 285.2 | 3024.6 | 539.7 | 44.9 | 65.6 | 1342.9 | 170.7 | 205.2 | 1001.6 |
| 257 | MR | 78.0 | 171.5 | 170.5 | 175.5 | 169.5 | 1752.5 | 207.5 | 100.0 | 22.5 | 518.0 | 307.5 | 396.0 | 391.0 |
| 258 | MR | 127.0 | 298.0 | 307.0 | 310.0 | 294.0 | 3132.0 | 383.0 | 74.0 | 38.0 | 1081.0 | 364.0 | 395.0 | 969.0 |
| 259 | MR | 129.0 | 300.0 | 317.5 | 317.5 | 297.0 | 3061.0 | 406.0 | 64.0 | 38.0 | 1073.5 | 353.0 | 353.0 | 961.0 |
| 260 | MR | 129.6 | 282.4 | 294.3 | 295.7 | 279.2 | 3611.2 | 500.4 | 105.1 | 42.4 | 1297.3 | 405.5 | 745.6 | 1235.8 |
| 261 | MR | 116.3 | 296.3 | 313.3 | 313.3 | 291.0 | 1735.3 | 353.8 | 23.8 | 73.0 | 893.0 | 76.0 | 76.0 | 439.3 |
| 262 | MR | 115.5 | 293.5 | 301.7 | 302.7 | 293.1 | 3099.1 | 349.7 | 169.5 | 23.9 | 1006.4 | 551.2 | 555.4 | 929.3 |
| 263 | MR | 118.5 | 288.0 | 302.8 | 303.0 | 286.0 | 3492.0 | 618.8 | 50.3 | 66.5 | 1566.0 | 176.3 | 238.8 | 1168.8 |
| 264 | MR | 109.1 | 295.7 | 313.6 | 313.6 | 294.5 | 1789.5 | 347.2 | 8.5 | 84.9 | 971.4 | 39.7 | 39.7 | 936.7 |
| 265 | MR | 130.9 | 301.2 | 316.4 | 317.4 | 300.4 | 2897.4 | 353.1 | 150.0 | 28.2 | 990.2 | 500.9 | 502.1 | 941.7 |
| 266 | MR | 215.6 | 300.5 | 326.0 | 341.9 | 299.0 | 1977.0 | 309.8 | 14.4 | 64.7 | 901.3 | 83.3 | 260.5 | 887.9 |
| 267 | MR | 209.7 | 300.2 | 324.7 | 343.5 | 300.2 | 1999.3 | 331.1 | 15.9 | 64.1 | 936.7 | 105.8 | 261.2 | 936.7 |
| 268 | MR | 158.4 | 299.9 | 348.7 | 350.8 | 299.9 | 2032.5 | 320.5 | 46.0 | 56.8 | 869.5 | 152.9 | 189.8 | 869.5 |
| 269 | MR | 118.7 | 287.7 | 298.5 | 299.2 | 287.7 | 2758.7 | 322.4 | 81.4 | 31.9 | 926.7 | 359.4 | 477.4 | 926.7 |
| 270 | MR | 160.8 | 295.5 | 332.7 | 341.3 | 295.5 | 2145.0 | 305.8 | 43.0 | 51.3 | 889.7 | 165.8 | 305.5 | 889.7 |
| 271 | MR | 153.4 | 296.6 | 342.0 | 342.0 | 296.6 | 2158.1 | 324.4 | 50.7 | 50.7 | 902.2 | 192.3 | 192.3 | 902.2 |
| 272 | MR | 112.9 | 262.0 | 303.9 | 304.1 | 262.0 | 2846.6 | 500.6 | 52.3 | 67.1 | 1352.5 | 199.8 | 204.2 | 1352.3 |
| 273 | MR | 141.5 | 301.5 | 335.4 | 343.6 | 301.5 | 2593.7 | 452.1 | 46.8 | 65.9 | 1253.7 | 177.9 | 186.7 | 1253.7 |
| 274 | MR | 145.0 | 302.3 | 337.5 | 347.3 | 302.3 | 2278.7 | 377.5 | 39.2 | 62.8 | 1046.7 | 150.8 | 160.7 | 1046.7 |
| 275 | MR | 156.0 | 298.2 | 348.3 | 351.1 | 298.2 | 2232.2 | 392.1 | 42.8 | 68.1 | 1088.6 | 147.5 | 170.8 | 1088.6 |
| 276 | MR | 150.5 | 294.4 | 336.4 | 337.7 | 294.4 | 2296.5 | 336.3 | 57.1 | 46.6 | 922.3 | 233.8 | 236.0 | 922.3 |
| 277 | MR | 126.3 | 285.7 | 324.7 | 325.3 | 285.7 | 2976.6 | 495.8 | 40.8 | 65.1 | 1428.2 | 220.3 | 233.5 | 1428.2 |
| 278 | MR | 113.6 | 292.9 | 300.6 | 301.5 | 292.4 | 3092.5 | 347.9 | 168.2 | 23.8 | 1003.3 | 549.8 | 565.2 | 920.4 |
| 279 | MR | 147.3 | 294.6 | 333.3 | 334.5 | 294.5 | 2234.2 | 302.7 | 62.9 | 42.0 | 846.9 | 263.4 | 271.7 | 846.6 |
| 280 | MR | 153.0 | 292.7 | 332.7 | 335.2 | 292.7 | 2331.1 | 323.9 | 51.7 | 46.2 | 927.3 | 228.9 | 234.0 | 927.3 |
| 281 | MR | 154.9 | 296.5 | 340.7 | 341.8 | 296.5 | 2147.2 | 317.6 | 48.5 | 50.9 | 897.6 | 188.6 | 209.6 | 897.6 |
| 282 | MR | 120.5 | 289.7 | 304.8 | 305.9 | 289.7 | 2548.2 | 309.6 | 67.7 | 35.5 | 866.7 | 283.0 | 428.6 | 866.7 |
| 283 | MR | 131.9 | 216.5 | 214.7 | 221.1 | 212.4 | 2020.7 | 374.6 | 70.8 | 49.2 | 850.9 | 256.7 | 316.4 | 357.8 |
| 284 | MR | 126.6 | 302.8 | 318.3 | 319.0 | 302.0 | 1923.6 | 277.9 | 93.1 | 32.5 | 665.2 | 350.2 | 350.3 | 663.5 |
| 285 | MR | 97.3 | 287.3 | 291.0 | 291.3 | 287.2 | 2909.3 | 326.5 | 139.6 | 24.2 | 923.8 | 490.7 | 627.9 | 858.7 |
| 286 | MR | 263.0 | 292.5 | 309.0 | 329.0 | 290.5 | 1642.0 | 301.5 | 4.0 | 79.0 | 834.0 | 35.5 | 162.0 | 818.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 287 | MR | 148.3 | 298.1 | 338.1 | 341.3 | 297.9 | 2535.3 | 428.8 | 61.1 | 62.8 | 1126.0 | 214.1 | 240.7 | 1109.5 |
| 288 | MR | 199.8 | 326.0 | 298.3 | 326.0 | 285.3 | 2952.5 | 422.0 | 39.3 | 54.3 | 1245.8 | 213.0 | 1172.8 | 447.8 |
| 289 | MR | 151.7 | 294.5 | 333.2 | 333.2 | 294.3 | 2258.2 | 296.4 | 66.4 | 41.0 | 852.2 | 262.5 | 265.4 | 851.9 |
| 290 | MR | 194.8 | 290.1 | 319.4 | 331.9 | 288.9 | 1998.6 | 326.8 | 8.8 | 71.3 | 949.1 | 54.6 | 214.8 | 947.3 |
| 291 | MR | 116.1 | 259.1 | 305.2 | 306.2 | 259.1 | 2685.1 | 482.8 | 38.7 | 71.3 | 1318.6 | 154.7 | 157.4 | 1318.6 |
| 292 | MR | 175.1 | 291.3 | 312.0 | 329.6 | 291.3 | 2045.9 | 397.1 | 20.2 | 79.1 | 1096.5 | 92.7 | 164.2 | 1093.9 |
| 293 | MR | 116.7 | 289.7 | 317.5 | 317.6 | 289.7 | 2853.9 | 483.6 | 14.2 | 81.1 | 1419.9 | 71.2 | 71.8 | 1419.9 |
| 294 | MR | 170.8 | 296.4 | 339.2 | 346.3 | 296.4 | 1973.8 | 317.5 | 36.0 | 58.8 | 866.7 | 140.0 | 207.9 | 866.7 |
| 295 | MR | 168.2 | 279.0 | 308.1 | 319.7 | 279.0 | 1838.1 | 361.9 | 15.5 | 79.6 | 989.9 | 72.7 | 161.0 | 989.9 |
| 296 | MR | 135.3 | 296.7 | 313.3 | 314.6 | 296.7 | 1816.8 | 315.4 | 41.8 | 52.8 | 766.5 | 225.1 | 311.2 | 765.9 |
| 297 | MR | 206.3 | 322.0 | 337.2 | 352.6 | 322.0 | 1403.8 | 212.9 | 7.0 | 61.9 | 609.5 | 45.8 | 183.5 | 609.5 |
| 298 | MR | 179.1 | 303.5 | 337.2 | 342.4 | 303.4 | 1899.4 | 260.3 | 25.0 | 53.0 | 764.8 | 112.2 | 146.9 | 731.9 |
| 299 | MR | 126.9 | 190.8 | 197.3 | 200.0 | 188.2 | 2887.1 | 494.9 | 142.8 | 43.7 | 1209.5 | 461.3 | 479.0 | 999.4 |
| 300 | MR | 197.0 | 315.0 | 336.4 | 348.7 | 315.0 | 1503.3 | 227.0 | 11.2 | 59.8 | 655.0 | 59.5 | 210.5 | 655.0 |
| 301 | MR | 122.9 | 294.4 | 306.0 | 307.0 | 294.3 | 3726.7 | 446.6 | 212.4 | 20.8 | 1184.6 | 721.9 | 728.4 | 1183.7 |
| 302 | MR | 115.5 | 286.0 | 301.0 | 302.0 | 284.0 | 3357.0 | 576.0 | 58.5 | 62.5 | 1467.5 | 203.5 | 250.0 | 1105.5 |
| 303 | MR | 213.7 | 317.0 | 306.7 | 333.2 | 305.7 | 1107.5 | 174.5 | 14.4 | 64.0 | 509.8 | 58.3 | 241.8 | 113.2 |
| 304 | MR | 113.9 | 291.5 | 300.4 | 300.4 | 289.9 | 3099.3 | 450.0 | 164.0 | 34.8 | 1198.7 | 528.4 | 528.4 | 1051.4 |
| 305 | MR | 134.2 | 275.7 | 263.2 | 279.4 | 258.6 | 3532.6 | 478.2 | 90.3 | 42.6 | 1338.8 | 363.9 | 809.5 | 375.2 |
| 306 | MR | 173.8 | 221.1 | 219.9 | 232.5 | 218.2 | 1820.3 | 265.4 | 29.1 | 48.5 | 720.5 | 153.3 | 373.8 | 442.1 |
| 307 | MR | 128.2 | 225.3 | 222.0 | 229.3 | 220.7 | 1723.7 | 357.3 | 67.8 | 58.9 | 804.1 | 233.4 | 287.8 | 298.7 |
| 308 | MR | 181.9 | 268.7 | 279.2 | 281.3 | 262.9 | 2390.3 | 304.5 | 60.3 | 37.5 | 834.1 | 272.2 | 407.3 | 686.1 |
| 309 | MR | 113.8 | 292.7 | 302.4 | 302.5 | 290.8 | 3100.7 | 445.8 | 158.7 | 34.6 | 1193.8 | 512.0 | 512.7 | 1060.0 |
| 310 | MR | 157.6 | 246.2 | 245.9 | 256.1 | 244.6 | 1867.4 | 265.2 | 30.1 | 48.1 | 734.3 | 155.1 | 351.9 | 412.1 |
| 311 | MR | 166.2 | 296.4 | 300.1 | 309.2 | 288.4 | 1866.4 | 250.3 | 29.4 | 52.1 | 716.9 | 103.3 | 280.8 | 653.2 |
| 312 | MR | 124.9 | 263.1 | 265.6 | 271.0 | 260.0 | 3509.1 | 749.4 | 147.4 | 58.3 | 1631.7 | 501.6 | 554.2 | 719.5 |
| 313 | MR | 168.1 | 266.2 | 273.6 | 275.9 | 264.9 | 2918.6 | 371.3 | 71.7 | 37.9 | 1020.0 | 314.3 | 488.1 | 885.8 |
| 314 | MR | 199.9 | 315.7 | 301.3 | 324.1 | 288.5 | 1586.3 | 232.1 | 22.2 | 52.8 | 660.5 | 110.5 | 315.2 | 132.1 |
| 315 | MR | 188.5 | 307.8 | 279.8 | 309.3 | 269.7 | 1638.9 | 236.0 | 26.3 | 51.5 | 667.8 | 119.5 | 572.4 | 141.6 |
| 316 | MR | 109.4 | 285.9 | 290.7 | 292.9 | 284.7 | 3275.2 | 477.5 | 172.0 | 34.1 | 1249.1 | 589.9 | 611.0 | 1050.5 |
| 317 | MR | 126.3 | 158.7 | 165.7 | 167.8 | 155.7 | 2202.6 | 351.2 | 111.3 | 41.0 | 909.2 | 357.9 | 366.1 | 727.6 |
| 318 | MR | 118.5 | 253.9 | 257.3 | 259.3 | 252.6 | 2795.7 | 355.0 | 146.8 | 29.6 | 1020.4 | 495.4 | 533.6 | 782.9 |
| 319 | MR | 110.3 | 191.0 | 190.0 | 194.3 | 188.0 | 1747.7 | 180.7 | 81.3 | 20.3 | 506.0 | 304.0 | 455.7 | 429.7 |
| 320 | MR | 127.1 | 298.4 | 308.4 | 308.4 | 290.2 | 2918.7 | 316.5 | 152.0 | 22.0 | 891.7 | 505.8 | 514.0 | 813.0 |
| 321 | MR | 174.4 | 301.8 | 295.9 | 314.1 | 293.2 | 1629.0 | 214.7 | 31.1 | 52.0 | 633.8 | 102.9 | 318.6 | 257.5 |
| 322 | MR | 237.6 | 134.7 | 110.0 | 141.9 | 110.0 | 898.0 | 172.1 | 7.4 | 73.7 | 459.9 | 33.6 | 275.9 | 33.6 |
| 323 | MR | 136.6 | 310.0 | 317.6 | 318.3 | 299.5 | 2855.0 | 396.9 | 142.7 | 29.0 | 993.6 | 473.8 | 687.8 | 721.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 324 | MR | 128.8 | 308.3 | 314.6 | 315.0 | 301.1 | 2787.4 | 408.1 | 134.5 | 36.6 | 1065.0 | 432.3 | 612.0 | 687.1 |
| 325 | MR | 114.9 | 292.4 | 293.9 | 295.2 | 290.7 | 3250.3 | 507.5 | 169.3 | 34.4 | 1235.6 | 580.3 | 705.3 | 815.5 |
| 326 | MR | 159.3 | 298.2 | 278.3 | 302.1 | 276.4 | 2465.0 | 341.3 | 54.2 | 49.7 | 973.9 | 201.2 | 579.7 | 202.8 |
| 327 | MR | 100.0 | 277.0 | 284.0 | 285.0 | 276.0 | 4165.0 | 500.0 | 258.0 | 25.0 | 1428.0 | 813.0 | 837.0 | 971.0 |
| 328 | MR | 169.4 | 301.7 | 312.9 | 317.1 | 295.7 | 1917.8 | 230.3 | 30.8 | 44.0 | 661.4 | 170.4 | 290.4 | 635.3 |
| 329 | MR | 163.1 | 299.4 | 311.0 | 314.8 | 293.5 | 1940.0 | 235.8 | 32.3 | 42.9 | 665.4 | 172.5 | 307.5 | 649.0 |
| 330 | MR | 172.3 | 283.7 | 315.7 | 325.7 | 283.7 | 2137.3 | 356.0 | 6.3 | 68.0 | 988.0 | 62.7 | 248.3 | 988.0 |
| 331 | MR | 178.5 | 283.3 | 313.6 | 324.9 | 283.3 | 1769.3 | 321.1 | 0.4 | 76.3 | 892.8 | 39.1 | 153.3 | 892.8 |
| 332 | MR | 166.5 | 297.0 | 321.3 | 322.1 | 296.9 | 2056.6 | 297.0 | 32.3 | 49.4 | 796.4 | 160.2 | 160.6 | 775.3 |
| 333 | MR | 155.3 | 299.2 | 333.5 | 333.5 | 299.2 | 3098.2 | 568.5 | 50.3 | 76.3 | 1599.6 | 173.5 | 173.5 | 1599.6 |
| 334 | MR | 103.5 | 288.6 | 292.5 | 293.5 | 287.8 | 3019.5 | 351.6 | 159.1 | 25.4 | 1010.8 | 526.6 | 547.5 | 871.0 |
| 335 | MR | 119.9 | 294.8 | 307.6 | 307.8 | 294.8 | 2865.9 | 346.8 | 146.7 | 27.3 | 988.1 | 463.0 | 551.8 | 988.1 |
| 336 | MR | 208.6 | 321.9 | 335.9 | 351.9 | 321.9 | 1362.4 | 215.8 | 7.4 | 61.7 | 604.2 | 49.4 | 185.0 | 604.2 |
| 337 | MR | 165.4 | 296.5 | 330.9 | 331.0 | 296.5 | 2528.0 | 318.9 | 44.3 | 39.5 | 909.2 | 264.9 | 290.2 | 909.2 |
| 338 | MR | 174.3 | 284.0 | 315.2 | 326.0 | 284.0 | 1998.3 | 346.2 | 2.2 | 72.2 | 963.7 | 46.3 | 203.8 | 963.7 |
| 339 | MR | 146.2 | 300.5 | 329.2 | 329.2 | 300.5 | 2084.8 | 275.1 | 77.1 | 33.2 | 741.0 | 298.3 | 306.5 | 740.9 |
| 340 | MR | 169.2 | 293.4 | 305.5 | 312.1 | 290.1 | 1928.0 | 261.5 | 24.4 | 53.7 | 754.6 | 101.6 | 271.0 | 727.4 |
| 341 | MR | 170.1 | 296.7 | 303.3 | 314.6 | 294.1 | 1686.0 | 234.0 | 20.7 | 56.0 | 657.2 | 71.1 | 237.8 | 612.2 |
| 342 | MR | 127.8 | 294.3 | 314.5 | 314.5 | 294.3 | 2504.8 | 509.5 | 19.0 | 83.3 | 1352.5 | 72.5 | 72.5 | 1265.0 |
| 343 | MR | 166.0 | 298.7 | 309.3 | 330.7 | 298.7 | 1752.3 | 351.3 | 9.7 | 85.0 | 976.3 | 52.0 | 198.3 | 976.3 |
| 344 | MR | 219.0 | 327.5 | 333.0 | 352.5 | 327.5 | 1179.5 | 208.5 | 5.0 | 67.0 | 550.5 | 35.0 | 143.5 | 502.5 |
| 345 | MR | 103.0 | 294.0 | 311.0 | 311.0 | 293.0 | 1424.0 | 286.0 | 4.0 | 92.0 | 836.0 | 28.0 | 28.0 | 778.0 |
| 346 | MR | 162.2 | 297.5 | 309.3 | 329.5 | 297.5 | 1853.3 | 364.0 | 13.0 | 84.3 | 1031.2 | 58.5 | 210.7 | 1031.2 |
| 347 | MR | 175.3 | 284.5 | 315.8 | 326.5 | 284.5 | 1941.0 | 340.8 | 1.5 | 73.8 | 955.0 | 44.0 | 187.0 | 955.0 |
| 348 | MR | 176.0 | 285.0 | 316.7 | 327.0 | 285.0 | 1949.3 | 346.7 | 1.7 | 75.0 | 980.7 | 44.7 | 180.7 | 980.7 |
| 349 | MR | 201.3 | 295.4 | 322.8 | 336.4 | 293.2 | 2073.4 | 326.7 | 12.9 | 66.6 | 956.2 | 73.0 | 260.4 | 939.9 |
| 350 | MR | 207.7 | 294.5 | 321.2 | 334.9 | 292.7 | 1902.5 | 315.3 | 8.0 | 71.8 | 916.0 | 53.8 | 208.7 | 898.3 |
| 351 | MR | 135.9 | 286.4 | 324.9 | 325.6 | 286.4 | 2983.0 | 471.9 | 42.0 | 60.0 | 1361.5 | 244.3 | 275.5 | 1361.5 |
| 352 | MR | 158.5 | 304.4 | 334.8 | 340.0 | 304.4 | 2966.3 | 585.4 | 35.4 | 82.0 | 1607.2 | 118.1 | 129.7 | 1607.2 |
| 353 | MR | 173.0 | 284.0 | 316.0 | 326.0 | 284.0 | 2159.0 | 360.0 | 5.0 | 68.0 | 993.0 | 59.0 | 250.0 | 993.0 |
| 354 | MR | 178.0 | 286.0 | 316.0 | 327.0 | 286.0 | 1836.0 | 322.0 | 1.0 | 74.0 | 901.0 | 40.0 | 171.0 | 901.0 |
| 355 | MR | 172.3 | 301.3 | 334.5 | 337.4 | 301.3 | 1985.5 | 274.2 | 22.9 | 51.0 | 787.7 | 137.2 | 168.6 | 773.7 |
| 356 | MR | 181.8 | 305.1 | 336.4 | 343.1 | 305.1 | 1962.4 | 282.9 | 26.7 | 56.6 | 825.5 | 95.1 | 207.0 | 822.6 |
| 357 | MR | 178.0 | 285.0 | 315.0 | 326.0 | 285.0 | 1874.0 | 325.0 | 1.0 | 73.0 | 909.0 | 39.0 | 179.0 | 909.0 |
| 358 | MR | 156.8 | 292.1 | 332.1 | 334.1 | 292.1 | 2385.8 | 337.9 | 46.1 | 47.3 | 942.2 | 221.0 | 229.2 | 942.2 |
| 359 | MR | 168.9 | 295.4 | 331.3 | 336.5 | 295.4 | 2128.5 | 315.7 | 19.1 | 55.9 | 887.1 | 137.2 | 152.9 | 887.1 |
| 360 | MR | 120.3 | 299.5 | 321.0 | 321.0 | 297.7 | 2621.8 | 526.3 | 27.5 | 83.4 | 1402.7 | 97.8 | 103.7 | 1368.9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 361 | MR | 141.7 | 296.6 | 328.5 | 330.6 | 296.6 | 3295.1 | 537.1 | 50.5 | 62.9 | 1580.2 | 309.5 | 354.5 | 1580.2 |
| 362 | MR | 126.7 | 294.8 | 315.2 | 315.2 | 294.5 | 2539.7 | 520.8 | 19.6 | 84.4 | 1378.6 | 72.5 | 72.5 | 1295.4 |
| 363 | MR | 176.3 | 283.3 | 315.0 | 326.0 | 283.3 | 2000.0 | 344.5 | 3.5 | 73.5 | 992.3 | 49.8 | 195.8 | 992.3 |
| 364 | MR | 130.0 | 291.0 | 311.0 | 311.0 | 291.0 | 2284.0 | 473.0 | 6.0 | 86.0 | 1262.0 | 34.0 | 34.0 | 1262.0 |
| 365 | MR | 124.0 | 291.0 | 311.0 | 311.0 | 291.0 | 2060.0 | 424.0 | 6.0 | 84.0 | 1108.0 | 34.0 | 34.0 | 1108.0 |
| 366 | MR | 122.0 | 292.0 | 312.0 | 312.0 | 292.0 | 1987.0 | 401.0 | 7.5 | 82.5 | 1040.0 | 39.0 | 39.0 | 1040.0 |
| 367 | MR | 115.2 | 303.9 | 328.7 | 329.6 | 301.5 | 2911.2 | 583.7 | 8.6 | 89.6 | 1612.7 | 59.0 | 115.5 | 1590.3 |
| 368 | MR | 130.0 | 291.0 | 311.0 | 311.0 | 291.0 | 2399.0 | 482.0 | 10.0 | 84.0 | 1305.0 | 48.0 | 48.0 | 1305.0 |
| 369 | MR | 121.7 | 298.3 | 319.0 | 319.0 | 297.3 | 2591.0 | 527.3 | 25.7 | 83.7 | 1392.7 | 90.0 | 90.0 | 1343.0 |
| 370 | MR | 120.0 | 302.0 | 323.0 | 324.0 | 300.0 | 2642.5 | 525.0 | 28.0 | 83.0 | 1411.5 | 101.5 | 160.0 | 1388.5 |
| 371 | MR | 177.0 | 282.7 | 314.3 | 325.3 | 282.7 | 1965.3 | 352.7 | 2.0 | 75.7 | 994.3 | 44.7 | 180.0 | 994.3 |
| 372 | MR | 114.8 | 291.1 | 303.5 | 304.4 | 291.1 | 2559.3 | 303.9 | 82.1 | 32.0 | 838.5 | 322.1 | 464.3 | 838.5 |
| 373 | MR | 159.8 | 296.9 | 327.7 | 327.7 | 296.9 | 2299.6 | 300.9 | 37.9 | 42.7 | 840.8 | 214.6 | 216.6 | 840.8 |
| 374 | MR | 173.5 | 284.0 | 316.0 | 327.0 | 284.0 | 2053.5 | 348.5 | 5.5 | 70.0 | 983.0 | 58.0 | 222.0 | 983.0 |
| 375 | MR | 219.3 | 318.0 | 318.3 | 337.8 | 317.6 | 1251.4 | 209.9 | 7.3 | 68.9 | 595.1 | 45.9 | 147.7 | 353.3 |
| 376 | MR | 176.0 | 284.5 | 315.5 | 326.5 | 284.5 | 1914.0 | 336.5 | 1.0 | 74.0 | 940.5 | 42.5 | 183.0 | 940.5 |
| 377 | MR | 122.1 | 271.6 | 317.4 | 317.4 | 269.9 | 2254.6 | 518.2 | 16.2 | 90.2 | 1305.0 | 61.2 | 61.2 | 1238.1 |
| 378 | MR | 120.3 | 276.7 | 319.1 | 319.2 | 276.5 | 2819.2 | 480.6 | 38.6 | 67.9 | 1323.0 | 170.5 | 170.7 | 1322.7 |
| 379 | MR | 215.4 | 324.2 | 333.6 | 351.7 | 324.2 | 1260.9 | 216.0 | 7.0 | 64.4 | 580.7 | 45.2 | 165.6 | 578.1 |
| 380 | MR | 213.2 | 321.2 | 332.9 | 349.9 | 321.2 | 1306.5 | 223.0 | 8.2 | 63.4 | 601.9 | 51.4 | 178.6 | 601.9 |
| 381 | MR | 136.9 | 295.7 | 310.8 | 310.8 | 292.8 | 2403.4 | 259.2 | 62.2 | 29.0 | 739.7 | 328.8 | 328.8 | 728.0 |
| 382 | MR | 163.3 | 281.2 | 317.7 | 325.8 | 281.2 | 1788.1 | 350.5 | 21.7 | 79.5 | 957.1 | 74.8 | 95.8 | 957.1 |
| 383 | MR | 100.3 | 288.8 | 293.6 | 293.6 | 288.8 | 2822.5 | 316.6 | 134.6 | 24.4 | 897.5 | 466.6 | 469.1 | 897.5 |
| 384 | MR | 195.0 | 315.7 | 338.2 | 349.8 | 315.7 | 1507.2 | 225.0 | 12.4 | 59.9 | 654.1 | 58.4 | 205.5 | 654.1 |
| 385 | MR | 203.4 | 318.6 | 336.2 | 350.5 | 318.6 | 1434.5 | 224.4 | 9.7 | 60.7 | 633.1 | 57.7 | 201.9 | 633.1 |
| 386 | MR | 169.0 | 286.9 | 319.7 | 329.4 | 286.9 | 2128.6 | 337.6 | 15.1 | 63.1 | 954.3 | 89.5 | 270.8 | 954.3 |
| 387 | MR | 127.1 | 301.5 | 312.6 | 317.6 | 300.2 | 2670.9 | 358.0 | 123.7 | 35.7 | 978.4 | 426.5 | 444.5 | 921.5 |
| 388 | MR | 157.7 | 276.9 | 305.2 | 316.2 | 276.9 | 1764.9 | 354.8 | 22.9 | 82.6 | 993.8 | 86.4 | 160.0 | 993.8 |
| 389 | MR | 153.9 | 300.0 | 313.1 | 313.6 | 294.8 | 2163.3 | 251.7 | 45.3 | 37.3 | 707.2 | 238.3 | 249.9 | 701.1 |
| 390 | MR | 173.0 | 286.5 | 327.4 | 335.5 | 286.5 | 1984.6 | 368.0 | 25.8 | 73.3 | 997.3 | 95.6 | 129.6 | 997.3 |
| 391 | MR | 176.0 | 284.0 | 316.0 | 327.0 | 284.0 | 1940.0 | 342.0 | 2.0 | 75.0 | 968.0 | 44.0 | 182.0 | 968.0 |
| 392 | MR | 119.0 | 301.0 | 322.0 | 322.0 | 299.0 | 2642.0 | 527.0 | 28.0 | 83.0 | 1414.0 | 100.0 | 159.0 | 1389.0 |
| 393 | MR | 175.8 | 284.8 | 316.8 | 327.0 | 284.8 | 1949.5 | 344.5 | 1.8 | 74.8 | 974.8 | 44.8 | 183.0 | 974.8 |
| 394 | MR | 172.5 | 284.5 | 316.5 | 326.5 | 284.5 | 2065.0 | 351.0 | 4.0 | 70.5 | 979.0 | 54.5 | 224.5 | 979.0 |
| 395 | MR | 173.3 | 284.1 | 340.1 | 343.7 | 284.1 | 2123.2 | 405.6 | 24.0 | 81.7 | 1152.7 | 85.6 | 91.4 | 1152.7 |
| 396 | MR | 145.5 | 298.1 | 329.2 | 331.1 | 298.1 | 3115.9 | 525.8 | 52.7 | 67.1 | 1531.3 | 246.8 | 288.4 | 1531.3 |
| 397 | MR | 123.0 | 275.9 | 318.5 | 318.5 | 274.3 | 2381.0 | 498.0 | 21.3 | 82.5 | 1284.7 | 90.2 | 91.1 | 1257.3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 398 | MR | 105.5 | 144.8 | 144.6 | 148.0 | 138.4 | 1925.8 | 268.7 | 95.8 | 32.3 | 732.3 | 329.6 | 425.8 | 506.3 |
| 399 | MR | 81.0 | 178.0 | 177.0 | 181.0 | 176.0 | 1868.0 | 209.0 | 100.0 | 23.0 | 545.0 | 314.0 | 416.0 | 404.0 |
| 400 | MR | 110.2 | 184.9 | 183.3 | 186.1 | 179.6 | 2477.5 | 343.1 | 130.7 | 31.5 | 937.4 | 427.7 | 711.4 | 650.9 |
| 401 | MR | 113.0 | 297.0 | 311.3 | 311.3 | 291.0 | 1884.0 | 401.8 | 29.5 | 72.5 | 978.5 | 92.3 | 92.3 | 458.5 |
| 402 | MR | 121.8 | 295.0 | 320.3 | 320.3 | 295.0 | 2009.4 | 359.5 | 45.9 | 61.7 | 986.1 | 175.8 | 175.8 | 986.1 |
| 403 | MR | 126.3 | 295.0 | 322.3 | 322.3 | 295.0 | 2016.3 | 373.0 | 46.8 | 63.5 | 986.8 | 167.5 | 169.8 | 986.8 |
| 404 | MR | 141.4 | 289.4 | 326.7 | 327.4 | 288.9 | 2693.5 | 565.3 | 31.3 | 70.0 | 1337.0 | 163.7 | 184.0 | 1330.1 |
| 405 | MR | 122.8 | 293.9 | 317.6 | 317.6 | 292.8 | 1882.8 | 343.7 | 47.5 | 62.1 | 916.8 | 159.7 | 163.1 | 442.2 |
| 406 | MR | 129.8 | 299.5 | 327.9 | 328.9 | 299.5 | 2036.5 | 378.8 | 35.2 | 63.9 | 1009.1 | 161.0 | 178.2 | 1009.1 |
| 407 | MR | 121.7 | 285.0 | 303.3 | 303.3 | 281.6 | 2440.9 | 419.3 | 44.9 | 61.9 | 1103.1 | 183.4 | 183.4 | 750.3 |
| 408 | MR | 116.8 | 287.7 | 302.6 | 302.9 | 285.8 | 3424.8 | 601.1 | 53.4 | 64.8 | 1522.3 | 188.6 | 245.5 | 1132.1 |
| 409 | MR | 123.9 | 282.6 | 299.9 | 299.9 | 279.4 | 3032.4 | 519.4 | 44.9 | 63.3 | 1296.4 | 182.3 | 182.3 | 1075.1 |
| 410 | MR | 169.3 | 294.3 | 330.6 | 335.7 | 294.3 | 2114.9 | 312.6 | 19.9 | 55.0 | 869.6 | 142.0 | 153.6 | 869.6 |
| 411 | MR | 117.5 | 297.3 | 321.7 | 321.7 | 297.3 | 1736.5 | 311.5 | 35.3 | 60.8 | 848.8 | 154.0 | 154.0 | 848.8 |
| 412 | MR | 186.4 | 284.1 | 315.3 | 325.3 | 284.1 | 1687.8 | 323.1 | 0.5 | 79.7 | 883.0 | 33.5 | 130.6 | 883.0 |
| 413 | MR | 175.4 | 286.3 | 335.6 | 335.6 | 286.3 | 2208.7 | 412.8 | 41.6 | 63.9 | 1105.4 | 167.3 | 167.3 | 1055.9 |
| 414 | MR | 117.3 | 294.7 | 313.6 | 313.6 | 291.3 | 1898.4 | 346.5 | 37.2 | 64.4 | 915.4 | 122.0 | 122.0 | 483.1 |
| 415 | MR | 213.8 | 304.6 | 294.4 | 318.9 | 279.0 | 970.4 | 150.5 | 15.8 | 62.1 | 443.6 | 54.6 | 206.5 | 132.7 |
| 416 | MR | 180.3 | 312.4 | 340.2 | 346.2 | 312.3 | 1538.1 | 233.8 | 9.4 | 59.6 | 643.6 | 62.3 | 132.1 | 634.2 |
| 417 | MR | 202.1 | 327.5 | 297.4 | 327.6 | 284.6 | 3207.7 | 461.3 | 41.6 | 55.6 | 1361.3 | 224.0 | 1258.3 | 465.3 |
| 418 | MR | 134.0 | 301.5 | 323.0 | 326.0 | 301.5 | 2508.0 | 411.5 | 59.0 | 59.5 | 1166.0 | 276.0 | 306.0 | 1166.0 |
| 419 | MR | 206.7 | 312.9 | 306.4 | 326.9 | 293.0 | 1072.0 | 165.6 | 18.5 | 59.8 | 476.5 | 68.2 | 229.2 | 152.5 |
| 420 | MR | 212.0 | 318.0 | 289.0 | 323.0 | 276.5 | 3155.0 | 488.5 | 36.5 | 60.0 | 1381.5 | 187.5 | 1204.0 | 191.0 |
| 421 | MR | 178.9 | 309.7 | 306.4 | 318.0 | 295.9 | 1483.8 | 212.3 | 22.4 | 52.0 | 588.3 | 116.1 | 312.3 | 245.3 |
| 422 | MR | 132.5 | 235.5 | 241.0 | 243.5 | 232.5 | 3626.0 | 691.5 | 141.0 | 53.0 | 1633.5 | 495.0 | 537.0 | 1050.5 |
| 423 | MR | 201.0 | 326.3 | 298.0 | 326.3 | 285.0 | 3051.7 | 437.3 | 39.7 | 55.0 | 1289.7 | 217.7 | 1190.3 | 456.3 |
| 424 | MR | 117.6 | 235.3 | 237.4 | 238.1 | 233.1 | 2818.6 | 363.4 | 147.7 | 29.3 | 1018.0 | 497.4 | 547.6 | 773.4 |
| 425 | MR | 200.5 | 318.5 | 318.0 | 332.5 | 305.5 | 1594.5 | 239.0 | 22.5 | 55.0 | 673.5 | 119.0 | 332.0 | 238.5 |
| 426 | MR | 192.3 | 127.2 | 106.1 | 133.1 | 106.1 | 931.6 | 185.9 | 6.4 | 77.7 | 479.2 | 31.1 | 296.3 | 31.1 |
| 427 | MR | 204.0 | 88.0 | 63.0 | 92.0 | 63.0 | 824.0 | 176.0 | 5.0 | 82.0 | 460.0 | 27.0 | 230.0 | 27.0 |
| 428 | MR | 129.2 | 218.6 | 214.5 | 222.2 | 213.3 | 1642.3 | 334.6 | 66.7 | 57.4 | 756.4 | 232.1 | 279.4 | 280.5 |
| 429 | MR | 164.8 | 218.3 | 214.3 | 229.3 | 213.8 | 1630.8 | 234.8 | 27.2 | 52.8 | 667.2 | 118.5 | 351.1 | 240.9 |
| 430 | MR | 196.4 | 179.4 | 176.0 | 186.0 | 174.6 | 1126.8 | 165.4 | 18.6 | 49.6 | 456.0 | 95.0 | 260.2 | 167.2 |
| 431 | MR | 135.7 | 173.5 | 169.7 | 175.7 | 168.9 | 1141.0 | 168.7 | 32.9 | 43.0 | 432.8 | 134.7 | 245.5 | 156.7 |
| 432 | MR | 112.6 | 289.1 | 316.1 | 317.4 | 289.1 | 2375.3 | 428.8 | 58.1 | 56.0 | 1100.8 | 225.6 | 301.4 | 1100.8 |
| 433 | MR | 195.2 | 319.2 | 311.6 | 327.2 | 297.7 | 1887.8 | 276.8 | 24.6 | 54.0 | 792.6 | 141.9 | 381.4 | 301.6 |
| 434 | MR | 130.4 | 257.7 | 267.6 | 274.3 | 254.3 | 2875.3 | 441.1 | 54.2 | 52.0 | 1147.0 | 213.5 | 725.6 | 1079.1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 435 | MR | 145.7 | 289.7 | 327.4 | 328.9 | 288.3 | 2602.9 | 527.9 | 26.8 | 68.9 | 1281.9 | 153.5 | 164.5 | 1254.4 |
| 436 | MR | 126.2 | 230.3 | 225.9 | 234.3 | 225.1 | 1757.2 | 366.9 | 76.7 | 59.3 | 820.7 | 258.7 | 292.3 | 311.4 |
| 437 | MR | 113.2 | 291.4 | 290.1 | 296.8 | 288.0 | 3145.7 | 611.2 | 129.2 | 51.7 | 1372.7 | 446.0 | 556.0 | 653.7 |
| 438 | MR | 149.8 | 308.1 | 316.3 | 316.5 | 300.3 | 2638.1 | 358.5 | 111.1 | 31.6 | 929.8 | 403.5 | 483.7 | 694.7 |
| 439 | MR | 108.9 | 292.9 | 297.1 | 297.8 | 292.9 | 2878.1 | 329.4 | 125.8 | 24.3 | 928.5 | 503.9 | 615.7 | 922.9 |
| 1 | Presente | 276.9 | 9.0 | 658.9 | 695.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2 | Presente | 326.3 | 18.0 | 579.8 | 598.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 3 | Presente | 167.1 | 74.6 | 33.6 | 41.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 4 | Presente | 293.2 | 25.9 | 420.4 | 420.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 5 | Presente | 204.6 | 22.4 | 302.8 | 306.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 6 | Presente | 222.2 | 39.4 | 196.0 | 234.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 7 | Presente | 316.8 | 13.8 | 645.3 | 667.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 8 | Presente | 331.6 | 49.4 | 240.4 | 589.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 9 | Presente | 285.9 | 57.3 | 156.3 | 183.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 10 | Presente | 328.4 | 52.3 | 208.7 | 208.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 11 | Presente | 440.5 | 61.4 | 176.8 | 1209.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 12 | Presente | 366.9 | 77.1 | 64.4 | 883.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 13 | Presente | 316.4 | 41.9 | 304.5 | 829.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 14 | Presente | 243.6 | 55.9 | 132.5 | 135.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 15 | Presente | 218.0 | 58.0 | 104.0 | 112.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 16 | Presente | 377.8 | 81.6 | 39.9 | 976.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 17 | Presente | 217.8 | 67.2 | 72.4 | 81.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 18 | Presente | 388.0 | 61.0 | 137.0 | 1022.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 19 | Presente | 308.6 | 65.4 | 90.1 | 795.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 20 | Presente | 286.1 | 56.0 | 123.6 | 188.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 21 | Presente | 404.0 | 51.0 | 315.0 | 1129.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 22 | Presente | 267.8 | 64.8 | 87.4 | 660.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 23 | Presente | 428.0 | 78.0 | 90.6 | 1163.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 24 | Presente | 286.0 | 56.0 | 125.0 | 187.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 25 | Presente | 325.8 | 43.0 | 288.3 | 861.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 26 | Presente | 295.7 | 40.4 | 273.9 | 808.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 27 | Presente | 354.1 | 38.0 | 347.3 | 846.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 28 | Presente | 372.5 | 57.5 | 173.0 | 970.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 29 | Presente | 293.0 | 46.0 | 221.0 | 820.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 30 | Presente | 298.2 | 67.0 | 114.0 | 826.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 31 | Presente | 396.4 | 41.8 | 369.6 | 901.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 32 | Presente | 373.0 | 51.0 | 285.3 | 1028.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 33 | Presente | 388.3 | 66.1 | 106.1 | 1006.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 34 | Presente | 304.5 | 60.0 | 102.5 | 255.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 35 | Presente | 271.7 | 65.6 | 86.1 | 684.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 36 | Presente | 335.5 | 57.3 | 122.2 | 839.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 37 | Presente | 289.7 | 43.4 | 242.2 | 815.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 38 | Presente | 234.3 | 54.3 | 134.0 | 142.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 39 | Presente | 315.7 | 62.3 | 83.6 | 754.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 40 | Presente | 322.3 | 39.6 | 326.6 | 844.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 41 | Presente | 200.5 | 59.5 | 113.0 | 146.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 42 | Presente | 286.5 | 57.5 | 162.0 | 162.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 43 | Presente | 265.6 | 65.3 | 66.9 | 120.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 44 | Presente | 266.0 | 64.3 | 79.0 | 127.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 45 | Presente | 200.5 | 59.5 | 113.0 | 146.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 46 | Presente | 280.7 | 57.7 | 140.5 | 176.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 47 | Presente | 299.3 | 52.1 | 193.4 | 193.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 48 | Presente | 342.8 | 51.6 | 230.8 | 245.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 49 | Presente | 432.7 | 52.7 | 245.3 | 1199.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 50 | Presente | 213.4 | 22.0 | 330.9 | 524.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 51 | Presente | 209.5 | 64.2 | 81.5 | 87.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 52 | Presente | 240.3 | 59.0 | 136.4 | 146.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 53 | Presente | 356.0 | 52.2 | 244.6 | 251.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 54 | Presente | 262.4 | 52.9 | 173.6 | 190.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 55 | Presente | 285.0 | 40.3 | 231.0 | 305.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 56 | Presente | 305.4 | 20.6 | 513.9 | 723.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 57 | Presente | 347.0 | 52.0 | 248.0 | 947.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 58 | Presente | 356.0 | 51.0 | 266.0 | 977.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 59 | Presente | 324.0 | 32.0 | 363.0 | 749.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 60 | Presente | 263.0 | 58.0 | 100.0 | 132.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 61 | Presente | 251.5 | 52.0 | 164.0 | 179.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 62 | Presente | 335.5 | 78.3 | 126.1 | 786.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 63 | Presente | 388.3 | 37.0 | 372.0 | 439.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 64 | Presente | 368.3 | 38.4 | 397.0 | 465.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 65 | Presente | 418.3 | 37.9 | 420.3 | 1086.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 66 | Presente | 545.0 | 52.0 | 266.0 | 1046.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 67 | Presente | 368.0 | 50.0 | 211.0 | 612.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 68 | Presente | 143.5 | 21.1 | 233.2 | 234.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 69 | Presente | 159.9 | 56.7 | 79.1 | 80.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 70 | Presente | 345.4 | 45.8 | 265.9 | 269.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 71 | Presente | 338.7 | 61.8 | 202.5 | 893.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 72 | Presente | 418.0 | 62.0 | 172.0 | 1158.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 73 | Presente | 418.5 | 61.5 | 174.5 | 1162.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 74 | Presente | 315.0 | 51.4 | 186.0 | 910.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 75 | Presente | 332.8 | 67.5 | 161.7 | 823.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 76 | Presente | 337.2 | 61.0 | 112.0 | 179.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 77 | Presente | 383.6 | 57.0 | 213.2 | 622.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 78 | Presente | 354.5 | 76.0 | 35.5 | 67.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 79 | Presente | 328.8 | 49.3 | 192.1 | 772.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 80 | Presente | 358.9 | 14.0 | 715.6 | 932.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 81 | Presente | 301.5 | 20.0 | 515.8 | 711.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 82 | Presente | 329.4 | 69.4 | 160.0 | 813.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 83 | Presente | 323.6 | 59.3 | 193.1 | 812.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 84 | Presente | 255.3 | 55.1 | 120.2 | 120.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 85 | Presente | 328.7 | 74.0 | 40.0 | 82.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 86 | Presente | 313.5 | 79.0 | 21.1 | 52.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 87 | Presente | 364.6 | 69.5 | 55.1 | 117.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 88 | Presente | 360.9 | 64.4 | 86.3 | 172.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 89 | Presente | 278.0 | 58.2 | 99.7 | 157.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 90 | Presente | 308.3 | 63.3 | 91.1 | 860.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 91 | Presente | 344.2 | 61.3 | 94.2 | 971.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 92 | Presente | 311.1 | 51.0 | 191.6 | 900.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 93 | Presente | 349.3 | 51.1 | 189.5 | 927.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 94 | Presente | 339.5 | 34.6 | 391.2 | 890.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 95 | Presente | 328.5 | 58.6 | 196.0 | 882.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 96 | Presente | 340.2 | 54.5 | 143.0 | 249.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 97 | Presente | 333.2 | 60.7 | 91.0 | 180.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 98 | Presente | 299.2 | 62.2 | 95.0 | 774.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 99 | Presente | 112.3 | 264.2 | 272.9 | 273.2 | 261.5 | 2260.1 | 335.9 | 55.8 | 55.5 | 975.4 | 193.5 | 199.0 | 856.7 |
| 100 | Presente | 330.2 | 57.1 | 118.8 | 770.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 101 | Presente | 317.3 | 48.0 | 211.8 | 883.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 102 | Presente | 344.1 | 52.7 | 196.2 | 924.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 103 | Presente | 339.9 | 61.6 | 99.0 | 189.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 104 | Presente | 288.7 | 58.2 | 109.7 | 156.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 105 | Presente | 294.9 | 61.3 | 104.3 | 821.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 106 | Presente | 325.0 | 49.9 | 189.8 | 930.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 107 | Presente | 334.1 | 62.2 | 98.1 | 174.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 108 | Presente | 353.7 | 64.5 | 78.1 | 989.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 109 | Presente | 382.5 | 66.3 | 79.4 | 167.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 110 | Presente | 336.2 | 56.7 | 110.9 | 235.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 111 | Presente | 261.2 | 60.6 | 81.7 | 132.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 112 | Presente | 330.4 | 54.4 | 161.7 | 238.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 113 | Presente | 271.6 | 53.4 | 190.2 | 639.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 114 | Presente | 317.2 | 48.7 | 240.5 | 904.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 115 | Presente | 324.7 | 55.5 | 137.0 | 228.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 116 | Presente | 330.7 | 65.9 | 177.8 | 825.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 117 | Presente | 268.9 | 58.5 | 105.7 | 154.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 118 | Presente | 265.9 | 59.9 | 83.0 | 137.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 119 | Presente | 414.2 | 56.2 | 219.9 | 937.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 120 | Presente | 302.6 | 59.3 | 165.0 | 791.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 121 | Presente | 304.5 | 64.3 | 98.0 | 846.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 122 | Presente | 327.5 | 32.9 | 370.2 | 516.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 123 | Presente | 361.0 | 60.8 | 99.2 | 177.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 124 | Presente | 327.6 | 46.3 | 219.1 | 334.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 125 | Presente | 366.3 | 64.3 | 77.2 | 149.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 126 | Presente | 380.2 | 51.3 | 259.3 | 841.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 127 | Presente | 362.0 | 67.0 | 59.0 | 138.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 128 | Presente | 348.0 | 69.0 | 52.0 | 114.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 129 | Presente | 345.2 | 62.0 | 95.7 | 175.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 130 | Presente | 317.6 | 60.7 | 107.9 | 162.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 131 | Presente | 361.0 | 67.0 | 65.0 | 141.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 132 | Presente | 361.0 | 67.0 | 56.4 | 134.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 133 | Presente | 362.0 | 67.0 | 63.0 | 140.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 134 | Presente | 298.7 | 59.7 | 101.3 | 347.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 135 | Presente | 359.0 | 67.0 | 55.0 | 135.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 136 | Presente | 411.6 | 54.4 | 191.5 | 1023.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 137 | Presente | 338.7 | 62.6 | 80.2 | 948.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 138 | Presente | 301.9 | 46.0 | 267.7 | 892.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 139 | Presente | 375.8 | 67.4 | 65.7 | 138.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 140 | Presente | 320.0 | 50.8 | 191.7 | 697.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 141 | Presente | 344.6 | 34.8 | 364.5 | 776.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 142 | Presente | 359.5 | 62.9 | 84.1 | 155.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 143 | Presente | 333.7 | 50.7 | 186.0 | 494.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 144 | Presente | 376.9 | 49.2 | 302.1 | 719.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 145 | Presente | 350.2 | 36.8 | 327.3 | 638.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 146 | Presente | 208.5 | 37.2 | 213.9 | 272.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 147 | Presente | 243.7 | 64.4 | 104.0 | 143.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 148 | Presente | 236.4 | 54.8 | 140.6 | 188.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 149 | Presente | 439.4 | 72.9 | 94.2 | 1244.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 150 | Presente | 337.0 | 54.7 | 180.8 | 348.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 151 | Presente | 308.4 | 77.4 | 70.9 | 94.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 152 | Presente | 434.8 | 64.6 | 157.5 | 578.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 153 | Presente | 266.8 | 37.8 | 254.2 | 333.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 154 | Presente | 379.1 | 75.1 | 102.1 | 971.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 155 | Presente | 491.6 | 61.9 | 196.3 | 1364.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 156 | Presente | 536.0 | 52.0 | 264.0 | 1027.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 157 | Presente | 481.0 | 59.0 | 222.0 | 1344.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 158 | Presente | 177.0 | 44.3 | 140.3 | 180.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 159 | Presente | 468.1 | 55.9 | 246.1 | 849.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 160 | Presente | 283.6 | 45.0 | 241.2 | 364.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 161 | Presente | 300.0 | 38.8 | 280.6 | 459.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 162 | Presente | 318.8 | 42.0 | 271.3 | 492.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 163 | Presente | 346.8 | 41.3 | 269.6 | 580.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 164 | Presente | 259.9 | 50.2 | 161.4 | 187.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 165 | Presente | 327.4 | 49.1 | 243.3 | 923.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 166 | Presente | 198.7 | 53.1 | 141.5 | 165.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 167 | Presente | 343.2 | 42.5 | 305.3 | 856.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 168 | Presente | 462.3 | 48.8 | 356.0 | 359.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 169 | Presente | 366.4 | 46.4 | 220.7 | 732.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 170 | Presente | 377.9 | 65.1 | 79.0 | 162.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 171 | Presente | 388.7 | 55.1 | 198.6 | 488.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 172 | Presente | 322.7 | 63.9 | 184.6 | 192.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 173 | Presente | 200.2 | 18.1 | 368.2 | 526.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 174 | Presente | 237.2 | 27.8 | 311.6 | 329.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 175 | Presente | 372.5 | 47.6 | 214.4 | 756.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 176 | Presente | 569.9 | 60.8 | 180.6 | 1266.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 177 | Presente | 389.4 | 56.3 | 148.9 | 1052.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 178 | Presente | 326.2 | 28.3 | 419.4 | 861.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 179 | Presente | 346.5 | 20.7 | 544.1 | 866.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 180 | Presente | 338.0 | 29.0 | 444.9 | 839.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 181 | Presente | 365.7 | 62.5 | 92.3 | 176.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 182 | Presente | 452.3 | 43.0 | 376.6 | 611.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 183 | Presente | 222.6 | 28.0 | 285.5 | 567.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 184 | Presente | 294.4 | 54.4 | 179.1 | 191.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 185 | Presente | 305.9 | 46.8 | 237.6 | 244.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 186 | Presente | 301.2 | 58.8 | 105.8 | 169.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 187 | Presente | 371.8 | 50.6 | 191.7 | 802.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 188 | Presente | 285.3 | 52.8 | 213.9 | 257.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 189 | Presente | 354.4 | 49.3 | 210.6 | 977.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 190 | Presente | 337.4 | 31.6 | 409.7 | 918.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 191 | Presente | 304.7 | 20.7 | 498.0 | 613.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 192 | Presente | 330.7 | 17.3 | 645.2 | 684.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 193 | Presente | 201.6 | 17.0 | 392.0 | 456.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 194 | Presente | 242.8 | 30.1 | 287.8 | 568.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 195 | Presente | 325.5 | 32.5 | 377.5 | 771.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 196 | Presente | 335.3 | 30.0 | 405.8 | 909.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 197 | Presente | 346.1 | 20.1 | 602.7 | 691.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 198 | Presente | 367.8 | 28.1 | 505.9 | 995.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 199 | Presente | 343.3 | 36.6 | 321.6 | 900.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 200 | Presente | 360.0 | 45.1 | 243.7 | 969.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 201 | Presente | 257.3 | 38.2 | 227.5 | 621.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 202 | Presente | 381.2 | 37.4 | 332.7 | 922.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 203 | Presente | 330.7 | 17.1 | 617.6 | 680.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 204 | Presente | 279.6 | 69.3 | 61.0 | 98.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 205 | Presente | 213.8 | 51.6 | 135.6 | 139.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 206 | Presente | 303.1 | 62.6 | 81.4 | 139.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 207 | Presente | 347.2 | 34.4 | 386.7 | 823.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 208 | Presente | 353.0 | 21.7 | 573.2 | 914.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 209 | Presente | 166.2 | 26.6 | 243.0 | 267.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 210 | Presente | 156.3 | 47.5 | 97.6 | 97.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 211 | Presente | 360.2 | 64.5 | 76.1 | 669.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 212 | Presente | 255.7 | 27.6 | 342.4 | 637.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 213 | Presente | 255.7 | 64.2 | 53.9 | 116.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 214 | Presente | 308.3 | 52.8 | 221.0 | 802.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 215 | Presente | 285.1 | 43.4 | 207.9 | 277.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 216 | Presente | 316.5 | 62.2 | 99.2 | 863.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 217 | Presente | 375.8 | 24.0 | 577.3 | 979.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 218 | Presente | 393.4 | 24.6 | 600.1 | 1056.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 219 | Presente | 223.5 | 42.5 | 184.0 | 184.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 220 | Presente | 196.3 | 68.7 | 71.0 | 74.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 221 | Presente | 342.9 | 63.5 | 177.0 | 838.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 222 | Presente | 185.0 | 70.4 | 57.1 | 57.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 223 | Presente | 466.2 | 52.9 | 294.6 | 295.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 224 | Presente | 163.6 | 47.3 | 130.5 | 132.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 225 | Presente | 224.3 | 51.5 | 147.5 | 147.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 226 | Presente | 475.9 | 53.1 | 266.3 | 1290.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 227 | Presente | 322.5 | 18.6 | 554.0 | 832.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 228 | Presente | 264.7 | 59.8 | 94.2 | 132.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 229 | Presente | 270.8 | 69.8 | 53.0 | 91.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 230 | Presente | 393.0 | 69.9 | 50.2 | 952.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 231 | Presente | 278.5 | 60.5 | 78.8 | 144.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 232 | Presente | 374.8 | 66.9 | 66.1 | 138.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 233 | Presente | 358.3 | 66.5 | 69.3 | 129.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 234 | Presente | 345.1 | 43.3 | 270.2 | 975.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 235 | Presente | 291.0 | 67.7 | 104.0 | 801.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 236 | Presente | 347.8 | 37.5 | 362.7 | 835.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 237 | Presente | 326.9 | 40.7 | 301.0 | 844.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 238 | Presente | 308.7 | 47.2 | 230.0 | 773.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 239 | Presente | 273.1 | 65.5 | 86.6 | 691.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 240 | Presente | 254.4 | 67.9 | 42.7 | 94.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 241 | Presente | 364.3 | 62.8 | 87.1 | 158.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 242 | Presente | 289.0 | 44.0 | 235.0 | 807.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 243 | Presente | 365.8 | 69.4 | 58.2 | 123.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 244 | Presente | 360.5 | 50.5 | 276.5 | 994.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 245 | Presente | 344.1 | 72.5 | 32.0 | 59.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 246 | Presente | 301.5 | 52.0 | 205.0 | 232.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 247 | Presente | 266.8 | 61.5 | 106.4 | 138.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 248 | Presente | 305.3 | 55.2 | 170.1 | 170.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 249 | Presente | 341.0 | 44.0 | 247.8 | 851.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 250 | Presente | 226.5 | 58.4 | 107.1 | 112.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 251 | Presente | 246.7 | 69.0 | 47.9 | 94.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 252 | Presente | 308.5 | 77.0 | 15.0 | 50.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 253 | Presente | 290.0 | 65.0 | 80.0 | 715.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 254 | Presente | 232.4 | 23.2 | 357.2 | 578.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 255 | Presente | 293.7 | 30.7 | 357.3 | 774.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 256 | Presente | 510.7 | 47.8 | 305.3 | 1043.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 257 | Presente | 208.5 | 27.5 | 300.5 | 339.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 258 | Presente | 389.0 | 49.0 | 218.0 | 1018.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 259 | Presente | 376.5 | 48.0 | 227.5 | 1010.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 260 | Presente | 463.0 | 49.1 | 305.0 | 932.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 261 | Presente | 319.3 | 51.0 | 170.5 | 539.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 262 | Presente | 347.0 | 21.3 | 570.1 | 819.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 263 | Presente | 589.8 | 49.5 | 320.5 | 1189.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 264 | Presente | 375.2 | 82.1 | 39.6 | 964.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 265 | Presente | 342.2 | 24.9 | 514.0 | 882.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 266 | Presente | 362.7 | 63.2 | 82.4 | 155.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 267 | Presente | 365.9 | 61.2 | 101.8 | 183.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 268 | Presente | 286.5 | 40.5 | 284.2 | 825.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 269 | Presente | 329.2 | 39.2 | 307.3 | 407.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 270 | Presente | 330.6 | 48.4 | 198.2 | 966.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 271 | Presente | 317.6 | 42.4 | 261.8 | 928.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 272 | Presente | 335.8 | 46.9 | 218.0 | 827.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 273 | Presente | 359.6 | 48.4 | 271.6 | 978.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 274 | Presente | 304.5 | 45.7 | 247.5 | 888.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 275 | Presente | 320.5 | 46.5 | 264.9 | 833.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 276 | Presente | 342.6 | 41.3 | 284.8 | 949.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 277 | Presente | 333.8 | 46.7 | 245.3 | 921.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 278 | Presente | 343.2 | 20.9 | 570.9 | 816.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 279 | Presente | 321.4 | 39.9 | 291.4 | 863.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 280 | Presente | 355.3 | 45.3 | 251.3 | 991.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 281 | Presente | 321.4 | 43.7 | 254.4 | 933.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 282 | Presente | 313.6 | 42.7 | 258.1 | 344.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 283 | Presente | 309.6 | 44.0 | 254.2 | 899.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 284 | Presente | 518.8 | 50.8 | 378.0 | 378.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 285 | Presente | 182.6 | 18.1 | 333.3 | 368.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 286 | Presente | 298.2 | 22.3 | 462.9 | 747.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 287 | Presente | 342.7 | 19.7 | 552.0 | 870.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 288 | Presente | 339.0 | 26.0 | 465.3 | 880.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 289 | Presente | 260.9 | 68.5 | 48.5 | 95.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 290 | Presente | 339.2 | 81.5 | 89.1 | 379.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 291 | Presente | 323.9 | 76.7 | 34.6 | 76.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 292 | Presente | 443.7 | 70.4 | 81.2 | 1256.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 293 | Presente | 328.0 | 14.5 | 677.0 | 822.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 294 | Presente | 360.9 | 54.1 | 162.4 | 686.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 295 | Presente | 383.3 | 23.6 | 541.2 | 863.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 296 | Presente | 409.2 | 70.2 | 38.4 | 1099.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 297 | Presente | 260.3 | 61.8 | 61.9 | 136.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 298 | Presente | 406.5 | 49.2 | 316.8 | 900.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 299 | Presente | 311.4 | 66.1 | 95.8 | 875.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 300 | Presente | 259.8 | 64.5 | 47.4 | 131.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 301 | Presente | 392.5 | 47.2 | 306.0 | 880.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 302 | Presente | 545.5 | 44.5 | 359.0 | 1150.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 303 | Presente | 237.4 | 67.6 | 63.1 | 103.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 304 | Presente | 329.1 | 27.7 | 434.8 | 875.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 305 | Presente | 498.9 | 41.0 | 475.1 | 483.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 306 | Presente | 233.6 | 49.8 | 157.3 | 160.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 307 | Presente | 138.8 | 17.2 | 258.8 | 269.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 308 | Presente | 275.7 | 43.9 | 218.4 | 250.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 309 | Presente | 344.9 | 30.5 | 414.4 | 914.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 310 | Presente | 238.3 | 49.0 | 161.1 | 162.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 311 | Presente | 253.0 | 54.8 | 120.7 | 154.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 312 | Presente | 272.0 | 11.9 | 600.5 | 717.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 313 | Presente | 331.8 | 46.3 | 255.5 | 259.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 314 | Presente | 294.8 | 54.5 | 168.9 | 168.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 315 | Presente | 268.9 | 49.9 | 200.7 | 207.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 316 | Presente | 329.5 | 22.7 | 508.4 | 875.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 317 | Presente | 227.5 | 22.2 | 354.0 | 592.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 318 | Presente | 287.7 | 16.8 | 525.9 | 808.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 319 | Presente | 187.7 | 19.7 | 351.0 | 483.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 320 | Presente | 285.8 | 18.2 | 525.4 | 533.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 321 | Presente | 276.5 | 56.4 | 128.6 | 157.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 322 | Presente | 191.4 | 70.7 | 66.1 | 67.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 323 | Presente | 256.8 | 22.6 | 408.4 | 479.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 324 | Presente | 255.5 | 24.5 | 373.7 | 445.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 325 | Presente | 277.0 | 13.3 | 574.8 | 765.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 326 | Presente | 405.0 | 51.1 | 273.6 | 277.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 327 | Presente | 448.0 | 25.0 | 633.0 | 1150.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 328 | Presente | 259.9 | 51.8 | 136.4 | 184.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 329 | Presente | 262.9 | 51.7 | 136.2 | 179.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 330 | Presente | 355.3 | 67.0 | 60.3 | 130.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 331 | Presente | 318.9 | 73.8 | 39.6 | 88.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 332 | Presente | 303.1 | 55.5 | 133.9 | 212.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 333 | Presente | 434.8 | 67.8 | 176.7 | 1150.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 334 | Presente | 323.1 | 20.2 | 569.0 | 814.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 335 | Presente | 351.8 | 28.4 | 449.3 | 605.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 336 | Presente | 256.8 | 64.2 | 50.2 | 123.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 337 | Presente | 339.8 | 50.0 | 182.6 | 291.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 338 | Presente | 342.7 | 70.5 | 45.0 | 106.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 339 | Presente | 265.2 | 34.8 | 291.3 | 553.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 340 | Presente | 291.2 | 58.8 | 101.5 | 160.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 341 | Presente | 255.6 | 59.4 | 85.6 | 125.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 342 | Presente | 515.8 | 79.0 | 73.8 | 1404.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 343 | Presente | 320.0 | 81.0 | 54.0 | 121.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 344 | Presente | 252.5 | 69.5 | 35.0 | 85.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 345 | Presente | 318.0 | 90.0 | 27.0 | 825.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 346 | Presente | 327.5 | 79.3 | 57.5 | 758.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 347 | Presente | 337.3 | 71.8 | 43.0 | 100.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 348 | Presente | 345.7 | 73.0 | 43.7 | 98.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 349 | Presente | 373.8 | 65.2 | 73.3 | 148.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 350 | Presente | 359.8 | 69.8 | 54.2 | 111.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 351 | Presente | 320.0 | 41.6 | 307.2 | 868.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 352 | Presente | 358.0 | 67.0 | 56.0 | 129.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 353 | Presente | 438.6 | 75.7 | 128.8 | 1203.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 354 | Presente | 317.0 | 72.0 | 39.0 | 94.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 355 | Presente | 286.6 | 58.9 | 103.4 | 149.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 356 | Presente | 307.1 | 59.2 | 94.2 | 173.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 357 | Presente | 320.0 | 71.0 | 40.0 | 98.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 358 | Presente | 385.4 | 49.2 | 220.5 | 1028.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 359 | Presente | 340.1 | 61.7 | 109.5 | 173.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 360 | Presente | 510.2 | 78.0 | 97.5 | 1270.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 361 | Presente | 398.6 | 48.1 | 285.1 | 1117.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 362 | Presente | 524.5 | 80.2 | 73.8 | 1343.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 363 | Presente | 345.5 | 71.5 | 49.3 | 105.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 364 | Presente | 496.0 | 82.0 | 34.0 | 1333.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 365 | Presente | 450.0 | 80.0 | 35.0 | 1177.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 366 | Presente | 427.5 | 78.5 | 39.0 | 1105.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 367 | Presente | 536.0 | 82.3 | 56.8 | 1404.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 368 | Presente | 501.0 | 80.0 | 48.0 | 1373.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 369 | Presente | 519.0 | 79.0 | 90.7 | 1264.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 370 | Presente | 502.5 | 77.5 | 100.5 | 1273.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 371 | Presente | 352.7 | 73.3 | 43.3 | 97.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 372 | Presente | 311.5 | 38.2 | 297.1 | 345.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 373 | Presente | 311.4 | 52.5 | 152.9 | 237.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 374 | Presente | 348.5 | 68.5 | 56.0 | 118.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 375 | Presente | 256.8 | 69.7 | 46.3 | 94.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 376 | Presente | 332.5 | 72.0 | 41.5 | 98.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 377 | Presente | 340.6 | 69.5 | 111.1 | 792.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 378 | Presente | 343.4 | 50.5 | 206.9 | 816.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 379 | Presente | 255.7 | 66.8 | 44.6 | 101.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 380 | Presente | 256.3 | 65.3 | 50.9 | 109.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 381 | Presente | 267.9 | 41.1 | 224.8 | 307.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 382 | Presente | 306.7 | 62.6 | 116.6 | 843.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 383 | Presente | 309.4 | 22.5 | 476.8 | 639.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 384 | Presente | 259.9 | 62.4 | 61.2 | 132.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 385 | Presente | 257.4 | 62.6 | 59.0 | 132.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 386 | Presente | 350.4 | 63.2 | 85.7 | 154.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 387 | Presente | 330.9 | 28.5 | 452.9 | 846.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 388 | Presente | 288.2 | 65.7 | 102.7 | 821.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 389 | Presente | 275.5 | 47.9 | 168.9 | 219.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 390 | Presente | 339.1 | 58.1 | 150.9 | 919.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 391 | Presente | 339.0 | 72.0 | 43.0 | 99.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 392 | Presente | 504.0 | 77.0 | 100.0 | 1274.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 393 | Presente | 342.3 | 72.5 | 43.3 | 99.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 394 | Presente | 349.5 | 68.5 | 52.5 | 117.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 395 | Presente | 319.8 | 60.9 | 177.1 | 860.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 396 | Presente | 393.6 | 54.5 | 222.8 | 1101.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 397 | Presente | 330.7 | 63.4 | 139.9 | 797.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 398 | Presente | 244.6 | 25.2 | 339.0 | 548.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 399 | Presente | 212.0 | 26.0 | 341.0 | 342.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 400 | Presente | 313.8 | 25.6 | 440.6 | 755.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 401 | Presente | 365.8 | 50.3 | 207.5 | 586.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 402 | Presente | 328.4 | 36.7 | 336.2 | 507.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 403 | Presente | 319.0 | 38.8 | 286.0 | 520.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 404 | Presente | 403.0 | 51.9 | 197.2 | 605.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 405 | Presente | 303.4 | 36.8 | 297.9 | 522.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 406 | Presente | 310.4 | 43.5 | 252.7 | 454.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 407 | Presente | 392.1 | 41.2 | 313.9 | 795.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 408 | Presente | 571.7 | 47.4 | 342.1 | 1165.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 409 | Presente | 494.3 | 47.5 | 295.9 | 1048.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 410 | Presente | 368.6 | 43.8 | 285.7 | 1023.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 411 | Presente | 301.7 | 38.7 | 307.0 | 416.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 412 | Presente | 407.4 | 34.6 | 449.3 | 1106.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 413 | Presente | 392.1 | 64.0 | 161.5 | 443.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 414 | Presente | 310.6 | 40.8 | 264.4 | 592.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 415 | Presente | 223.1 | 66.7 | 67.5 | 101.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 416 | Presente | 270.3 | 64.8 | 62.0 | 115.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 417 | Presente | 559.0 | 51.0 | 406.3 | 406.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 418 | Presente | 380.5 | 52.5 | 271.5 | 1029.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 419 | Presente | 229.2 | 64.4 | 85.3 | 120.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 420 | Presente | 559.5 | 53.5 | 355.5 | 355.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 421 | Presente | 288.2 | 57.6 | 144.5 | 180.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 422 | Presente | 309.0 | 15.5 | 617.5 | 805.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 423 | Presente | 533.0 | 50.3 | 388.7 | 388.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 424 | Presente | 297.1 | 18.7 | 545.4 | 855.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 425 | Presente | 312.5 | 58.0 | 141.5 | 141.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 426 | Presente | 165.2 | 74.8 | 33.8 | 41.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 427 | Presente | 148.0 | 78.0 | 26.0 | 37.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 428 | Presente | 133.5 | 18.0 | 245.9 | 252.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 429 | Presente | 221.8 | 53.4 | 136.2 | 137.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 430 | Presente | 148.2 | 57.4 | 72.4 | 72.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 431 | Presente | 141.2 | 34.4 | 154.6 | 155.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 432 | Presente | 377.4 | 55.3 | 239.4 | 383.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 433 | Presente | 354.3 | 55.2 | 194.2 | 194.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 434 | Presente | 388.1 | 55.2 | 197.9 | 488.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 435 | Presente | 397.0 | 55.0 | 172.2 | 583.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 436 | Presente | 139.2 | 16.8 | 269.6 | 272.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 437 | Presente | 246.5 | 12.1 | 537.9 | 582.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 438 | Presente | 266.5 | 32.4 | 281.0 | 341.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 439 | Presente | 326.2 | 19.6 | 581.9 | 592.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA |

| Código | Nome | Categoria | País | Área ($km^2$) |
|---|---|---|---|---|
| 1 | ACR Alto Nanay- Pintuyacu Chambira | V | Perú | 10423.9 |
| 2 | ACR Ampiyacu Apayacu | V | Perú | 4335.3 |
| 3 | ACR Choquequirao | V | Perú | 305.9 |
| 4 | ACR Comunal Tamshiyacu Tahuayo | V | Perú | 4198.8 |
| 5 | ACR Cordillera Escalera | V | Perú | 1499.0 |
| 6 | ACR Imiria | V | Perú | 1358.2 |
| 7 | ACR Maijuna Kichwa | V | Perú | 3908.7 |
| 8 | AECM Siete Iglesias | V | Equador | 113.1 |
| 9 | AMIMZE de Amortiguamiento Santos Reyes | IV | Bolívia | 8992.2 |
| 10 | ANCM Cuencas Eva - Eva Mosetenes | VI | Bolívia | 2397.8 |
| 11 | APA Arquipélago do Marajó | V | Brasil | 45236.7 |
| 12 | APA Baixada Maranhense | V | Brasil | 10784.5 |
| 13 | APA Baixo Rio Branco | V | Brasil | 15645.6 |
| 14 | APA Cumbre de Apacheta | V | Bolívia | 77.1 |
| 15 | APA das Reentrâncias Maranhenses | V | Brasil | 4124.0 |
| 16 | APA de cuencas y biodiversidad Cumbre Alto Beni | V | Bolívia | 849.2 |
| 17 | APA de ruinas arqueologicas Paititi | V | Bolívia | 123.0 |
| 18 | APA Fazendinha | V | Brasil | 1.5 |
| 19 | APA Igarapé Gelado | V | Brasil | 233.4 |
| 20 | APA Igarapé São Francisco | V | Brasil | 300.2 |
| 21 | APA Ilha do Combu | V | Brasil | 0.1 |
| 22 | APA Lago de Santa Isabel | V | Brasil | 69.5 |
| 23 | APA Lago de Tucurui | V | Brasil | 5682.1 |
| 24 | APA Lago do Amapá | V | Brasil | 51.8 |
| 25 | APA Margem Direita do Rio Negro - Paduari - Solimões | V | Brasil | 4611.5 |
| 26 | APA Margem Esquerda do Rio Negro - Tarumã Açu - Tarumã Mirima | V | Brasil | 559.3 |
| 27 | APA Margem Esquerda do Rio Negro - Tarumã Açu - Tarumã Mirima | V | Brasil | 5689.6 |
| 28 | APA Nhamundá | V | Brasil | 2015.9 |
| 29 | APA Parque Linear do Bindá | V | Brasil | 0.1 |
| 30 | APA Paytuna | V | Brasil | 673.6 |
| 31 | APA Presidente Figueiredo - Caverna do Moroaga | V | Brasil | 4085.5 |
| 32 | APA Região Metropolitana de Belém | V | Brasil | 81.1 |
| 33 | APA Rio Curiaú | V | Brasil | 218.7 |
| 34 | APA Rio Madeira | V | Brasil | 67.6 |
| 35 | APA São Geraldo do Araguaia | V | Brasil | 258.5 |
| 36 | APA Tapajós | V | Brasil | 20403.8 |

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|---|---|---|---|---|
| 37 | APA Taruma/Ponta Negra | V | Brasil | 181.6 |
| 38 | APA Tres Arroyos | V | Bolívia | 8.3 |
| 39 | APA Triunfo do Xingu | V | Brasil | 16797.1 |
| 40 | APA Xeriuini | V | Brasil | 16064.6 |
| 41 | APM Area de Influencia Laguna Yaguarú | V | Bolívia | 2.8 |
| 42 | APM Curichi El Cuajo | V | Bolívia | 3.8 |
| 43 | APM Lago San José | V | Bolívia | 164.4 |
| 44 | APM Lago Tumichucua | V | Bolívia | 4.0 |
| 45 | APM Laguna Yaguarú | V | Bolívia | 1.8 |
| 46 | APM Pampas del Río Yacuma | V | Bolívia | 5962.0 |
| 47 | APM Río Maniqui y TCO Tsimane | V | Bolívia | 1158.0 |
| 48 | APM Serranía Ibadebe (Tigre negro) | V | Bolívia | 288.3 |
| 49 | AR Cuatro Microcuencas del Municipio de Inirida | V | Colombia | 0.8 |
| 50 | Area Natural de Manejo Integado Nacional Apolobamba | IV | Bolívia | 2198.4 |
| 51 | Area Natural de Manejo Integrado Amboró | IV | Bolívia | 1187.3 |
| 52 | Area Natural de Manejo Integrado Humedales del Norte | IV | Bolívia | 4763.5 |
| 53 | Area Natural de Manejo Integrado Madidi | IV | Bolívia | 6012.7 |
| 54 | ARIE Japiim Pentecoste | IV | Brasil | 256.5 |
| 55 | ARIE Javari Buriti | IV | Brasil | 130.1 |
| 56 | ARIE Museu Parque Seringal | IV | Brasil | 0.0 |
| 57 | ARIE Parque Ambiental Antonio Danubio Lourenço da Silva | IV | Brasil | 0.0 |
| 58 | ARIE Projeto Dinâmica Biológica de Fragmentos Florestais | IV | Brasil | 31.8 |
| 59 | ARIE Seringal Nova Esperança | IV | Brasil | 25.7 |
| 60 | AURG Kanuku Mountains Protected Area | VI | Guiana | 6099.5 |
| 61 | AURG Shell Beach Protected Area | VI | Guiana | 785.5 |
| 62 | AURG Shell Beach Protected Area | VI | Guiana | 4.0 |
| 63 | AURG Shell Beach Protected Area | VI | Guyana | 4.0 |
| 64 | Biosphere Reserve Alto Orinoco-Casiquiare | VI | Venezuela | 28007.6 |
| 65 | Biotope Protection Order Grand Matoury | IV | Guiana Francesa | 11.5 |
| 66 | Biotope Protection Order Sables blancs de Mana | IV | Guiana Francesa | 30.5 |
| 67 | Bosque de Protección Alto Mayo | VI | Perú | 1775.3 |
| 68 | Bosque de Protección Pui Pui | VI | Perú | 158.9 |
| 69 | Bosque de Protección San Matias San Carlos | VI | Perú | 1494.4 |
| 70 | Cascada Tapir | IV | Bolívia | 15.8 |
| 71 | Community Owned Conservation Area Kanashen | VI | Guiana | 6525.2 |
| 72 | El Tuparro PARNA Natural | II | Colombia | 65.7 |

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|---|---|---|---|---|
| 73 | El Tuparro RNN | IV | Colombia | 54.8 |
| 74 | ESEC Alto Maués | Ia | Brasil | 36.7 |
| 75 | ESEC Caracaraí | Ia | Brasil | 790.8 |
| 76 | ESEC Cuniã | Ia | Brasil | 8315.2 |
| 77 | ESEC Grão Pará | Ia | Brasil | 2711.8 |
| 78 | ESEC Iquê | Ia | Brasil | 85.4 |
| 79 | ESEC Jari | Ia | Brasil | 3421.9 |
| 80 | ESEC Juami-Japurá | Ia | Brasil | 78.9 |
| 81 | ESEC Jutaí-Solimões | Ia | Brasil | 90.2 |
| 82 | ESEC Maracá | Ia | Brasil | 6159.7 |
| 83 | ESEC Niquiá | Ia | Brasil | 11754.2 |
| 84 | ESEC Rio Acre | Ia | Brasil | 382.9 |
| 85 | ESEC Rio Flor do Prado | Ia | Brasil | 1026.7 |
| 86 | ESEC Rio Ronuro | Ia | Brasil | 868.1 |
| 87 | ESEC Rio Roosevelt | Ia | Brasil | 42040.2 |
| 88 | ESEC Samuel | Ia | Brasil | 699.3 |
| 89 | ESEC Serra dos Três Irmãos | Ia | Brasil | 4079.2 |
| 90 | ESEC Terra do Meio | Ia | Brasil | 8875.9 |
| 91 | FLONA Altamira | VI | Brasil | 6709.9 |
| 92 | FLONA Amaná | VI | Brasil | 5426.3 |
| 93 | FLONA Amapá | VI | Brasil | 4612.6 |
| 94 | FLONA Amazonas | VI | Brasil | 8695.7 |
| 95 | FLONA Anauá | VI | Brasil | 2594.0 |
| 96 | FLONA Balata-Tufari | VI | Brasil | 10773.4 |
| 97 | FLONA Bom Futuro | VI | Brasil | 972.4 |
| 98 | FLONA Carajás | VI | Brasil | 3921.2 |
| 99 | FLONA Caxiuanã | VI | Brasil | 3179.2 |
| 100 | FLONA Crepori | VI | Brasil | 7399.4 |
| 101 | FLONA de Itaituba II | VI | Brasil | 3839.4 |
| 102 | FLONA do Trairão | VI | Brasil | 2575.3 |
| 103 | FLONA Humaitá | VI | Brasil | 4749.3 |
| 104 | FLONA Iquiri | VI | Brasil | 14726.6 |
| 105 | FLONA Itacaiunas | VI | Brasil | 1367.8 |
| 106 | FLONA Itaituba I | VI | Brasil | 2128.9 |
| 107 | FLONA Jacundá | VI | Brasil | 2212.2 |
| 108 | FLONA Jamanxim | VI | Brasil | 13014.8 |
| 109 | FLONA Jamari | VI | Brasil | 2194.0 |

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|---|---|---|---|---|
| 110 | FLONA Jatuarana | VI | Brasil | 5761.0 |
| 111 | FLONA Macauã | VI | Brasil | 1764.3 |
| 112 | FLONA Mapiá-Inauiní | VI | Brasil | 3688.5 |
| 113 | FLONA Mulata | VI | Brasil | 2164.9 |
| 114 | FLONA Pau-Rosa | VI | Brasil | 9713.8 |
| 115 | FLONA Purus | VI | Brasil | 2561.2 |
| 116 | FLONA Roraima | VI | Brasil | 1672.4 |
| 117 | FLONA Santa Rosa do Purus | VI | Brasil | 2315.5 |
| 118 | FLONA São Francisco | VI | Brasil | 211.5 |
| 119 | FLONA Saracá - Taquera | VI | Brasil | 4411.1 |
| 120 | FLONA Tapajós | VI | Brasil | 5306.1 |
| 121 | FLONA Tapirapé-Aquiri | VI | Brasil | 1140.9 |
| 122 | FLONA Tefé | VI | Brasil | 8652.4 |
| 123 | FLOTA Apuí | VI | Brasil | 1808.5 |
| 124 | FLOTA Canutaba | VI | Brasil | 1505.9 |
| 125 | FLOTA de Aripuanã | VI | Brasil | 3287.4 |
| 126 | FLOTA de Faro | VI | Brasil | 6284.3 |
| 127 | FLOTA de Rendimento Sustentado Araras | VI | Brasil | 10.1 |
| 128 | FLOTA de Rendimento Sustentado Cedro | VI | Brasil | 25.6 |
| 129 | FLOTA de Rendimento Sustentado do Rio Machado | VI | Brasil | 951.2 |
| 130 | FLOTA de Rendimento Sustentado do Rio Madeira B | VI | Brasil | 520.8 |
| 131 | FLOTA de Rendimento Sustentado Gavião | VI | Brasil | 4.3 |
| 132 | FLOTA de Rendimento Sustentado Mutum | VI | Brasil | 108.5 |
| 133 | FLOTA de Rendimento Sustentado Periquito | VI | Brasil | 11.4 |
| 134 | FLOTA de Rendimento Sustentado Rio Vermelho C | VI | Brasil | 40.9 |
| 135 | FLOTA de Rendimento Sustentado Tucano | VI | Brasil | 5.1 |
| 136 | FLOTA do Amapá | VI | Brasil | 23004.1 |
| 137 | FLOTA do Iriri | VI | Brasil | 4366.7 |
| 138 | FLOTA Manicoré | VI | Brasil | 837.3 |
| 139 | FLOTA Maúes | VI | Brasil | 4142.5 |
| 140 | FLOTA Paru | VI | Brasil | 36155.1 |
| 141 | FLOTA Rio Urubu | VI | Brasil | 270.5 |
| 142 | FLOTA Sucunduri | VI | Brasil | 4810.3 |
| 143 | FLOTA Tapauá | VI | Brasil | 8814.4 |
| 144 | FLOTA Trombetas | VI | Brasil | 31433.2 |
| 145 | Forest Biological Reserve Lucifer Dekou Dekou | Ib | Guiana Francesa | 1105.5 |
| 146 | Forest Plot El Dorado - Tumeremo | IV | Venezuela | 647.9 |

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|---|---|---|---|---|
| 147 | Forest Plot El Frío (C.V.G.) | IV | Venezuela | 230.0 |
| 148 | Forest Plot Fundo Flamerich | IV | Venezuela | 123.4 |
| 149 | Forest Plot Río Parguaza | IV | Venezuela | 285.2 |
| 150 | Forest Plot San Pedro | IV | Venezuela | 30745.5 |
| 151 | Forest Plot Sector Caño Blanco (Bombonera) | IV | Venezuela | 185.2 |
| 152 | Forest Reserve El Caura | VI | Venezuela | 50854.7 |
| 153 | Forest Reserve Imataca | VI | Venezuela | 33066.2 |
| 154 | Forest Reserve La Paragua | VI | Venezuela | 3567.1 |
| 155 | Forest Reserve Sipapo | VI | Venezuela | 15769.8 |
| 156 | Land acquired by Conservatoire du Littoral Petit Cayenne | IV | Guiana Francesa | 24.1 |
| 157 | MN Cerro Autana | III | Venezuela | 45.0 |
| 158 | MN Espejillos | III | Bolívia | 12.6 |
| 159 | MN Formaciones de Tepuyes | III | Venezuela | 19360.8 |
| 160 | Multiple Use Management Area Bigi Pan | VI | Suriname | 72.3 |
| 161 | Multiple Use Management Area Noord Saramacca | VI | Suriname | 60.5 |
| 162 | Multiple Use Management Area North Commewijne | VI | Suriname | 138.4 |
| 163 | Nature Park Brownsberg | II | Suriname | 144.1 |
| 164 | PARNA Alto Purús | II | Perú | 25032.1 |
| 165 | PARNA Amazônia | II | Brasil | 10665.4 |
| 166 | PARNA Amboró | II | Bolívia | 4005.0 |
| 167 | PARNA Anavilhanas | II | Brasil | 3444.5 |
| 168 | PARNA Bahuaja Sonene | II | Perú | 10866.0 |
| 169 | PARNA Buffer zone/Area of adhesion Guyane | V | Guiana Francesa | 13545.8 |
| 170 | PARNA Campos Amazônicos | II | Brasil | 9613.1 |
| 171 | PARNA Canaima | II | Venezuela | 30323.8 |
| 172 | PARNA Carrasco | II | Bolívia | 6885.3 |
| 173 | PARNA Cayambe Coca | II | Equador | 3060.2 |
| 174 | PARNA Cordillera Azul | II | Perú | 13538.9 |
| 175 | PARNA Core Area Guyane (Parc Amazonien) | II | Guiana Francesa | 19924.5 |
| 176 | PARNA do Cabo Orange | II | Brasil | 3422.5 |
| 177 | PARNA do Jamanxim | II | Brasil | 8740.1 |
| 178 | PARNA Gáeppí-Sekime | II | Perú | 2035.7 |
| 179 | PARNA Ichigkat Muja - Cordillera del Cóndor | II | Perú | 883.3 |
| 180 | PARNA Jaú | II | Brasil | 23698.1 |
| 181 | PARNA Juruena | II | Brasil | 19572.4 |

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|---|---|---|---|---|
| 182 | PARNA Kaieteur | II | Guiana | 610.3 |
| 183 | PARNA Llanganates | II | Equador | 1433.1 |
| 184 | PARNA Madidi | II | Bolívia | 12645.9 |
| 185 | PARNA Manu | II | Perú | 16921.4 |
| 186 | PARNA Mapinguari | II | Brasil | 18307.5 |
| 187 | PARNA Montanhas do Tumucumaque | II | Brasil | 38509.4 |
| 188 | PARNA Monte Roraima | II | Brasil | 1167.5 |
| 189 | PARNA Nascentes do Lago Jari | II | Brasil | 8130.6 |
| 190 | PARNA Natural Alto Fragua - Indiwasi | II | Colombia | 759.5 |
| 191 | PARNA Natural Amacayacu | II | Colombia | 2624.1 |
| 192 | PARNA Natural Cahuinarí | II | Colombia | 5586.5 |
| 193 | PARNA Natural Complejo Volcánico Doña Juana Cascabel | II | Colombia | 198.7 |
| 194 | PARNA Natural Cordillera de los Picachos | II | Colombia | 2882.4 |
| 195 | PARNA Natural Cueva De Los Guacharos | II | Colombia | 22.4 |
| 196 | PARNA Natural La Paya | II | Colombia | 4422.5 |
| 197 | PARNA Natural Río Puré | II | Colombia | 9873.6 |
| 198 | PARNA Natural Serranía de los Churumbelos | II | Colombia | 919.8 |
| 199 | PARNA Natural Serranís de Chiribiquete | II | Colombia | 27797.5 |
| 200 | PARNA Natural Sierra de la Macarena | II | Colombia | 6057.3 |
| 201 | PARNA Natural Sumapaz | II | Colombia | 1684.5 |
| 202 | PARNA Natural Tinigua | II | Colombia | 2151.8 |
| 203 | PARNA Natural Yaigojé Apaporis | II | Colombia | 10557.3 |
| 204 | PARNA Noel Kempff Mercado | II | Bolívia | 2689.0 |
| 205 | PARNA Otishi | II | Perú | 3060.4 |
| 206 | PARNA Pacaás Novos | II | Brasil | 7086.7 |
| 207 | PARNA Parima-Tapirapecó | II | Venezuela | 38204.2 |
| 208 | PARNA Pico da Neblina | II | Brasil | 22915.5 |
| 209 | PARNA Podocarpus | II | Equador | 1335.3 |
| 210 | PARNA Río Abiseo | II | Perú | 1933.2 |
| 211 | PARNA Rio Novo | II | Brasil | 5397.5 |
| 212 | PARNA Sangay | II | Equador | 3866.9 |
| 213 | PARNA Serra da Cutia | II | Brasil | 2840.2 |
| 214 | PARNA Serra da Mocidade | II | Brasil | 3592.2 |
| 215 | PARNA Serra do Divisor | II | Brasil | 8384.6 |
| 216 | PARNA Serra do Pardo | II | Brasil | 4453.9 |
| 217 | PARNA Serranía de la Neblina | II | Venezuela | 10506.6 |
| 218 | PARNA Sumaco Napo-Galeras | II | Equador | 2055.7 |

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| 219 | PARNA Tingo María | II | Perú | 47.8 |
| 220 | PARNA Tunari | II | Bolívia | 179.5 |
| 221 | PARNA Viruá | II | Brasil | 2149.6 |
| 222 | PARNA y Area Natural de Manejo Integrado Cotapata | II | Bolívia | 379.3 |
| 223 | PARNA y Territorio Indigena Isiboro Securé | II | Bolívia | 12345.8 |
| 224 | PARNA Yacuri | II | Equador | 173.2 |
| 225 | PARNA Yanachaga-Chemillén | II | Perú | 1133.5 |
| 226 | PARNA Yapacana | II | Venezuela | 2798.8 |
| 227 | PARNA Yasuní | II | Equador | 10231.6 |
| 228 | Parque Estadual Chandless | II | Brasil | 6934.6 |
| 229 | Parque Estadual Corumbiara | II | Brasil | 3837.1 |
| 230 | Parque Estadual Cristalino | II | Brasil | 591.9 |
| 231 | Parque Estadual Guajará-Mirim | II | Brasil | 2001.9 |
| 232 | Parque Estadual Guariba | II | Brasil | 715.5 |
| 233 | Parque Estadual Igarapés do Juruena | II | Brasil | 1066.2 |
| 234 | Parque Estadual Matupiri | II | Brasil | 5093.9 |
| 235 | Parque Estadual Monte Alegre | II | Brasil | 56.4 |
| 236 | Parque Estadual Rio Negro Setor Norte | II | Brasil | 1484.3 |
| 237 | Parque Estadual Rio Negro Setor Sul | II | Brasil | 1554.8 |
| 238 | Parque Estadual Serra do Aracá | II | Brasil | 18709.1 |
| 239 | Parque Estadual Serra dos Martírios/Andorinhas | II | Brasil | 247.4 |
| 240 | Parque Estadual Serra dos Reis | II | Brasil | 363.1 |
| 241 | Parque Estadual Sucunduri | II | Brasil | 7881.8 |
| 242 | Parque Estadual Sumaúma | II | Brasil | 0.5 |
| 243 | Parque Estadual Tucumã | II | Brasil | 802.6 |
| 244 | Parque Estadual Utinga | II | Brasil | 11.9 |
| 245 | Parque Estadual Xingu | II | Brasil | 953.3 |
| 246 | Parque Regional Pedro Ignacio Muiba | II | Bolívia | 620.7 |
| 247 | Parque Regional Yacuma | II | Bolívia | 2348.1 |
| 248 | PMU Cancão | II | Brasil | 3.7 |
| 249 | PMU Iténez | IV | Bolívia | 14280.7 |
| 250 | PMU Parque Florestal de Sinop | II | Brasil | 1.1 |
| 251 | PMU Tequeje | II | Bolívia | 54.0 |
| 252 | PMU Veredas dos Carajás | II | Brasil | 8.3 |
| 253 | PMU y de Protección de Cuencas Cascasa Boqueron - Quijarro | II | Bolívia | 246.6 |
| 254 | PNR Guyane | V | Guiana Francesa | 5540.4 |
| 255 | PNR La Siberia Y Parte De La Cuenca Alta Del Rio Las Ceibas | II | Colombia | 63.9 |

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| 256 | PNR Laguna de Lomalinda | II | Colombia | 8.1 |
| 257 | PNR Laguna San Vicente | II | Colombia | 4.9 |
| 258 | PNRCerro Paramo de Miraflores | II | Colombia | 104.6 |
| 259 | PNRCorredor Biologico Guacharos Purace | II | Colombia | 14.0 |
| 260 | Protective Zone Sur del Estado Bolívar | V | Venezuela | 50892.8 |
| 261 | Ramsar Site Basse-Mana | VI | Guiana Francesa | 80.0 |
| 262 | Ramsar Site Mamirauá | VI | Brasil | 11474.3 |
| 263 | Ramsar Site Marais De Kaw | VI | Guiana Francesa | 138.0 |
| 264 | Ramsar Site Reentrancias Maranhenses | VI | Brasil | 3257.5 |
| 265 | RDS Amanã | VI | Brasil | 22993.6 |
| 266 | RDS Aripuanã | VI | Brasil | 2181.0 |
| 267 | RDS Bararati | VI | Brasil | 1073.4 |
| 268 | RDS Canumã | VI | Brasil | 227.6 |
| 269 | RDS Cujubim | VI | Brasil | 24219.0 |
| 270 | RDS do Juma | VI | Brasil | 5807.8 |
| 271 | RDS do Matupiri | VI | Brasil | 1770.6 |
| 272 | RDS do Rio Iratapuru | VI | Brasil | 8617.4 |
| 273 | RDS do Rio Negro | VI | Brasil | 1026.2 |
| 274 | RDS do Tupé | VI | Brasil | 103.8 |
| 275 | RDS do Uatumã | VI | Brasil | 4234.5 |
| 276 | RDS Igapó-Açu | VI | Brasil | 3891.1 |
| 277 | RDS Itatupã-Baquiá | VI | Brasil | 644.4 |
| 278 | RDS Mamirauá | VI | Brasil | 13235.5 |
| 279 | RDS Piagaçu Purus | VI | Brasil | 12013.4 |
| 280 | RDS Rio Amapá | VI | Brasil | 2169.9 |
| 281 | RDS Rio Madeira | VI | Brasil | 2795.8 |
| 282 | RDS Uacarí | VI | Brasil | 6197.0 |
| 283 | REBIO Abufari | Ia | Brasil | 266.5 |
| 284 | REBIO Bosque Experimental Elías Meneses | Ia | Bolívia | 2853.2 |
| 285 | REBIO Cerro Plateado | Ia | Equador | 2895.1 |
| 286 | REBIO Colonso Chalupas | Ia | Equador | 2.4 |
| 287 | REBIO El Cóndor | Ia | Equador | 9385.9 |
| 288 | REBIO El Quimi | Ia | Equador | 111.1 |
| 289 | REBIO Guaporé | Ia | Brasil | 2239.3 |
| 290 | REBIO Gurupi | Ia | Brasil | 979.6 |
| 291 | REBIO Jaru | Ia | Brasil | 2378.1 |

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| 292 | REBIO Lago Piratuba | Ia | Brasil | 995.3 |
| 293 | REBIO Limoncocha | Ia | Equador | 3309.0 |
| 294 | REBIO Maicuru | Ia | Brasil | 6660.9 |
| 295 | REBIO Morro dos Seis Lagos | Ia | Brasil | 33741.0 |
| 296 | REBIO Nascentes Serra do Cachimbo | Ia | Brasil | 1035.5 |
| 297 | REBIO Rio Ouro Preto | Ia | Brasil | 252.1 |
| 298 | REBIO Rio Trombetas | Ia | Brasil | 885.0 |
| 299 | REBIO Tapirapé | Ia | Brasil | 845.2 |
| 300 | REBIO Traçadal | Ia | Brasil | 548.6 |
| 301 | REBIO Uatumã | Ia | Brasil | 10952.2 |
| 302 | Regional RNN Trésor | IV | Guiana Francesa | 24.6 |
| 303 | Reserva Científica, Ecológica y Arqueológica Kenneth Lee | VI | Bolívia | 4472.2 |
| 304 | Reserva Comunal Airo Pai | VI | Perú | 2480.4 |
| 305 | Reserva Comunal Amarakaeri | VI | Perú | 4022.1 |
| 306 | Reserva Comunal Ashaninka | VI | Perú | 1845.3 |
| 307 | Reserva Comunal Chayu Naín | VI | Perú | 235.6 |
| 308 | Reserva Comunal El Sira | VI | Perú | 6168.5 |
| 309 | Reserva Comunal Huimeki | VI | Perú | 1413.4 |
| 310 | Reserva Comunal Machiguenga | VI | Perú | 2316.4 |
| 311 | Reserva Comunal Purus | VI | Perú | 2049.9 |
| 312 | Reserva Comunal Tuntanain | VI | Perú | 947.9 |
| 313 | Reserva Comunal Yanesha | VI | Perú | 334.2 |
| 314 | Reserva de la Biósfera Estación Biológica del Beni | VI | Bolívia | 1351.6 |
| 315 | Reserva de la Biósfera y Territorio Indígena Pilón Lajas | VI | Bolívia | 4008.1 |
| 316 | Reserva de Producción de Fauna Cuyabeno | VI | Equador | 5919.0 |
| 317 | Reserva Ecológica Antisana | VI | Equador | 688.5 |
| 318 | Reserva Ecológica Cofán Bermejo | VI | Equador | 548.4 |
| 319 | Reserva Forestal Protectora Regional Serrania La Vieja | VI | Colombia | 5.6 |
| 320 | Reserva Nacional Allpahuayo Mishana | VI | Perú | 580.8 |
| 321 | Reserva Nacional Amazónica Manuripi Heath | VI | Bolívia | 7738.8 |
| 322 | Reserva Nacional de Fauna Andina Incacasani Altamachi | IV | Bolívia | 137.1 |
| 323 | Reserva Nacional Matsés | VI | Perú | 4207.0 |
| 324 | Reserva Nacional Pacaya Samiria | VI | Perú | 21717.8 |
| 325 | Reserva Nacional Pucacuro | VI | Perú | 6384.3 |
| 326 | Reserva Nacional Tambopata | VI | Perú | 2778.3 |
| 327 | Reserva Natural de la Sociedad Civil El Arrullo | VI | Colombia | 0.2 |
| 328 | RESEX Alto Juruá | VI | Brasil | 5379.7 |

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| 329 | RESEX Alto Tarauacá | VI | Brasil | 1509.8 |
| 330 | RESEX Angelim | VI | Brasil | 83.8 |
| 331 | RESEX Aquariquara | VI | Brasil | 192.8 |
| 332 | RESEX Arapixi | VI | Brasil | 1340.3 |
| 333 | RESEX Arióca Pruanã | VI | Brasil | 838.2 |
| 334 | RESEX Auatí-Paraná | VI | Brasil | 1469.0 |
| 335 | RESEX Baixo Juruá | VI | Brasil | 1780.4 |
| 336 | RESEX Barreiro das Antas | VI | Brasil | 1044.3 |
| 337 | RESEX Canutama | VI | Brasil | 1979.4 |
| 338 | RESEX Castanheira | VI | Brasil | 96.6 |
| 339 | RESEX Catuá-Ipixuna | VI | Brasil | 2123.2 |
| 340 | RESEX Cazumbá-Iracema | VI | Brasil | 7467.0 |
| 341 | RESEX Chico Mendes | VI | Brasil | 9314.5 |
| 342 | RESEX Chocoaré-Mato Grosso | VI | Brasil | 10.1 |
| 343 | RESEX Ciriáco | VI | Brasil | 3.6 |
| 344 | RESEX Curralinho | VI | Brasil | 17.0 |
| 345 | RESEX de Cururupu | VI | Brasil | 14.5 |
| 346 | RESEX Extremo Norte do Tocantins | VI | Brasil | 90.7 |
| 347 | RESEX Freijó | VI | Brasil | 6.3 |
| 348 | RESEX Garrote | VI | Brasil | 8.7 |
| 349 | RESEX Guariba | VI | Brasil | 1481.4 |
| 350 | RESEX Guariba-Roosevelt | VI | Brasil | 1380.8 |
| 351 | RESEX Gurupá-Melgaço | VI | Brasil | 1454.1 |
| 352 | RESEX Ipaú-Anilzinho | VI | Brasil | 558.3 |
| 353 | RESEX Ipê | VI | Brasil | 8.2 |
| 354 | RESEX Itaúba | VI | Brasil | 16.0 |
| 355 | RESEX Ituxí | VI | Brasil | 7762.5 |
| 356 | RESEX Jaci-Paraná | VI | Brasil | 2004.2 |
| 357 | RESEX Jatobá | VI | Brasil | 13.4 |
| 358 | RESEX Lago do Capanã Grande | VI | Brasil | 3035.7 |
| 359 | RESEX Lago do Cuniã | VI | Brasil | 501.6 |
| 360 | RESEX Mãe Grande de Curuça | VI | Brasil | 9.2 |
| 361 | RESEX Mapuá | VI | Brasil | 926.4 |
| 362 | RESEX Maracanã | VI | Brasil | 23.0 |
| 363 | RESEX Maracatiara | VI | Brasil | 86.6 |
| 364 | RESEX Marinha Caeté-Taperaçu | VI | Brasil | 16.6 |
| 365 | RESEX Marinha de Araí-Peroba | VI | Brasil | 11.8 |

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| 366 | RESEX Marinha de Gurupi-Piriá | VI | Brasil | 35.5 |
| 367 | RESEX Marinha de Soure | VI | Brasil | 190.1 |
| 368 | RESEX Marinha de Tracuateua | VI | Brasil | 39.6 |
| 369 | RESEX Marinha Mestre Lucindo | VI | Brasil | 4.0 |
| 370 | RESEX Marinha Mocapajuba | VI | Brasil | 34.2 |
| 371 | RESEX Massaranduba | VI | Brasil | 61.7 |
| 372 | RESEX Médio Juruá | VI | Brasil | 2521.0 |
| 373 | RESEX Médio Purús | VI | Brasil | 6042.2 |
| 374 | RESEX Mogno | VI | Brasil | 24.1 |
| 375 | RESEX Pedras Negras | VI | Brasil | 1262.6 |
| 376 | RESEX Piquiá | VI | Brasil | 12.8 |
| 377 | RESEX Renascer | VI | Brasil | 2131.5 |
| 378 | RESEX Rio Cajari | VI | Brasil | 5323.9 |
| 379 | RESEX Rio Cautário | VI | Brasil | 765.7 |
| 380 | RESEX Rio Cautário | VI | Brasil | 1510.6 |
| 381 | RESEX Rio Gregório | VI | Brasil | 3070.3 |
| 382 | RESEX Rio Iriri | VI | Brasil | 3989.9 |
| 383 | RESEX Rio Jutaí | VI | Brasil | 2755.1 |
| 384 | RESEX Rio Ouro Preto | VI | Brasil | 2066.3 |
| 385 | RESEX Rio Pacaás Novos | VI | Brasil | 3497.8 |
| 386 | RESEX Rio Preto-Jacundá | VI | Brasil | 1197.7 |
| 387 | RESEX Rio Unini | VI | Brasil | 8478.8 |
| 388 | RESEX Rio Xingu | VI | Brasil | 3029.4 |
| 389 | RESEX Riozinho da Liberdade | VI | Brasil | 3249.2 |
| 390 | RESEX Riozinho do Anfrísio | VI | Brasil | 7360.8 |
| 391 | RESEX Roxinho | VI | Brasil | 10.4 |
| 392 | RESEX São João da Ponta | VI | Brasil | 11.0 |
| 393 | RESEX Seringueira | VI | Brasil | 4.8 |
| 394 | RESEX Sucupira | VI | Brasil | 28.2 |
| 395 | RESEX Tapajós Arapiuns | VI | Brasil | 6742.3 |
| 396 | RESEX Terra Grande Pracuuba | VI | Brasil | 1945.8 |
| 397 | RESEX Verde para Sempre | VI | Brasil | 12893.1 |
| 398 | RFPN Laguna La Cocha Cerro Patascoy | VI | Colombia | 261.2 |
| 399 | RFPN Rio Las Ceibas | VI | Colombia | 17.0 |
| 400 | RFPN Rio Mocoa | VI | Colombia | 299.7 |
| 401 | RNN Amana | IV | Guiana Francesa | 4.2 |
| 402 | RNN Boven-Coesewijne | IV | Suriname | 274.0 |

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| 403 | RNN Brinck-heuvel | IV | Suriname | 60.9 |
| 404 | RNN Central Suriname | IV | Suriname | 15906.7 |
| 405 | RNN Copi | IV | Suriname | 282.3 |
| 406 | RNN Kaboeri Kreek | IV | Suriname | 745.5 |
| 407 | RNN La Trinité | IV | Guiana Francesa | 767.7 |
| 408 | RNN Marais de Kaw-Roura | IV | Guiana Francesa | 376.8 |
| 409 | RNN Nouragues | IV | Guiana Francesa | 1062.6 |
| 410 | RNN Nukak | Ia | Colombia | 1858.4 |
| 411 | RNN Peruvia | IV | Suriname | 139.8 |
| 412 | RNN Puinawai | Ia | Colombia | 3468.6 |
| 413 | RNN Sipaliwini | IV | Suriname | 1007.9 |
| 414 | RNN Wane Kreek | IV | Suriname | 359.5 |
| 415 | RPN del Copaibo de Concepción | V | Bolívia | 458.1 |
| 416 | RVS Bruno Racua | Ib | Bolívia | 737.3 |
| 417 | RVS Cicatrices de Meandros Antiguos del Río Ichilo | Ib | Bolívia | 240.2 |
| 418 | RVS Metrópole da Amazônia | IV | Brasil | 62.7 |
| 419 | RVS Ríos Blanco y Negro | Ib | Bolívia | 11332.6 |
| 420 | RVSCavernas del Repechón | IV | Bolívia | 2.1 |
| 421 | RVSEl Dorado | IV | Bolívia | 1717.1 |
| 422 | RVSEl Zarza | IV | Equador | 36.9 |
| 423 | RVSIng. Federico Bascopé Vargas | IV | Bolívia | 56.0 |
| 424 | Santuario de Flora Plantas Medicinales Orito Ingi Ande | IV | Colombia | 102.0 |
| 425 | Santuario de Vida Silvestre Chuchini | IV | Bolívia | 51.9 |
| 426 | Santuario Histórico Machupicchu | III | Perú | 224.0 |
| 427 | Santuario Nacional Ampay | III | Perú | 35.0 |
| 428 | Santuario Nacional Cordillera de Colán | IV | Perú | 391.5 |
| 429 | Santuario Nacional Megantoni | III | Perú | 2155.9 |
| 430 | Santuario Nacional Pampa Hermosa | III | Perú | 111.6 |
| 431 | Santuario Nacional Tabaconas Namballe | III | Perú | 321.2 |
| 432 | Wilderness Reserve/AURG | VI | Guiana | 3714.0 |
| 433 | Wildlife Refuge Estancias San Rafael | IV | Bolívia | 448.7 |
| 434 | World Heritage Site Canaima National Park | II | Venezuela | 30886.8 |
| 435 | World Heritage Site Central Suriname RNN | IV | Suriname | 4567.6 |
| 436 | Zona Reservada Río Nieva | III | Perú | 362.9 |
| 437 | Zona Reservada Santiago Comaina | III | Perú | 3979.7 |

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| 438 | Zona Reservada Sierra del Divisor | III | Perú | 14693.3 |
| 439 | Zona Reservada Yaguas | III | Perú | 8682.6 |

Legenda: Variáveis de temperatura estão multiplicadas por 10. Tmax = Temperatura máxima; Tmin = Temperatura mínima; Prec = Precipitação. Variáveis bioclimáticas: Bio1 = Temperatura média anual; Bio2 = Variação média diurna; Bio3 = Isotermalidade; Bio4 = Sazonalidade da Temperatura; Bio5 = Máxima temperatura do mês mais quente; Bio6 = Mínima temperatura do mês mais frio; Bio7 = Variação média anual; Bio8 = Média da temperatura do período mais úmido; Bio9 = Média da temperatura do período mais seco; Bio10 = Média da temperatura do período mais quente; Bio11 = Média da temperatura do período mais frio; Bio12 = Precipitação anual; Bio13 = Precipitação do mês mais úmido; Bio14 = Precipitação do mês mais seco; Bio15 = Sazonalidade da precipitação; Bio16 = Precipitação do período mais úmido; Bio17 = Precipitação do período mais seco; Bio18 = Precipitação do período mais quente; Bio19 = Precipitação do período mais frio. Ia = Reservas Naturais Estritas, Ib = Regiões Selvagens, II = Proteção e Conservação de Ecossistemas, III = Conservação de Características Naturais, IV = Conservação por Gestão Ativa, V = Conservação de Paisagens e Recreação, VI = Uso Sustentável de Recursos Naturais. ACR = Área de Conservação Regional; AECM = Área Ecológica de Consrvação Municipal; AMIMZE = Área de Manejo Integrado Municipal e Zona Externa; ANCM = Área Natural de Conservação e Manejo; APA = Área de Proteção Ambiental; APM = Área Protegida Municipal; AR = Área de Recreação; ARIE = Área de Relevante Interesse Ecológico; ARN = Area de Reserva Natural; AURG = Área de uso de recursos gerenciados; ESEC = Estação Ecológica; FLONA = Floresta Nacional; FLOTA = Floresta Estadual; MN = Monumento Natural; PARNA = Parque Nacional; PNR = Parque Natural Regional; PMU = Parque Municipal; REBIO = Reserva Biológica; RDS = Reserva de Desenvolvimento Sustentável; RESEX = Reserva Extrativista; RFPN = Reserva Florestal Protetora Nacional; RNN = Reserva Nacional Natural; RPN = Reserva do Patrimônio Natural e Cultural; RVS = Reserva de Vida Silvestre.

Tabela S6 - Espécies potencialmente encontradas em Unidades de Conservação da Amazônia.

| Espécie | Unidade de Conservação | País | Categoria IUCN |
|---|---|---|---|
| *Alopoglossus angulatus* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Alopoglossus angulatus* | Nature Park Brownsberg | Suriname | II |
| *Alopoglossus angulatus* | Parque Estadual Sumaúma | Brasil | II |
| *Alopoglossus angulatus* | Parque Estadual Utinga | Brasil | II |
| *Alopoglossus angulatus* | Parque Nacional Amazônia | Brasil | II |
| *Alopoglossus angulatus* | Parque Nacional Bahuaja Sonene | Peru | II |
| *Alopoglossus angulatus* | Parque Nacional Manu | Peru | II |
| *Alopoglossus angulatus* | Parque Nacional Serra da Cutia | Brasil | II |
| *Alopoglossus angulatus* | Parque Nacional Serra do Divisor | Brasil | II |
| *Alopoglossus angulatus* | Parque Nacional Yasuní | Ecuador | II |
| *Alopoglossus angulatus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Alopoglossus angulatus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Alopoglossus angulatus* | Área de Conservación Regional Ampiyacu Apayacu | Peru | NA |
| *Alopoglossus angulatus* | National Park - Core Area Guyane (Parc Amazonien) | French Guiana | NA |
| *Alopoglossus angulatus* | Parque Natural Municipal Cancão | Brasil | NA |
| *Alopoglossus angulatus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Alopoglossus angulatus* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Alopoglossus angulatus* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Alopoglossus angulatus* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Alopoglossus angulatus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Alopoglossus angulatus* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Alopoglossus angulatus* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Alopoglossus angulatus* | Floresta Estadual do Amapá | Brasil | VI |
| *Alopoglossus angulatus* | Floresta Estadual Rio Urubu | Brasil | VI |
| *Alopoglossus angulatus* | Floresta Nacional de Itaituba II | Brasil | VI |

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| *Alopoglossus angulatus* | Floresta Nacional do Trairão | Brasil | VI |
| *Alopoglossus angulatus* | Floresta Nacional Iquiri | Brasil | VI |
| *Alopoglossus angulatus* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Alopoglossus angulatus* | Reserva Comunal El Sira | Peru | VI |
| *Alopoglossus angulatus* | Reserva Comunal Purus | Peru | VI |
| *Alopoglossus angulatus* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |
| *Alopoglossus angulatus* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Alopoglossus angulatus* | Reserva de Producción de Fauna Cuyabeno | Ecuador | VI |
| *Alopoglossus angulatus* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Alopoglossus angulatus* | Reserva Extrativista Ituxí | Brasil | VI |
| *Alopoglossus angulatus* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Alopoglossus angulatus* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Alopoglossus angulatus* | Reserva Nacional Pacaya Samiria | Peru | VI |
| *Alopoglossus angulatus* | Reserva Nacional Tambopata | Peru | VI |
| *Alopoglossus atriventris* | Reserva Biológica Colonso Chalupas | Ecuador | Ia |
| *Alopoglossus atriventris* | Parque Nacional Amazônia | Brasil | II |
| *Alopoglossus atriventris* | Parque Nacional Llanganates | Ecuador | II |
| *Alopoglossus atriventris* | Parque Nacional Manu | Peru | II |
| *Alopoglossus atriventris* | Parque Nacional Natural Amacayacu | Colombia | II |
| *Alopoglossus atriventris* | Parque Nacional Natural Serranía de los Churumbelos | Colombia | II |
| *Alopoglossus atriventris* | Parque Nacional Sangay | Ecuador | II |
| *Alopoglossus atriventris* | Parque Nacional Serra da Cutia | Brasil | II |
| *Alopoglossus atriventris* | Parque Nacional Serra do Divisor | Brasil | II |
| *Alopoglossus atriventris* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Alopoglossus atriventris* | Parque Nacional Yasuní | Ecuador | II |
| *Alopoglossus atriventris* | Área de Conservación Regional Ampiyacu Apayacu | Peru | NA |
| *Alopoglossus atriventris* | Área de Conservación Regional Cordillera Escalera | Peru | NA |
| *Alopoglossus atriventris* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |

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| *Alopoglossus atriventris* | Floresta Nacional Iquiri | Brasil | VI |
| *Alopoglossus atriventris* | Floresta Nacional Pau-Rosa | Brasil | VI |
| *Alopoglossus atriventris* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Alopoglossus atriventris* | Reserva de Producción de Fauna Cuyabeno | Ecuador | VI |
| *Alopoglossus atriventris* | Reserva Ecológica Antisana | Ecuador | VI |
| *Alopoglossus atriventris* | Reserva Extrativista Baixo Juruá | Brasil | VI |
| *Alopoglossus atriventris* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Alopoglossus atriventris* | Reserva Extrativista Ituxí | Brasil | VI |
| *Alopoglossus atriventris* | Reserva Extrativista Médio Purús | Brasil | VI |
| *Alopoglossus atriventris* | Reserva Forestal Protectora Nacional Rio Mocoa | Colombia | VI |
| *Alopoglossus atriventris* | Reserva Nacional Pacaya Samiria | Peru | VI |
| *Ameiva ameiva* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Ameiva ameiva* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Ameiva ameiva* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Ameiva ameiva* | Reserva Biológica Nascentes Serra do Cachimbo | Brasil | Ia |
| *Ameiva ameiva* | National Park Kaieteur National Park | Guyana | II |
| *Ameiva ameiva* | National Park Yapacana | Venezuela | II |
| *Ameiva ameiva* | Nature Park Brownsberg | Suriname | II |
| *Ameiva ameiva* | Parque Estadual Corumbiara | Brasil | II |
| *Ameiva ameiva* | Parque Estadual Cristalino | Brasil | II |
| *Ameiva ameiva* | Parque Estadual Rio Negro Setor Sul | Brasil | II |
| *Ameiva ameiva* | Parque Estadual Serra dos Reis | Brasil | II |
| *Ameiva ameiva* | Parque Estadual Sumaúma | Brasil | II |
| *Ameiva ameiva* | Parque Estadual Utinga | Brasil | II |
| *Ameiva ameiva* | Parque Nacional Alto Purús | Peru | II |
| *Ameiva ameiva* | Parque Nacional Bahuaja Sonene | Peru | II |
| *Ameiva ameiva* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Ameiva ameiva* | Parque Nacional Manu | Peru | II |

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| *Ameiva ameiva* | Parque Nacional Mapinguari | Brasil | II |
| *Ameiva ameiva* | Parque Nacional Noel Kempff Mercado | Bolivia | II |
| *Ameiva ameiva* | Parque Nacional Serra da Cutia | Brasil | II |
| *Ameiva ameiva* | Parque Nacional Serra do Divisor | Brasil | II |
| *Ameiva ameiva* | Parque Nacional Serra do Pardo | Brasil | II |
| *Ameiva ameiva* | Natural Monument Formaciones de Tepuyes | Venezuela | III |
| *Ameiva ameiva* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Ameiva ameiva* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Ameiva ameiva* | Biotope Protection Order Grand Matoury | French Guiana | IV |
| *Ameiva ameiva* | Land acquired by Conservatoire du Littoral (national seaside and lakeside conservancy) Petit Cayenne | French Guiana | IV |
| *Ameiva ameiva* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Ameiva ameiva* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Ameiva ameiva* | Nature Reserve Central Suriname | Suriname | IV |
| *Ameiva ameiva* | Nature Reserve Copi | Suriname | IV |
| *Ameiva ameiva* | Nature Reserve Peruvia | Suriname | IV |
| *Ameiva ameiva* | Nature Reserve Sipaliwini | Suriname | IV |
| *Ameiva ameiva* | Nature Reserve Wane Kreek | Suriname | IV |
| *Ameiva ameiva* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Ameiva ameiva* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Ameiva ameiva* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Ameiva ameiva* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Ameiva ameiva* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Ameiva ameiva* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Ameiva ameiva* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Ameiva ameiva* | Área de Proteção Ambiental Rio Curiaú | Brasil | V |
| *Ameiva ameiva* | Área de Proteção Ambiental Tapajós | Brasil | V |

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| *Ameiva ameiva* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Ameiva ameiva* | Área de Proteção Ambiental Xeriuini | Brasil | V |
| *Ameiva ameiva* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Ameiva ameiva* | Regional Nature Park Guyane | French Guiana | V |
| *Ameiva ameiva* | Bosque de Protección San Matias San Carlos | Peru | VI |
| *Ameiva ameiva* | Floresta Estadual do Amapá | Brasil | VI |
| *Ameiva ameiva* | Floresta Estadual Paru | Brasil | VI |
| *Ameiva ameiva* | Floresta Nacional Bom Futuro | Brasil | VI |
| *Ameiva ameiva* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Ameiva ameiva* | Floresta Nacional do Trairão | Brasil | VI |
| *Ameiva ameiva* | Floresta Nacional Iquiri | Brasil | VI |
| *Ameiva ameiva* | Floresta Nacional Jamanxim | Brasil | VI |
| *Ameiva ameiva* | Floresta Nacional Mulata | Brasil | VI |
| *Ameiva ameiva* | Floresta Nacional Tapajós | Brasil | VI |
| *Ameiva ameiva* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Ameiva ameiva* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Ameiva ameiva* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Ameiva ameiva* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | VI |
| *Ameiva ameiva* | Reserva Comunal Amarakaeri | Peru | VI |
| *Ameiva ameiva* | Reserva Comunal Purus | Peru | VI |
| *Ameiva ameiva* | Reserva Comunal Yanesha | Peru | VI |
| *Ameiva ameiva* | Reserva de Desenvolvimento Sustentável do Tupé | Brasil | VI |
| *Ameiva ameiva* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Ameiva ameiva* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Ameiva ameiva* | Reserva Extrativista Ituxí | Brasil | VI |
| *Ameiva ameiva* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Ameiva ameiva* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Ameiva ameiva* | Reserva Extrativista Rio Xingu | Brasil | VI |

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| *Ameiva ameiva* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Ameiva ameiva* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Ameiva ameiva* | Reserva Nacional Allpahuayo Mishana | Peru | VI |
| *Ameiva ameiva* | Reserva Nacional Tambopata | Peru | VI |
| *Ameiva ameiva* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |
| *Anolis auratus* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Anolis auratus* | Estação Ecológica Jari | Brasil | Ia |
| *Anolis auratus* | Reserva Biológica Lago Piratuba | Brasil | Ia |
| *Anolis auratus* | Reserva Biológica Maicuru | Brasil | Ia |
| *Anolis auratus* | Nature Park Brownsberg | Suriname | II |
| *Anolis auratus* | Parque Estadual Monte Alegre | Brasil | II |
| *Anolis auratus* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Anolis auratus* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Anolis auratus* | Nature Reserve Central Suriname | Suriname | IV |
| *Anolis auratus* | Nature Reserve Copi | Suriname | IV |
| *Anolis auratus* | Nature Reserve Kaboeri Kreek | Suriname | IV |
| *Anolis auratus* | Nature Reserve Peruvia | Suriname | IV |
| *Anolis auratus* | Nature Reserve Sipaliwini | Suriname | IV |
| *Anolis auratus* | Nature Reserve Wane Kreek | Suriname | IV |
| *Anolis auratus* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | NA |
| *Anolis auratus* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Anolis auratus* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Anolis auratus* | Área de Proteção Ambiental Fazendinha | Brasil | V |
| *Anolis auratus* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Anolis auratus* | Área de Proteção Ambiental Paytuna | Brasil | V |
| *Anolis auratus* | Área de Proteção Ambiental Rio Curiaú | Brasil | V |
| *Anolis auratus* | Regional Nature Park Guyane | French Guiana | V |
| *Anolis auratus* | Floresta Estadual do Amapá | Brasil | VI |

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| *Anolis auratus* | Floresta Estadual Paru | Brasil | VI |
| *Anolis auratus* | Floresta Estadual Trombetas | Brasil | VI |
| *Anolis auratus* | Floresta Nacional Amapá | Brasil | VI |
| *Anolis auratus* | Floresta Nacional Mulata | Brasil | VI |
| *Anolis auratus* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Anolis auratus* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Anolis auratus* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Anolis auratus* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Anolis auratus* | Reserva Extrativista Renascer | Brasil | VI |
| *Anolis auratus* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Anolis auratus* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Anolis auratus* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Anolis brasiliensis* | Parque Estadual Serra dos Martírios/Andorinhas | Brasil | II |
| *Anolis brasiliensis* | Parque Natural Municipal Veredas dos Carajás | Brasil | NA |
| *Anolis brasiliensis* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Anolis brasiliensis* | Área de Proteção Ambiental Lago de Santa Isabel | Brasil | V |
| *Anolis brasiliensis* | Área de Proteção Ambiental São Geraldo do Araguaia | Brasil | V |
| *Anolis brasiliensis* | Área de Proteção Ambiental Triunfo do Xingu | Brasil | V |
| *Anolis brasiliensis* | Floresta Nacional Carajás | Brasil | VI |
| *Anolis chrysolepis* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Anolis chrysolepis* | Estação Ecológica Jari | Brasil | Ia |
| *Anolis chrysolepis* | Reserva Biológica Maicuru | Brasil | Ia |
| *Anolis chrysolepis* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Anolis chrysolepis* | Nature Park Brownsberg | Suriname | II |
| *Anolis chrysolepis* | Parque Nacional Montanhas do Tumucumaque | Brasil | II |
| *Anolis chrysolepis* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Anolis chrysolepis* | Nature Reserve Central Suriname | Suriname | IV |
| *Anolis chrysolepis* | Nature Reserve Copi | Suriname | IV |

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| *Anolis chrysolepis* | Nature Reserve Peruvia | Suriname | IV |
| *Anolis chrysolepis* | Nature Reserve Sipaliwini | Suriname | IV |
| *Anolis chrysolepis* | Nature Reserve Wane Kreek | Suriname | IV |
| *Anolis chrysolepis* | National Park - Core Area Guyane (Parc Amazonien) | French Guiana | NA |
| *Anolis chrysolepis* | Parque Natural Municipal Cancão | Brasil | NA |
| *Anolis chrysolepis* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | NA |
| *Anolis chrysolepis* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Anolis chrysolepis* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Anolis chrysolepis* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Anolis chrysolepis* | Regional Nature Park Guyane | French Guiana | V |
| *Anolis chrysolepis* | Floresta Estadual de Faro | Brasil | VI |
| *Anolis chrysolepis* | Floresta Estadual do Amapá | Brasil | VI |
| *Anolis chrysolepis* | Floresta Estadual Paru | Brasil | VI |
| *Anolis chrysolepis* | Floresta Estadual Trombetas | Brasil | VI |
| *Anolis chrysolepis* | Floresta Nacional Amapá | Brasil | VI |
| *Anolis chrysolepis* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Anolis chrysolepis* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Anolis chrysolepis* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Anolis chrysolepis* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Anolis chrysolepis* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |
| *Anolis chrysolepis* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Anolis fuscoauratus* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Anolis fuscoauratus* | Estação Ecológica Jari | Brasil | Ia |
| *Anolis fuscoauratus* | Estação Ecológica Samuel | Brasil | Ia |
| *Anolis fuscoauratus* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Anolis fuscoauratus* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Anolis fuscoauratus* | Reserva Biológica Abufari | Brasil | Ia |
| *Anolis fuscoauratus* | Reserva Biológica Jaru | Brasil | Ia |

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| *Anolis fuscoauratus* | Reserva Biológica Limoncocha | Ecuador | Ia |
| *Anolis fuscoauratus* | Reserva Biológica Maicuru | Brasil | Ia |
| *Anolis fuscoauratus* | Reserva Biológica Rio Ouro Preto | Brasil | Ia |
| *Anolis fuscoauratus* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Anolis fuscoauratus* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Anolis fuscoauratus* | Reserva Biológica Traçadal | Brasil | Ia |
| *Anolis fuscoauratus* | Reserva Biológica Uatumã | Brasil | Ia |
| *Anolis fuscoauratus* | Reserva de Vida Silvestre Bruno Racua | Bolivia | Ib |
| *Anolis fuscoauratus* | National Park Canaima | Venezuela | II |
| *Anolis fuscoauratus* | National Park Kaieteur National Park | Guyana | II |
| *Anolis fuscoauratus* | Nature Park Brownsberg | Suriname | II |
| *Anolis fuscoauratus* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Anolis fuscoauratus* | Parque Estadual Rio Negro Setor Sul | Brasil | II |
| *Anolis fuscoauratus* | Parque Estadual Serra dos Martírios/Andorinhas | Brasil | II |
| *Anolis fuscoauratus* | Parque Estadual Sumaúma | Brasil | II |
| *Anolis fuscoauratus* | Parque Estadual Utinga | Brasil | II |
| *Anolis fuscoauratus* | Parque Nacional Amazônia | Brasil | II |
| *Anolis fuscoauratus* | Parque Nacional Bahuaja Sonene | Peru | II |
| *Anolis fuscoauratus* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Anolis fuscoauratus* | Parque Nacional do Jamanxim | Brasil | II |
| *Anolis fuscoauratus* | Parque Nacional Güeppí-Sekime | Peru | II |
| *Anolis fuscoauratus* | Parque Nacional Llanganates | Ecuador | II |
| *Anolis fuscoauratus* | Parque Nacional Madidi | Bolivia | II |
| *Anolis fuscoauratus* | Parque Nacional Manu | Peru | II |
| *Anolis fuscoauratus* | Parque Nacional Mapinguari | Brasil | II |
| *Anolis fuscoauratus* | Parque Nacional Monte Roraima | Brasil | II |
| *Anolis fuscoauratus* | Parque Nacional Nascentes do Lago Jari | Brasil | II |
| *Anolis fuscoauratus* | Parque Nacional Pacaás Novos | Brasil | II |

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| *Anolis fuscoauratus* | Parque Nacional Sangay | Ecuador | II |
| *Anolis fuscoauratus* | Parque Nacional Serra do Divisor | Brasil | II |
| *Anolis fuscoauratus* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Anolis fuscoauratus* | Parque Nacional y Area Natural de Manejo Integrado Cotapata | Bolivia | II |
| *Anolis fuscoauratus* | Parque Nacional Yasuní | Ecuador | II |
| *Anolis fuscoauratus* | Natural Monument Formaciones de Tepuyes | Venezuela | III |
| *Anolis fuscoauratus* | Área de Relevante Interesse Ecológico Japiim Pentecoste | Brasil | IV |
| *Anolis fuscoauratus* | Área de Relevante Interesse Ecológico Javari Buriti | Brasil | IV |
| *Anolis fuscoauratus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Anolis fuscoauratus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Anolis fuscoauratus* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Anolis fuscoauratus* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Anolis fuscoauratus* | Nature Reserve Central Suriname | Suriname | IV |
| *Anolis fuscoauratus* | Nature Reserve Copi | Suriname | IV |
| *Anolis fuscoauratus* | Nature Reserve Peruvia | Suriname | IV |
| *Anolis fuscoauratus* | Nature Reserve Sipaliwini | Suriname | IV |
| *Anolis fuscoauratus* | Nature Reserve Wane Kreek | Suriname | IV |
| *Anolis fuscoauratus* | Refugio de Vida Silvestre El Zarza | Ecuador | IV |
| *Anolis fuscoauratus* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Anolis fuscoauratus* | Área de Conservación Regional Ampiyacu Apayacu | Peru | NA |
| *Anolis fuscoauratus* | Área de Conservación Regional Comunal Tamshiyacu Tahuayo | Peru | NA |
| *Anolis fuscoauratus* | Area Natural de Manejo Integrado Amboró | Bolivia | NA |
| *Anolis fuscoauratus* | Area Protegida Municipal Curichi El Cuajo | Bolivia | NA |
| *Anolis fuscoauratus* | Forest Plot San Pedro | Venezuela | NA |
| *Anolis fuscoauratus* | National Park - Core Area Guyane (Parc Amazonien) | French Guiana | NA |
| *Anolis fuscoauratus* | Parque Natural Municipal Cancão | Brasil | NA |
| *Anolis fuscoauratus* | Parque Natural Municipal Veredas dos Carajás | Brasil | NA |
| *Anolis fuscoauratus* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | NA |

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| *Anolis fuscoauratus* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | NA |
| *Anolis fuscoauratus* | World Heritage Site Canaima National Park | Venezuela | NA |
| *Anolis fuscoauratus* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Anolis fuscoauratus* | Zona Reservada Sierra del Divisor | Peru | NA |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Igarapé São Francisco | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Lago de Santa Isabel | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Lago do Amapá | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental São Geraldo do Araguaia | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Anolis fuscoauratus* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Anolis fuscoauratus* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Anolis fuscoauratus* | Protective Zone Sur del Estado Bolívar | Venezuela | V |
| *Anolis fuscoauratus* | Regional Nature Park Guyane | French Guiana | V |
| *Anolis fuscoauratus* | Community Owned Conservation Area Kanashen | Guyana | VI |

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| *Anolis fuscoauratus* | Floresta Estadual Canutaba | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Estadual de Faro | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Estadual do Amapá | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Estadual Paru | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Estadual Rio Urubu | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Estadual Trombetas | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Altamira | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Amapá | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Balata-Tufari | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Carajás | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Crepori | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional do Trairão | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Humaitá | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Iquiri | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Jamanxim | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Jamari | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Pau-Rosa | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Tapajós | Brasil | VI |
| *Anolis fuscoauratus* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Anolis fuscoauratus* | Forest Reserve Imataca | Venezuela | VI |
| *Anolis fuscoauratus* | Managed Resource Use Area Kanuku Mountains Protected Area | Guyana | VI |
| *Anolis fuscoauratus* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Anolis fuscoauratus* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Anolis fuscoauratus* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |

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| *Anolis fuscoauratus* | Ramsar Site, Wetland of International Importance Mamirauá | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Comunal Airo Pai | Peru | VI |
| *Anolis fuscoauratus* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Anolis fuscoauratus* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Anolis fuscoauratus* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Anolis fuscoauratus* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |
| *Anolis fuscoauratus* | Reserva de Desenvolvimento Sustentável Mamirauá | Brasil | VI |
| *Anolis fuscoauratus* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Anolis fuscoauratus* | Reserva de Producción de Fauna Cuyabeno | Ecuador | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Aquariquara | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Auatí-Paraná | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Baixo Juruá | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Canutama | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Ipaú-Anilzinho | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Ituxí | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Lago do Capanã Grande | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Mapuá | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Marinha de Soure | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Médio Purús | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Rio Xingu | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |

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| *Anolis fuscoauratus* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Anolis fuscoauratus* | Reserva Nacional Allpahuayo Mishana | Peru | VI |
| *Anolis fuscoauratus* | Reserva Nacional Amazónica Manuripi Heath | Bolivia | VI |
| *Anolis fuscoauratus* | Reserva Nacional Tambopata | Peru | VI |
| *Anolis fuscoauratus* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |
| *Anolis ortonii* | Estação Ecológica Jari | Brasil | Ia |
| *Anolis ortonii* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Anolis ortonii* | Reserva Biológica Lago Piratuba | Brasil | Ia |
| *Anolis ortonii* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Anolis ortonii* | Reserva Biológica Uatumã | Brasil | Ia |
| *Anolis ortonii* | Nature Park Brownsberg | Suriname | II |
| *Anolis ortonii* | Parque Estadual Monte Alegre | Brasil | II |
| *Anolis ortonii* | Parque Estadual Sumaúma | Brasil | II |
| *Anolis ortonii* | Parque Estadual Utinga | Brasil | II |
| *Anolis ortonii* | Parque Nacional Amazônia | Brasil | II |
| *Anolis ortonii* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Anolis ortonii* | Parque Nacional do Cabo Orange | Brasil | II |
| *Anolis ortonii* | Parque Nacional Manu | Peru | II |
| *Anolis ortonii* | Parque Nacional Natural Cordillera de los Picachos | Colombia | II |
| *Anolis ortonii* | Parque Nacional Natural Serranís de Chiribiquete | Colombia | II |
| *Anolis ortonii* | Parque Nacional Serra do Divisor | Brasil | II |
| *Anolis ortonii* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Anolis ortonii* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Anolis ortonii* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Anolis ortonii* | Biotope Protection Order Grand Matoury | French Guiana | IV |

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| *Anolis ortonii* | Land acquired by Conservatoire du Littoral (national seaside and lakeside conservancy) Petit Cayenne | French Guiana | IV |
| *Anolis ortonii* | Nature Reserve Copi | Suriname | IV |
| *Anolis ortonii* | Nature Reserve Peruvia | Suriname | IV |
| *Anolis ortonii* | Nature Reserve Wane Kreek | Suriname | IV |
| *Anolis ortonii* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Anolis ortonii* | Área Protegida Municipal Lago Tumichucua | Bolivia | NA |
| *Anolis ortonii* | Parque Natural Municipal Cancão | Brasil | NA |
| *Anolis ortonii* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental Paytuna | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Anolis ortonii* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Anolis ortonii* | Regional Nature Park Guyane | French Guiana | V |
| *Anolis ortonii* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Anolis ortonii* | Floresta Estadual do Amapá | Brasil | VI |
| *Anolis ortonii* | Floresta Nacional Amapá | Brasil | VI |
| *Anolis ortonii* | Floresta Nacional Carajás | Brasil | VI |
| *Anolis ortonii* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Anolis ortonii* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Anolis ortonii* | Floresta Nacional Iquiri | Brasil | VI |
| *Anolis ortonii* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Anolis ortonii* | Floresta Nacional Saracá - Taquera | Brasil | VI |

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| *Anolis ortonii* | Floresta Nacional Tapajós | Brasil | VI |
| *Anolis ortonii* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Anolis ortonii* | Floresta Nacional Tefé | Brasil | VI |
| *Anolis ortonii* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Anolis ortonii* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Anolis ortonii* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | VI |
| *Anolis ortonii* | Ramsar Site, Wetland of International Importance Mamirauá | Brasil | VI |
| *Anolis ortonii* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Anolis ortonii* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Anolis ortonii* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Anolis ortonii* | Reserva de Desenvolvimento Sustentável Mamirauá | Brasil | VI |
| *Anolis ortonii* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Ituxí | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Mapuá | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Anolis ortonii* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Anolis planiceps* | Reserva Biológica Morro dos Seis Lagos | Brasil | Ia |
| *Anolis planiceps* | National Park Canaima | Venezuela | II |
| *Anolis planiceps* | National Park Serranía de la Neblina | Venezuela | II |

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| *Anolis planiceps* | Parque Estadual Rio Negro Setor Sul | Brasil | II |
| *Anolis planiceps* | Parque Estadual Sumaúma | Brasil | II |
| *Anolis planiceps* | Parque Nacional Monte Roraima | Brasil | II |
| *Anolis planiceps* | Parque Nacional Pico da Neblina | Brasil | II |
| *Anolis planiceps* | Natural Monument Formaciones de Tepuyes | Venezuela | III |
| *Anolis planiceps* | Forest Plot San Pedro | Venezuela | NA |
| *Anolis planiceps* | World Heritage Site Canaima National Park | Venezuela | NA |
| *Anolis planiceps* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Anolis planiceps* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Anolis planiceps* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Anolis planiceps* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Anolis planiceps* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Anolis planiceps* | Floresta Nacional Roraima | Brasil | VI |
| *Anolis planiceps* | Forest Reserve Imataca | Venezuela | VI |
| *Anolis planiceps* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Anolis punctatus* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Anolis punctatus* | Reserva Biológica Limoncocha | Ecuador | Ia |
| *Anolis punctatus* | Reserva Biológica Nascentes Serra do Cachimbo | Brasil | Ia |
| *Anolis punctatus* | Reserva Biológica Rio Ouro Preto | Brasil | Ia |
| *Anolis punctatus* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Anolis punctatus* | Reserva Biológica Traçadal | Brasil | Ia |
| *Anolis punctatus* | Reserva Biológica Uatumã | Brasil | Ia |
| *Anolis punctatus* | National Park Parima-Tapirapecó | Venezuela | II |
| *Anolis punctatus* | Parque Estadual Cristalino | Brasil | II |
| *Anolis punctatus* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Anolis punctatus* | Parque Estadual Sumaúma | Brasil | II |
| *Anolis punctatus* | Parque Estadual Utinga | Brasil | II |

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| *Anolis punctatus* | Parque Nacional Alto Purús | Peru | II |
| *Anolis punctatus* | Parque Nacional Amazônia | Brasil | II |
| *Anolis punctatus* | Parque Nacional Amboró | Bolivia | II |
| *Anolis punctatus* | Parque Nacional Bahuaja Sonene | Peru | II |
| *Anolis punctatus* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Anolis punctatus* | Parque Nacional do Jamanxim | Brasil | II |
| *Anolis punctatus* | Parque Nacional Madidi | Bolivia | II |
| *Anolis punctatus* | Parque Nacional Manu | Peru | II |
| *Anolis punctatus* | Parque Nacional Mapinguari | Brasil | II |
| *Anolis punctatus* | Parque Nacional Natural Serranís de Chiribiquete | Colombia | II |
| *Anolis punctatus* | Parque Nacional Serra da Cutia | Brasil | II |
| *Anolis punctatus* | Parque Nacional Serra do Divisor | Brasil | II |
| *Anolis punctatus* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Anolis punctatus* | Parque Nacional Yasuní | Ecuador | II |
| *Anolis punctatus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Anolis punctatus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Anolis punctatus* | Nature Reserve Wane Kreek | Suriname | IV |
| *Anolis punctatus* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Anolis punctatus* | Area Natural de Manejo Integrado Amboró | Bolivia | NA |
| *Anolis punctatus* | Área Protegida Municipal Serranía Ibadebe (Tigre negro) | Bolivia | NA |
| *Anolis punctatus* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Lago de Santa Isabel | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |

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| *Anolis punctatus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental São Geraldo do Araguaia | Brasil | V |
| *Anolis punctatus* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Anolis punctatus* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Anolis punctatus* | Floresta Estadual Paru | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional Altamira | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional Carajás | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional do Trairão | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional Iquiri | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional Jamanxim | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional Tapajós | Brasil | VI |
| *Anolis punctatus* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Anolis punctatus* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | VI |
| *Anolis punctatus* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Anolis punctatus* | Reserva Comunal Purus | Peru | VI |
| *Anolis punctatus* | Reserva de Desenvolvimento Sustentável do Juma | Brasil | VI |
| *Anolis punctatus* | Reserva de Desenvolvimento Sustentável do Tupé | Brasil | VI |
| *Anolis punctatus* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Anolis punctatus* | Reserva de Producción de Fauna Cuyabeno | Ecuador | VI |
| *Anolis punctatus* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Chocoaré-Mato Grosso | Brasil | VI |

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| *Anolis punctatus* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Ituxí | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Mapuá | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Maracanã | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Marinha de Soure | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Médio Purús | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Rio Cautário | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Anolis punctatus* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Anolis punctatus* | Reserva Nacional Amazónica Manuripi Heath | Bolivia | VI |
| *Anolis punctatus* | Reserva Nacional Tambopata | Peru | VI |
| *Anolis scypheus* | Reserva Biológica Limoncocha | Ecuador | Ia |
| *Anolis scypheus* | Parque Nacional Manu | Peru | II |
| *Anolis scypheus* | Parque Nacional Natural Sumapaz | Colombia | II |
| *Anolis scypheus* | Parque Nacional Sangay | Ecuador | II |
| *Anolis scypheus* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Anolis scypheus* | Parque Nacional Yasuní | Ecuador | II |
| *Anolis scypheus* | Área de Conservación Regional Alto Nanay- Pintuyacu Chambira | Peru | NA |
| *Anolis scypheus* | Reserva Comunal Tuntanain | Peru | VI |

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| *Anolis scypheus* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Anolis scypheus* | Reserva Ecológica Antisana | Ecuador | VI |
| *Anolis scypheus* | Reserva Nacional Matsés | Peru | VI |
| *Anolis scypheus* | Reserva Nacional Pucacuro | Peru | VI |
| *Anolis tandai* | Parque Estadual Chandless | Brasil | II |
| *Anolis tandai* | Parque Estadual Matupiri | Brasil | II |
| *Anolis tandai* | Parque Nacional Amazônia | Brasil | II |
| *Anolis tandai* | Parque Nacional Manu | Peru | II |
| *Anolis tandai* | Parque Nacional Nascentes do Lago Jari | Brasil | II |
| *Anolis tandai* | Parque Nacional Serra do Divisor | Brasil | II |
| *Anolis tandai* | Zona Reservada Sierra del Divisor | Peru | NA |
| *Anolis tandai* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Anolis tandai* | Floresta Nacional Amaná | Brasil | VI |
| *Anolis tandai* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Anolis tandai* | Floresta Nacional Iquiri | Brasil | VI |
| *Anolis tandai* | Floresta Nacional Pau-Rosa | Brasil | VI |
| *Anolis tandai* | Floresta Nacional Santa Rosa do Purus | Brasil | VI |
| *Anolis tandai* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Anolis tandai* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Anolis tandai* | Reserva de Desenvolvimento Sustentável do Juma | Brasil | VI |
| *Anolis tandai* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Anolis tandai* | Reserva de Desenvolvimento Sustentável Rio Madeira | Brasil | VI |
| *Anolis tandai* | Reserva Extrativista Ituxí | Brasil | VI |
| *Anolis tandai* | Reserva Extrativista Lago do Capanã Grande | Brasil | VI |
| *Anolis tandai* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |
| *Anolis tandai* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Anolis trachyderma* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Anolis trachyderma* | Reserva Biológica Limoncocha | Ecuador | Ia |

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| *Anolis trachyderma* | Parque Nacional Alto Purús | Peru | II |
| *Anolis trachyderma* | Parque Nacional Amazônia | Brasil | II |
| *Anolis trachyderma* | Parque Nacional do Jamanxim | Brasil | II |
| *Anolis trachyderma* | Parque Nacional Rio Novo | Brasil | II |
| *Anolis trachyderma* | Parque Nacional Serra do Divisor | Brasil | II |
| *Anolis trachyderma* | Parque Nacional Serra do Pardo | Brasil | II |
| *Anolis trachyderma* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Anolis trachyderma* | Parque Nacional Yasuní | Ecuador | II |
| *Anolis trachyderma* | Área de Relevante Interesse Ecológico Japiim Pentecoste | Brasil | IV |
| *Anolis trachyderma* | Zona Reservada Sierra del Divisor | Peru | NA |
| *Anolis trachyderma* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Anolis trachyderma* | Área de Proteção Ambiental Triunfo do Xingu | Brasil | V |
| *Anolis trachyderma* | Floresta Nacional Altamira | Brasil | VI |
| *Anolis trachyderma* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Anolis trachyderma* | Floresta Nacional do Trairão | Brasil | VI |
| *Anolis trachyderma* | Floresta Nacional Jamanxim | Brasil | VI |
| *Anolis trachyderma* | Floresta Nacional Tapajós | Brasil | VI |
| *Anolis trachyderma* | Reserva Comunal Purus | Peru | VI |
| *Anolis trachyderma* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Anolis trachyderma* | Reserva de Producción de Fauna Cuyabeno | Ecuador | VI |
| *Anolis trachyderma* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |
| *Anolis trachyderma* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Anolis trachyderma* | Reserva Nacional Pacaya Samiria | Peru | VI |
| *Anolis transversalis* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Anolis transversalis* | Reserva Biológica Rio Ouro Preto | Brasil | Ia |
| *Anolis transversalis* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Anolis transversalis* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Anolis transversalis* | Parque Nacional Mapinguari | Brasil | II |

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| *Anolis transversalis* | Parque Nacional Serra do Divisor | Brasil | II |
| *Anolis transversalis* | Parque Nacional Yasuní | Ecuador | II |
| *Anolis transversalis* | Zona Reservada Santiago Comaina | Peru | NA |
| *Anolis transversalis* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Anolis transversalis* | Floresta Estadual Canutaba | Brasil | VI |
| *Anolis transversalis* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Anolis transversalis* | Floresta Nacional Iquiri | Brasil | VI |
| *Anolis transversalis* | Floresta Nacional Jamari | Brasil | VI |
| *Anolis transversalis* | Reserva de Desenvolvimento Sustentável Uacarí | Brasil | VI |
| *Anolis transversalis* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Anolis transversalis* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Anolis transversalis* | Reserva Nacional Pacaya Samiria | Peru | VI |
| *Arthrosaura kockii* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Arthrosaura kockii* | Estação Ecológica Jari | Brasil | Ia |
| *Arthrosaura kockii* | Reserva Biológica Maicuru | Brasil | Ia |
| *Arthrosaura kockii* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Arthrosaura kockii* | Nature Park Brownsberg | Suriname | II |
| *Arthrosaura kockii* | Parque Estadual Utinga | Brasil | II |
| *Arthrosaura kockii* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Arthrosaura kockii* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Arthrosaura kockii* | National Nature Reserve La Trinité | French Guiana | IV |
| *Arthrosaura kockii* | National Nature Reserve Marais de Kaw-Roura | French Guiana | IV |
| *Arthrosaura kockii* | Nature Reserve Central Suriname | Suriname | IV |
| *Arthrosaura kockii* | Nature Reserve Copi | Suriname | IV |
| *Arthrosaura kockii* | Nature Reserve Peruvia | Suriname | IV |
| *Arthrosaura kockii* | Nature Reserve Sipaliwini | Suriname | IV |
| *Arthrosaura kockii* | Nature Reserve Wane Kreek | Suriname | IV |
| *Arthrosaura kockii* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |

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| *Arthrosaura kockii* | National Park - Core Area Guyane (Parc Amazonien) | French Guiana | NA |
| *Arthrosaura kockii* | Parque Natural Municipal Cancão | Brasil | NA |
| *Arthrosaura kockii* | Ramsar Site, Wetland of International Importance Marais De Kaw | French Guiana | NA |
| *Arthrosaura kockii* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | NA |
| *Arthrosaura kockii* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Arthrosaura kockii* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Arthrosaura kockii* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Arthrosaura kockii* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Arthrosaura kockii* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Arthrosaura kockii* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Arthrosaura kockii* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Arthrosaura kockii* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Arthrosaura kockii* | Regional Nature Park Guyane | French Guiana | V |
| *Arthrosaura kockii* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Arthrosaura kockii* | Floresta Estadual do Amapá | Brasil | VI |
| *Arthrosaura kockii* | Floresta Estadual Paru | Brasil | VI |
| *Arthrosaura kockii* | Floresta Nacional Amapá | Brasil | VI |
| *Arthrosaura kockii* | Floresta Nacional Carajás | Brasil | VI |
| *Arthrosaura kockii* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Arthrosaura kockii* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Arthrosaura kockii* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Arthrosaura kockii* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Arthrosaura kockii* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Arthrosaura kockii* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Arthrosaura kockii* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Arthrosaura kockii* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Arthrosaura kockii* | Reserva Extrativista Marinha de Tracuateua | Brasil | VI |
| *Arthrosaura kockii* | Reserva Extrativista Rio Xingu | Brasil | VI |

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| *Arthrosaura reticulata* | Estação Ecológica Jari | Brasil | Ia |
| *Arthrosaura reticulata* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Arthrosaura reticulata* | Reserva Biológica Maicuru | Brasil | Ia |
| *Arthrosaura reticulata* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Arthrosaura reticulata* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Arthrosaura reticulata* | Reserva Biológica Traçadal | Brasil | Ia |
| *Arthrosaura reticulata* | Reserva Biológica Uatumã | Brasil | Ia |
| *Arthrosaura reticulata* | Nature Park Brownsberg | Suriname | II |
| *Arthrosaura reticulata* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Arthrosaura reticulata* | Parque Estadual Igarapés do Juruena | Brasil | II |
| *Arthrosaura reticulata* | Parque Estadual Serra do Aracá | Brasil | II |
| *Arthrosaura reticulata* | Parque Estadual Sumaúma | Brasil | II |
| *Arthrosaura reticulata* | Parque Nacional Amazônia | Brasil | II |
| *Arthrosaura reticulata* | Parque Nacional Juruena | Brasil | II |
| *Arthrosaura reticulata* | Parque Nacional Rio Novo | Brasil | II |
| *Arthrosaura reticulata* | Parque Nacional Serra da Cutia | Brasil | II |
| *Arthrosaura reticulata* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Arthrosaura reticulata* | Parque Nacional Yasuní | Ecuador | II |
| *Arthrosaura reticulata* | Área de Relevante Interesse Ecológico Japiim Pentecoste | Brasil | IV |
| *Arthrosaura reticulata* | Nature Reserve Central Suriname | Suriname | IV |
| *Arthrosaura reticulata* | Nature Reserve Copi | Suriname | IV |
| *Arthrosaura reticulata* | Nature Reserve Peruvia | Suriname | IV |
| *Arthrosaura reticulata* | Nature Reserve Sipaliwini | Suriname | IV |
| *Arthrosaura reticulata* | Nature Reserve Wane Kreek | Suriname | IV |
| *Arthrosaura reticulata* | Parque Natural Municipal Cancão | Brasil | NA |
| *Arthrosaura reticulata* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Arthrosaura reticulata* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Arthrosaura reticulata* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |

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| *Arthrosaura reticulata* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Arthrosaura reticulata* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Arthrosaura reticulata* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Arthrosaura reticulata* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Arthrosaura reticulata* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Arthrosaura reticulata* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Arthrosaura reticulata* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Arthrosaura reticulata* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Arthrosaura reticulata* | Floresta Estadual de Faro | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Estadual do Amapá | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Estadual Paru | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Estadual Sucunduri | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Estadual Trombetas | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Amaná | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Amapá | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Bom Futuro | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Carajás | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional do Trairão | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Iquiri | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Jamanxim | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Tapajós | Brasil | VI |
| *Arthrosaura reticulata* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Arthrosaura reticulata* | Multiple Use Management Area Noord Saramacca | Suriname | VI |

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| *Arthrosaura reticulata* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Arthrosaura reticulata* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Arthrosaura reticulata* | Reserva de Desenvolvimento Sustentável do Uatumã | Brasil | VI |
| *Arthrosaura reticulata* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Rio Iriri | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Arthrosaura reticulata* | Reserva Nacional Allpahuayo Mishana | Peru | VI |
| *Arthrosaura reticulata* | Reserva Nacional Pacaya Samiria | Peru | VI |
| *Cercosaura argulus* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Cercosaura argulus* | Reserva Biológica El Quimi | Ecuador | Ia |
| *Cercosaura argulus* | Reserva Biológica Traçadal | Brasil | Ia |
| *Cercosaura argulus* | Nature Park Brownsberg | Suriname | II |
| *Cercosaura argulus* | Parque Estadual Utinga | Brasil | II |
| *Cercosaura argulus* | Parque Nacional Bahuaja Sonene | Peru | II |
| *Cercosaura argulus* | Parque Nacional Cayambe Coca | Ecuador | II |
| *Cercosaura argulus* | Parque Nacional Ichigkat Muja - Cordillera del Cóndor | Peru | II |
| *Cercosaura argulus* | Parque Nacional Madidi | Bolivia | II |

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| *Cercosaura argulus* | Parque Nacional Mapinguari | Brasil | II |
| *Cercosaura argulus* | Parque Nacional Serra da Cutia | Brasil | II |
| *Cercosaura argulus* | Parque Nacional Serra do Divisor | Brasil | II |
| *Cercosaura argulus* | Parque Nacional Yasuní | Ecuador | II |
| *Cercosaura argulus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Cercosaura argulus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Cercosaura argulus* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Cercosaura argulus* | National Park - Core Area Guyane (Parc Amazonien) | French Guiana | NA |
| *Cercosaura argulus* | Zona Reservada Santiago Comaina | Peru | NA |
| *Cercosaura argulus* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Cercosaura argulus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Cercosaura argulus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Cercosaura argulus* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Cercosaura argulus* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Cercosaura argulus* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Cercosaura argulus* | Floresta Nacional Carajás | Brasil | VI |
| *Cercosaura argulus* | Floresta Nacional do Trairão | Brasil | VI |
| *Cercosaura argulus* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Cercosaura argulus* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Cercosaura argulus* | Reserva de Desenvolvimento Sustentável Uacarí | Brasil | VI |
| *Cercosaura argulus* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Cercosaura argulus* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Cercosaura argulus* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Cercosaura argulus* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Cercosaura argulus* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Cercosaura argulus* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Cercosaura argulus* | Reserva Nacional Allpahuayo Mishana | Peru | VI |
| *Cercosaura argulus* | Reserva Nacional Tambopata | Peru | VI |

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| *Cercosaura eigenmanni* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Cercosaura eigenmanni* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Cercosaura eigenmanni* | Reserva Biológica Traçadal | Brasil | Ia |
| *Cercosaura eigenmanni* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Cercosaura eigenmanni* | Parque Estadual Serra dos Reis | Brasil | II |
| *Cercosaura eigenmanni* | Parque Nacional Manu | Peru | II |
| *Cercosaura eigenmanni* | Parque Nacional Mapinguari | Brasil | II |
| *Cercosaura eigenmanni* | Parque Nacional Noel Kempff Mercado | Bolivia | II |
| *Cercosaura eigenmanni* | Parque Nacional Serra da Cutia | Brasil | II |
| *Cercosaura eigenmanni* | Área de Manejo Integrado Municipal y Zona Externa de Amortiguamiento Santos Reyes | Bolivia | NA |
| *Cercosaura eigenmanni* | Area Natural de Manejo Integrado Madidi | Bolivia | NA |
| *Cercosaura eigenmanni* | Floresta Nacional Iquiri | Brasil | VI |
| *Cercosaura eigenmanni* | Floresta Nacional Jamari | Brasil | VI |
| *Cercosaura eigenmanni* | Reserva de la Biósfera y Territorio Indígena Pilón Lajas | Bolivia | VI |
| *Cercosaura eigenmanni* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Cercosaura eigenmanni* | Reserva Extrativista Chico Mendes | Brasil | VI |
| *Cercosaura eigenmanni* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Cercosaura eigenmanni* | Reserva Extrativista Ituxí | Brasil | VI |
| *Cercosaura eigenmanni* | Reserva Extrativista Médio Purús | Brasil | VI |
| *Cercosaura eigenmanni* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Cercosaura eigenmanni* | Reserva Nacional Tambopata | Peru | VI |
| *Cercosaura ocellata* | Estação Ecológica Jari | Brasil | Ia |
| *Cercosaura ocellata* | Estação Ecológica Maracá | Brasil | Ia |
| *Cercosaura ocellata* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Cercosaura ocellata* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Cercosaura ocellata* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Cercosaura ocellata* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Cercosaura ocellata* | Reserva Biológica Tapirapé | Brasil | Ia |

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| *Cercosaura ocellata* | National Park Yapacana | Venezuela | II |
| *Cercosaura ocellata* | Nature Park Brownsberg | Suriname | II |
| *Cercosaura ocellata* | Parque Estadual Cristalino | Brasil | II |
| *Cercosaura ocellata* | Parque Estadual Matupiri | Brasil | II |
| *Cercosaura ocellata* | Parque Estadual Serra dos Martírios/Andorinhas | Brasil | II |
| *Cercosaura ocellata* | Parque Estadual Sumaúma | Brasil | II |
| *Cercosaura ocellata* | Parque Estadual Utinga | Brasil | II |
| *Cercosaura ocellata* | Parque Nacional Amazônia | Brasil | II |
| *Cercosaura ocellata* | Parque Nacional do Jamanxim | Brasil | II |
| *Cercosaura ocellata* | Parque Nacional Mapinguari | Brasil | II |
| *Cercosaura ocellata* | Parque Nacional Serra do Divisor | Brasil | II |
| *Cercosaura ocellata* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Cercosaura ocellata* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Cercosaura ocellata* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Cercosaura ocellata* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Cercosaura ocellata* | Nature Reserve Central Suriname | Suriname | IV |
| *Cercosaura ocellata* | Nature Reserve Copi | Suriname | IV |
| *Cercosaura ocellata* | Nature Reserve Kaboeri Kreek | Suriname | IV |
| *Cercosaura ocellata* | Nature Reserve Peruvia | Suriname | IV |
| *Cercosaura ocellata* | Nature Reserve Sipaliwini | Suriname | IV |
| *Cercosaura ocellata* | Nature Reserve Wane Kreek | Suriname | IV |
| *Cercosaura ocellata* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Cercosaura ocellata* | Parque Natural Municipal Cancão | Brasil | NA |
| *Cercosaura ocellata* | Parque Natural Municipal Veredas dos Carajás | Brasil | NA |
| *Cercosaura ocellata* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Cercosaura ocellata* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Cercosaura ocellata* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Cercosaura ocellata* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |

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| *Cercosaura ocellata* | Área de Proteção Ambiental Lago de Santa Isabel | Brasil | V |
| *Cercosaura ocellata* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Cercosaura ocellata* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Cercosaura ocellata* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Cercosaura ocellata* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Cercosaura ocellata* | Área de Proteção Ambiental São Geraldo do Araguaia | Brasil | V |
| *Cercosaura ocellata* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Cercosaura ocellata* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Cercosaura ocellata* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Cercosaura ocellata* | Regional Nature Park Guyane | French Guiana | V |
| *Cercosaura ocellata* | Bosque de Protección San Matias San Carlos | Peru | VI |
| *Cercosaura ocellata* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Cercosaura ocellata* | Floresta Estadual do Amapá | Brasil | VI |
| *Cercosaura ocellata* | Floresta Estadual Paru | Brasil | VI |
| *Cercosaura ocellata* | Floresta Estadual Trombetas | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Altamira | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Amaná | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Carajás | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional do Trairão | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Iquiri | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Jamanxim | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Jamari | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Pau-Rosa | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Cercosaura ocellata* | Floresta Nacional Tapajós | Brasil | VI |

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| *Cercosaura ocellata* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Cercosaura ocellata* | Managed Resource Use Area Kanuku Mountains Protected Area | Guyana | VI |
| *Cercosaura ocellata* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Cercosaura ocellata* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Cercosaura ocellata* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Cercosaura ocellata* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | VI |
| *Cercosaura ocellata* | Reserva Comunal El Sira | Peru | VI |
| *Cercosaura ocellata* | Reserva Comunal Yanesha | Peru | VI |
| *Cercosaura ocellata* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Cercosaura ocellata* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Cercosaura ocellata* | Reserva de Desenvolvimento Sustentável do Matupiri | Brasil | VI |
| *Cercosaura ocellata* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |
| *Cercosaura ocellata* | Reserva de Desenvolvimento Sustentável Igapó-Açu | Brasil | VI |
| *Cercosaura ocellata* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Baixo Juruá | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Ituxí | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Marinha de Soure | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Médio Purús | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Cercosaura ocellata* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Cercosaura ocellata* | Reserva Nacional Pacaya Samiria | Peru | VI |
| *Cercosaura oshaughnessyi* | Reserva Biológica El Quimi | Ecuador | Ia |

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| *Cercosaura oshaughnessyi* | Parque Nacional Cayambe Coca | Ecuador | II |
| *Cercosaura oshaughnessyi* | Parque Nacional Ichigkat Muja - Cordillera del Cóndor | Peru | II |
| *Cercosaura oshaughnessyi* | Parque Nacional Llanganates | Ecuador | II |
| *Cercosaura oshaughnessyi* | Parque Nacional Natural Serranía de los Churumbelos | Colombia | II |
| *Cercosaura oshaughnessyi* | Parque Nacional Natural Yaigojé Apaporis | Colombia | II |
| *Cercosaura oshaughnessyi* | Parque Nacional Yasuní | Ecuador | II |
| *Cercosaura oshaughnessyi* | Parque Natural Municipal Cancão | Brasil | NA |
| *Cercosaura oshaughnessyi* | Zona Reservada Santiago Comaina | Peru | NA |
| *Cercosaura oshaughnessyi* | Regional Nature Park Guyane | French Guiana | V |
| *Cercosaura oshaughnessyi* | Floresta Estadual do Amapá | Brasil | VI |
| *Cercosaura oshaughnessyi* | Reserva Comunal Tuntanain | Peru | VI |
| *Cercosaura oshaughnessyi* | Reserva Forestal Protectora Nacional Rio Mocoa | Colombia | VI |
| *Chatogekko amazonicus* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Chatogekko amazonicus* | Estação Ecológica Jari | Brasil | Ia |
| *Chatogekko amazonicus* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Chatogekko amazonicus* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Chatogekko amazonicus* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Chatogekko amazonicus* | Reserva Biológica Maicuru | Brasil | Ia |
| *Chatogekko amazonicus* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Chatogekko amazonicus* | Reserva Biológica Traçadal | Brasil | Ia |
| *Chatogekko amazonicus* | National Park Serranía de la Neblina | Venezuela | II |
| *Chatogekko amazonicus* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Chatogekko amazonicus* | Parque Estadual Rio Negro Setor Sul | Brasil | II |
| *Chatogekko amazonicus* | Parque Estadual Sumaúma | Brasil | II |
| *Chatogekko amazonicus* | Parque Estadual Utinga | Brasil | II |
| *Chatogekko amazonicus* | Parque Nacional Anavilhanas | Brasil | II |
| *Chatogekko amazonicus* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Chatogekko amazonicus* | Parque Nacional Mapinguari | Brasil | II |

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| *Chatogekko amazonicus* | Parque Nacional Montanhas do Tumucumaque | Brasil | II |
| *Chatogekko amazonicus* | Parque Nacional Nascentes do Lago Jari | Brasil | II |
| *Chatogekko amazonicus* | Parque Nacional Pico da Neblina | Brasil | II |
| *Chatogekko amazonicus* | Parque Nacional Serra do Pardo | Brasil | II |
| *Chatogekko amazonicus* | Parque Nacional Viruá | Brasil | II |
| *Chatogekko amazonicus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Chatogekko amazonicus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Chatogekko amazonicus* | Nature Reserve Sipaliwini | Suriname | IV |
| *Chatogekko amazonicus* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Chatogekko amazonicus* | Parque Natural Municipal Cancão | Brasil | NA |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Igarapé São Francisco | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Lago do Amapá | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Chatogekko amazonicus* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |

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| *Chatogekko amazonicus* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Chatogekko amazonicus* | Floresta Estadual Canutaba | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Estadual de Faro | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Estadual de Rendimento Sustentado do Rio Madeira B | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Estadual do Amapá | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Estadual Paru | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Estadual Rio Urubu | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Estadual Trombetas | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Nacional Amapá | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Nacional Anauá | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Nacional Carajás | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Nacional do Trairão | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Nacional Iquiri | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Nacional Pau-Rosa | Brasil | VI |
| *Chatogekko amazonicus* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Chatogekko amazonicus* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Chatogekko amazonicus* | Reserva de Desenvolvimento Sustentável do Juma | Brasil | VI |
| *Chatogekko amazonicus* | Reserva de Desenvolvimento Sustentável do Rio Negro | Brasil | VI |
| *Chatogekko amazonicus* | Reserva de Desenvolvimento Sustentável do Tupé | Brasil | VI |
| *Chatogekko amazonicus* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Chatogekko amazonicus* | Reserva de Desenvolvimento Sustentável Rio Madeira | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Ituxí | Brasil | VI |

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| *Chatogekko amazonicus* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Lago do Capanã Grande | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Marinha de Tracuateua | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Rio Gregório | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Rio Xingu | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Chatogekko amazonicus* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Cnemidophorus cryptus* | Estação Ecológica Jari | Brasil | Ia |
| *Cnemidophorus cryptus* | Nature Park Brownsberg | Suriname | II |
| *Cnemidophorus cryptus* | Parque Estadual Guariba | Brasil | II |
| *Cnemidophorus cryptus* | Parque Estadual Monte Alegre | Brasil | II |
| *Cnemidophorus cryptus* | Parque Estadual Utinga | Brasil | II |
| *Cnemidophorus cryptus* | Parque Nacional Amazônia | Brasil | II |
| *Cnemidophorus cryptus* | Parque Nacional do Jamanxim | Brasil | II |
| *Cnemidophorus cryptus* | Parque Nacional Rio Novo | Brasil | II |
| *Cnemidophorus cryptus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Cnemidophorus cryptus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Cnemidophorus cryptus* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Cnemidophorus cryptus* | Parque Natural Municipal Cancão | Brasil | NA |
| *Cnemidophorus cryptus* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Cnemidophorus cryptus* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Cnemidophorus cryptus* | Área de Proteção Ambiental Fazendinha | Brasil | V |
| *Cnemidophorus cryptus* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Cnemidophorus cryptus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Cnemidophorus cryptus* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |

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| *Cnemidophorus cryptus* | Área de Proteção Ambiental Paytuna | Brasil | V |
| *Cnemidophorus cryptus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Cnemidophorus cryptus* | Área de Proteção Ambiental Rio Curiaú | Brasil | V |
| *Cnemidophorus cryptus* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Cnemidophorus cryptus* | Floresta Estadual do Amapá | Brasil | VI |
| *Cnemidophorus cryptus* | Floresta Estadual Manicoré | Brasil | VI |
| *Cnemidophorus cryptus* | Floresta Estadual Paru | Brasil | VI |
| *Cnemidophorus cryptus* | Floresta Nacional Carajás | Brasil | VI |
| *Cnemidophorus cryptus* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Cnemidophorus cryptus* | Floresta Nacional Crepori | Brasil | VI |
| *Cnemidophorus cryptus* | Floresta Nacional Jamanxim | Brasil | VI |
| *Cnemidophorus cryptus* | Floresta Nacional Jamari | Brasil | VI |
| *Cnemidophorus cryptus* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Cnemidophorus cryptus* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Guariba | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Ipaú-Anilzinho | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Mãe Grande de Curuça | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Marinha Mestre Lucindo | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista São João da Ponta | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Cnemidophorus cryptus* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Cnemidophorus gramivagus* | National Park Yapacana | Venezuela | II |
| *Cnemidophorus gramivagus* | Parque Estadual Matupiri | Brasil | II |

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| *Cnemidophorus gramivagus* | Parque Estadual Sumaúma | Brasil | II |
| *Cnemidophorus gramivagus* | Parque Nacional Pico da Neblina | Brasil | II |
| *Cnemidophorus gramivagus* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Cnemidophorus gramivagus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Cnemidophorus gramivagus* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Cnemidophorus gramivagus* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Cnemidophorus gramivagus* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Cnemidophorus gramivagus* | Floresta Nacional Jamari | Brasil | VI |
| *Cnemidophorus gramivagus* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Cnemidophorus gramivagus* | Reserva de Desenvolvimento Sustentável do Juma | Brasil | VI |
| *Cnemidophorus gramivagus* | Reserva de Desenvolvimento Sustentável do Rio Negro | Brasil | VI |
| *Cnemidophorus gramivagus* | Reserva de Desenvolvimento Sustentável Rio Madeira | Brasil | VI |
| *Cnemidophorus gramivagus* | Reserva Extrativista Lago do Capanã Grande | Brasil | VI |
| *Cnemidophorus lemniscatus* | Nature Park Brownsberg | Suriname | II |
| *Cnemidophorus lemniscatus* | Parque Estadual Utinga | Brasil | II |
| *Cnemidophorus lemniscatus* | Parque Nacional Amazônia | Brasil | II |
| *Cnemidophorus lemniscatus* | Parque Nacional Anavilhanas | Brasil | II |
| *Cnemidophorus lemniscatus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Cnemidophorus lemniscatus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Cnemidophorus lemniscatus* | Biotope Protection Order Grand Matoury | French Guiana | IV |
| *Cnemidophorus lemniscatus* | Land acquired by Conservatoire du Littoral (national seaside and lakeside conservancy) Petit Cayenne | French Guiana | IV |
| *Cnemidophorus lemniscatus* | National Nature Reserve Marais de Kaw-Roura | French Guiana | IV |
| *Cnemidophorus lemniscatus* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Cnemidophorus lemniscatus* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Cnemidophorus lemniscatus* | Nature Reserve Central Suriname | Suriname | IV |
| *Cnemidophorus lemniscatus* | Nature Reserve Copi | Suriname | IV |

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| *Cnemidophorus lemniscatus* | Nature Reserve Peruvia | Suriname | IV |
| *Cnemidophorus lemniscatus* | Nature Reserve Sipaliwini | Suriname | IV |
| *Cnemidophorus lemniscatus* | Nature Reserve Wane Kreek | Suriname | IV |
| *Cnemidophorus lemniscatus* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Cnemidophorus lemniscatus* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Cnemidophorus lemniscatus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Cnemidophorus lemniscatus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Cnemidophorus lemniscatus* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Cnemidophorus lemniscatus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Cnemidophorus lemniscatus* | Regional Nature Park Guyane | French Guiana | V |
| *Cnemidophorus lemniscatus* | Floresta Estadual Paru | Brasil | VI |
| *Cnemidophorus lemniscatus* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Cnemidophorus lemniscatus* | Floresta Nacional Tapajós | Brasil | VI |
| *Cnemidophorus lemniscatus* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Cnemidophorus lemniscatus* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Cnemidophorus lemniscatus* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Cnemidophorus lemniscatus* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | VI |
| *Cnemidophorus lemniscatus* | Reserva de Desenvolvimento Sustentável do Rio Negro | Brasil | VI |
| *Cnemidophorus lemniscatus* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Cnemidophorus lemniscatus* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Cnemidophorus lemniscatus* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |
| *Copeoglossum nigropunctatum* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Copeoglossum nigropunctatum* | Estação Ecológica Jari | Brasil | Ia |
| *Copeoglossum nigropunctatum* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Copeoglossum nigropunctatum* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Copeoglossum nigropunctatum* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Copeoglossum nigropunctatum* | Reserva Biológica Rio Ouro Preto | Brasil | Ia |
| *Copeoglossum nigropunctatum* | Reserva Biológica Rio Trombetas | Brasil | Ia |

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| *Copeoglossum nigropunctatum* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Copeoglossum nigropunctatum* | Reserva Biológica Traçadal | Brasil | Ia |
| *Copeoglossum nigropunctatum* | Reserva Biológica Uatumã | Brasil | Ia |
| *Copeoglossum nigropunctatum* | National Park Canaima | Venezuela | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Cristalino | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Matupiri | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Monte Alegre | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Serra do Aracá | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Serra dos Martírios/Andorinhas | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Serra dos Reis | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Sumaúma | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Tucumã | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Estadual Utinga | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Amazônia | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Bahuaja Sonene | Peru | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Madidi | Bolivia | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Mapinguari | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Monte Roraima | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Noel Kempff Mercado | Bolivia | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Pacaás Novos | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Serra da Cutia | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Serra do Divisor | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Serra do Pardo | Brasil | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Copeoglossum nigropunctatum* | Parque Nacional Yasuní | Ecuador | II |
| *Copeoglossum nigropunctatum* | Natural Monument Formaciones de Tepuyes | Venezuela | III |

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| *Copeoglossum nigropunctatum* | Área de Relevante Interesse Ecológico Japiim Pentecoste | Brasil | IV |
| *Copeoglossum nigropunctatum* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Copeoglossum nigropunctatum* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Copeoglossum nigropunctatum* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Copeoglossum nigropunctatum* | Forest Plot San Pedro | Venezuela | NA |
| *Copeoglossum nigropunctatum* | Parque Natural Municipal Cancão | Brasil | NA |
| *Copeoglossum nigropunctatum* | Parque Natural Municipal Veredas dos Carajás | Brasil | NA |
| *Copeoglossum nigropunctatum* | World Heritage Site Canaima National Park | Venezuela | NA |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Baixada Maranhense | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Lago de Santa Isabel | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Paytuna | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental São Geraldo do Araguaia | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Triunfo do Xingu | Brasil | V |

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| *Copeoglossum nigropunctatum* | Área de Proteção Ambiental Xeriuini | Brasil | V |
| *Copeoglossum nigropunctatum* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Copeoglossum nigropunctatum* | Floresta Estadual Canutaba | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Estadual do Amapá | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Estadual Paru | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Estadual Trombetas | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Altamira | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Amaná | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Amapá | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Bom Futuro | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Carajás | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional do Trairão | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Iquiri | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Jamanxim | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Mulata | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Tapajós | Brasil | VI |
| *Copeoglossum nigropunctatum* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Copeoglossum nigropunctatum* | Forest Reserve Imataca | Venezuela | VI |
| *Copeoglossum nigropunctatum* | Ramsar Site, Wetland of International Importance Mamirauá | Brasil | VI |
| *Copeoglossum nigropunctatum* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |

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| *Copeoglossum nigropunctatum* | Reserva de Desenvolvimento Sustentável Mamirauá | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva de Desenvolvimento Sustentável Rio Madeira | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Alto Juruá | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Canutama | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Ipaú-Anilzinho | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Ituxí | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Maracanã | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Marinha de Soure | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Marinha Mocapajuba | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Rio Cautário | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Rio Xingu | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista São João da Ponta | Brasil | VI |
| *Copeoglossum nigropunctatum* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Copeoglossum nigropunctatum* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |
| *Crocodilurus amazonicus* | National Park Yapacana | Venezuela | II |

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| *Crocodilurus amazonicus* | Parque Estadual Utinga | Brasil | II |
| *Crocodilurus amazonicus* | Parque Nacional Jaú | Brasil | II |
| *Crocodilurus amazonicus* | Natural Monument Formaciones de Tepuyes | Venezuela | III |
| *Crocodilurus amazonicus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Crocodilurus amazonicus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Crocodilurus amazonicus* | Biotope Protection Order Grand Matoury | French Guiana | IV |
| *Crocodilurus amazonicus* | Land acquired by Conservatoire du Littoral (national seaside and lakeside conservancy) Petit Cayenne | French Guiana | IV |
| *Crocodilurus amazonicus* | Área de Proteção Ambiental Baixo Rio Branco | Brasil | V |
| *Crocodilurus amazonicus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Crocodilurus amazonicus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Crocodilurus amazonicus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Crocodilurus amazonicus* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Crocodilurus amazonicus* | Regional Nature Park Guyane | French Guiana | V |
| *Crocodilurus amazonicus* | Biosphere Reserve Alto Orinoco-Casiquiare | Venezuela | VI |
| *Crocodilurus amazonicus* | Floresta Estadual do Amapá | Brasil | VI |
| *Crocodilurus amazonicus* | Floresta Nacional Amapá | Brasil | VI |
| *Crocodilurus amazonicus* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Crocodilurus amazonicus* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Crocodilurus amazonicus* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Crocodilurus amazonicus* | Reserva Extrativista Rio Unini | Brasil | VI |
| *Gonatodes concinnatus* | Reserva Biológica Limoncocha | Ecuador | Ia |
| *Gonatodes concinnatus* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Gonatodes concinnatus* | Parque Nacional Yasuní | Ecuador | II |
| *Gonatodes concinnatus* | Reserva de Producción de Fauna Cuyabeno | Ecuador | VI |
| *Gonatodes hasemani* | Estação Ecológica Samuel | Brasil | Ia |
| *Gonatodes hasemani* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Gonatodes hasemani* | Estação Ecológica Terra do Meio | Brasil | Ia |

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| *Gonatodes hasemani* | Reserva Biológica Jaru | Brasil | Ia |
| *Gonatodes hasemani* | Reserva Biológica Rio Ouro Preto | Brasil | Ia |
| *Gonatodes hasemani* | Reserva Biológica Traçadal | Brasil | Ia |
| *Gonatodes hasemani* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Gonatodes hasemani* | Parque Estadual Matupiri | Brasil | II |
| *Gonatodes hasemani* | Parque Estadual Sumaúma | Brasil | II |
| *Gonatodes hasemani* | Parque Estadual Tucumã | Brasil | II |
| *Gonatodes hasemani* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Gonatodes hasemani* | Parque Nacional do Jamanxim | Brasil | II |
| *Gonatodes hasemani* | Parque Nacional Manu | Peru | II |
| *Gonatodes hasemani* | Parque Nacional Mapinguari | Brasil | II |
| *Gonatodes hasemani* | Parque Nacional Noel Kempff Mercado | Bolivia | II |
| *Gonatodes hasemani* | Parque Nacional Serra da Cutia | Brasil | II |
| *Gonatodes hasemani* | Parque Nacional Serra do Divisor | Brasil | II |
| *Gonatodes hasemani* | Parque Nacional Serra do Pardo | Brasil | II |
| *Gonatodes hasemani* | Área de Relevante Interesse Ecológico Seringal Nova Esperança | Brasil | IV |
| *Gonatodes hasemani* | Área Protegida Municipal Lago Tumichucua | Bolivia | NA |
| *Gonatodes hasemani* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Gonatodes hasemani* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Gonatodes hasemani* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Gonatodes hasemani* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Gonatodes hasemani* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Gonatodes hasemani* | Floresta Estadual Manicoré | Brasil | VI |
| *Gonatodes hasemani* | Floresta Nacional Altamira | Brasil | VI |
| *Gonatodes hasemani* | Floresta Nacional Balata-Tufari | Brasil | VI |
| *Gonatodes hasemani* | Floresta Nacional Bom Futuro | Brasil | VI |
| *Gonatodes hasemani* | Floresta Nacional Iquiri | Brasil | VI |
| *Gonatodes hasemani* | Floresta Nacional Jamari | Brasil | VI |

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| *Gonatodes hasemani* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Gonatodes hasemani* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Gonatodes hasemani* | Reserva de Desenvolvimento Sustentável Rio Madeira | Brasil | VI |
| *Gonatodes hasemani* | Reserva de Desenvolvimento Sustentável Uacarí | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Chico Mendes | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Ituxí | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Médio Purús | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Rio Cautário | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Rio Xingu | Brasil | VI |
| *Gonatodes hasemani* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |
| *Gonatodes hasemani* | Reserva Nacional Tambopata | Peru | VI |
| *Gonatodes humeralis* | Estação Ecológica Caracaraí | Brasil | Ia |
| *Gonatodes humeralis* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Gonatodes humeralis* | Estação Ecológica Jari | Brasil | Ia |
| *Gonatodes humeralis* | Estação Ecológica Maracá | Brasil | Ia |
| *Gonatodes humeralis* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Gonatodes humeralis* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Gonatodes humeralis* | Reserva Biológica Limoncocha | Ecuador | Ia |
| *Gonatodes humeralis* | Reserva Biológica Maicuru | Brasil | Ia |
| *Gonatodes humeralis* | Reserva Biológica Rio Ouro Preto | Brasil | Ia |
| *Gonatodes humeralis* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Gonatodes humeralis* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Gonatodes humeralis* | Reserva Biológica Traçadal | Brasil | Ia |

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| *Gonatodes humeralis* | Reserva Biológica Uatumã | Brasil | Ia |
| *Gonatodes humeralis* | Nature Park Brownsberg | Suriname | II |
| *Gonatodes humeralis* | Parque Estadual Chandless | Brasil | II |
| *Gonatodes humeralis* | Parque Estadual Cristalino | Brasil | II |
| *Gonatodes humeralis* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Gonatodes humeralis* | Parque Estadual Monte Alegre | Brasil | II |
| *Gonatodes humeralis* | Parque Estadual Rio Negro Setor Sul | Brasil | II |
| *Gonatodes humeralis* | Parque Estadual Serra do Aracá | Brasil | II |
| *Gonatodes humeralis* | Parque Estadual Serra dos Martírios/Andorinhas | Brasil | II |
| *Gonatodes humeralis* | Parque Estadual Serra dos Reis | Brasil | II |
| *Gonatodes humeralis* | Parque Estadual Sumaúma | Brasil | II |
| *Gonatodes humeralis* | Parque Estadual Utinga | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Alto Purús | Peru | II |
| *Gonatodes humeralis* | Parque Nacional Amazônia | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Anavilhanas | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Bahuaja Sonene | Peru | II |
| *Gonatodes humeralis* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional do Jamanxim | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Jaú | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Madidi | Bolivia | II |
| *Gonatodes humeralis* | Parque Nacional Manu | Peru | II |
| *Gonatodes humeralis* | Parque Nacional Mapinguari | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Montanhas do Tumucumaque | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Pico da Neblina | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Rio Novo | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Serra da Cutia | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Serra do Divisor | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Serra do Pardo | Brasil | II |

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| *Gonatodes humeralis* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Gonatodes humeralis* | Parque Nacional Viruá | Brasil | II |
| *Gonatodes humeralis* | Parque Nacional Yasuní | Ecuador | II |
| *Gonatodes humeralis* | Área de Relevante Interesse Ecológico Japiim Pentecoste | Brasil | IV |
| *Gonatodes humeralis* | Área de Relevante Interesse Ecológico Javari Buriti | Brasil | IV |
| *Gonatodes humeralis* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Gonatodes humeralis* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Gonatodes humeralis* | Área de Relevante Interesse Ecológico Seringal Nova Esperança | Brasil | IV |
| *Gonatodes humeralis* | National Nature Reserve Marais de Kaw-Roura | French Guiana | IV |
| *Gonatodes humeralis* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Gonatodes humeralis* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Gonatodes humeralis* | Nature Reserve Central Suriname | Suriname | IV |
| *Gonatodes humeralis* | Nature Reserve Copi | Suriname | IV |
| *Gonatodes humeralis* | Nature Reserve Peruvia | Suriname | IV |
| *Gonatodes humeralis* | Nature Reserve Sipaliwini | Suriname | IV |
| *Gonatodes humeralis* | Nature Reserve Wane Kreek | Suriname | IV |
| *Gonatodes humeralis* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Gonatodes humeralis* | Parque Natural Municipal Cancão | Brasil | NA |
| *Gonatodes humeralis* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Gonatodes humeralis* | Zona Reservada Sierra del Divisor | Peru | NA |
| *Gonatodes humeralis* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Baixo Rio Branco | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Fazendinha | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Igarapé São Francisco | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Lago de Santa Isabel | Brasil | V |

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| *Gonatodes humeralis* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Lago do Amapá | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Paytuna | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Rio Curiaú | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental São Geraldo do Araguaia | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Triunfo do Xingu | Brasil | V |
| *Gonatodes humeralis* | Área de Proteção Ambiental Xeriuini | Brasil | V |
| *Gonatodes humeralis* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Gonatodes humeralis* | Protective Zone Sur del Estado Bolívar | Venezuela | V |
| *Gonatodes humeralis* | Regional Nature Park Guyane | French Guiana | V |
| *Gonatodes humeralis* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Gonatodes humeralis* | Floresta Estadual Canutaba | Brasil | VI |
| *Gonatodes humeralis* | Floresta Estadual de Faro | Brasil | VI |
| *Gonatodes humeralis* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Gonatodes humeralis* | Floresta Estadual do Amapá | Brasil | VI |
| *Gonatodes humeralis* | Floresta Estadual Paru | Brasil | VI |
| *Gonatodes humeralis* | Floresta Estadual Rio Urubu | Brasil | VI |

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| *Gonatodes humeralis* | Floresta Estadual Trombetas | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Altamira | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Amaná | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Amapá | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Amazonas | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Balata-Tufari | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Bom Futuro | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Carajás | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Crepori | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional do Trairão | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Jamanxim | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Mulata | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Pau-Rosa | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Roraima | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Tapajós | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Gonatodes humeralis* | Floresta Nacional Tefé | Brasil | VI |
| *Gonatodes humeralis* | Managed Resource Use Area Kanuku Mountains Protected Area | Guyana | VI |
| *Gonatodes humeralis* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Gonatodes humeralis* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Gonatodes humeralis* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Gonatodes humeralis* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | VI |
| *Gonatodes humeralis* | Ramsar Site, Wetland of International Importance Mamirauá | Brasil | VI |
| *Gonatodes humeralis* | Ramsar Site, Wetland of International Importance Marais De Kaw | French Guiana | VI |

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| *Gonatodes humeralis* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Gonatodes humeralis* | Reserva Comunal Purus | Peru | VI |
| *Gonatodes humeralis* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Gonatodes humeralis* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Gonatodes humeralis* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Gonatodes humeralis* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |
| *Gonatodes humeralis* | Reserva de Desenvolvimento Sustentável do Rio Negro | Brasil | VI |
| *Gonatodes humeralis* | Reserva de Desenvolvimento Sustentável do Uatumã | Brasil | VI |
| *Gonatodes humeralis* | Reserva de Desenvolvimento Sustentável Mamirauá | Brasil | VI |
| *Gonatodes humeralis* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Gonatodes humeralis* | Reserva de Producción de Fauna Cuyabeno | Ecuador | VI |
| *Gonatodes humeralis* | Reserva Extrativista Baixo Juruá | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Canutama | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Chico Mendes | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Chocoaré-Mato Grosso | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Ipaú-Anilzinho | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Mapuá | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Maracanã | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Marinha de Soure | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Rio Cautário | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |

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| *Gonatodes humeralis* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Rio Unini | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Rio Xingu | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Gonatodes humeralis* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Gonatodes humeralis* | Reserva Nacional Allpahuayo Mishana | Peru | VI |
| *Gonatodes humeralis* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |
| *Hemidactylus mabouia* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Hemidactylus mabouia* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Hemidactylus mabouia* | Parque Estadual Serra do Aracá | Brasil | II |
| *Hemidactylus mabouia* | Parque Estadual Serra dos Martírios/Andorinhas | Brasil | II |
| *Hemidactylus mabouia* | Parque Estadual Sumaúma | Brasil | II |
| *Hemidactylus mabouia* | Parque Estadual Tucumã | Brasil | II |
| *Hemidactylus mabouia* | Parque Estadual Utinga | Brasil | II |
| *Hemidactylus mabouia* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Hemidactylus mabouia* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Hemidactylus mabouia* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Hemidactylus mabouia* | National Nature Reserve Marais de Kaw-Roura | French Guiana | IV |
| *Hemidactylus mabouia* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Hemidactylus mabouia* | Parque Natural Municipal Cancão | Brasil | NA |
| *Hemidactylus mabouia* | Parque Natural Municipal Veredas dos Carajás | Brasil | NA |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Fazendinha | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |

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| *Hemidactylus mabouia* | Área de Proteção Ambiental Igarapé São Francisco | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Lago de Santa Isabel | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Lago do Amapá | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Rio Curiaú | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental São Geraldo do Araguaia | Brasil | V |
| *Hemidactylus mabouia* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Hemidactylus mabouia* | Floresta Estadual do Amapá | Brasil | VI |
| *Hemidactylus mabouia* | Floresta Estadual Manicoré | Brasil | VI |
| *Hemidactylus mabouia* | Floresta Nacional Carajás | Brasil | VI |
| *Hemidactylus mabouia* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Hemidactylus mabouia* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Hemidactylus mabouia* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Hemidactylus mabouia* | Floresta Nacional Tapajós | Brasil | VI |
| *Hemidactylus mabouia* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Hemidactylus mabouia* | Ramsar Site, Wetland of International Importance Mamirauá | Brasil | VI |
| *Hemidactylus mabouia* | Ramsar Site, Wetland of International Importance Marais De Kaw | French Guiana | VI |
| *Hemidactylus mabouia* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Hemidactylus mabouia* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Hemidactylus mabouia* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Hemidactylus mabouia* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Hemidactylus mabouia* | Reserva de Desenvolvimento Sustentável Itatupã-Baquiá | Brasil | VI |
| *Hemidactylus mabouia* | Reserva de Desenvolvimento Sustentável Mamirauá | Brasil | VI |

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| *Hemidactylus mabouia* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Hemidactylus mabouia* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Hemidactylus mabouia* | Reserva Extrativista Marinha de Soure | Brasil | VI |
| *Hemidactylus mabouia* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Hemidactylus mabouia* | Reserva Extrativista Médio Purús | Brasil | VI |
| *Hemidactylus mabouia* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Hemidactylus mabouia* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Hemidactylus mabouia* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Hemidactylus palaichthus* | Estação Ecológica Caracaraí | Brasil | Ia |
| *Hemidactylus palaichthus* | Estação Ecológica Maracá | Brasil | Ia |
| *Hemidactylus palaichthus* | Estação Ecológica Niquiá | Brasil | Ia |
| *Hemidactylus palaichthus* | National Park Yapacana | Venezuela | II |
| *Hemidactylus palaichthus* | Nature Park Brownsberg | Suriname | II |
| *Hemidactylus palaichthus* | Parque Estadual Rio Negro Setor Sul | Brasil | II |
| *Hemidactylus palaichthus* | Parque Estadual Serra do Aracá | Brasil | II |
| *Hemidactylus palaichthus* | Parque Nacional Anavilhanas | Brasil | II |
| *Hemidactylus palaichthus* | Parque Nacional Viruá | Brasil | II |
| *Hemidactylus palaichthus* | Nature Reserve Copi | Suriname | IV |
| *Hemidactylus palaichthus* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Hemidactylus palaichthus* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Hemidactylus palaichthus* | Biosphere Reserve Alto Orinoco-Casiquiare | Venezuela | VI |
| *Hemidactylus palaichthus* | Managed Resource Use Area Kanuku Mountains Protected Area | Guyana | VI |
| *Hemidactylus palaichthus* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Hemidactylus palaichthus* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Hemidactylus palaichthus* | Reserva de Desenvolvimento Sustentável do Rio Negro | Brasil | VI |
| *Hemidactylus palaichthus* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |
| *Iphisa elegans* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Iphisa elegans* | Reserva de Vida Silvestre Bruno Racua | Bolivia | Ib |

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| *Iphisa elegans* | National Park Kaieteur National Park | Guyana | II |
| *Iphisa elegans* | Nature Park Brownsberg | Suriname | II |
| *Iphisa elegans* | Parque Estadual Matupiri | Brasil | II |
| *Iphisa elegans* | Parque Estadual Sumaúma | Brasil | II |
| *Iphisa elegans* | Parque Estadual Utinga | Brasil | II |
| *Iphisa elegans* | Parque Nacional Mapinguari | Brasil | II |
| *Iphisa elegans* | Parque Nacional Serra da Cutia | Brasil | II |
| *Iphisa elegans* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Iphisa elegans* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Iphisa elegans* | Área de Conservación Regional Ampiyacu Apayacu | Peru | NA |
| *Iphisa elegans* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Iphisa elegans* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Iphisa elegans* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Iphisa elegans* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Iphisa elegans* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Iphisa elegans* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Iphisa elegans* | Regional Nature Park Guyane | French Guiana | V |
| *Iphisa elegans* | Floresta Estadual de Rendimento Sustentado do Rio Machado | Brasil | VI |
| *Iphisa elegans* | Floresta Nacional do Trairão | Brasil | VI |
| *Iphisa elegans* | Floresta Nacional Humaitá | Brasil | VI |
| *Iphisa elegans* | Floresta Nacional Jamanxim | Brasil | VI |
| *Iphisa elegans* | Reserva de Desenvolvimento Sustentável do Juma | Brasil | VI |
| *Iphisa elegans* | Reserva de Desenvolvimento Sustentável do Matupiri | Brasil | VI |
| *Iphisa elegans* | Reserva de Desenvolvimento Sustentável do Uatumã | Brasil | VI |
| *Iphisa elegans* | Reserva de Desenvolvimento Sustentável Igapó-Açu | Brasil | VI |
| *Iphisa elegans* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Iphisa elegans* | Reserva de Desenvolvimento Sustentável Rio Madeira | Brasil | VI |

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| *Iphisa elegans* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Iphisa elegans* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Iphisa elegans* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Iphisa elegans* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Iphisa elegans* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Iphisa elegans* | Reserva Nacional Pacaya Samiria | Peru | VI |
| *Kentropyx altamazonica* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Kentropyx altamazonica* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Kentropyx altamazonica* | National Park Parima-Tapirapecó | Venezuela | II |
| *Kentropyx altamazonica* | National Park Serranía de la Neblina | Venezuela | II |
| *Kentropyx altamazonica* | National Park Yapacana | Venezuela | II |
| *Kentropyx altamazonica* | Parque Estadual Chandless | Brasil | II |
| *Kentropyx altamazonica* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Kentropyx altamazonica* | Parque Estadual Matupiri | Brasil | II |
| *Kentropyx altamazonica* | Parque Estadual Sumaúma | Brasil | II |
| *Kentropyx altamazonica* | Parque Nacional Alto Purús | Peru | II |
| *Kentropyx altamazonica* | Parque Nacional Anavilhanas | Brasil | II |
| *Kentropyx altamazonica* | Parque Nacional Bahuaja Sonene | Peru | II |
| *Kentropyx altamazonica* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Kentropyx altamazonica* | Parque Nacional Jaú | Brasil | II |
| *Kentropyx altamazonica* | Parque Nacional Madidi | Bolivia | II |
| *Kentropyx altamazonica* | Parque Nacional Mapinguari | Brasil | II |
| *Kentropyx altamazonica* | Parque Nacional Noel Kempff Mercado | Bolivia | II |
| *Kentropyx altamazonica* | Parque Nacional Pico da Neblina | Brasil | II |
| *Kentropyx altamazonica* | Parque Nacional Serra da Cutia | Brasil | II |
| *Kentropyx altamazonica* | Parque Nacional Tingo María | Peru | II |
| *Kentropyx altamazonica* | Natural Monument Formaciones de Tepuyes | Venezuela | III |
| *Kentropyx altamazonica* | Área de Relevante Interesse Ecológico Javari Buriti | Brasil | IV |

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| *Kentropyx altamazonica* | Áreas De Recreacion Cuatro Microcuencas del Municipio de Inirida | Colombia | NA |
| *Kentropyx altamazonica* | Área de Proteção Ambiental Baixo Rio Branco | Brasil | V |
| *Kentropyx altamazonica* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Kentropyx altamazonica* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Kentropyx altamazonica* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Kentropyx altamazonica* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Kentropyx altamazonica* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Kentropyx altamazonica* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Kentropyx altamazonica* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Kentropyx altamazonica* | Área de Proteção Ambiental Xeriuini | Brasil | V |
| *Kentropyx altamazonica* | Biosphere Reserve Alto Orinoco-Casiquiare | Venezuela | VI |
| *Kentropyx altamazonica* | Floresta Estadual Canutaba | Brasil | VI |
| *Kentropyx altamazonica* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Kentropyx altamazonica* | Floresta Nacional Balata-Tufari | Brasil | VI |
| *Kentropyx altamazonica* | Floresta Nacional Iquiri | Brasil | VI |
| *Kentropyx altamazonica* | Floresta Nacional Tapajós | Brasil | VI |
| *Kentropyx altamazonica* | Ramsar Site, Wetland of International Importance Mamirauá | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Comunal Purus | Peru | VI |
| *Kentropyx altamazonica* | Reserva Comunal Tuntanain | Peru | VI |
| *Kentropyx altamazonica* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Kentropyx altamazonica* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Kentropyx altamazonica* | Reserva de Desenvolvimento Sustentável do Rio Negro | Brasil | VI |
| *Kentropyx altamazonica* | Reserva de Desenvolvimento Sustentável Mamirauá | Brasil | VI |
| *Kentropyx altamazonica* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Kentropyx altamazonica* | Reserva de Desenvolvimento Sustentável Rio Madeira | Brasil | VI |
| *Kentropyx altamazonica* | Reserva de Desenvolvimento Sustentável Uacarí | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Extrativista Baixo Juruá | Brasil | VI |

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| *Kentropyx altamazonica* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Extrativista Canutama | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Extrativista Médio Purús | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Extrativista Rio Cautário | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Extrativista Rio Unini | Brasil | VI |
| *Kentropyx altamazonica* | Reserva Nacional Tambopata | Peru | VI |
| *Kentropyx calcarata* | Estação Ecológica Alto Maués | Brasil | Ia |
| *Kentropyx calcarata* | Estação Ecológica Cuniã | Brasil | Ia |
| *Kentropyx calcarata* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Kentropyx calcarata* | Estação Ecológica Jari | Brasil | Ia |
| *Kentropyx calcarata* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Kentropyx calcarata* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Kentropyx calcarata* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Kentropyx calcarata* | Reserva Biológica Jaru | Brasil | Ia |
| *Kentropyx calcarata* | Reserva Biológica Lago Piratuba | Brasil | Ia |
| *Kentropyx calcarata* | Reserva Biológica Maicuru | Brasil | Ia |
| *Kentropyx calcarata* | Reserva Biológica Nascentes Serra do Cachimbo | Brasil | Ia |
| *Kentropyx calcarata* | Reserva Biológica Rio Ouro Preto | Brasil | Ia |
| *Kentropyx calcarata* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Kentropyx calcarata* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Kentropyx calcarata* | Reserva Biológica Traçadal | Brasil | Ia |
| *Kentropyx calcarata* | Reserva Biológica Uatumã | Brasil | Ia |
| *Kentropyx calcarata* | National Park Kaieteur National Park | Guyana | II |
| *Kentropyx calcarata* | National Park Parima-Tapirapecó | Venezuela | II |

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| *Kentropyx calcarata* | Nature Park Brownsberg | Suriname | II |
| *Kentropyx calcarata* | Parque Estadual Corumbiara | Brasil | II |
| *Kentropyx calcarata* | Parque Estadual Cristalino | Brasil | II |
| *Kentropyx calcarata* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Kentropyx calcarata* | Parque Estadual Guariba | Brasil | II |
| *Kentropyx calcarata* | Parque Estadual Rio Negro Setor Norte | Brasil | II |
| *Kentropyx calcarata* | Parque Estadual Rio Negro Setor Sul | Brasil | II |
| *Kentropyx calcarata* | Parque Estadual Serra dos Martírios/Andorinhas | Brasil | II |
| *Kentropyx calcarata* | Parque Estadual Serra dos Reis | Brasil | II |
| *Kentropyx calcarata* | Parque Estadual Sumaúma | Brasil | II |
| *Kentropyx calcarata* | Parque Estadual Utinga | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Amazônia | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Anavilhanas | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional do Jamanxim | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Jaú | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Juruena | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Mapinguari | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Montanhas do Tumucumaque | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Noel Kempff Mercado | Bolivia | II |
| *Kentropyx calcarata* | Parque Nacional Pacaás Novos | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Serra da Cutia | Brasil | II |
| *Kentropyx calcarata* | Parque Nacional Serra do Pardo | Brasil | II |
| *Kentropyx calcarata* | Natural Monument Formaciones de Tepuyes | Venezuela | III |
| *Kentropyx calcarata* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Kentropyx calcarata* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Kentropyx calcarata* | Área de Relevante Interesse Ecológico Projeto Dinâmica Biológica de Fragmentos Florestais | Brasil | IV |

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| *Kentropyx calcarata* | Biotope Protection Order Grand Matoury | French Guiana | IV |
| *Kentropyx calcarata* | Land acquired by Conservatoire du Littoral (national seaside and lakeside conservancy) Petit Cayenne | French Guiana | IV |
| *Kentropyx calcarata* | Nature Reserve Central Suriname | Suriname | IV |
| *Kentropyx calcarata* | Nature Reserve Sipaliwini | Suriname | IV |
| *Kentropyx calcarata* | Nature Reserve Wane Kreek | Suriname | IV |
| *Kentropyx calcarata* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Kentropyx calcarata* | National Park - Core Area Guyane (Parc Amazonien) | French Guiana | NA |
| *Kentropyx calcarata* | Parque Natural Municipal Cancão | Brasil | NA |
| *Kentropyx calcarata* | Parque Natural Municipal Veredas dos Carajás | Brasil | NA |
| *Kentropyx calcarata* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Kentropyx calcarata* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Baixada Maranhense | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Baixo Rio Branco | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Fazendinha | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Lago de Santa Isabel | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |

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| *Kentropyx calcarata* | Área de Proteção Ambiental Rio Curiaú | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental São Geraldo do Araguaia | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Triunfo do Xingu | Brasil | V |
| *Kentropyx calcarata* | Área de Proteção Ambiental Xeriuini | Brasil | V |
| *Kentropyx calcarata* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Kentropyx calcarata* | Protective Zone Sur del Estado Bolívar | Venezuela | V |
| *Kentropyx calcarata* | Regional Nature Park Guyane | French Guiana | V |
| *Kentropyx calcarata* | Biosphere Reserve Alto Orinoco-Casiquiare | Venezuela | VI |
| *Kentropyx calcarata* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Kentropyx calcarata* | Floresta Estadual de Faro | Brasil | VI |
| *Kentropyx calcarata* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Kentropyx calcarata* | Floresta Estadual do Amapá | Brasil | VI |
| *Kentropyx calcarata* | Floresta Estadual Manicoré | Brasil | VI |
| *Kentropyx calcarata* | Floresta Estadual Maúes | Brasil | VI |
| *Kentropyx calcarata* | Floresta Estadual Paru | Brasil | VI |
| *Kentropyx calcarata* | Floresta Estadual Rio Urubu | Brasil | VI |
| *Kentropyx calcarata* | Floresta Estadual Trombetas | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Altamira | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Amaná | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Amapá | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Bom Futuro | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Carajás | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Crepori | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional do Trairão | Brasil | VI |

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| *Kentropyx calcarata* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Jacundá | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Jamanxim | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Jamari | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Mulata | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Pau-Rosa | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Tapajós | Brasil | VI |
| *Kentropyx calcarata* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Kentropyx calcarata* | Forest Reserve Imataca | Venezuela | VI |
| *Kentropyx calcarata* | Managed Resource Use Area Kanuku Mountains Protected Area | Guyana | VI |
| *Kentropyx calcarata* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Kentropyx calcarata* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | VI |
| *Kentropyx calcarata* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Kentropyx calcarata* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Kentropyx calcarata* | Reserva de Desenvolvimento Sustentável do Juma | Brasil | VI |
| *Kentropyx calcarata* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |
| *Kentropyx calcarata* | Reserva de Desenvolvimento Sustentável do Rio Negro | Brasil | VI |
| *Kentropyx calcarata* | Reserva de Desenvolvimento Sustentável do Tupé | Brasil | VI |
| *Kentropyx calcarata* | Reserva de Desenvolvimento Sustentável do Uatumã | Brasil | VI |
| *Kentropyx calcarata* | Reserva de Desenvolvimento Sustentável Itatupã-Baquiá | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Aquariquara | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista de Cururupu | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Extremo Norte do Tocantins | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Guariba | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |

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| *Kentropyx calcarata* | Reserva Extrativista Ipaú-Anilzinho | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Lago do Cuniã | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Mãe Grande de Curuça | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Mapuá | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Marinha de Soure | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Marinha de Tracuateua | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Marinha Mestre Lucindo | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Marinha Mocapajuba | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Rio Cautário | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Rio Cautário | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Rio Iriri | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Rio Unini | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Rio Xingu | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista São João da Ponta | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Kentropyx calcarata* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Kentropyx calcarata* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |
| *Kentropyx pelviceps* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Kentropyx pelviceps* | Reserva Biológica Rio Ouro Preto | Brasil | Ia |
| *Kentropyx pelviceps* | Parque Estadual Matupiri | Brasil | II |

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| *Kentropyx pelviceps* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Kentropyx pelviceps* | Parque Nacional Mapinguari | Brasil | II |
| *Kentropyx pelviceps* | Parque Nacional Serra do Divisor | Brasil | II |
| *Kentropyx pelviceps* | Área de Proteção Ambiental Igarapé São Francisco | Brasil | V |
| *Kentropyx pelviceps* | Área de Proteção Ambiental Lago do Amapá | Brasil | V |
| *Kentropyx pelviceps* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Kentropyx pelviceps* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Kentropyx pelviceps* | Floresta Nacional Iquiri | Brasil | VI |
| *Kentropyx pelviceps* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Kentropyx pelviceps* | Reserva de Desenvolvimento Sustentável do Matupiri | Brasil | VI |
| *Kentropyx pelviceps* | Reserva de Desenvolvimento Sustentável Igapó-Açu | Brasil | VI |
| *Kentropyx pelviceps* | Reserva Extrativista Baixo Juruá | Brasil | VI |
| *Kentropyx pelviceps* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Kentropyx pelviceps* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Kentropyx pelviceps* | Reserva Nacional Allpahuayo Mishana | Peru | VI |
| *Kentropyx striata* | Estação Ecológica Caracaraí | Brasil | Ia |
| *Kentropyx striata* | Estação Ecológica Jari | Brasil | Ia |
| *Kentropyx striata* | Estação Ecológica Maracá | Brasil | Ia |
| *Kentropyx striata* | Reserva Biológica Lago Piratuba | Brasil | Ia |
| *Kentropyx striata* | National Park Canaima | Venezuela | II |
| *Kentropyx striata* | National Park Yapacana | Venezuela | II |
| *Kentropyx striata* | Nature Park Brownsberg | Suriname | II |
| *Kentropyx striata* | Parque Estadual Serra do Aracá | Brasil | II |
| *Kentropyx striata* | Parque Nacional Natural Sierra de la Macarena | Colombia | II |
| *Kentropyx striata* | Parque Natural Regional Laguna de Lomalinda | Colombia | II |
| *Kentropyx striata* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Kentropyx striata* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Kentropyx striata* | Nature Reserve Central Suriname | Suriname | IV |

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| *Kentropyx striata* | Nature Reserve Copi | Suriname | IV |
| *Kentropyx striata* | Nature Reserve Peruvia | Suriname | IV |
| *Kentropyx striata* | Nature Reserve Sipaliwini | Suriname | IV |
| *Kentropyx striata* | Nature Reserve Wane Kreek | Suriname | IV |
| *Kentropyx striata* | Forest Plot San Pedro | Venezuela | NA |
| *Kentropyx striata* | Parque Natural Municipal Cancão | Brasil | NA |
| *Kentropyx striata* | World Heritage Site Canaima National Park | Venezuela | NA |
| *Kentropyx striata* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Kentropyx striata* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Kentropyx striata* | Área de Proteção Ambiental Fazendinha | Brasil | V |
| *Kentropyx striata* | Área de Proteção Ambiental Rio Curiaú | Brasil | V |
| *Kentropyx striata* | Regional Nature Park Guyane | French Guiana | V |
| *Kentropyx striata* | Biosphere Reserve Alto Orinoco-Casiquiare | Venezuela | VI |
| *Kentropyx striata* | Floresta Estadual do Amapá | Brasil | VI |
| *Kentropyx striata* | Floresta Estadual Paru | Brasil | VI |
| *Kentropyx striata* | Floresta Estadual Trombetas | Brasil | VI |
| *Kentropyx striata* | Floresta Nacional Amapá | Brasil | VI |
| *Kentropyx striata* | Floresta Nacional Mulata | Brasil | VI |
| *Kentropyx striata* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Kentropyx striata* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Kentropyx striata* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Kentropyx striata* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Kentropyx striata* | Reserva Extrativista Marinha de Soure | Brasil | VI |
| *Kentropyx striata* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Kentropyx striata* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Kentropyx striata* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Leposoma guianense* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Leposoma guianense* | Estação Ecológica Jari | Brasil | Ia |

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| *Leposoma guianense* | Reserva Biológica Maicuru | Brasil | Ia |
| *Leposoma guianense* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Leposoma guianense* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Leposoma guianense* | Nature Park Brownsberg | Suriname | II |
| *Leposoma guianense* | Biotope Protection Order Grand Matoury | French Guiana | IV |
| *Leposoma guianense* | Land acquired by Conservatoire du Littoral (national seaside and lakeside conservancy) Petit Cayenne | French Guiana | IV |
| *Leposoma guianense* | National Nature Reserve Marais de Kaw-Roura | French Guiana | IV |
| *Leposoma guianense* | National Nature Reserve Nouragues | French Guiana | IV |
| *Leposoma guianense* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Leposoma guianense* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Leposoma guianense* | Nature Reserve Central Suriname | Suriname | IV |
| *Leposoma guianense* | Nature Reserve Kaboeri Kreek | Suriname | IV |
| *Leposoma guianense* | Nature Reserve Peruvia | Suriname | IV |
| *Leposoma guianense* | Nature Reserve Sipaliwini | Suriname | IV |
| *Leposoma guianense* | Nature Reserve Wane Kreek | Suriname | IV |
| *Leposoma guianense* | Parque Natural Municipal Cancão | Brasil | NA |
| *Leposoma guianense* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Leposoma guianense* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Leposoma guianense* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Leposoma guianense* | Regional Nature Park Guyane | French Guiana | V |
| *Leposoma guianense* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Leposoma guianense* | Floresta Estadual de Faro | Brasil | VI |
| *Leposoma guianense* | Floresta Estadual do Amapá | Brasil | VI |
| *Leposoma guianense* | Floresta Estadual Paru | Brasil | VI |
| *Leposoma guianense* | Floresta Estadual Trombetas | Brasil | VI |
| *Leposoma guianense* | Floresta Nacional Amapá | Brasil | VI |
| *Leposoma guianense* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Leposoma guianense* | Multiple Use Management Area Bigi Pan | Suriname | VI |

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| *Leposoma guianense* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Leposoma guianense* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Leposoma guianense* | Ramsar Site, Wetland of International Importance Marais De Kaw | French Guiana | VI |
| *Leposoma guianense* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |
| *Leposoma guianense* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Leposoma guianense* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Leposoma osvaldoi* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Leposoma osvaldoi* | Reserva Biológica Jaru | Brasil | Ia |
| *Leposoma osvaldoi* | Parque Estadual Cristalino | Brasil | II |
| *Leposoma osvaldoi* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Leposoma osvaldoi* | Parque Estadual Igarapés do Juruena | Brasil | II |
| *Leposoma osvaldoi* | Parque Nacional Amazônia | Brasil | II |
| *Leposoma osvaldoi* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Leposoma osvaldoi* | Parque Nacional do Jamanxim | Brasil | II |
| *Leposoma osvaldoi* | Parque Nacional Juruena | Brasil | II |
| *Leposoma osvaldoi* | Parque Nacional Serra da Cutia | Brasil | II |
| *Leposoma osvaldoi* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Leposoma osvaldoi* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Leposoma osvaldoi* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Leposoma osvaldoi* | Floresta Estadual Sucunduri | Brasil | VI |
| *Leposoma osvaldoi* | Floresta Nacional Altamira | Brasil | VI |
| *Leposoma osvaldoi* | Floresta Nacional Amaná | Brasil | VI |
| *Leposoma osvaldoi* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Leposoma osvaldoi* | Floresta Nacional do Trairão | Brasil | VI |
| *Leposoma osvaldoi* | Floresta Nacional Jamanxim | Brasil | VI |
| *Leposoma osvaldoi* | Floresta Nacional Pau-Rosa | Brasil | VI |
| *Leposoma osvaldoi* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Leposoma osvaldoi* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |

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| *Leposoma osvaldoi* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Leposoma osvaldoi* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Leposoma osvaldoi* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Leposoma osvaldoi* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Leposoma osvaldoi* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Leposoma percarinatum* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Leposoma percarinatum* | Estação Ecológica Jari | Brasil | Ia |
| *Leposoma percarinatum* | Estação Ecológica Maracá | Brasil | Ia |
| *Leposoma percarinatum* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Leposoma percarinatum* | Reserva Biológica Uatumã | Brasil | Ia |
| *Leposoma percarinatum* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Leposoma percarinatum* | Parque Estadual Serra do Aracá | Brasil | II |
| *Leposoma percarinatum* | Parque Estadual Sumaúma | Brasil | II |
| *Leposoma percarinatum* | Parque Estadual Utinga | Brasil | II |
| *Leposoma percarinatum* | Parque Nacional Amazônia | Brasil | II |
| *Leposoma percarinatum* | Parque Nacional Anavilhanas | Brasil | II |
| *Leposoma percarinatum* | Parque Nacional Jaú | Brasil | II |
| *Leposoma percarinatum* | Parque Nacional Nascentes do Lago Jari | Brasil | II |
| *Leposoma percarinatum* | Parque Nacional Pico da Neblina | Brasil | II |
| *Leposoma percarinatum* | Parque Nacional Serra do Pardo | Brasil | II |
| *Leposoma percarinatum* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Leposoma percarinatum* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Leposoma percarinatum* | Nature Reserve Sipaliwini | Suriname | IV |
| *Leposoma percarinatum* | Nature Reserve Wane Kreek | Suriname | IV |
| *Leposoma percarinatum* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Leposoma percarinatum* | Área de Conservación Regional Ampiyacu Apayacu | Peru | NA |
| *Leposoma percarinatum* | Parque Natural Municipal Cancão | Brasil | NA |
| *Leposoma percarinatum* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |

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| *Leposoma percarinatum* | Área de Proteção Ambiental Baixo Rio Branco | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Leposoma percarinatum* | Área de Proteção Ambiental Xeriuini | Brasil | V |
| *Leposoma percarinatum* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Leposoma percarinatum* | Floresta Estadual de Faro | Brasil | VI |
| *Leposoma percarinatum* | Floresta Estadual do Amapá | Brasil | VI |
| *Leposoma percarinatum* | Floresta Estadual Paru | Brasil | VI |
| *Leposoma percarinatum* | Floresta Nacional Amapá | Brasil | VI |
| *Leposoma percarinatum* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Leposoma percarinatum* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Leposoma percarinatum* | Floresta Nacional do Trairão | Brasil | VI |
| *Leposoma percarinatum* | Floresta Nacional Jamari | Brasil | VI |
| *Leposoma percarinatum* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Leposoma percarinatum* | Floresta Nacional Tapajós | Brasil | VI |
| *Leposoma percarinatum* | Managed Resource Use Area Kanuku Mountains Protected Area | Guyana | VI |
| *Leposoma percarinatum* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Leposoma percarinatum* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Leposoma percarinatum* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |

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| *Leposoma percarinatum* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Leposoma percarinatum* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Leposoma percarinatum* | Reserva Extrativista Lago do Capanã Grande | Brasil | VI |
| *Leposoma percarinatum* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Leposoma percarinatum* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Leposoma percarinatum* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Leposoma percarinatum* | Reserva Extrativista Rio Unini | Brasil | VI |
| *Leposoma percarinatum* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Leposoma percarinatum* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Leposoma percarinatum* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Leposoma percarinatum* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |
| *Plica plica* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Plica plica* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Plica plica* | Reserva Biológica Jaru | Brasil | Ia |
| *Plica plica* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Plica plica* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Plica plica* | Reserva de Vida Silvestre Bruno Racua | Bolivia | Ib |
| *Plica plica* | Nature Park Brownsberg | Suriname | II |
| *Plica plica* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Plica plica* | Parque Estadual Rio Negro Setor Norte | Brasil | II |
| *Plica plica* | Parque Estadual Sumaúma | Brasil | II |
| *Plica plica* | Parque Nacional Amazônia | Brasil | II |
| *Plica plica* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Plica plica* | Parque Nacional do Jamanxim | Brasil | II |
| *Plica plica* | Parque Nacional Mapinguari | Brasil | II |
| *Plica plica* | Parque Nacional Serra da Cutia | Brasil | II |
| *Plica plica* | Parque Nacional Serra do Divisor | Brasil | II |
| *Plica plica* | Parque Nacional Tingo María | Peru | II |

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| *Plica plica* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Plica plica* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Plica plica* | Nature Reserve Central Suriname | Suriname | IV |
| *Plica plica* | Nature Reserve Copi | Suriname | IV |
| *Plica plica* | Nature Reserve Peruvia | Suriname | IV |
| *Plica plica* | Nature Reserve Sipaliwini | Suriname | IV |
| *Plica plica* | Nature Reserve Wane Kreek | Suriname | IV |
| *Plica plica* | Parque Natural Municipal Cancão | Brasil | NA |
| *Plica plica* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Plica plica* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Plica plica* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Plica plica* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Plica plica* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Plica plica* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Plica plica* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Plica plica* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Plica plica* | Regional Nature Park Guyane | French Guiana | V |
| *Plica plica* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Plica plica* | Floresta Estadual de Faro | Brasil | VI |
| *Plica plica* | Floresta Estadual do Amapá | Brasil | VI |
| *Plica plica* | Floresta Nacional Amapá | Brasil | VI |
| *Plica plica* | Floresta Nacional Carajás | Brasil | VI |
| *Plica plica* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Plica plica* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Plica plica* | Floresta Nacional do Trairão | Brasil | VI |
| *Plica plica* | Floresta Nacional Iquiri | Brasil | VI |
| *Plica plica* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Plica plica* | Floresta Nacional Jamanxim | Brasil | VI |

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| *Plica plica* | Floresta Nacional Jamari | Brasil | VI |
| *Plica plica* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Plica plica* | Floresta Nacional Tapajós | Brasil | VI |
| *Plica plica* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Plica plica* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Plica plica* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Plica plica* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Plica plica* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Plica plica* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Plica plica* | Reserva de Desenvolvimento Sustentável do Uatumã | Brasil | VI |
| *Plica plica* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Plica plica* | Reserva Extrativista Aquariquara | Brasil | VI |
| *Plica plica* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Plica plica* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Plica plica* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Plica plica* | Reserva Extrativista Ituxí | Brasil | VI |
| *Plica plica* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Plica plica* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Plica plica* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Plica plica* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Plica plica* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |
| *Plica plica* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Plica plica* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Plica plica* | Reserva Extrativista Verde para Sempre | Brasil | VI |
| *Plica plica* | Reserva Nacional Amazónica Manuripi Heath | Bolivia | VI |
| *Plica plica* | Reserva Nacional Tambopata | Peru | VI |
| *Plica umbra* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Plica umbra* | Estação Ecológica Jari | Brasil | Ia |

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| *Plica umbra* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Plica umbra* | Estação Ecológica Samuel | Brasil | Ia |
| *Plica umbra* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |
| *Plica umbra* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Plica umbra* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Plica umbra* | Reserva Biológica Uatumã | Brasil | Ia |
| *Plica umbra* | Reserva de Vida Silvestre Bruno Racua | Bolivia | Ib |
| *Plica umbra* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Plica umbra* | Parque Estadual Matupiri | Brasil | II |
| *Plica umbra* | Parque Estadual Serra dos Reis | Brasil | II |
| *Plica umbra* | Parque Estadual Sumaúma | Brasil | II |
| *Plica umbra* | Parque Estadual Utinga | Brasil | II |
| *Plica umbra* | Parque Nacional Amazônia | Brasil | II |
| *Plica umbra* | Parque Nacional Bahuaja Sonene | Peru | II |
| *Plica umbra* | Parque Nacional do Jamanxim | Brasil | II |
| *Plica umbra* | Parque Nacional Madidi | Bolivia | II |
| *Plica umbra* | Parque Nacional Mapinguari | Brasil | II |
| *Plica umbra* | Parque Nacional Nascentes do Lago Jari | Brasil | II |
| *Plica umbra* | Parque Nacional Noel Kempff Mercado | Bolivia | II |
| *Plica umbra* | Parque Nacional Pico da Neblina | Brasil | II |
| *Plica umbra* | Parque Nacional Serra da Cutia | Brasil | II |
| *Plica umbra* | Parque Nacional Serra do Divisor | Brasil | II |
| *Plica umbra* | Parque Nacional Serra do Pardo | Brasil | II |
| *Plica umbra* | Parque Nacional Yasuní | Ecuador | II |
| *Plica umbra* | Área de Relevante Interesse Ecológico Japiim Pentecoste | Brasil | IV |
| *Plica umbra* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Plica umbra* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Plica umbra* | Área de Relevante Interesse Ecológico Seringal Nova Esperança | Brasil | IV |

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| *Plica umbra* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Plica umbra* | Área Protegida Municipal Lago Tumichucua | Bolivia | NA |
| *Plica umbra* | Área Protegida Municipal Serranía Ibadebe (Tigre negro) | Bolivia | NA |
| *Plica umbra* | Parque Municipal Tequeje | Bolivia | NA |
| *Plica umbra* | Parque Natural Municipal Veredas dos Carajás | Brasil | NA |
| *Plica umbra* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Igarapé São Francisco | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Lago do Amapá | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Triunfo do Xingu | Brasil | V |
| *Plica umbra* | Área de Proteção Ambiental Xeriuini | Brasil | V |
| *Plica umbra* | Floresta Estadual de Faro | Brasil | VI |
| *Plica umbra* | Floresta Estadual Paru | Brasil | VI |
| *Plica umbra* | Floresta Estadual Tapauá | Brasil | VI |
| *Plica umbra* | Floresta Estadual Trombetas | Brasil | VI |
| *Plica umbra* | Floresta Nacional Altamira | Brasil | VI |

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| *Plica umbra* | Floresta Nacional Carajás | Brasil | VI |
| *Plica umbra* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Plica umbra* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Plica umbra* | Floresta Nacional Iquiri | Brasil | VI |
| *Plica umbra* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Plica umbra* | Floresta Nacional Jamanxim | Brasil | VI |
| *Plica umbra* | Floresta Nacional Jamari | Brasil | VI |
| *Plica umbra* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Plica umbra* | Floresta Nacional Tapajós | Brasil | VI |
| *Plica umbra* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Plica umbra* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Plica umbra* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Plica umbra* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Plica umbra* | Reserva de Desenvolvimento Sustentável do Matupiri | Brasil | VI |
| *Plica umbra* | Reserva de Desenvolvimento Sustentável do Rio Iratapuru | Brasil | VI |
| *Plica umbra* | Reserva de Desenvolvimento Sustentável do Uatumã | Brasil | VI |
| *Plica umbra* | Reserva de Desenvolvimento Sustentável Igapó-Açu | Brasil | VI |
| *Plica umbra* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Plica umbra* | Reserva de Desenvolvimento Sustentável Uacarí | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Baixo Juruá | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Chico Mendes | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Chocoaré-Mato Grosso | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Ipaú-Anilzinho | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Ituxí | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Jaci-Paraná | Brasil | VI |

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| *Plica umbra* | Reserva Extrativista Mapuá | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Maracanã | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Rio Xingu | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Riozinho da Liberdade | Brasil | VI |
| *Plica umbra* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Plica umbra* | Reserva Nacional Amazónica Manuripi Heath | Bolivia | VI |
| *Potamites ecpleopus* | Estação Ecológica Juami-Japurá | Brasil | Ia |
| *Potamites ecpleopus* | Reserva Biológica El Quimi | Ecuador | Ia |
| *Potamites ecpleopus* | Parque Estadual Serra dos Martírios/Andorinhas | Brasil | II |
| *Potamites ecpleopus* | Parque Nacional Amboró | Bolivia | II |
| *Potamites ecpleopus* | Parque Nacional Cayambe Coca | Ecuador | II |
| *Potamites ecpleopus* | Parque Nacional Cordillera Azul | Peru | II |
| *Potamites ecpleopus* | Parque Nacional Ichigkat Muja - Cordillera del Cóndor | Peru | II |
| *Potamites ecpleopus* | Parque Nacional Sangay | Ecuador | II |
| *Potamites ecpleopus* | Parque Nacional Serra do Divisor | Brasil | II |
| *Potamites ecpleopus* | Parque Nacional Yasuní | Ecuador | II |
| *Potamites ecpleopus* | Área de Conservación Regional Cordillera Escalera | Peru | NA |
| *Potamites ecpleopus* | Area de protección de cuencas y biodiversidad Cumbre Alto Beni (Serrania de Bella Vista) | Bolivia | NA |
| *Potamites ecpleopus* | Area Natural de Manejo Integrado Amboró | Bolivia | NA |
| *Potamites ecpleopus* | Area Protegida Municipal Curichi El Cuajo | Bolivia | NA |
| *Potamites ecpleopus* | Parque Municipal y de Protección de Cuencas Cascasa Boqueron - Quijarro | Bolivia | NA |
| *Potamites ecpleopus* | Área de Proteção Ambiental Lago de Santa Isabel | Brasil | V |

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| *Potamites ecpleopus* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Potamites ecpleopus* | Área de Proteção Ambiental São Geraldo do Araguaia | Brasil | V |
| *Potamites ecpleopus* | Floresta Nacional do Trairão | Brasil | VI |
| *Potamites ecpleopus* | Floresta Nacional Jamanxim | Brasil | VI |
| *Potamites ecpleopus* | Reserva Ecológica Cofán Bermejo | Ecuador | VI |
| *Potamites ecpleopus* | Reserva Extrativista Alto Juruá | Brasil | VI |
| *Potamites ecpleopus* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Potamites juruazensis* | Parque Nacional Serra do Divisor | Brasil | II |
| *Rondonops biscutatus* | Parque Estadual Corumbiara | Brasil | II |
| *Rondonops biscutatus* | Parque Estadual Cristalino | Brasil | II |
| *Rondonops biscutatus* | Parque Nacional do Jamanxim | Brasil | II |
| *Rondonops biscutatus* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Rondonops biscutatus* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Rondonops biscutatus* | Floresta Nacional Itaituba I | Brasil | VI |
| *Rondonops biscutatus* | Floresta Nacional Jamanxim | Brasil | VI |
| *Thecadactylus rapicauda* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Thecadactylus rapicauda* | Estação Ecológica Jari | Brasil | Ia |
| *Thecadactylus rapicauda* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Thecadactylus rapicauda* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Thecadactylus rapicauda* | Reserva Biológica Uatumã | Brasil | Ia |
| *Thecadactylus rapicauda* | Parque Estadual Rio Negro Setor Sul | Brasil | II |
| *Thecadactylus rapicauda* | Parque Estadual Serra do Aracá | Brasil | II |
| *Thecadactylus rapicauda* | Parque Estadual Sumaúma | Brasil | II |
| *Thecadactylus rapicauda* | Parque Estadual Utinga | Brasil | II |
| *Thecadactylus rapicauda* | Parque Nacional Amazônia | Brasil | II |
| *Thecadactylus rapicauda* | Parque Nacional Anavilhanas | Brasil | II |
| *Thecadactylus rapicauda* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Thecadactylus rapicauda* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |

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| *Thecadactylus rapicauda* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Thecadactylus rapicauda* | Parque Natural Municipal Cancão | Brasil | NA |
| *Thecadactylus rapicauda* | Parque Natural Municipal Veredas dos Carajás | Brasil | NA |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Baixada Maranhense | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Paytuna | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Tapajós | Brasil | V |
| *Thecadactylus rapicauda* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Thecadactylus rapicauda* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Thecadactylus rapicauda* | Floresta Estadual do Amapá | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Estadual Paru | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Estadual Rio Urubu | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Nacional Amapá | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Nacional Carajás | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Nacional de Itaituba II | Brasil | VI |

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| *Thecadactylus rapicauda* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Nacional Jamanxim | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Nacional Tapajós | Brasil | VI |
| *Thecadactylus rapicauda* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Thecadactylus rapicauda* | Managed Resource Use Area Kanuku Mountains Protected Area | Guyana | VI |
| *Thecadactylus rapicauda* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Thecadactylus rapicauda* | Reserva de Desenvolvimento Sustentável do Rio Negro | Brasil | VI |
| *Thecadactylus rapicauda* | Reserva de Producción de Fauna Cuyabeno | Ecuador | VI |
| *Thecadactylus rapicauda* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Thecadactylus rapicauda* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Thecadactylus rapicauda* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Thecadactylus rapicauda* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Thecadactylus rapicauda* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Thecadactylus rapicauda* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |
| *Tretioscincus agilis* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Tretioscincus agilis* | Estação Ecológica Jari | Brasil | Ia |
| *Tretioscincus agilis* | Reserva Biológica Maicuru | Brasil | Ia |
| *Tretioscincus agilis* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Tretioscincus agilis* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Tretioscincus agilis* | Nature Park Brownsberg | Suriname | II |
| *Tretioscincus agilis* | Parque Estadual Sumaúma | Brasil | II |
| *Tretioscincus agilis* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Tretioscincus agilis* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Tretioscincus agilis* | Nature Reserve Central Suriname | Suriname | IV |
| *Tretioscincus agilis* | Nature Reserve Sipaliwini | Suriname | IV |
| *Tretioscincus agilis* | Nature Reserve Wane Kreek | Suriname | IV |
| *Tretioscincus agilis* | Area Natural de Manejo Integrado Amboró | Bolivia | NA |

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| *Tretioscincus agilis* | Area Protegida Municipal Curichi El Cuajo | Bolivia | NA |
| *Tretioscincus agilis* | Parque Natural Municipal Cancão | Brasil | NA |
| *Tretioscincus agilis* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Tretioscincus agilis* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Tretioscincus agilis* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Tretioscincus agilis* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Tretioscincus agilis* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Tretioscincus agilis* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Tretioscincus agilis* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Tretioscincus agilis* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Tretioscincus agilis* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Tretioscincus agilis* | Regional Nature Park Guyane | French Guiana | V |
| *Tretioscincus agilis* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Tretioscincus agilis* | Floresta Estadual de Faro | Brasil | VI |
| *Tretioscincus agilis* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Tretioscincus agilis* | Floresta Estadual do Amapá | Brasil | VI |
| *Tretioscincus agilis* | Floresta Estadual Paru | Brasil | VI |
| *Tretioscincus agilis* | Floresta Estadual Rio Urubu | Brasil | VI |
| *Tretioscincus agilis* | Floresta Estadual Trombetas | Brasil | VI |
| *Tretioscincus agilis* | Floresta Nacional Amapá | Brasil | VI |
| *Tretioscincus agilis* | Floresta Nacional Carajás | Brasil | VI |
| *Tretioscincus agilis* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Tretioscincus agilis* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Tretioscincus agilis* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Tretioscincus agilis* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Tretioscincus agilis* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Tretioscincus agilis* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | VI |
| *Tretioscincus agilis* | Reserva de Desenvolvimento Sustentável do Uatumã | Brasil | VI |

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| *Tretioscincus agilis* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Tretioscincus agilis* | Reserva Extrativista Rio Cajari | Brasil | VI |
| *Tretioscincus agilis* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Tropidurus hispidus* | Estação Ecológica Caracaraí | Brasil | Ia |
| *Tropidurus hispidus* | Estação Ecológica Jari | Brasil | Ia |
| *Tropidurus hispidus* | Estação Ecológica Maracá | Brasil | Ia |
| *Tropidurus hispidus* | National Park Canaima | Venezuela | II |
| *Tropidurus hispidus* | National Park Yapacana | Venezuela | II |
| *Tropidurus hispidus* | Nature Park Brownsberg | Suriname | II |
| *Tropidurus hispidus* | Parque Estadual Monte Alegre | Brasil | II |
| *Tropidurus hispidus* | Parque Estadual Serra do Aracá | Brasil | II |
| *Tropidurus hispidus* | Parque Estadual Sumaúma | Brasil | II |
| *Tropidurus hispidus* | Parque Estadual Utinga | Brasil | II |
| *Tropidurus hispidus* | Parque Nacional Montanhas do Tumucumaque | Brasil | II |
| *Tropidurus hispidus* | Parque Nacional Viruá | Brasil | II |
| *Tropidurus hispidus* | Natural Monument Formaciones de Tepuyes | Venezuela | III |
| *Tropidurus hispidus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Tropidurus hispidus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Tropidurus hispidus* | Biotope Protection Order Grand Matoury | French Guiana | IV |
| *Tropidurus hispidus* | Land acquired by Conservatoire du Littoral (national seaside and lakeside conservancy) Petit Cayenne | French Guiana | IV |
| *Tropidurus hispidus* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Tropidurus hispidus* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Tropidurus hispidus* | Nature Reserve Central Suriname | Suriname | IV |
| *Tropidurus hispidus* | Nature Reserve Copi | Suriname | IV |
| *Tropidurus hispidus* | Nature Reserve Peruvia | Suriname | IV |
| *Tropidurus hispidus* | Nature Reserve Wane Kreek | Suriname | IV |
| *Tropidurus hispidus* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |

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| *Tropidurus hispidus* | Forest Plot El Frío (C.V.G.) | Venezuela | NA |
| *Tropidurus hispidus* | Forest Plot San Pedro | Venezuela | NA |
| *Tropidurus hispidus* | National Park - Core Area Guyane (Parc Amazonien) | French Guiana | NA |
| *Tropidurus hispidus* | World Heritage Site Canaima National Park | Venezuela | NA |
| *Tropidurus hispidus* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Tropidurus hispidus* | Área de Proteção Ambiental Baixada Maranhense | Brasil | V |
| *Tropidurus hispidus* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Tropidurus hispidus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Tropidurus hispidus* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Tropidurus hispidus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Tropidurus hispidus* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Tropidurus hispidus* | Área de Proteção Ambiental Paytuna | Brasil | V |
| *Tropidurus hispidus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Tropidurus hispidus* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Tropidurus hispidus* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Tropidurus hispidus* | Protective Zone Sur del Estado Bolívar | Venezuela | V |
| *Tropidurus hispidus* | Regional Nature Park Guyane | French Guiana | V |
| *Tropidurus hispidus* | Floresta Estadual Paru | Brasil | VI |
| *Tropidurus hispidus* | Floresta Nacional Roraima | Brasil | VI |
| *Tropidurus hispidus* | Forest Reserve Imataca | Venezuela | VI |
| *Tropidurus hispidus* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Tropidurus hispidus* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Tropidurus hispidus* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Tropidurus hispidus* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Tropidurus hispidus* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Tropidurus hispidus* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Tropidurus hispidus* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |

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| *Tupinambis teguixin* | Estação Ecológica Cuniã | Brasil | Ia |
| *Tupinambis teguixin* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Tupinambis teguixin* | Reserva Biológica Guaporé | Brasil | Ia |
| *Tupinambis teguixin* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Tupinambis teguixin* | National Park Yapacana | Venezuela | II |
| *Tupinambis teguixin* | Nature Park Brownsberg | Suriname | II |
| *Tupinambis teguixin* | Parque Estadual Chandless | Brasil | II |
| *Tupinambis teguixin* | Parque Estadual Cristalino | Brasil | II |
| *Tupinambis teguixin* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Tupinambis teguixin* | Parque Estadual Serra do Aracá | Brasil | II |
| *Tupinambis teguixin* | Parque Estadual Sumaúma | Brasil | II |
| *Tupinambis teguixin* | Parque Estadual Utinga | Brasil | II |
| *Tupinambis teguixin* | Parque Nacional Amazônia | Brasil | II |
| *Tupinambis teguixin* | Parque Nacional Jaú | Brasil | II |
| *Tupinambis teguixin* | Parque Nacional Serra do Divisor | Brasil | II |
| *Tupinambis teguixin* | Parque Nacional Serra do Pardo | Brasil | II |
| *Tupinambis teguixin* | Área de Relevante Interesse Ecológico Japiim Pentecoste | Brasil | IV |
| *Tupinambis teguixin* | Área de Relevante Interesse Ecológico Javari Buriti | Brasil | IV |
| *Tupinambis teguixin* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Tupinambis teguixin* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Tupinambis teguixin* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Tupinambis teguixin* | Nature Reserve Central Suriname | Suriname | IV |
| *Tupinambis teguixin* | Nature Reserve Copi | Suriname | IV |
| *Tupinambis teguixin* | Nature Reserve Peruvia | Suriname | IV |
| *Tupinambis teguixin* | Nature Reserve Sipaliwini | Suriname | IV |
| *Tupinambis teguixin* | Nature Reserve Wane Kreek | Suriname | IV |
| *Tupinambis teguixin* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Tupinambis teguixin* | Area Natural de Manejo Integrado Amboró | Bolivia | NA |

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| *Tupinambis teguixin* | Area Protegida Municipal Curichi El Cuajo | Bolivia | NA |
| *Tupinambis teguixin* | Área Protegida Municipal Lago Tumichucua | Bolivia | NA |
| *Tupinambis teguixin* | Parque Departamental y Área Natural de Manejo Integrado Iténez | Bolivia | NA |
| *Tupinambis teguixin* | Parque Natural Municipal Cancão | Brasil | NA |
| *Tupinambis teguixin* | Parque Natural Municipal Veredas dos Carajás | Brasil | NA |
| *Tupinambis teguixin* | Parque Regional Yacuma | Bolivia | NA |
| *Tupinambis teguixin* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Tupinambis teguixin* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Baixo Rio Branco | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Tupinambis teguixin* | Área de Proteção Ambiental Xeriuini | Brasil | V |
| *Tupinambis teguixin* | National Park - Buffer zone/Area of adhesion Guyane (Parc Amazonien) | French Guiana | V |
| *Tupinambis teguixin* | Floresta Estadual Canutaba | Brasil | VI |
| *Tupinambis teguixin* | Floresta Estadual do Amapá | Brasil | VI |
| *Tupinambis teguixin* | Floresta Estadual Paru | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Amapá | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Balata-Tufari | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Carajás | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Iquiri | Brasil | VI |

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| *Tupinambis teguixin* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Jacundá | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Jamanxim | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Mulata | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Santa Rosa do Purus | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Tupinambis teguixin* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Tupinambis teguixin* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Tupinambis teguixin* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Tupinambis teguixin* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Tupinambis teguixin* | Ramsar Site, Wetland of International Importance Mamirauá | Brasil | VI |
| *Tupinambis teguixin* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Tupinambis teguixin* | Reserva de Desenvolvimento Sustentável Canumã | Brasil | VI |
| *Tupinambis teguixin* | Reserva de Desenvolvimento Sustentável Mamirauá | Brasil | VI |
| *Tupinambis teguixin* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Tupinambis teguixin* | Reserva de la Biósfera Estación Biológica del Beni | Bolivia | VI |
| *Tupinambis teguixin* | Reserva Extrativista Alto Juruá | Brasil | VI |
| *Tupinambis teguixin* | Reserva Extrativista Arióca Pruanã | Brasil | VI |
| *Tupinambis teguixin* | Reserva Extrativista Canutama | Brasil | VI |
| *Tupinambis teguixin* | Reserva Extrativista Chocoaré-Mato Grosso | Brasil | VI |
| *Tupinambis teguixin* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Tupinambis teguixin* | Reserva Extrativista Lago do Cuniã | Brasil | VI |
| *Tupinambis teguixin* | Reserva Extrativista Maracanã | Brasil | VI |
| *Tupinambis teguixin* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Tupinambis teguixin* | Reserva Extrativista Rio Unini | Brasil | VI |
| *Tupinambis teguixin* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Tupinambis teguixin* | Reserva Nacional Amazónica Manuripi Heath | Bolivia | VI |
| *Tupinambis teguixin* | Reserva Nacional Tambopata | Peru | VI |

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| *Uracentron flaviceps* | Reserva Biológica Limoncocha | Ecuador | Ia |
| *Uracentron flaviceps* | Parque Nacional Natural Amacayacu | Colombia | II |
| *Uracentron flaviceps* | Parque Nacional Natural Yaigojé Apaporis | Colombia | II |
| *Uracentron flaviceps* | Parque Nacional Serra da Cutia | Brasil | II |
| *Uracentron flaviceps* | Parque Nacional Sumaco Napo-Galeras | Ecuador | II |
| *Uracentron flaviceps* | Parque Nacional Yanachaga-Chemillén | Peru | II |
| *Uracentron flaviceps* | Parque Nacional Yasuní | Ecuador | II |
| *Uracentron flaviceps* | Área de Relevante Interesse Ecológico Seringal Nova Esperança | Brasil | IV |
| *Uracentron flaviceps* | Área de Conservación Regional Ampiyacu Apayacu | Peru | NA |
| *Uracentron flaviceps* | Área de Conservación Regional Maijuna Kichwa | Peru | NA |
| *Uracentron flaviceps* | Zona Reservada Santiago Comaina | Peru | NA |
| *Uracentron flaviceps* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Uracentron flaviceps* | Floresta Nacional Iquiri | Brasil | VI |
| *Uracentron flaviceps* | Reserva Comunal Tuntanain | Peru | VI |
| *Uracentron flaviceps* | Reserva Comunal Yanesha | Peru | VI |
| *Uracentron flaviceps* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Uracentron flaviceps* | Reserva de Producción de Fauna Cuyabeno | Ecuador | VI |
| *Uracentron flaviceps* | Reserva Ecológica Antisana | Ecuador | VI |
| *Uracentron flaviceps* | Reserva Extrativista Barreiro das Antas | Brasil | VI |
| *Uracentron flaviceps* | Reserva Extrativista Chico Mendes | Brasil | VI |
| *Uracentron flaviceps* | Reserva Extrativista Ituxí | Brasil | VI |
| *Uracentron flaviceps* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Uracentron flaviceps* | Reserva Nacional Pacaya Samiria | Peru | VI |
| *Uracentron flaviceps* | Reserva Nacional Pucacuro | Peru | VI |
| *Uranoscodon superciliosus* | Estação Ecológica Grão Pará | Brasil | Ia |
| *Uranoscodon superciliosus* | Estação Ecológica Jari | Brasil | Ia |
| *Uranoscodon superciliosus* | Estação Ecológica Rio Roosevelt | Brasil | Ia |
| *Uranoscodon superciliosus* | Estação Ecológica Serra dos Três Irmãos | Brasil | Ia |

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| *Uranoscodon superciliosus* | Estação Ecológica Terra do Meio | Brasil | Ia |
| *Uranoscodon superciliosus* | Reserva Biológica Maicuru | Brasil | Ia |
| *Uranoscodon superciliosus* | Reserva Biológica Rio Ouro Preto | Brasil | Ia |
| *Uranoscodon superciliosus* | Reserva Biológica Rio Trombetas | Brasil | Ia |
| *Uranoscodon superciliosus* | Reserva Biológica Tapirapé | Brasil | Ia |
| *Uranoscodon superciliosus* | Reserva Biológica Uatumã | Brasil | Ia |
| *Uranoscodon superciliosus* | Nature Park Brownsberg | Suriname | II |
| *Uranoscodon superciliosus* | Parque Estadual Cristalino | Brasil | II |
| *Uranoscodon superciliosus* | Parque Estadual Guajará-Mirim | Brasil | II |
| *Uranoscodon superciliosus* | Parque Estadual Matupiri | Brasil | II |
| *Uranoscodon superciliosus* | Parque Estadual Serra do Aracá | Brasil | II |
| *Uranoscodon superciliosus* | Parque Estadual Sumaúma | Brasil | II |
| *Uranoscodon superciliosus* | Parque Estadual Utinga | Brasil | II |
| *Uranoscodon superciliosus* | Parque Nacional Amazônia | Brasil | II |
| *Uranoscodon superciliosus* | Parque Nacional Anavilhanas | Brasil | II |
| *Uranoscodon superciliosus* | Parque Nacional Campos Amazônicos | Brasil | II |
| *Uranoscodon superciliosus* | Parque Nacional do Jamanxim | Brasil | II |
| *Uranoscodon superciliosus* | Parque Nacional Mapinguari | Brasil | II |
| *Uranoscodon superciliosus* | Parque Nacional Nascentes do Lago Jari | Brasil | II |
| *Uranoscodon superciliosus* | Parque Nacional Natural Amacayacu | Colombia | II |
| *Uranoscodon superciliosus* | Parque Nacional Natural Río Puré | Colombia | II |
| *Uranoscodon superciliosus* | Área de Relevante Interesse Ecológico Museu Parque Seringal | Brasil | IV |
| *Uranoscodon superciliosus* | Área de Relevante Interesse Ecológico Parque Ambiental Antonio Danubio Lourenço da Silva | Brasil | IV |
| *Uranoscodon superciliosus* | National Nature Reserve Marais de Kaw-Roura | French Guiana | IV |
| *Uranoscodon superciliosus* | Nature Reserve Boven-Coesewijne | Suriname | IV |
| *Uranoscodon superciliosus* | Nature Reserve Brinck-heuvel | Suriname | IV |
| *Uranoscodon superciliosus* | Nature Reserve Central Suriname | Suriname | IV |
| *Uranoscodon superciliosus* | Nature Reserve Copi | Suriname | IV |

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| *Uranoscodon superciliosus* | Nature Reserve Kaboeri Kreek | Suriname | IV |
| *Uranoscodon superciliosus* | Nature Reserve Peruvia | Suriname | IV |
| *Uranoscodon superciliosus* | Nature Reserve Sipaliwini | Suriname | IV |
| *Uranoscodon superciliosus* | Nature Reserve Wane Kreek | Suriname | IV |
| *Uranoscodon superciliosus* | Refúgio de Vida Silvestre Metrópole da Amazônia | Brasil | IV |
| *Uranoscodon superciliosus* | World Heritage Site Central Suriname Nature Reserve | Suriname | NA |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Arquipélago do Marajó | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental das Reentrâncias Maranhenses | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Igarapé Gelado | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Ilha do Combu | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Lago de Tucurui | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Margem Direita do Rio Negro - Setor Paduari - Solimões | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro - Setor Tarumã Açu - Tarumã Mirima | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Margem Esquerda do Rio Negro-Setor Aturiá-Apuauzinho | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Nhamundá | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Parque Linear do Bindá | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Presidente Figueiredo - Caverna do Moroaga | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Região Metropolitana de Belém | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Rio Madeira | Brasil | V |
| *Uranoscodon superciliosus* | Área de Proteção Ambiental Taruma/Ponta Negra | Brasil | V |
| *Uranoscodon superciliosus* | Regional Nature Park Guyane | French Guiana | V |
| *Uranoscodon superciliosus* | Biosphere Reserve Alto Orinoco-Casiquiare | Venezuela | VI |
| *Uranoscodon superciliosus* | Community Owned Conservation Area Kanashen | Guyana | VI |
| *Uranoscodon superciliosus* | Floresta Estadual de Faro | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Estadual de Rendimento Sustentado Rio Vermelho C | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Estadual do Amapá | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Estadual Maúes | Brasil | VI |

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| *Uranoscodon superciliosus* | Floresta Estadual Paru | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Estadual Trombetas | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Altamira | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Bom Futuro | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Carajás | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Caxiuanã | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional de Itaituba II | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional do Trairão | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Iquiri | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Itacaiunas | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Jamanxim | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Pau-Rosa | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Saracá - Taquera | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Tapajós | Brasil | VI |
| *Uranoscodon superciliosus* | Floresta Nacional Tapirapé-Aquiri | Brasil | VI |
| *Uranoscodon superciliosus* | Managed Resource Use Area Kanuku Mountains Protected Area | Guyana | VI |
| *Uranoscodon superciliosus* | Multiple Use Management Area Bigi Pan | Suriname | VI |
| *Uranoscodon superciliosus* | Multiple Use Management Area Noord Saramacca | Suriname | VI |
| *Uranoscodon superciliosus* | Multiple Use Management Area North Commewijne - Marowijne | Suriname | VI |
| *Uranoscodon superciliosus* | Ramsar Site, Wetland of International Importance Basse-Mana | French Guiana | VI |
| *Uranoscodon superciliosus* | Ramsar Site, Wetland of International Importance Mamirauá | Brasil | VI |
| *Uranoscodon superciliosus* | Ramsar Site, Wetland of International Importance Marais De Kaw | French Guiana | VI |
| *Uranoscodon superciliosus* | Ramsar Site, Wetland of International Importance Reentrancias Maranhenses | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva de Desenvolvimento Sustentável Amanã | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva de Desenvolvimento Sustentável Cujubim | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva de Desenvolvimento Sustentável do Matupiri | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva de Desenvolvimento Sustentável do Rio Negro | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva de Desenvolvimento Sustentável Igapó-Açu | Brasil | VI |

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| *Uranoscodon superciliosus* | Reserva de Desenvolvimento Sustentável Mamirauá | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva de Desenvolvimento Sustentável Piagaçu Purus | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva de Desenvolvimento Sustentável Rio Amapá | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva de Desenvolvimento Sustentável Uacarí | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Baixo Juruá | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Chocoaré-Mato Grosso | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Guariba-Roosevelt | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Gurupá-Melgaço | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Ipaú-Anilzinho | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Ituxí | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Jaci-Paraná | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Mãe Grande de Curuça | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Mapuá | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Maracanã | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Marinha Caeté-Taperaçu | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Marinha de Araí-Peroba | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Marinha de Gurupi-Piriá | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Marinha de Tracuateua | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Marinha Mestre Lucindo | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Médio Juruá | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Rio Ouro Preto | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Rio Pacaás Novos | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Riozinho do Anfrísio | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista São João da Ponta | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Tapajós Arapiuns | Brasil | VI |
| *Uranoscodon superciliosus* | Reserva Extrativista Terra Grande Pracuuba | Brasil | VI |
| *Uranoscodon superciliosus* | Wilderness Reserve/Managed Resource Use Area Iwokrama | Guyana | VI |

Legenda:  Ia = Reserva natural estrita; Ib = Área de vida selvagem; II = Parque nacional; III = Monumento natural; IV = Área de gestão de espécies e habitat; V = Paisagens protegidas terrestres e marinhas; VI = Área protegida de utilização sustentável dos recursos naturais, de acordo com a IUCN.

## ANEXO E - Script das análises efetuadas no ambiente R (R CORE TEAM 2018; Somente na versão online).

## Seção 1

```
# Meta-analysis of partial data #
setwd("C:/Users/Luisa Diele-Viegas/Google Drive/Cap1")
library(metafor)

#### MS Ecography - by Higher taxa & Regions

data_macro<- read.csv("C:/Users/Luisa Diele-Viegas/Cap1/Ecography/ data_macro.csv", header=T)
str(data_macro)
meta <- escalc(measure= "ZCOR", ri =  r, ni = n_sp, data = data_macro)

#Random Effect Model
ma_r <- rma(yi, vi, data = meta, method = "DL")
ma_r
#Forest plot
forest(ma_r)

#### MS JTB = by Vulnerability / source
data_macro2<-read.csv("C:/Users/Luisa Diele-Viegas/ Cap1/JTB/ data_macro2.csv", header=T)
str(data_macro2)
meta2 <- escalc(measure= "ZCOR", ri =  r, ni = n_sp, data = data_macro2)

#Random Effect Model
ma_r2 <- rma(yi, vi, data = meta3, method = "DL")
ma_r2
#Forest plot
forest(ma_r2)

# Qui quadrado – MS JTB #
library(meta)
#### H0 = O nível taxonômico é independente do grupo
##Variável preditora: grupo = categórica
##Variável resposta: nível taxonômico = categórica
dados.metanalise<-table(group, biolevel)
result.quiquadrado<-chisq.test(dados.metanalise)
result.quiquadrado
### X-squared = 57.835, df = 16, p-value = 1.207e-06
### The subject is dependent of the study's group // we reject the null hypothesis
corrplot(result.quiquadrado$residuals, is.cor = FALSE)
contrib <- 100*result.quiquadrado$residuals^2/result.quiquadrado$statistic
round(contrib, 3)
corrplot(contrib, is.cor = FALSE)
result.quiquadrado$p.value

#### H0 = o grupo é independente do continente
##Variável preditora: continente = categórica
##Variável resposta: grupo = categórica
dados.metanalise<-table(group, ecozone)
result.quiquadrado<-chisq.test(dados.metanalise)
result.quiquadrado
### X-squared = 75.332, df = 40, p-value = 0.0006097
#### The study's group is dependent of the ecozone// we reject the null hypothesis
corrplot(result.quiquadrado$residuals, is.cor = FALSE)
contrib <- 100*result.quiquadrado$residuals^2/result.quiquadrado$statistic
```

```
round(contrib, 3)
corrplot(contrib, is.cor = FALSE)
result.quiquadrado$p.value
```

## Seção 2

```
library(raster)
library(rgdal)
library (gtools)
setwd("D:/FN")
 ### shapefile ###
noronha <- readOGR("C:/Users/Luisa Diele-Viegas/PhD/ExposureNoronha/ilhasFN.shp", "ilhasFN")

# ler os rasters
# GCM He; fazer o mesmo procedimento para MP e MR.
bio1_present<-raster("D:/rasters/Noronha/wc2-5/bio1.bil")
bio1_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi501.tif")
bio1_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi501.tif")
bio1_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi701.tif")
bio1_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi701.tif")
bio2_present<-raster("D:/rasters/Noronha/wc2-5/bio2.bil")
bio2_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi502.tif")
bio2_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi502.tif")
bio2_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi702.tif")
bio2_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi702.tif")
bio3_present<-raster("D:/rasters/Noronha/wc2-5/bio3.bil")
bio3_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi503.tif")
bio3_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi503.tif")
bio3_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi703.tif")
bio3_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi703.tif")
bio4_present<-raster("D:/rasters/Noronha/wc2-5/bio4.bil")
bio4_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi504.tif")
bio4_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi504.tif")
bio4_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi704.tif")
bio4_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi704.tif")
bio5_present<-raster("D:/rasters/Noronha/wc2-5/bio5.bil")
bio5_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi505.tif")
bio5_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi505.tif")
bio5_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi705.tif")
bio5_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi705.tif")
bio6_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi506.tif")
bio6_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi506.tif")
bio6_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi706.tif")
bio6_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi706.tif")
bio7_present<-raster("D:/rasters/Noronha/wc2-5/bio7.bil")
bio7_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi507.tif")
bio7_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi507.tif")
bio7_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi707.tif")
bio7_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi707.tif")
bio8_present<-raster("D:/rasters/Noronha/wc2-5/bio8.bil")
bio8_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi508.tif")
bio8_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi508.tif")
bio8_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi708.tif")
bio8_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi708.tif")
bio9_present<-raster("D:/rasters/Noronha/wc2-5/bio9.bil")
bio9_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi509.tif")
bio9_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi509.tif")
bio9_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi709.tif")
bio9_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi709.tif")
bio10_present<-raster("D:/rasters/Noronha/wc2-5/bio10.bil")
bio10_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5010.tif")
bio10_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5010.tif")
bio10_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7010.tif")
bio10_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7010.tif")
bio11_present<-raster("D:/rasters/Noronha/wc2-5/bio11.bil")
```

```
bio11_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5011.tif")
bio11_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5011.tif")
bio11_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7011.tif")
bio11_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7011.tif")
bio12_present<-raster("D:/rasters/Noronha/wc2-5/bio12.bil")
bio12_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5012.tif")
bio12_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5012.tif")
bio12_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7012.tif")
bio12_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7012.tif")
bio13_present<-raster("D:/rasters/Noronha/wc2-5/bio13.bil")
bio13_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5013.tif")
bio13_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5013.tif")
bio13_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7013.tif")
bio13_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7013.tif")
bio14_present<-raster("D:/rasters/Noronha/wc2-5/bio14.bil")
bio14_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5014.tif")
bio14_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5014.tif")
bio14_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7014.tif")
bio14_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7014.tif")
bio15_present<-raster("D:/rasters/Noronha/wc2-5/bio15.bil")
bio15_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5015.tif")
bio15_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5015.tif")
bio15_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7015.tif")
bio15_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7015.tif")
bio16_present<-raster("D:/rasters/Noronha/wc2-5/bio16.bil")
bio16_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5016.tif")
bio16_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5016.tif")
bio16_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7016.tif")
bio16_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7016.tif")
bio17_present<-raster("D:/rasters/Noronha/wc2-5/bio17.bil")
bio17_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5017.tif")
bio17_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5017.tif")
bio17_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7017.tif")
bio17_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7017.tif")
bio18_present<-raster("D:/rasters/Noronha/wc2-5/bio18.bil")
bio18_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5018.tif")
bio18_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5018.tif")
bio18_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7018.tif")
bio18_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7018.tif")
bio19_present<-raster("D:/rasters/Noronha/wc2-5/bio19.bil")
bio19_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi5019.tif")
bio19_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi5019.tif")
bio19_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45bi7019.tif")
bio19_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85bi7019.tif")
## tmax
tmax1_present<-raster("D:/rasters/Noronha/wc2-5/tmax1.bil")
tmax1_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx501.tif")
tmax1_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx501.tif")
tmax1_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx701.tif")
tmax1_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx701.tif")
tmax2_present<-raster("D:/rasters/Noronha/wc2-5/tmax2.bil")
tmax2_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx502.tif")
tmax2_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx502.tif")
tmax2_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx702.tif")
tmax2_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx702.tif")
tmax3_present<-raster("D:/rasters/Noronha/wc2-5/tmax3.bil")
tmax3_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx503.tif")
tmax3_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx503.tif")
tmax3_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx703.tif")
tmax3_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx703.tif")
```

```
tmax4_present<-raster("D:/rasters/Noronha/wc2-5/tmax4.bil")
tmax4_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx504.tif")
tmax4_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx504.tif")
tmax4_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx704.tif")
tmax4_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx704.tif")
tmax5_present<-raster("D:/rasters/Noronha/wc2-5/tmax5.bil")
tmax5_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx505.tif")
tmax5_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx505.tif")
tmax5_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx705.tif")
tmax5_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx705.tif")
tmax6_present<-raster("D:/rasters/Noronha/wc2-5/tmax6.bil")
tmax6_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx506.tif")
tmax6_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx506.tif")
tmax6_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx706.tif")
tmax6_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx706.tif")
tmax7_present<-raster("D:/rasters/Noronha/wc2-5/tmax7.bil")
tmax7_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx507.tif")
tmax7_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx507.tif")
tmax7_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx707.tif")
tmax7_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx707.tif")
tmax8_present<-raster("D:/rasters/Noronha/wc2-5/tmax8.bil")
tmax8_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx508.tif")
tmax8_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx508.tif")
tmax8_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx708.tif")
tmax8_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx708.tif")
tmax8_mr_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/mr45tx508.tif")
tmax9_present<-raster("D:/rasters/Noronha/wc2-5/tmax9.bil")
tmax9_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx509.tif")
tmax9_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx509.tif")
tmax9_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx709.tif")
tmax9_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx709.tif")
tmax10_present<-raster("D:/rasters/Noronha/wc2-5/tmax10.bil")
tmax10_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx5010.tif")
tmax10_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx5010.tif")
tmax10_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx7010.tif")
tmax10_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx7010.tif")
tmax11_present<-raster("D:/rasters/Noronha/wc2-5/tmax11.bil")
tmax11_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx5011.tif")
tmax11_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx5011.tif")
tmax11_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx7011.tif")
tmax11_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx7011.tif")
tmax12_present<-raster("D:/rasters/Noronha/wc2-5/tmax12.bil")
tmax12_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx5012.tif")
tmax12_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx5012.tif")
tmax12_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tx7012.tif")
tmax12_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tx7012.tif")
## tmin
tmin1_present<-raster("D:/rasters/Noronha/wc2-5/tmin1.bil")
tmin1_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn501.tif")
tmin1_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn501.tif")
tmin1_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn701.tif")
tmin1_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn701.tif")
tmin2_present<-raster("D:/rasters/Noronha/wc2-5/tmin2.bil")
tmin2_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn502.tif")
tmin2_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn502.tif")
tmin2_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn702.tif")
tmin2_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn702.tif")
tmin3_present<-raster("D:/rasters/Noronha/wc2-5/tmin3.bil")
tmin3_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn503.tif")
tmin3_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn503.tif")
```

```
tmin3_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn703.tif")
tmin3_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn703.tif")
tmin4_present<-raster("D:/rasters/Noronha/wc2-5/tmin4.bil")
tmin4_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn504.tif")
tmin4_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn504.tif")
tmin4_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn704.tif")
tmin4_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn704.tif")
tmin5_present<-raster("D:/rasters/Noronha/wc2-5/tmin5.bil")
tmin5_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn505.tif")
tmin5_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn505.tif")
tmin5_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn705.tif")
tmin5_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn705.tif")
tmin6_present<-raster("D:/rasters/Noronha/wc2-5/tmin6.bil")
tmin6_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn506.tif")
tmin6_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn506.tif")
tmin6_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn706.tif")
tmin6_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn706.tif")
tmin7_present<-raster("D:/rasters/Noronha/wc2-5/tmin7.bil")
tmin7_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn507.tif")
tmin7_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn507.tif")
tmin7_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn707.tif")
tmin7_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn707.tif")
tmin8_present<-raster("D:/rasters/Noronha/wc2-5/tmin8.bil")
tmin8_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn508.tif")
tmin8_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn508.tif")
tmin8_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn708.tif")
tmin8_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn708.tif")
tmin9_present<-raster("D:/rasters/Noronha/wc2-5/tmin9.bil")
tmin9_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn509.tif")
tmin9_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn509.tif")
tmin9_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn709.tif")
tmin9_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn709.tif")
tmin10_present<-raster("D:/rasters/Noronha/wc2-5/tmin10.bil")
tmin10_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn5010.tif")
tmin10_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn5010.tif")
tmin10_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn7010.tif")
tmin10_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn7010.tif")
tmin11_present<-raster("D:/rasters/Noronha/wc2-5/tmin11.bil")
tmin11_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn5011.tif")
tmin11_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn5011.tif")
tmin11_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn7011.tif")
tmin11_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn7011.tif")
tmin12_present<-raster("D:/rasters/Noronha/wc2-5/tmin12.bil")
tmin12_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn5012.tif")
tmin12_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn5012.tif")
tmin12_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45tn7012.tif")
tmin12_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85tn7012.tif")
## prec
prec1_present<-raster("D:/rasters/Noronha/wc2-5/prec1.bil")
prec1_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr501.tif")
prec1_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr501.tif")
prec1_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr701.tif")
prec1_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr701.tif")
prec2_present<-raster("D:/rasters/Noronha/wc2-5/prec2.bil")
prec2_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr502.tif")
prec2_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr502.tif")
prec2_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr702.tif")
prec2_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr702.tif")
prec3_present<-raster("D:/rasters/Noronha/wc2-5/prec3.bil")
prec3_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr503.tif")
```

```
prec3_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr503.tif")
prec3_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr703.tif")
prec3_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr703.tif")
prec4_present<-raster("D:/rasters/Noronha/wc2-5/prec4.bil")
prec4_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr504.tif")
prec4_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr504.tif")
prec4_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr704.tif")
prec4_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr704.tif")
prec5_present<-raster("D:/rasters/Noronha/wc2-5/prec5.bil")
prec5_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr505.tif")
prec5_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr505.tif")
prec5_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr705.tif")
prec5_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr705.tif")
prec6_present<-raster("D:/rasters/Noronha/wc2-5/prec6.bil")
prec6_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr506.tif")
prec6_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr506.tif")
prec6_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr706.tif")
prec6_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr706.tif")
prec7_present<-raster("D:/rasters/Noronha/wc2-5/prec7.bil")
prec7_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr507.tif")
prec7_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr507.tif")
prec7_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr707.tif")
prec7_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr707.tif")
prec8_present<-raster("D:/rasters/Noronha/wc2-5/prec8.bil")
prec8_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr508.tif")
prec8_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr508.tif")
prec8_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr708.tif")
prec8_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr708.tif")
prec9_present<-raster("D:/rasters/Noronha/wc2-5/prec9.bil")
prec9_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr509.tif")
prec9_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr509.tif")
prec9_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr709.tif")
prec9_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr709.tif")
prec10_present<-raster("D:/rasters/Noronha/wc2-5/prec10.bil")
prec10_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr5010.tif")
prec10_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr5010.tif")
prec10_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr7010.tif")
prec10_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr7010.tif")
prec11_present<-raster("D:/rasters/Noronha/wc2-5/prec11.bil")
prec11_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr5011.tif")
prec11_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr5011.tif")
prec11_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr7011.tif")
prec11_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr7011.tif")
prec12_present<-raster("D:/rasters/Noronha/wc2-5/prec12.bil")
prec12_he_2050_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr5012.tif")
prec12_he_2050_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr5012.tif")
prec12_he_2070_45<-raster("D:/rasters/Noronha/cmip5/2_5m/he45pr7012.tif")
prec12_he_2070_85<-raster("D:/rasters/Noronha/cmip5/2_5m/he85pr7012.tif")

### Extraction Exposure ###
# bio
bio1_present_extract_mean_noronha<-extract(bio1_present,noronha[1], fun=mean, na.rm=TRUE)
bio1_present_extract_sd_noronha<-extract(bio1_present,noronha[1], fun=sd, na.rm=TRUE)
bio1_he_2050_45_extract_mean_noronha<-extract(bio1_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio1_he_2050_45_extract_sd_noronha<-extract(bio1_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio1_he_2050_85_extract_mean_noronha<-extract(bio1_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio1_he_2050_85_extract_sd_noronha<-extract(bio1_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio1_he_2070_45_extract_mean_noronha<-extract(bio1_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio1_he_2070_45_extract_sd_noronha<-extract(bio1_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio1_he_2070_85_extract_mean_noronha<-extract(bio1_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
```

```
bio1_he_2070_85_extract_sd_noronha<-extract(bio1_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
)
bio2_present_extract_mean_noronha<-extract(bio2_present,noronha[1], fun=mean, na.rm=TRUE)
bio2_present_extract_sd_noronha<-extract(bio2_present,noronha[1], fun=sd, na.rm=TRUE)
bio2_he_2050_45_extract_mean_noronha<-extract(bio2_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio2_he_2050_45_extract_sd_noronha<-extract(bio2_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio2_he_2050_85_extract_mean_noronha<-extract(bio2_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio2_he_2050_85_extract_sd_noronha<-extract(bio2_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio2_he_2070_45_extract_mean_noronha<-extract(bio2_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio2_he_2070_45_extract_sd_noronha<-extract(bio2_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio2_he_2070_85_extract_mean_noronha<-extract(bio2_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio2_he_2070_85_extract_sd_noronha<-extract(bio2_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio3_present_extract_mean_noronha<-extract(bio3_present,noronha[1], fun=mean, na.rm=TRUE)
bio3_present_extract_sd_noronha<-extract(bio3_present,noronha[1], fun=sd, na.rm=TRUE)
bio3_he_2050_45_extract_mean_noronha<-extract(bio3_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio3_he_2050_45_extract_sd_noronha<-extract(bio3_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio3_he_2050_85_extract_mean_noronha<-extract(bio3_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio3_he_2050_85_extract_sd_noronha<-extract(bio3_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio3_he_2070_45_extract_mean_noronha<-extract(bio3_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio3_he_2070_45_extract_sd_noronha<-extract(bio3_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio3_he_2070_85_extract_mean_noronha<-extract(bio3_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio3_he_2070_85_extract_sd_noronha<-extract(bio3_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
)
bio4_present_extract_mean_noronha<-extract(bio4_present,noronha[1], fun=mean, na.rm=TRUE)
bio4_present_extract_sd_noronha<-extract(bio4_present,noronha[1], fun=sd, na.rm=TRUE)
bio4_he_2050_45_extract_mean_noronha<-extract(bio4_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio4_he_2050_45_extract_sd_noronha<-extract(bio4_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio4_he_2050_85_extract_mean_noronha<-extract(bio4_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio4_he_2050_85_extract_sd_noronha<-extract(bio4_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio4_he_2070_45_extract_mean_noronha<-extract(bio4_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio4_he_2070_45_extract_sd_noronha<-extract(bio4_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio4_he_2070_85_extract_mean_noronha<-extract(bio4_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio4_he_2070_85_extract_sd_noronha<-extract(bio4_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio5_present_extract_mean_noronha<-extract(bio5_present,noronha[1], fun=mean, na.rm=TRUE)
bio5_present_extract_sd_noronha<-extract(bio5_present,noronha[1], fun=sd, na.rm=TRUE)
bio5_he_2050_45_extract_mean_noronha<-extract(bio5_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio5_he_2050_45_extract_sd_noronha<-extract(bio5_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio5_he_2050_85_extract_mean_noronha<-extract(bio5_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio5_he_2050_85_extract_sd_noronha<-extract(bio5_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio5_he_2070_45_extract_mean_noronha<-extract(bio5_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio5_he_2070_45_extract_sd_noronha<-extract(bio5_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio5_he_2070_85_extract_mean_noronha<-extract(bio5_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio5_he_2070_85_extract_sd_noronha<-extract(bio5_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio6_present_extract_mean_noronha<-extract(bio6_present,noronha[1], fun=mean, na.rm=TRUE)
bio6_present_extract_sd_noronha<-extract(bio6_present,noronha[1], fun=sd, na.rm=TRUE)
bio6_he_2050_45_extract_mean_noronha<-extract(bio6_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio6_he_2050_45_extract_sd_noronha<-extract(bio6_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio6_he_2050_85_extract_mean_noronha<-extract(bio6_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio6_he_2050_85_extract_sd_noronha<-extract(bio6_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio6_he_2070_45_extract_mean_noronha<-extract(bio6_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio6_he_2070_45_extract_sd_noronha<-extract(bio6_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio6_he_2070_85_extract_mean_noronha<-extract(bio6_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio6_he_2070_85_extract_sd_noronha<-extract(bio6_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio7_present_extract_mean_noronha<-extract(bio7_present,noronha[1], fun=mean, na.rm=TRUE)
bio7_present_extract_sd_noronha<-extract(bio7_present,noronha[1], fun=sd, na.rm=TRUE)
bio7_he_2050_45_extract_mean_noronha<-extract(bio7_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio7_he_2050_45_extract_sd_noronha<-extract(bio7_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio7_he_2050_85_extract_mean_noronha<-extract(bio7_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio7_he_2050_85_extract_sd_noronha<-extract(bio7_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio7_he_2070_45_extract_mean_noronha<-extract(bio7_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
```

```
bio7_he_2070_45_extract_sd_noronha<-extract(bio7_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio7_he_2070_85_extract_mean_noronha<-extract(bio7_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio7_he_2070_85_extract_sd_noronha<-extract(bio7_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio8_present_extract_mean_noronha<-extract(bio8_present,noronha[1], fun=mean, na.rm=TRUE)
bio8_present_extract_sd_noronha<-extract(bio8_present,noronha[1], fun=sd, na.rm=TRUE)
bio8_he_2050_45_extract_mean_noronha<-extract(bio8_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio8_he_2050_45_extract_sd_noronha<-extract(bio8_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio8_he_2050_85_extract_mean_noronha<-extract(bio8_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio8_he_2050_85_extract_sd_noronha<-extract(bio8_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio8_he_2070_45_extract_mean_noronha<-extract(bio8_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio8_he_2070_45_extract_sd_noronha<-extract(bio8_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio8_he_2070_85_extract_mean_noronha<-extract(bio8_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio8_he_2070_85_extract_sd_noronha<-extract(bio8_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio9_present_extract_mean_noronha<-extract(bio9_present,noronha[1], fun=mean, na.rm=TRUE)
bio9_present_extract_sd_noronha<-extract(bio9_present,noronha[1], fun=sd, na.rm=TRUE)
bio9_he_2050_45_extract_mean_noronha<-extract(bio9_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio9_he_2050_45_extract_sd_noronha<-extract(bio9_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio9_he_2050_85_extract_mean_noronha<-extract(bio9_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio9_he_2050_85_extract_sd_noronha<-extract(bio9_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio9_he_2070_45_extract_mean_noronha<-extract(bio9_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio9_he_2070_45_extract_sd_noronha<-extract(bio9_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio9_he_2070_85_extract_mean_noronha<-extract(bio9_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio9_he_2070_85_extract_sd_noronha<-extract(bio9_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio10_present_extract_mean_noronha<-extract(bio10_present,noronha[1], fun=mean, na.rm=TRUE)
bio10_present_extract_sd_noronha<-extract(bio10_present,noronha[1], fun=sd, na.rm=TRUE)
bio10_he_2050_45_extract_mean_noronha<-extract(bio10_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio10_he_2050_45_extract_sd_noronha<-extract(bio10_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio10_he_2050_85_extract_mean_noronha<-extract(bio10_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio10_he_2050_85_extract_sd_noronha<-extract(bio10_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio10_he_2070_45_extract_mean_noronha<-extract(bio10_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio10_he_2070_45_extract_sd_noronha<-extract(bio10_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio10_he_2070_85_extract_mean_noronha<-extract(bio10_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio10_he_2070_85_extract_sd_noronha<-extract(bio10_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio11_present_extract_mean_noronha<-extract(bio11_present,noronha[1], fun=mean, na.rm=TRUE)
bio11_present_extract_sd_noronha<-extract(bio11_present,noronha[1], fun=sd, na.rm=TRUE)
bio11_he_2050_45_extract_mean_noronha<-extract(bio11_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio11_he_2050_45_extract_sd_noronha<-extract(bio11_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio11_he_2050_85_extract_mean_noronha<-extract(bio11_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio11_he_2050_85_extract_sd_noronha<-extract(bio11_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio11_he_2070_45_extract_mean_noronha<-extract(bio11_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio11_he_2070_45_extract_sd_noronha<-extract(bio11_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio11_he_2070_85_extract_mean_noronha<-extract(bio11_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio11_he_2070_85_extract_sd_noronha<-extract(bio11_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio12_present_extract_mean_noronha<-extract(bio12_present,noronha[1], fun=mean, na.rm=TRUE)
bio12_present_extract_sd_noronha<-extract(bio12_present,noronha[1], fun=sd, na.rm=TRUE)
bio12_he_2050_45_extract_mean_noronha<-extract(bio12_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio12_he_2050_45_extract_sd_noronha<-extract(bio12_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio12_he_2050_85_extract_mean_noronha<-extract(bio12_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio12_he_2050_85_extract_sd_noronha<-extract(bio12_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio12_he_2070_45_extract_mean_noronha<-extract(bio12_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio12_he_2070_45_extract_sd_noronha<-extract(bio12_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio12_he_2070_85_extract_mean_noronha<-extract(bio12_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio12_he_2070_85_extract_sd_noronha<-extract(bio12_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio13_present_extract_mean_noronha<-extract(bio13_present,noronha[1], fun=mean, na.rm=TRUE)
bio13_present_extract_sd_noronha<-extract(bio13_present,noronha[1], fun=sd, na.rm=TRUE)
bio13_he_2050_45_extract_mean_noronha<-extract(bio13_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio13_he_2050_45_extract_sd_noronha<-extract(bio13_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio13_he_2050_85_extract_mean_noronha<-extract(bio13_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio13_he_2050_85_extract_sd_noronha<-extract(bio13_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio13_he_2070_45_extract_mean_noronha<-extract(bio13_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
```

```
bio13_he_2070_45_extract_sd_noronha<-extract(bio13_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio13_he_2070_85_extract_mean_noronha<-extract(bio13_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio13_he_2070_85_extract_sd_noronha<-extract(bio13_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio14_present_extract_mean_noronha<-extract(bio14_present,noronha[1], fun=mean, na.rm=TRUE)
bio14_present_extract_sd_noronha<-extract(bio14_present,noronha[1], fun=sd, na.rm=TRUE)
bio14_he_2050_45_extract_mean_noronha<-extract(bio14_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio14_he_2050_45_extract_sd_noronha<-extract(bio14_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio14_he_2050_85_extract_mean_noronha<-extract(bio14_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio14_he_2050_85_extract_sd_noronha<-extract(bio14_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio14_he_2070_45_extract_mean_noronha<-extract(bio14_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio14_he_2070_45_extract_sd_noronha<-extract(bio14_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio14_he_2070_85_extract_mean_noronha<-extract(bio14_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio14_he_2070_85_extract_sd_noronha<-extract(bio14_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio15_present_extract_mean_noronha<-extract(bio15_present,noronha[1], fun=mean, na.rm=TRUE)
bio15_present_extract_sd_noronha<-extract(bio15_present,noronha[1], fun=sd, na.rm=TRUE)
bio15_he_2050_45_extract_mean_noronha<-extract(bio15_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio15_he_2050_45_extract_sd_noronha<-extract(bio15_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio15_he_2050_85_extract_mean_noronha<-extract(bio15_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio15_he_2050_85_extract_sd_noronha<-extract(bio15_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio15_he_2070_45_extract_mean_noronha<-extract(bio15_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio15_he_2070_45_extract_sd_noronha<-extract(bio15_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio15_he_2070_85_extract_mean_noronha<-extract(bio15_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio15_he_2070_85_extract_sd_noronha<-extract(bio15_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio16_present_extract_mean_noronha<-extract(bio16_present,noronha[1], fun=mean, na.rm=TRUE)
bio16_present_extract_sd_noronha<-extract(bio16_present,noronha[1], fun=sd, na.rm=TRUE)
bio16_he_2050_45_extract_mean_noronha<-extract(bio16_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio16_he_2050_45_extract_sd_noronha<-extract(bio16_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio16_he_2050_85_extract_mean_noronha<-extract(bio16_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio16_he_2050_85_extract_sd_noronha<-extract(bio16_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio16_he_2070_45_extract_mean_noronha<-extract(bio16_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio16_he_2070_45_extract_sd_noronha<-extract(bio16_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio16_he_2070_85_extract_mean_noronha<-extract(bio16_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio16_he_2070_85_extract_sd_noronha<-extract(bio16_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio17_present_extract_mean_noronha<-extract(bio17_present,noronha[1], fun=mean, na.rm=TRUE)
bio17_present_extract_sd_noronha<-extract(bio17_present,noronha[1], fun=sd, na.rm=TRUE)
bio17_he_2050_45_extract_mean_noronha<-extract(bio17_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio17_he_2050_45_extract_sd_noronha<-extract(bio17_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio17_he_2050_85_extract_mean_noronha<-extract(bio17_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio17_he_2050_85_extract_sd_noronha<-extract(bio17_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio17_he_2070_45_extract_mean_noronha<-extract(bio17_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio17_he_2070_45_extract_sd_noronha<-extract(bio17_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio17_he_2070_85_extract_mean_noronha<-extract(bio17_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio17_he_2070_85_extract_sd_noronha<-extract(bio17_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio18_present_extract_mean_noronha<-extract(bio18_present,noronha[1], fun=mean, na.rm=TRUE)
bio18_present_extract_sd_noronha<-extract(bio18_present,noronha[1], fun=sd, na.rm=TRUE)
bio18_he_2050_45_extract_mean_noronha<-extract(bio18_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio18_he_2050_45_extract_sd_noronha<-extract(bio18_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio18_he_2050_85_extract_mean_noronha<-extract(bio18_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio18_he_2050_85_extract_sd_noronha<-extract(bio18_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio18_he_2070_45_extract_mean_noronha<-extract(bio18_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
bio18_he_2070_45_extract_sd_noronha<-extract(bio18_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio18_he_2070_85_extract_mean_noronha<-extract(bio18_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio18_he_2070_85_extract_sd_noronha<-extract(bio18_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio19_present_extract_mean_noronha<-extract(bio19_present,noronha[1], fun=mean, na.rm=TRUE)
bio19_present_extract_sd_noronha<-extract(bio19_present,noronha[1], fun=sd, na.rm=TRUE)
bio19_he_2050_45_extract_mean_noronha<-extract(bio19_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
bio19_he_2050_45_extract_sd_noronha<-extract(bio19_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
bio19_he_2050_85_extract_mean_noronha<-extract(bio19_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
bio19_he_2050_85_extract_sd_noronha<-extract(bio19_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
bio19_he_2070_45_extract_mean_noronha<-extract(bio19_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
```

```
bio19_he_2070_45_extract_sd_noronha<-extract(bio19_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
bio19_he_2070_85_extract_mean_noronha<-extract(bio19_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
bio19_he_2070_85_extract_sd_noronha<-extract(bio19_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
bio19_mr_2070_85_extract_sd_noronha<-extract(bio19_mr_2070_85,noronha[1], fun=sd, na.rm=TRUE)

# tmax
tmax1_present_extract_mean_noronha<-extract(tmax1_present,noronha[1], fun=mean, na.rm=TRUE)
tmax1_present_extract_sd_noronha<-extract(tmax1_present,noronha[1], fun=sd, na.rm=TRUE)
tmax1_he_2050_45_extract_mean_noronha<-extract(tmax1_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmax1_he_2050_45_extract_sd_noronha<-extract(tmax1_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax1_he_2050_85_extract_mean_noronha<-extract(tmax1_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmax1_he_2050_85_extract_sd_noronha<-extract(tmax1_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax1_he_2070_45_extract_mean_noronha<-extract(tmax1_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmax1_he_2070_45_extract_sd_noronha<-extract(tmax1_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax1_he_2070_85_extract_mean_noronha<-extract(tmax1_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmax1_he_2070_85_extract_sd_noronha<-extract(tmax1_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax2_present_extract_mean_noronha<-extract(tmax2_present,noronha[1], fun=mean, na.rm=TRUE)
tmax2_present_extract_sd_noronha<-extract(tmax2_present,noronha[1], fun=sd, na.rm=TRUE)
tmax2_he_2050_45_extract_mean_noronha<-extract(tmax2_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmax2_he_2050_45_extract_sd_noronha<-extract(tmax2_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax2_he_2050_85_extract_mean_noronha<-extract(tmax2_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmax2_he_2050_85_extract_sd_noronha<-extract(tmax2_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax2_he_2070_45_extract_mean_noronha<-extract(tmax2_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmax2_he_2070_45_extract_sd_noronha<-extract(tmax2_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax2_he_2070_85_extract_mean_noronha<-extract(tmax2_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmax2_he_2070_85_extract_sd_noronha<-extract(tmax2_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax3_present_extract_mean_noronha<-extract(tmax3_present,noronha[1], fun=mean, na.rm=TRUE)
tmax3_present_extract_sd_noronha<-extract(tmax3_present,noronha[1], fun=sd, na.rm=TRUE)
tmax3_he_2050_45_extract_mean_noronha<-extract(tmax3_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmax3_he_2050_45_extract_sd_noronha<-extract(tmax3_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax3_he_2050_85_extract_mean_noronha<-extract(tmax3_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmax3_he_2050_85_extract_sd_noronha<-extract(tmax3_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax3_he_2070_45_extract_mean_noronha<-extract(tmax3_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmax3_he_2070_45_extract_sd_noronha<-extract(tmax3_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax3_he_2070_85_extract_mean_noronha<-extract(tmax3_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmax3_he_2070_85_extract_sd_noronha<-extract(tmax3_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax4_present_extract_mean_noronha<-extract(tmax4_present,noronha[1], fun=mean, na.rm=TRUE)
tmax4_present_extract_sd_noronha<-extract(tmax4_present,noronha[1], fun=sd, na.rm=TRUE)
tmax4_he_2050_45_extract_mean_noronha<-extract(tmax4_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmax4_he_2050_45_extract_sd_noronha<-extract(tmax4_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax4_he_2050_85_extract_mean_noronha<-extract(tmax4_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmax4_he_2050_85_extract_sd_noronha<-extract(tmax4_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax4_he_2070_45_extract_mean_noronha<-extract(tmax4_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmax4_he_2070_45_extract_sd_noronha<-extract(tmax4_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax4_he_2070_85_extract_mean_noronha<-extract(tmax4_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmax4_he_2070_85_extract_sd_noronha<-extract(tmax4_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax5_present_extract_mean_noronha<-extract(tmax5_present,noronha[1], fun=mean, na.rm=TRUE)
tmax5_present_extract_sd_noronha<-extract(tmax5_present,noronha[1], fun=sd, na.rm=TRUE)
tmax5_he_2050_45_extract_mean_noronha<-extract(tmax5_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmax5_he_2050_45_extract_sd_noronha<-extract(tmax5_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax5_he_2050_85_extract_mean_noronha<-extract(tmax5_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmax5_he_2050_85_extract_sd_noronha<-extract(tmax5_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax5_he_2070_45_extract_mean_noronha<-extract(tmax5_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmax5_he_2070_45_extract_sd_noronha<-extract(tmax5_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax5_he_2070_85_extract_mean_noronha<-extract(tmax5_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmax5_he_2070_85_extract_sd_noronha<-extract(tmax5_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax6_present_extract_mean_noronha<-extract(tmax6_present,noronha[1], fun=mean, na.rm=TRUE)
tmax6_present_extract_sd_noronha<-extract(tmax6_present,noronha[1], fun=sd, na.rm=TRUE)
tmax6_he_2050_45_extract_mean_noronha<-extract(tmax6_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmax6_he_2050_45_extract_sd_noronha<-extract(tmax6_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
```

```
tmax6_he_2050_85_extract_mean_noronha<-extract(tmax6_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmax6_he_2050_85_extract_sd_noronha<-extract(tmax6_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax6_he_2070_45_extract_mean_noronha<-extract(tmax6_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmax6_he_2070_45_extract_sd_noronha<-extract(tmax6_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax6_he_2070_85_extract_mean_noronha<-extract(tmax6_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmax6_he_2070_85_extract_sd_noronha<-extract(tmax6_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax7_present_extract_mean_noronha<-extract(tmax7_present,noronha[1], fun=mean, na.rm=TRUE)
tmax7_present_extract_sd_noronha<-extract(tmax7_present,noronha[1], fun=sd, na.rm=TRUE)
tmax7_he_2050_45_extract_mean_noronha<-extract(tmax7_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmax7_he_2050_45_extract_sd_noronha<-extract(tmax7_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax7_he_2050_85_extract_mean_noronha<-extract(tmax7_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmax7_he_2050_85_extract_sd_noronha<-extract(tmax7_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax7_he_2070_45_extract_mean_noronha<-extract(tmax7_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmax7_he_2070_45_extract_sd_noronha<-extract(tmax7_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax7_he_2070_85_extract_mean_noronha<-extract(tmax7_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmax7_he_2070_85_extract_sd_noronha<-extract(tmax7_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax8_present_extract_mean_noronha<-extract(tmax8_present,noronha[1], fun=mean, na.rm=TRUE)
tmax8_present_extract_sd_noronha<-extract(tmax8_present,noronha[1], fun=sd, na.rm=TRUE)
tmax8_he_2050_45_extract_mean_noronha<-extract(tmax8_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmax8_he_2050_45_extract_sd_noronha<-extract(tmax8_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax8_he_2050_85_extract_mean_noronha<-extract(tmax8_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmax8_he_2050_85_extract_sd_noronha<-extract(tmax8_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax8_he_2070_45_extract_mean_noronha<-extract(tmax8_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmax8_he_2070_45_extract_sd_noronha<-extract(tmax8_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax8_he_2070_85_extract_mean_noronha<-extract(tmax8_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmax8_he_2070_85_extract_sd_noronha<-extract(tmax8_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax9_present_extract_mean_noronha<-extract(tmax9_present,noronha[1], fun=mean, na.rm=TRUE)
tmax9_present_extract_sd_noronha<-extract(tmax9_present,noronha[1], fun=sd, na.rm=TRUE)
tmax9_he_2050_45_extract_mean_noronha<-extract(tmax9_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmax9_he_2050_45_extract_sd_noronha<-extract(tmax9_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax9_he_2050_85_extract_mean_noronha<-extract(tmax9_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmax9_he_2050_85_extract_sd_noronha<-extract(tmax9_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax9_he_2070_45_extract_mean_noronha<-extract(tmax9_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmax9_he_2070_45_extract_sd_noronha<-extract(tmax9_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax9_he_2070_85_extract_mean_noronha<-extract(tmax9_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmax9_he_2070_85_extract_sd_noronha<-extract(tmax9_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax9_mr_2050_45_extract_mean_noronha<-extract(tmax9_mr_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
tmax10_present_extract_mean_noronha<-extract(tmax10_present,noronha[1], fun=mean, na.rm=TRUE)
tmax10_present_extract_sd_noronha<-extract(tmax10_present,noronha[1], fun=sd, na.rm=TRUE)
tmax10_he_2050_45_extract_mean_noronha<-extract(tmax10_he_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
tmax10_he_2050_45_extract_sd_noronha<-extract(tmax10_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax10_he_2050_85_extract_mean_noronha<-extract(tmax10_he_2050_85,noronha[1], fun=mean,
na.rm=TRUE)
tmax10_he_2050_85_extract_sd_noronha<-extract(tmax10_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax10_he_2070_45_extract_mean_noronha<-extract(tmax10_he_2070_45,noronha[1], fun=mean,
na.rm=TRUE)
tmax10_he_2070_45_extract_sd_noronha<-extract(tmax10_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax10_he_2070_85_extract_mean_noronha<-extract(tmax10_he_2070_85,noronha[1], fun=mean,
na.rm=TRUE)
tmax10_he_2070_85_extract_sd_noronha<-extract(tmax10_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax11_present_extract_mean_noronha<-extract(tmax11_present,noronha[1], fun=mean, na.rm=TRUE)
tmax11_present_extract_sd_noronha<-extract(tmax11_present,noronha[1], fun=sd, na.rm=TRUE)
tmax11_he_2050_45_extract_mean_noronha<-extract(tmax11_he_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
tmax11_he_2050_45_extract_sd_noronha<-extract(tmax11_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax11_he_2050_85_extract_mean_noronha<-extract(tmax11_he_2050_85,noronha[1], fun=mean,
na.rm=TRUE)
tmax11_he_2050_85_extract_sd_noronha<-extract(tmax11_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
```

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tmax11_he_2070_45_extract_mean_noronha<-extract(tmax11_he_2070_45,noronha[1], fun=mean,
na.rm=TRUE)
tmax11_he_2070_45_extract_sd_noronha<-extract(tmax11_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax11_he_2070_85_extract_mean_noronha<-extract(tmax11_he_2070_85,noronha[1], fun=mean,
na.rm=TRUE)
tmax11_he_2070_85_extract_sd_noronha<-extract(tmax11_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmax12_present_extract_mean_noronha<-extract(tmax12_present,noronha[1], fun=mean, na.rm=TRUE)
tmax12_present_extract_sd_noronha<-extract(tmax12_present,noronha[1], fun=sd, na.rm=TRUE)
tmax12_he_2050_45_extract_mean_noronha<-extract(tmax12_he_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
tmax12_he_2050_45_extract_sd_noronha<-extract(tmax12_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmax12_he_2050_85_extract_mean_noronha<-extract(tmax12_he_2050_85,noronha[1], fun=mean,
na.rm=TRUE)
tmax12_he_2050_85_extract_sd_noronha<-extract(tmax12_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmax12_he_2070_45_extract_mean_noronha<-extract(tmax12_he_2070_45,noronha[1], fun=mean,
na.rm=TRUE)
tmax12_he_2070_45_extract_sd_noronha<-extract(tmax12_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmax12_he_2070_85_extract_mean_noronha<-extract(tmax12_he_2070_85,noronha[1], fun=mean,
na.rm=TRUE)
tmax12_he_2070_85_extract_sd_noronha<-extract(tmax12_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
# tmin
tmin1_present_extract_mean_noronha<-extract(tmin1_present,noronha[1], fun=mean, na.rm=TRUE)
tmin1_present_extract_sd_noronha<-extract(tmin1_present,noronha[1], fun=sd, na.rm=TRUE)
tmin1_he_2050_45_extract_mean_noronha<-extract(tmin1_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmin1_he_2050_45_extract_sd_noronha<-extract(tmin1_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin1_he_2050_85_extract_mean_noronha<-extract(tmin1_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmin1_he_2050_85_extract_sd_noronha<-extract(tmin1_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin1_he_2070_45_extract_mean_noronha<-extract(tmin1_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmin1_he_2070_45_extract_sd_noronha<-extract(tmin1_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin1_he_2070_85_extract_mean_noronha<-extract(tmin1_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmin1_he_2070_85_extract_sd_noronha<-extract(tmin1_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin2_present_extract_mean_noronha<-extract(tmin2_present,noronha[1], fun=mean, na.rm=TRUE)
tmin2_present_extract_sd_noronha<-extract(tmin2_present,noronha[1], fun=sd, na.rm=TRUE)
tmin2_he_2050_45_extract_mean_noronha<-extract(tmin2_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmin2_he_2050_45_extract_sd_noronha<-extract(tmin2_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin2_he_2050_85_extract_mean_noronha<-extract(tmin2_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmin2_he_2050_85_extract_sd_noronha<-extract(tmin2_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin2_he_2070_45_extract_mean_noronha<-extract(tmin2_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmin2_he_2070_45_extract_sd_noronha<-extract(tmin2_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin2_he_2070_85_extract_mean_noronha<-extract(tmin2_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmin2_he_2070_85_extract_sd_noronha<-extract(tmin2_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin3_present_extract_mean_noronha<-extract(tmin3_present,noronha[1], fun=mean, na.rm=TRUE)
tmin3_present_extract_sd_noronha<-extract(tmin3_present,noronha[1], fun=sd, na.rm=TRUE)
tmin3_he_2050_45_extract_mean_noronha<-extract(tmin3_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmin3_he_2050_45_extract_sd_noronha<-extract(tmin3_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin3_he_2050_85_extract_mean_noronha<-extract(tmin3_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmin3_he_2050_85_extract_sd_noronha<-extract(tmin3_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin3_he_2070_45_extract_mean_noronha<-extract(tmin3_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmin3_he_2070_45_extract_sd_noronha<-extract(tmin3_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin3_he_2070_85_extract_mean_noronha<-extract(tmin3_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmin3_he_2070_85_extract_sd_noronha<-extract(tmin3_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin4_present_extract_mean_noronha<-extract(tmin4_present,noronha[1], fun=mean, na.rm=TRUE)
tmin4_present_extract_sd_noronha<-extract(tmin4_present,noronha[1], fun=sd, na.rm=TRUE)
tmin4_he_2050_45_extract_mean_noronha<-extract(tmin4_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmin4_he_2050_45_extract_sd_noronha<-extract(tmin4_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin4_he_2050_85_extract_mean_noronha<-extract(tmin4_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmin4_he_2050_85_extract_sd_noronha<-extract(tmin4_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin4_he_2070_45_extract_mean_noronha<-extract(tmin4_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmin4_he_2070_45_extract_sd_noronha<-extract(tmin4_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin4_he_2070_85_extract_mean_noronha<-extract(tmin4_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
```

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tmin4_he_2070_85_extract_sd_noronha<-extract(tmin4_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin5_present_extract_mean_noronha<-extract(tmin5_present,noronha[1], fun=mean, na.rm=TRUE)
tmin5_present_extract_sd_noronha<-extract(tmin5_present,noronha[1], fun=sd, na.rm=TRUE)
tmin5_he_2050_45_extract_mean_noronha<-extract(tmin5_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmin5_he_2050_45_extract_sd_noronha<-extract(tmin5_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin5_he_2050_85_extract_mean_noronha<-extract(tmin5_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmin5_he_2050_85_extract_sd_noronha<-extract(tmin5_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin5_he_2070_45_extract_mean_noronha<-extract(tmin5_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmin5_he_2070_45_extract_sd_noronha<-extract(tmin5_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin5_he_2070_85_extract_mean_noronha<-extract(tmin5_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmin5_he_2070_85_extract_sd_noronha<-extract(tmin5_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin6_present_extract_mean_noronha<-extract(tmin6_present,noronha[1], fun=mean, na.rm=TRUE)
tmin6_present_extract_sd_noronha<-extract(tmin6_present,noronha[1], fun=sd, na.rm=TRUE)
tmin6_he_2050_45_extract_mean_noronha<-extract(tmin6_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmin6_he_2050_45_extract_sd_noronha<-extract(tmin6_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin6_he_2050_85_extract_mean_noronha<-extract(tmin6_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmin6_he_2050_85_extract_sd_noronha<-extract(tmin6_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin6_he_2070_45_extract_mean_noronha<-extract(tmin6_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmin6_he_2070_45_extract_sd_noronha<-extract(tmin6_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin6_he_2070_85_extract_mean_noronha<-extract(tmin6_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmin6_he_2070_85_extract_sd_noronha<-extract(tmin6_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin7_present_extract_mean_noronha<-extract(tmin7_present,noronha[1], fun=mean, na.rm=TRUE)
tmin7_present_extract_sd_noronha<-extract(tmin7_present,noronha[1], fun=sd, na.rm=TRUE)
tmin7_he_2050_45_extract_mean_noronha<-extract(tmin7_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmin7_he_2050_45_extract_sd_noronha<-extract(tmin7_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin7_he_2050_85_extract_mean_noronha<-extract(tmin7_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmin7_he_2050_85_extract_sd_noronha<-extract(tmin7_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin7_he_2070_45_extract_mean_noronha<-extract(tmin7_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmin7_he_2070_45_extract_sd_noronha<-extract(tmin7_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin7_he_2070_85_extract_mean_noronha<-extract(tmin7_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmin7_he_2070_85_extract_sd_noronha<-extract(tmin7_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin8_present_extract_mean_noronha<-extract(tmin8_present,noronha[1], fun=mean, na.rm=TRUE)
tmin8_present_extract_sd_noronha<-extract(tmin8_present,noronha[1], fun=sd, na.rm=TRUE)
tmin8_he_2050_45_extract_mean_noronha<-extract(tmin8_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmin8_he_2050_45_extract_sd_noronha<-extract(tmin8_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin8_he_2050_85_extract_mean_noronha<-extract(tmin8_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmin8_he_2050_85_extract_sd_noronha<-extract(tmin8_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin8_he_2070_45_extract_mean_noronha<-extract(tmin8_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmin8_he_2070_45_extract_sd_noronha<-extract(tmin8_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin8_he_2070_85_extract_mean_noronha<-extract(tmin8_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmin8_he_2070_85_extract_sd_noronha<-extract(tmin8_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin9_present_extract_mean_noronha<-extract(tmin9_present,noronha[1], fun=mean, na.rm=TRUE)
tmin9_present_extract_sd_noronha<-extract(tmin9_present,noronha[1], fun=sd, na.rm=TRUE)
tmin9_he_2050_45_extract_mean_noronha<-extract(tmin9_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
tmin9_he_2050_45_extract_sd_noronha<-extract(tmin9_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin9_he_2050_85_extract_mean_noronha<-extract(tmin9_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
tmin9_he_2050_85_extract_sd_noronha<-extract(tmin9_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin9_he_2070_45_extract_mean_noronha<-extract(tmin9_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
tmin9_he_2070_45_extract_sd_noronha<-extract(tmin9_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin9_he_2070_85_extract_mean_noronha<-extract(tmin9_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
tmin9_he_2070_85_extract_sd_noronha<-extract(tmin9_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin10_present_extract_mean_noronha<-extract(tmin10_present,noronha[1], fun=mean, na.rm=TRUE)
tmin10_present_extract_sd_noronha<-extract(tmin10_present,noronha[1], fun=sd, na.rm=TRUE)
tmin10_he_2050_45_extract_mean_noronha<-extract(tmin10_he_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
tmin10_he_2050_45_extract_sd_noronha<-extract(tmin10_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin10_he_2050_85_extract_mean_noronha<-extract(tmin10_he_2050_85,noronha[1], fun=mean,
na.rm=TRUE)
tmin10_he_2050_85_extract_sd_noronha<-extract(tmin10_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
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tmin10_he_2070_45_extract_mean_noronha<-extract(tmin10_he_2070_45,noronha[1], fun=mean,
na.rm=TRUE)
tmin10_he_2070_45_extract_sd_noronha<-extract(tmin10_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin10_he_2070_85_extract_mean_noronha<-extract(tmin10_he_2070_85,noronha[1], fun=mean,
na.rm=TRUE)
tmin10_he_2070_85_extract_sd_noronha<-extract(tmin10_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin11_present_extract_mean_noronha<-extract(tmin11_present,noronha[1], fun=mean, na.rm=TRUE)
tmin11_present_extract_sd_noronha<-extract(tmin11_present,noronha[1], fun=sd, na.rm=TRUE)
tmin11_he_2050_45_extract_mean_noronha<-extract(tmin11_he_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
tmin11_he_2050_45_extract_sd_noronha<-extract(tmin11_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin11_he_2050_85_extract_mean_noronha<-extract(tmin11_he_2050_85,noronha[1], fun=mean,
na.rm=TRUE)
tmin11_he_2050_85_extract_sd_noronha<-extract(tmin11_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin11_he_2070_45_extract_mean_noronha<-extract(tmin11_he_2070_45,noronha[1], fun=mean,
na.rm=TRUE)
tmin11_he_2070_45_extract_sd_noronha<-extract(tmin11_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin11_he_2070_85_extract_mean_noronha<-extract(tmin11_he_2070_85,noronha[1], fun=mean,
na.rm=TRUE)
tmin11_he_2070_85_extract_sd_noronha<-extract(tmin11_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
tmin12_present_extract_mean_noronha<-extract(tmin12_present,noronha[1], fun=mean, na.rm=TRUE)
tmin12_present_extract_sd_noronha<-extract(tmin12_present,noronha[1], fun=sd, na.rm=TRUE)
tmin12_he_2050_45_extract_mean_noronha<-extract(tmin12_he_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
tmin12_he_2050_45_extract_sd_noronha<-extract(tmin12_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
tmin12_he_2050_85_extract_mean_noronha<-extract(tmin12_he_2050_85,noronha[1], fun=mean,
na.rm=TRUE)
tmin12_he_2050_85_extract_sd_noronha<-extract(tmin12_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
tmin12_he_2070_45_extract_mean_noronha<-extract(tmin12_he_2070_45,noronha[1], fun=mean,
na.rm=TRUE)
tmin12_he_2070_45_extract_sd_noronha<-extract(tmin12_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
tmin12_he_2070_85_extract_mean_noronha<-extract(tmin12_he_2070_85,noronha[1], fun=mean,
na.rm=TRUE)
tmin12_he_2070_85_extract_sd_noronha<-extract(tmin12_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
# prec
prec1_present_extract_mean_noronha<-extract(prec1_present,noronha[1], fun=mean, na.rm=TRUE)
prec1_present_extract_sd_noronha<-extract(prec1_present,noronha[1], fun=sd, na.rm=TRUE)
prec1_he_2050_45_extract_mean_noronha<-extract(prec1_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
prec1_he_2050_45_extract_sd_noronha<-extract(prec1_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec1_he_2050_85_extract_mean_noronha<-extract(prec1_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
prec1_he_2050_85_extract_sd_noronha<-extract(prec1_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec1_he_2070_45_extract_mean_noronha<-extract(prec1_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
prec1_he_2070_45_extract_sd_noronha<-extract(prec1_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec1_he_2070_85_extract_mean_noronha<-extract(prec1_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
prec1_he_2070_85_extract_sd_noronha<-extract(prec1_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec2_present_extract_mean_noronha<-extract(prec2_present,noronha[1], fun=mean, na.rm=TRUE)
prec2_present_extract_sd_noronha<-extract(prec2_present,noronha[1], fun=sd, na.rm=TRUE)
prec2_he_2050_45_extract_mean_noronha<-extract(prec2_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
prec2_he_2050_45_extract_sd_noronha<-extract(prec2_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec2_he_2050_85_extract_mean_noronha<-extract(prec2_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
prec2_he_2050_85_extract_sd_noronha<-extract(prec2_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec2_he_2070_45_extract_mean_noronha<-extract(prec2_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
prec2_he_2070_45_extract_sd_noronha<-extract(prec2_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec2_he_2070_85_extract_mean_noronha<-extract(prec2_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
prec2_he_2070_85_extract_sd_noronha<-extract(prec2_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec3_present_extract_mean_noronha<-extract(prec3_present,noronha[1], fun=mean, na.rm=TRUE)
prec3_present_extract_sd_noronha<-extract(prec3_present,noronha[1], fun=sd, na.rm=TRUE)
prec3_he_2050_45_extract_mean_noronha<-extract(prec3_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
prec3_he_2050_45_extract_sd_noronha<-extract(prec3_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec3_he_2050_85_extract_mean_noronha<-extract(prec3_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
```

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prec3_he_2050_85_extract_sd_noronha<-extract(prec3_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec3_he_2070_45_extract_mean_noronha<-extract(prec3_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
prec3_he_2070_45_extract_sd_noronha<-extract(prec3_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec3_he_2070_85_extract_mean_noronha<-extract(prec3_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
prec3_he_2070_85_extract_sd_noronha<-extract(prec3_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec4_present_extract_mean_noronha<-extract(prec4_present,noronha[1], fun=mean, na.rm=TRUE)
prec4_present_extract_sd_noronha<-extract(prec4_present,noronha[1], fun=sd, na.rm=TRUE)
prec4_he_2050_45_extract_mean_noronha<-extract(prec4_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
prec4_he_2050_45_extract_sd_noronha<-extract(prec4_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec4_he_2050_85_extract_mean_noronha<-extract(prec4_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
prec4_he_2050_85_extract_sd_noronha<-extract(prec4_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec4_he_2070_45_extract_mean_noronha<-extract(prec4_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
prec4_he_2070_45_extract_sd_noronha<-extract(prec4_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec4_he_2070_85_extract_mean_noronha<-extract(prec4_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
prec4_he_2070_85_extract_sd_noronha<-extract(prec4_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec5_present_extract_mean_noronha<-extract(prec5_present,noronha[1], fun=mean, na.rm=TRUE)
prec5_present_extract_sd_noronha<-extract(prec5_present,noronha[1], fun=sd, na.rm=TRUE)
prec5_he_2050_45_extract_mean_noronha<-extract(prec5_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
prec5_he_2050_45_extract_sd_noronha<-extract(prec5_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec5_he_2050_85_extract_mean_noronha<-extract(prec5_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
prec5_he_2050_85_extract_sd_noronha<-extract(prec5_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec5_he_2070_45_extract_mean_noronha<-extract(prec5_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
prec5_he_2070_45_extract_sd_noronha<-extract(prec5_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec5_he_2070_85_extract_mean_noronha<-extract(prec5_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
prec5_he_2070_85_extract_sd_noronha<-extract(prec5_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec6_present_extract_mean_noronha<-extract(prec6_present,noronha[1], fun=mean, na.rm=TRUE)
prec6_present_extract_sd_noronha<-extract(prec6_present,noronha[1], fun=sd, na.rm=TRUE)
prec6_he_2050_45_extract_mean_noronha<-extract(prec6_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
prec6_he_2050_45_extract_sd_noronha<-extract(prec6_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec6_he_2050_85_extract_mean_noronha<-extract(prec6_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
prec6_he_2050_85_extract_sd_noronha<-extract(prec6_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec6_he_2070_45_extract_mean_noronha<-extract(prec6_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
prec6_he_2070_45_extract_sd_noronha<-extract(prec6_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec6_he_2070_85_extract_mean_noronha<-extract(prec6_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
prec6_he_2070_85_extract_sd_noronha<-extract(prec6_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec7_present_extract_mean_noronha<-extract(prec7_present,noronha[1], fun=mean, na.rm=TRUE)
prec7_present_extract_sd_noronha<-extract(prec7_present,noronha[1], fun=sd, na.rm=TRUE)
prec7_he_2050_45_extract_mean_noronha<-extract(prec7_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
prec7_he_2050_45_extract_sd_noronha<-extract(prec7_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec7_he_2050_85_extract_mean_noronha<-extract(prec7_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
prec7_he_2050_85_extract_sd_noronha<-extract(prec7_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec7_he_2070_45_extract_mean_noronha<-extract(prec7_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
prec7_he_2070_45_extract_sd_noronha<-extract(prec7_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec7_he_2070_85_extract_mean_noronha<-extract(prec7_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
prec7_he_2070_85_extract_sd_noronha<-extract(prec7_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec8_present_extract_mean_noronha<-extract(prec8_present,noronha[1], fun=mean, na.rm=TRUE)
prec8_present_extract_sd_noronha<-extract(prec8_present,noronha[1], fun=sd, na.rm=TRUE)
prec8_he_2050_45_extract_mean_noronha<-extract(prec8_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
prec8_he_2050_45_extract_sd_noronha<-extract(prec8_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec8_he_2050_85_extract_mean_noronha<-extract(prec8_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
prec8_he_2050_85_extract_sd_noronha<-extract(prec8_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec8_he_2070_45_extract_mean_noronha<-extract(prec8_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
prec8_he_2070_45_extract_sd_noronha<-extract(prec8_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec8_he_2070_85_extract_mean_noronha<-extract(prec8_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
prec8_he_2070_85_extract_sd_noronha<-extract(prec8_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec9_present_extract_mean_noronha<-extract(prec9_present,noronha[1], fun=mean, na.rm=TRUE)
prec9_present_extract_sd_noronha<-extract(prec9_present,noronha[1], fun=sd, na.rm=TRUE)
prec9_he_2050_45_extract_mean_noronha<-extract(prec9_he_2050_45,noronha[1], fun=mean, na.rm=TRUE)
prec9_he_2050_45_extract_sd_noronha<-extract(prec9_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec9_he_2050_85_extract_mean_noronha<-extract(prec9_he_2050_85,noronha[1], fun=mean, na.rm=TRUE)
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prec9_he_2050_85_extract_sd_noronha<-extract(prec9_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec9_he_2070_45_extract_mean_noronha<-extract(prec9_he_2070_45,noronha[1], fun=mean, na.rm=TRUE)
prec9_he_2070_45_extract_sd_noronha<-extract(prec9_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec9_he_2070_85_extract_mean_noronha<-extract(prec9_he_2070_85,noronha[1], fun=mean, na.rm=TRUE)
prec9_he_2070_85_extract_sd_noronha<-extract(prec9_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec10_present_extract_mean_noronha<-extract(prec10_present,noronha[1], fun=mean, na.rm=TRUE)
prec10_present_extract_sd_noronha<-extract(prec10_present,noronha[1], fun=sd, na.rm=TRUE)
prec10_he_2050_45_extract_mean_noronha<-extract(prec10_he_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
prec10_he_2050_45_extract_sd_noronha<-extract(prec10_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec10_he_2050_85_extract_mean_noronha<-extract(prec10_he_2050_85,noronha[1], fun=mean,
na.rm=TRUE)
prec10_he_2050_85_extract_sd_noronha<-extract(prec10_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec10_he_2070_45_extract_mean_noronha<-extract(prec10_he_2070_45,noronha[1], fun=mean,
na.rm=TRUE)
prec10_he_2070_45_extract_sd_noronha<-extract(prec10_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec10_he_2070_85_extract_mean_noronha<-extract(prec10_he_2070_85,noronha[1], fun=mean,
na.rm=TRUE)
prec10_he_2070_85_extract_sd_noronha<-extract(prec10_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec11_present_extract_mean_noronha<-extract(prec11_present,noronha[1], fun=mean, na.rm=TRUE)
prec11_present_extract_sd_noronha<-extract(prec11_present,noronha[1], fun=sd, na.rm=TRUE)
prec11_he_2050_45_extract_mean_noronha<-extract(prec11_he_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
prec11_he_2050_45_extract_sd_noronha<-extract(prec11_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec11_he_2050_85_extract_mean_noronha<-extract(prec11_he_2050_85,noronha[1], fun=mean,
na.rm=TRUE)
prec11_he_2050_85_extract_sd_noronha<-extract(prec11_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec11_he_2070_45_extract_mean_noronha<-extract(prec11_he_2070_45,noronha[1], fun=mean,
na.rm=TRUE)
prec11_he_2070_45_extract_sd_noronha<-extract(prec11_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec11_he_2070_85_extract_mean_noronha<-extract(prec11_he_2070_85,noronha[1], fun=mean,
na.rm=TRUE)
prec11_he_2070_85_extract_sd_noronha<-extract(prec11_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)
prec12_present_extract_mean_noronha<-extract(prec12_present,noronha[1], fun=mean, na.rm=TRUE)
prec12_present_extract_sd_noronha<-extract(prec12_present,noronha[1], fun=sd, na.rm=TRUE)
prec12_he_2050_45_extract_mean_noronha<-extract(prec12_he_2050_45,noronha[1], fun=mean,
na.rm=TRUE)
prec12_he_2050_45_extract_sd_noronha<-extract(prec12_he_2050_45,noronha[1], fun=sd, na.rm=TRUE)
prec12_he_2050_85_extract_mean_noronha<-extract(prec12_he_2050_85,noronha[1], fun=mean,
na.rm=TRUE)
prec12_he_2050_85_extract_sd_noronha<-extract(prec12_he_2050_85,noronha[1], fun=sd, na.rm=TRUE)
prec12_he_2070_45_extract_mean_noronha<-extract(prec12_he_2070_45,noronha[1], fun=mean,
na.rm=TRUE)
prec12_he_2070_45_extract_sd_noronha<-extract(prec12_he_2070_45,noronha[1], fun=sd, na.rm=TRUE)
prec12_he_2070_85_extract_mean_noronha<-extract(prec12_he_2070_85,noronha[1], fun=mean,
na.rm=TRUE)
prec12_he_2070_85_extract_sd_noronha<-extract(prec12_he_2070_85,noronha[1], fun=sd, na.rm=TRUE)

## write table
#bio
Extractions <- data.frame(bio1_present_extract_mean_noronha, bio1_present_extract_sd_noronha,
bio1_he_2050_45_extract_mean_noronha, bio1_he_2050_45_extract_sd_noronha,
bio1_he_2050_85_extract_mean_noronha, bio1_he_2050_85_extract_sd_noronha,
bio1_he_2070_45_extract_mean_noronha, bio1_he_2070_45_extract_sd_noronha,
bio1_he_2070_85_extract_mean_noronha, bio1_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio1.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio2_present_extract_mean_noronha, bio2_present_extract_sd_noronha,
bio2_he_2050_45_extract_mean_noronha, bio2_he_2050_45_extract_sd_noronha,
bio2_he_2050_85_extract_mean_noronha, bio2_he_2050_85_extract_sd_noronha,
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bio2_he_2070_45_extract_mean_noronha, bio2_he_2070_45_extract_sd_noronha,
bio2_he_2070_85_extract_mean_noronha, bio2_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio2.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio3_present_extract_mean_noronha, bio3_present_extract_sd_noronha,
bio3_he_2050_45_extract_mean_noronha, bio3_he_2050_45_extract_sd_noronha,
bio3_he_2050_85_extract_mean_noronha, bio3_he_2050_85_extract_sd_noronha,
bio3_he_2070_45_extract_mean_noronha, bio3_he_2070_45_extract_sd_noronha,
bio3_he_2070_85_extract_mean_noronha, bio3_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio3.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio4_present_extract_mean_noronha, bio4_present_extract_sd_noronha,
bio4_he_2050_45_extract_mean_noronha, bio4_he_2050_45_extract_sd_noronha,
bio4_he_2050_85_extract_mean_noronha, bio4_he_2050_85_extract_sd_noronha,
bio4_he_2070_45_extract_mean_noronha, bio4_he_2070_45_extract_sd_noronha,
bio4_he_2070_85_extract_mean_noronha, bio4_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio4.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio5_present_extract_mean_noronha, bio5_present_extract_sd_noronha,
bio5_he_2050_45_extract_mean_noronha, bio5_he_2050_45_extract_sd_noronha,
bio5_he_2050_85_extract_mean_noronha, bio5_he_2050_85_extract_sd_noronha,
bio5_he_2070_45_extract_mean_noronha, bio5_he_2070_45_extract_sd_noronha,
bio5_he_2070_85_extract_mean_noronha, bio5_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio5.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio6_present_extract_mean_noronha, bio6_present_extract_sd_noronha,
bio6_he_2050_45_extract_mean_noronha, bio6_he_2050_45_extract_sd_noronha,
bio6_he_2050_85_extract_mean_noronha, bio6_he_2050_85_extract_sd_noronha,
bio6_he_2070_45_extract_mean_noronha, bio6_he_2070_45_extract_sd_noronha,
bio6_he_2070_85_extract_mean_noronha, bio6_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio6.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio7_present_extract_mean_noronha, bio7_present_extract_sd_noronha,
bio7_he_2050_45_extract_mean_noronha, bio7_he_2050_45_extract_sd_noronha,
bio7_he_2050_85_extract_mean_noronha, bio7_he_2050_85_extract_sd_noronha,
bio7_he_2070_45_extract_mean_noronha, bio7_he_2070_45_extract_sd_noronha,
bio7_he_2070_85_extract_mean_noronha, bio7_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio7.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio8_present_extract_mean_noronha, bio8_present_extract_sd_noronha,
bio8_he_2050_45_extract_mean_noronha, bio8_he_2050_45_extract_sd_noronha,
bio8_he_2050_85_extract_mean_noronha, bio8_he_2050_85_extract_sd_noronha,
bio8_he_2070_45_extract_mean_noronha, bio8_he_2070_45_extract_sd_noronha,
bio8_he_2070_85_extract_mean_noronha, bio8_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio8.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio9_present_extract_mean_noronha, bio9_present_extract_sd_noronha,
bio9_he_2050_45_extract_mean_noronha, bio9_he_2050_45_extract_sd_noronha,
bio9_he_2050_85_extract_mean_noronha, bio9_he_2050_85_extract_sd_noronha,
bio9_he_2070_45_extract_mean_noronha, bio9_he_2070_45_extract_sd_noronha,
bio9_he_2070_85_extract_mean_noronha, bio9_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio9.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio10_present_extract_mean_noronha, bio10_present_extract_sd_noronha,
bio10_he_2050_45_extract_mean_noronha, bio10_he_2050_45_extract_sd_noronha,
bio10_he_2050_85_extract_mean_noronha, bio10_he_2050_85_extract_sd_noronha,
bio10_he_2070_45_extract_mean_noronha, bio10_he_2070_45_extract_sd_noronha,
bio10_he_2070_85_extract_mean_noronha, bio10_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio10.txt", append=FALSE, quote=TRUE, sep=";")
```

```
extractions<-data.frame(bio11_present_extract_mean_noronha, bio11_present_extract_sd_noronha,
bio11_he_2050_45_extract_mean_noronha, bio11_he_2050_45_extract_sd_noronha,
bio11_he_2050_85_extract_mean_noronha, bio11_he_2050_85_extract_sd_noronha,
bio11_he_2070_45_extract_mean_noronha, bio11_he_2070_45_extract_sd_noronha,
bio11_he_2070_85_extract_mean_noronha, bio11_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio11.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio12_present_extract_mean_noronha, bio12_present_extract_sd_noronha,
bio12_he_2050_45_extract_mean_noronha, bio12_he_2050_45_extract_sd_noronha,
bio12_he_2050_85_extract_mean_noronha, bio12_he_2050_85_extract_sd_noronha,
bio12_he_2070_45_extract_mean_noronha, bio12_he_2070_45_extract_sd_noronha,
bio12_he_2070_85_extract_mean_noronha, bio12_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio12.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio13_present_extract_mean_noronha, bio13_present_extract_sd_noronha,
bio13_he_2050_45_extract_mean_noronha, bio13_he_2050_45_extract_sd_noronha,
bio13_he_2050_85_extract_mean_noronha, bio13_he_2050_85_extract_sd_noronha,
bio13_he_2070_45_extract_mean_noronha, bio13_he_2070_45_extract_sd_noronha,
bio13_he_2070_85_extract_mean_noronha, bio13_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio13.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio14_present_extract_mean_noronha, bio14_present_extract_sd_noronha,
bio14_he_2050_45_extract_mean_noronha, bio14_he_2050_45_extract_sd_noronha,
bio14_he_2050_85_extract_mean_noronha, bio14_he_2050_85_extract_sd_noronha,
bio14_he_2070_45_extract_mean_noronha, bio14_he_2070_45_extract_sd_noronha,
bio14_he_2070_85_extract_mean_noronha, bio14_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio14.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio15_present_extract_mean_noronha, bio15_present_extract_sd_noronha,
bio15_he_2050_45_extract_mean_noronha, bio15_he_2050_45_extract_sd_noronha,
bio15_he_2050_85_extract_mean_noronha, bio15_he_2050_85_extract_sd_noronha,
bio15_he_2070_45_extract_mean_noronha, bio15_he_2070_45_extract_sd_noronha,
bio15_he_2070_85_extract_mean_noronha, bio15_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio15.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio16_present_extract_mean_noronha, bio16_present_extract_sd_noronha,
bio16_he_2050_45_extract_mean_noronha, bio16_he_2050_45_extract_sd_noronha,
bio16_he_2050_85_extract_mean_noronha, bio16_he_2050_85_extract_sd_noronha,
bio16_he_2070_45_extract_mean_noronha, bio16_he_2070_45_extract_sd_noronha,
bio16_he_2070_85_extract_mean_noronha, bio16_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio16.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio17_present_extract_mean_noronha, bio17_present_extract_sd_noronha,
bio17_he_2050_45_extract_mean_noronha, bio17_he_2050_45_extract_sd_noronha,
bio17_he_2050_85_extract_mean_noronha, bio17_he_2050_85_extract_sd_noronha,
bio17_he_2070_45_extract_mean_noronha, bio17_he_2070_45_extract_sd_noronha,
bio17_he_2070_85_extract_mean_noronha, bio17_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio17.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio18_present_extract_mean_noronha, bio18_present_extract_sd_noronha,
bio18_he_2050_45_extract_mean_noronha, bio18_he_2050_45_extract_sd_noronha,
bio18_he_2050_85_extract_mean_noronha, bio18_he_2050_85_extract_sd_noronha,
bio18_he_2070_45_extract_mean_noronha, bio18_he_2070_45_extract_sd_noronha,
bio18_he_2070_85_extract_mean_noronha, bio18_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio18.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(bio19_present_extract_mean_noronha, bio19_present_extract_sd_noronha,
bio19_he_2050_45_extract_mean_noronha, bio19_he_2050_45_extract_sd_noronha,
bio19_he_2050_85_extract_mean_noronha, bio19_he_2050_85_extract_sd_noronha,
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bio19_he_2070_45_extract_mean_noronha, bio19_he_2070_45_extract_sd_noronha,
bio19_he_2070_85_extract_mean_noronha, bio19_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_bio19.txt", append=FALSE, quote=TRUE, sep=";")

 #tmax
extractions<-data.frame(tmax1_present_extract_mean_noronha, tmax1_present_extract_sd_noronha,
tmax1_he_2050_45_extract_mean_noronha, tmax1_he_2050_45_extract_sd_noronha,
tmax1_he_2050_85_extract_mean_noronha, tmax1_he_2050_85_extract_sd_noronha,
tmax1_he_2070_45_extract_mean_noronha, tmax1_he_2070_45_extract_sd_noronha,
tmax1_he_2070_85_extract_mean_noronha, tmax1_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax1.txt", append=FALSE, quote=TRUE, sep=";")

 extractions<-data.frame(tmax2_present_extract_mean_noronha, tmax2_present_extract_sd_noronha,
tmax2_he_2050_45_extract_mean_noronha, tmax2_he_2050_45_extract_sd_noronha,
tmax2_he_2050_85_extract_mean_noronha, tmax2_he_2050_85_extract_sd_noronha,
tmax2_he_2070_45_extract_mean_noronha, tmax2_he_2070_45_extract_sd_noronha,
tmax2_he_2070_85_extract_mean_noronha, tmax2_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax2.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmax3_present_extract_mean_noronha, tmax3_present_extract_sd_noronha,
tmax3_he_2050_45_extract_mean_noronha, tmax3_he_2050_45_extract_sd_noronha,
tmax3_he_2050_85_extract_mean_noronha, tmax3_he_2050_85_extract_sd_noronha,
tmax3_he_2070_45_extract_mean_noronha, tmax3_he_2070_45_extract_sd_noronha,
tmax3_he_2070_85_extract_mean_noronha, tmax3_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax3.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmax4_present_extract_mean_noronha, tmax4_present_extract_sd_noronha,
tmax4_he_2050_45_extract_mean_noronha, tmax4_he_2050_45_extract_sd_noronha,
tmax4_he_2050_85_extract_mean_noronha, tmax4_he_2050_85_extract_sd_noronha,
tmax4_he_2070_45_extract_mean_noronha, tmax4_he_2070_45_extract_sd_noronha,
tmax4_he_2070_85_extract_mean_noronha, tmax4_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax4.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmax5_present_extract_mean_noronha, tmax5_present_extract_sd_noronha,
tmax5_he_2050_45_extract_mean_noronha, tmax5_he_2050_45_extract_sd_noronha,
tmax5_he_2050_85_extract_mean_noronha, tmax5_he_2050_85_extract_sd_noronha,
tmax5_he_2070_45_extract_mean_noronha, tmax5_he_2070_45_extract_sd_noronha,
tmax5_he_2070_85_extract_mean_noronha, tmax5_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax5.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmax6_present_extract_mean_noronha, tmax6_present_extract_sd_noronha,
tmax6_he_2050_45_extract_mean_noronha, tmax6_he_2050_45_extract_sd_noronha,
tmax6_he_2050_85_extract_mean_noronha, tmax6_he_2050_85_extract_sd_noronha,
tmax6_he_2070_45_extract_mean_noronha, tmax6_he_2070_45_extract_sd_noronha,
tmax6_he_2070_85_extract_mean_noronha, tmax6_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax6.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmax7_present_extract_mean_noronha, tmax7_present_extract_sd_noronha,
tmax7_he_2050_45_extract_mean_noronha, tmax7_he_2050_45_extract_sd_noronha,
tmax7_he_2050_85_extract_mean_noronha, tmax7_he_2050_85_extract_sd_noronha,
tmax7_he_2070_45_extract_mean_noronha, tmax7_he_2070_45_extract_sd_noronha,
tmax7_he_2070_85_extract_mean_noronha, tmax7_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax7.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmax8_present_extract_mean_noronha, tmax8_present_extract_sd_noronha,
tmax8_he_2050_45_extract_mean_noronha, tmax8_he_2050_45_extract_sd_noronha,
tmax8_he_2050_85_extract_mean_noronha, tmax8_he_2050_85_extract_sd_noronha,
tmax8_he_2070_45_extract_mean_noronha, max8_he_2070_45_extract_sd_noronha,
tmax8_he_2070_85_extract_mean_noronha, tmax8_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax8.txt", append=FALSE, quote=TRUE, sep=";")
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extractions<-data.frame(tmax9_present_extract_mean_noronha, tmax9_present_extract_sd_noronha,
tmax9_he_2050_45_extract_mean_noronha, tmax9_he_2050_45_extract_sd_noronha,
tmax9_he_2050_85_extract_mean_noronha, tmax9_he_2050_85_extract_sd_noronha,
tmax9_he_2070_45_extract_mean_noronha, tmax9_he_2070_45_extract_sd_noronha,
tmax9_he_2070_85_extract_mean_noronha, tmax9_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax9.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmax10_present_extract_mean_noronha, tmax10_present_extract_sd_noronha,
tmax10_he_2050_45_extract_mean_noronha, tmax10_he_2050_45_extract_sd_noronha,
tmax10_he_2050_85_extract_mean_noronha, tmax10_he_2050_85_extract_sd_noronha,
tmax10_he_2070_45_extract_mean_noronha, tmax10_he_2070_45_extract_sd_noronha,
tmax10_he_2070_85_extract_mean_noronha, tmax10_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax10.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmax11_present_extract_mean_noronha, tmax11_present_extract_sd_noronha,
tmax11_he_2050_45_extract_mean_noronha, tmax11_he_2050_45_extract_sd_noronha,
tmax11_he_2050_85_extract_mean_noronha, tmax11_he_2050_85_extract_sd_noronha,
tmax11_he_2070_45_extract_mean_noronha, tmax11_he_2070_45_extract_sd_noronha,
tmax11_he_2070_85_extract_mean_noronha, tmax11_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax11.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmax12_present_extract_mean_noronha, tmax12_present_extract_sd_noronha,
tmax12_he_2050_45_extract_mean_noronha, tmax12_he_2050_45_extract_sd_noronha,
tmax12_he_2050_85_extract_mean_noronha, tmax12_he_2050_85_extract_sd_noronha,
tmax12_he_2070_45_extract_mean_noronha, tmax12_he_2070_45_extract_sd_noronha,
tmax12_he_2070_85_extract_mean_noronha, tmax12_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmax12.txt", append=FALSE, quote=TRUE, sep=";")

  #tmin

extractions<-data.frame(tmin1_present_extract_mean_noronha, tmin1_present_extract_sd_noronha,
tmin1_he_2050_45_extract_mean_noronha, tmin1_he_2050_45_extract_sd_noronha,
tmin1_he_2050_85_extract_mean_noronha, tmin1_he_2050_85_extract_sd_noronha,
tmin1_he_2070_45_extract_mean_noronha, tmin1_he_2070_45_extract_sd_noronha,
tmin1_he_2070_85_extract_mean_noronha, tmin1_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin1.txt", append=FALSE, quote=TRUE, sep=";")

 extractions<-data.frame(tmin2_present_extract_mean_noronha, tmin2_present_extract_sd_noronha,
tmin2_he_2050_45_extract_mean_noronha, tmin2_he_2050_45_extract_sd_noronha,
tmin2_he_2050_85_extract_mean_noronha, tmin2_he_2050_85_extract_sd_noronha,
tmin2_he_2070_45_extract_mean_noronha, tmin2_he_2070_45_extract_sd_noronha,
tmin2_he_2070_85_extract_mean_noronha, tmin2_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin2.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmin3_present_extract_mean_noronha, tmin3_present_extract_sd_noronha,
tmin3_he_2050_45_extract_mean_noronha, tmin3_he_2050_45_extract_sd_noronha,
tmin3_he_2050_85_extract_mean_noronha, tmin3_he_2050_85_extract_sd_noronha,
tmin3_he_2070_45_extract_mean_noronha, tmin3_he_2070_45_extract_sd_noronha,
tmin3_he_2070_85_extract_mean_noronha, tmin3_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin3.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmin4_present_extract_mean_noronha, tmin4_present_extract_sd_noronha,
tmin4_he_2050_45_extract_mean_noronha, tmin4_he_2050_45_extract_sd_noronha,
tmin4_he_2050_85_extract_mean_noronha, tmin4_he_2050_85_extract_sd_noronha,
tmin4_he_2070_45_extract_mean_noronha, tmin4_he_2070_45_extract_sd_noronha,
tmin4_he_2070_85_extract_mean_noronha, tmin4_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin4.txt", append=FALSE, quote=TRUE, sep=";")
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extractions<-data.frame(tmin5_present_extract_mean_noronha, tmin5_present_extract_sd_noronha,
tmin5_he_2050_45_extract_mean_noronha, tmin5_he_2050_45_extract_sd_noronha,
tmin5_he_2050_85_extract_mean_noronha, tmin5_he_2050_85_extract_sd_noronha,
tmin5_he_2070_45_extract_mean_noronha, tmin5_he_2070_45_extract_sd_noronha,
tmin5_he_2070_85_extract_mean_noronha, tmin5_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin5.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmin6_present_extract_mean_noronha, tmin6_present_extract_sd_noronha,
tmin6_he_2050_45_extract_mean_noronha, tmin6_he_2050_45_extract_sd_noronha,
tmin6_he_2050_85_extract_mean_noronha, tmin6_he_2050_85_extract_sd_noronha,
tmin6_he_2070_45_extract_mean_noronha, tmin6_he_2070_45_extract_sd_noronha,
tmin6_he_2070_85_extract_mean_noronha, tmin6_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin6.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmin7_present_extract_mean_noronha, tmin7_present_extract_sd_noronha,
tmin7_he_2050_45_extract_mean_noronha, tmin7_he_2050_45_extract_sd_noronha,
tmin7_he_2050_85_extract_mean_noronha, tmin7_he_2050_85_extract_sd_noronha,
tmin7_he_2070_45_extract_mean_noronha, tmin7_he_2070_45_extract_sd_noronha,
tmin7_he_2070_85_extract_mean_noronha, tmin7_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin7.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmin8_present_extract_mean_noronha, tmin8_present_extract_sd_noronha,
tmin8_he_2050_45_extract_mean_noronha, tmin8_he_2050_45_extract_sd_noronha,
tmin8_he_2050_85_extract_mean_noronha, tmin8_he_2050_85_extract_sd_noronha,
tmin8_he_2070_45_extract_mean_noronha, tmin8_he_2070_45_extract_sd_noronha,
tmin8_he_2070_85_extract_mean_noronha, tmin8_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin8.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmin9_present_extract_mean_noronha, tmin9_present_extract_sd_noronha,
tmin9_he_2050_45_extract_mean_noronha, tmin9_he_2050_45_extract_sd_noronha,
tmin9_he_2050_85_extract_mean_noronha, tmin9_he_2050_85_extract_sd_noronha,
tmin9_he_2070_45_extract_mean_noronha, tmin9_he_2070_45_extract_sd_noronha,
tmin9_he_2070_85_extract_mean_noronha, tmin9_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin9.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmin10_present_extract_mean_noronha, tmin10_present_extract_sd_noronha,
tmin10_he_2050_45_extract_mean_noronha, tmin10_he_2050_45_extract_sd_noronha,
tmin10_he_2050_85_extract_mean_noronha, tmin10_he_2050_85_extract_sd_noronha,
tmin10_he_2070_45_extract_mean_noronha, tmin10_he_2070_45_extract_sd_noronha,
tmin10_he_2070_85_extract_mean_noronha, tmin10_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin10.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmin11_present_extract_mean_noronha, tmin11_present_extract_sd_noronha,
tmin11_he_2050_45_extract_mean_noronha, tmin11_he_2050_45_extract_sd_noronha,
tmin11_he_2050_85_extract_mean_noronha, tmin11_he_2050_85_extract_sd_noronha,
tmin11_he_2070_45_extract_mean_noronha, tmin11_he_2070_45_extract_sd_noronha,
tmin11_he_2070_85_extract_mean_noronha, tmin11_he_2070_85_extract_sd_noronha)
write.table(extractions, file="extractions_tmin11.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(tmin12_present_extract_mean_noronha, tmin12_present_extract_sd_noronha,
tmin12_he_2050_45_extract_mean_noronha, tmin12_he_2050_45_extract_sd_noronha,
tmin12_he_2050_85_extract_mean_noronha, tmin12_he_2050_85_extract_sd_noronha,
tmin12_he_2070_45_extract_mean_noronha, tmin12_he_2070_45_extract_sd_noronha,
tmin12_he_2070_85_extract_mean_noronha, tmin12_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_tmin12.txt", append=FALSE, quote=TRUE, sep=";")

  #prec
extractions<-data.frame(prec1_present_extract_mean_noronha, prec1_present_extract_sd_noronha,
prec1_he_2050_45_extract_mean_noronha, prec1_he_2050_45_extract_sd_noronha,
prec1_he_2050_85_extract_mean_noronha, prec1_he_2050_85_extract_sd_noronha,
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prec1_he_2070_45_extract_mean_noronha, prec1_he_2070_45_extract_sd_noronha,
prec1_he_2070_85_extract_mean_noronha, prec1_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec1.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec2_present_extract_mean_noronha, prec2_present_extract_sd_noronha,
prec2_he_2050_45_extract_mean_noronha, prec2_he_2050_45_extract_sd_noronha,
prec2_he_2050_85_extract_mean_noronha, prec2_he_2050_85_extract_sd_noronha,
prec2_he_2070_45_extract_mean_noronha, prec2_he_2070_45_extract_sd_noronha,
prec2_he_2070_85_extract_mean_noronha, prec2_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec2.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec3_present_extract_mean_noronha, prec3_present_extract_sd_noronha,
prec3_he_2050_45_extract_mean_noronha, prec3_he_2050_45_extract_sd_noronha,
prec3_he_2050_85_extract_mean_noronha, prec3_he_2050_85_extract_sd_noronha,
prec3_he_2070_45_extract_mean_noronha, prec3_he_2070_45_extract_sd_noronha,
prec3_he_2070_85_extract_mean_noronha, prec3_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec3.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec4_present_extract_mean_noronha, prec4_present_extract_sd_noronha,
prec4_he_2050_45_extract_mean_noronha, prec4_he_2050_45_extract_sd_noronha,
prec4_he_2050_85_extract_mean_noronha, prec4_he_2050_85_extract_sd_noronha,
prec4_he_2070_45_extract_mean_noronha, prec4_he_2070_45_extract_sd_noronha,
prec4_he_2070_85_extract_mean_noronha, prec4_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec4.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec5_present_extract_mean_noronha, prec5_present_extract_sd_noronha,
prec5_he_2050_45_extract_mean_noronha, prec5_he_2050_45_extract_sd_noronha,
prec5_he_2050_85_extract_mean_noronha, prec5_he_2050_85_extract_sd_noronha,
prec5_he_2070_45_extract_mean_noronha, prec5_he_2070_45_extract_sd_noronha,
prec5_he_2070_85_extract_mean_noronha, prec5_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec5.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec6_present_extract_mean_noronha, prec6_present_extract_sd_noronha,
prec6_he_2050_45_extract_mean_noronha, prec6_he_2050_45_extract_sd_noronha,
prec6_he_2050_85_extract_mean_noronha, prec6_he_2050_85_extract_sd_noronha,
prec6_he_2070_45_extract_mean_noronha, prec6_he_2070_45_extract_sd_noronha,
prec6_he_2070_85_extract_mean_noronha, prec6_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec6.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec7_present_extract_mean_noronha, prec7_present_extract_sd_noronha,
prec7_he_2050_45_extract_mean_noronha, prec7_he_2050_45_extract_sd_noronha,
prec7_he_2050_85_extract_mean_noronha, prec7_he_2050_85_extract_sd_noronha,
prec7_he_2070_45_extract_mean_noronha, prec7_he_2070_45_extract_sd_noronha,
prec7_he_2070_85_extract_mean_noronha, prec7_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec7.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec8_present_extract_mean_noronha, prec8_present_extract_sd_noronha,
prec8_he_2050_45_extract_mean_noronha, prec8_he_2050_45_extract_sd_noronha,
prec8_he_2050_85_extract_mean_noronha, prec8_he_2050_85_extract_sd_noronha,
prec8_he_2070_45_extract_mean_noronha, prec8_he_2070_45_extract_sd_noronha,
prec8_he_2070_85_extract_mean_noronha, prec8_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec8.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec9_present_extract_mean_noronha, prec9_present_extract_sd_noronha,
prec9_he_2050_45_extract_mean_noronha, prec9_he_2050_45_extract_sd_noronha,
prec9_he_2050_85_extract_mean_noronha, prec9_he_2050_85_extract_sd_noronha,
prec9_he_2070_45_extract_mean_noronha, prec9_he_2070_45_extract_sd_noronha,
prec9_he_2070_85_extract_mean_noronha, prec9_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec9.txt", append=FALSE, quote=TRUE, sep=";")
```

```
extractions<-data.frame(prec10_present_extract_mean_noronha, prec10_present_extract_sd_noronha,
prec10_he_2050_45_extract_mean_noronha, prec10_he_2050_45_extract_sd_noronha,
prec10_he_2050_85_extract_mean_noronha, prec10_he_2050_85_extract_sd_noronha,
prec10_he_2070_45_extract_mean_noronha, prec10_he_2070_45_extract_sd_noronha,
prec10_he_2070_85_extract_mean_noronha, prec10_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec10.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec11_present_extract_mean_noronha, prec11_present_extract_sd_noronha,
prec11_he_2050_45_extract_mean_noronha, prec11_he_2050_45_extract_sd_noronha,
prec11_he_2050_85_extract_mean_noronha, prec11_he_2050_85_extract_sd_noronha,
prec11_he_2070_45_extract_mean_noronha, prec11_he_2070_45_extract_sd_noronha,
prec11_he_2070_85_extract_mean_noronha, prec11_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec11.txt", append=FALSE, quote=TRUE, sep=";")

extractions<-data.frame(prec12_present_extract_mean_noronha, prec12_present_extract_sd_noronha,
prec12_he_2050_45_extract_mean_noronha, prec12_he_2050_45_extract_sd_noronha,
prec12_he_2050_85_extract_mean_noronha, prec12_he_2050_85_extract_sd_noronha,
prec12_he_2070_45_extract_mean_noronha, prec12_he_2070_45_extract_sd_noronha,
prec12_he_2070_85_extract_mean_noronha, prec12_he_2070_85_extract_sd_noronha)
 write.table(extractions, file="extractions_prec12.txt", append=FALSE, quote=TRUE, sep=";")

#coord noronha
coord<-c(-33, -32, -4, -3)
                    # bio1
                    bio1_present_crop<-crop(bio1_present, noronha)
                    tiff('bio1_present.tif')
                    plot(bio1_present_crop/10, col=rev(rainbow(6)))
                    dev.off()
bi_1_he_2050_45_crop<-crop(bi_1_he_2050_45, noronha)
                    tiff('bi_1_he_2050_45.tif')
                    plot(bi_1_he_2050_45_crop/10, col=rev(rainbow(6)))
                    dev.off()
bi_1_he_2050_85_crop<-crop(bi_1_he_2050_85, noronha)
                    tiff('bi_1_he_2050_85.tif')
                    plot(bi_1_he_2050_85_crop/10, col=rev(rainbow(6)))
                    dev.off()
bi_1_he_2070_45_crop<-crop(bi_1_he_2070_45, noronha)
                    tiff('bi_1_he_2070_45.tif')
                    plot(bi_1_he_2070_45_crop/10, col=rev(rainbow(6)))
                    dev.off()
bi_1_he_2070_85_crop<-crop(bi_1_he_2070_85, noronha)
                    tiff('bi_1_he_2070_85.tif')
                    plot(bi_1_he_2070_85_crop/10, col=rev(rainbow(6)))
                    dev.off()
          # bio12
          library(RColorBrewer)
          dat <- data.frame(x = rnorm(0, 8000, .2))
bio12_present_crop<-crop(bio12_present, noronha)
                    tiff('bio12_present.tif')
                    plot(bio12_present_crop, col=brewer.pal(n = 6, name = "RdBu"))
                    dev.off()
bi_12_he_2050_45_crop<-crop(bi_12_he_2050_45, noronha)
                    tiff('bi_12_he_2050_45.tif')
                    plot(bi_12_he_2050_45_crop, col=brewer.pal(n = 6, name = "RdBu"))
                    dev.off()
bi_12_he_2050_85_crop<-crop(bi_12_he_2050_85, noronha)
                    tiff('bi_12_he_2050_85.tif')
                    plot(bi_12_he_2050_85_crop, col=brewer.pal(n = 6, name = "RdBu"))
                    dev.off()
bi_12_he_2070_45_crop<-crop(bi_12_he_2070_45, noronha)
```

```
                    tiff('bi_12_he_2070_45.tif')
                    plot(bi_12_he_2070_45_crop, col=brewer.pal(n = 6, name = "RdBu"))
                    dev.off()
bi_12_he_2070_85_crop<-crop(bi_12_he_2070_85, noronha)
                    tiff('bi_12_he_2070_85.tif')
                    plot(bi_12_he_2070_85_crop, col=brewer.pal(n = 6, name = "RdBu"))
                    dev.off()

# Aumento do nível do mar


#Sea level rise

sealevelrise <- readOGR("C:/Users/Luisa Diele-Viegas/Google
Drive/Shapes/Dados_nível_mar_Li/dados/1m/inun_1m.kml", "inun_1m")


sealevelrise_mean<-extract(sealevelrise,noronha[1], fun=mean, na.rm=TRUE)
sealevelrise_sd<-extract(sealevelrise,noronha[1], fun=sd, na.rm=TRUE)

extractions<-data.frame(sealevelrise_mean,sealevelrise_sd)
 write.table(extractions, file="sealevelrise.txt", append=FALSE, quote=TRUE, sep=";")
```

# Seção 3

```
### Análises T. atlantica

library(rgdal)
library(raster)

#get rasters worldclim
setwd("D:/Rasters")
tmax_present <- getData("worldclim",lon=-3, lat=-33,var="tmax",res=0.5)
tmax_MR_50_45<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=45, model='MR', year=50)
tmax_MR_50_85<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=85, model='MR', year=50)
tmax_MR_70_45<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=45, model='MR', year=70)
tmax_MR_70_85<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=85, model='MR', year=70)
tmax_HE_50_45<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=45, model='HE', year=50)
tmax_HE_50_85<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=85, model='HE', year=50)
tmax_HE_70_45<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=45, model='HE', year=70)
tmax_HE_70_85<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=85, model='HE', year=70)
tmax_MR_70_85<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=85, model='MR', year=70)

tmax_HE_70_45<-getData('CMIP5',lon=-3, lat=-33, var='tmax', res=0.5, rcp=45, model='HE', year=70)

#geral
noronha <- readOGR("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis
atlantica/Analyses/ExposureNoronha/ShapefileNoronha_byme/Trace_noronha_delimited-line.shp",
"Trace_noronha_delimited-line")

# curva de performance térmica

PerfGAMM<- function (performance_input,
                        knots_vector=NA,
                        size = TRUE,
                        acc = FALSE,
                        hydration = FALSE
                        ) {
# load required packages
require('mgcv')
        # dependencies: nlme
require("ggplot2")
        #dependencies: grid
# use knots

uni_temp <- if (is.na(knots_vector)) {
                          uni_temp <- unique(performance_input$round_temp)
                      } else {uni_temp <- knots_vector}
k <- length(uni_temp)
#### plot points measured visual inspection
require(grid)
plot_dispersion_species <- ggplot(performance_input,aes(x= temp,y= performance, color = id)) +
                              geom_point(size = 6, alpha = 0.7) +
                              theme_bw() +
                              theme(legend.text = element_text(size = 7),
                              legend.key.size = unit(0.2,"cm"),
                              legend.margin = unit(0,"cm"),
                              panel.grid.major = element_line(colour = "gray"),
                              panel.grid.minor = element_line(colour = "gray", linetype = "dotted"))+
                              geom_rug(col="darkred",alpha=.7)
############################## Correlation schemes by ID ##################################
## corAR1 : autoregressive process
cor_1 <- corAR1(form=~1|id)   # no autocorrelation
cor_2 <- corAR1(0.1,form=~1|id)   # autocorrelation set to 0.1
```

```
## corCAR1 : continuous autoregressive process
cor_3 <- corCAR1(0.1,form=~1|id)  # correlation between two observations one unit of time apart set to 0.1
## corGaus : Gaussian spatial correlation
cor_5 <- corGaus(form=~1|id)
cor_6 <- corGaus(form=~1|id, nugget = TRUE) # account for nugget effect
## corExp : exponential spatial correlation structure
cor_9 <- corExp(form=~1|id)
cor_10 <- corExp(form=~1|id, nugget = TRUE)
## corRatio : Rational quadratics spatial correlation.
cor_11 <- corRatio(form=~1|id)
cor_12 <- corRatio(form=~1|id, nugget = TRUE)
## corSpher : spherical spatial correlation.
cor_13 <- corSpher(form=~1|id)
cor_14 <- corSpher(form=~1|id, nugget = TRUE)
## corARMA : autoregressive moving average process
cor_16 <- corARMA(form = ~ 1 | id, p=0, q=1)
cor_17 <- corARMA(form = ~ 1 | id, p=1, q=0)
cor_18 <- corARMA(form = ~ 1 | id, p=1, q=1)
cor_19 <- corARMA(form = ~ 1 | id, p=1, q=2)
cor_20 <- corARMA(form = ~ 1 | id, p=2, q=1)
cor_str_id_list <- NULL
cor_str_id_list <- list(cor_1, cor_2, cor_3, cor_5, cor_6, cor_9, cor_10, cor_11, cor_12, cor_13, cor_14, cor_16,
cor_17, cor_18, cor_19, cor_20)
cor_str_names <- NULL
cor_str_names <- c( "corAR1(form=~1|id)",
                 "corAR1(0.1,form=~1|id)",
                 "corCAR1(0.1,form=~1|id)",
                  "corGaus(form=~1|id)",
                  "corGaus(form=~1|id, nugget = TRUE)",
                  "corExp(form=~1|id)",
                  "corExp(form=~1|id, nugget = TRUE)",
                  "corRatio(form=~1|id)",
                  "corRatio(form=~1|id, nugget = TRUE)",
                  "corSpher(form=~1|id)",
                  "corSpher(form=~1|id, nugget = TRUE)",
                  "corARMA(form = ~ 1 | id, p=0, q=1)",
                  "corARMA(form = ~ 1 | id, p=1, q=0)",
                  "corARMA(form = ~ 1 | id, p=1, q=1)",
                  "corARMA(form = ~ 1 | id, p=1, q=2)",
                  "corARMA(form = ~ 1 | id, p=2, q=1)")
########################################## models by ID ###################################
gamm_models_id_list <- list()
if(size == TRUE & acc == FALSE & hydration == FALSE) {
for (i in 1:length(cor_str_id_list)) {
        gamm_temp <- try(gamm(performance~te(temp,k=k,bs="cs") + size,
                        correlation=cor_str_id_list[[i]],
                        data=performance_input,
                        method="REML",
                        knots=list(x=uni_temp)), silent=TRUE)
                    if ('try-error' %in% class(gamm_temp)) { gamm_models_id_list[i]  <- 'correlation structure
failed'
                                                next
                    } else {gamm_models_id_list[i]  <- list(gamm_temp)}
}
                             } else if(size == FALSE & acc == FALSE & hydration == FALSE) {

for (i in 1:length(cor_str_id_list)) {
        gamm_temp <- try(gamm(performance~te(temp,k=k,bs="cs"),
                        correlation=cor_str_id_list[[i]],
                        data=performance_input,
```

```
                        method="REML",
                        knots=list(x=uni_temp)), silent=TRUE)
                    if ('try-error' %in% class(gamm_temp)) { gamm_models_id_list[i]  <- 'correlation structure
failed'
                                        next
                    } else {gamm_models_id_list[i]  <- list(gamm_temp)}
}
                            } else if(size == TRUE & acc == TRUE & hydration == FALSE) {

for (i in 1:length(cor_str_id_list)) {
        gamm_temp <- try(gamm(performance~te(temp,k=k,bs="cs") + size + acctemp,
                        correlation=cor_str_id_list[[i]],
                        data=performance_input,
                        method="REML",
                        knots=list(x=uni_temp)), silent=TRUE)
                    if ('try-error' %in% class(gamm_temp)) { gamm_models_id_list[i]  <- 'correlation structure
failed'
                                        next
                    } else {gamm_models_id_list[i]  <- list(gamm_temp)}
}
                                                                                            } else if(size ==
FALSE & acc == TRUE & hydration == FALSE) {
for (i in 1:length(cor_str_id_list)) {
        gamm_temp <- try(gamm(performance~te(temp,k=k,bs="cs") + acctemp,
                        correlation=cor_str_id_list[[i]],
                        data=performance_input,
                        method="REML",
                        knots=list(x=uni_temp)), silent=TRUE)
                    if ('try-error' %in% class(gamm_temp)) { gamm_models_id_list[i]  <- 'correlation structure
failed'
                                        next
                    } else {gamm_models_id_list[i]  <- list(gamm_temp)}
}
            } else if(size == FALSE & acc == TRUE & hydration == TRUE) {

for (i in 1:length(cor_str_id_list)) {
        gamm_temp <- try(gamm(performance~te(temp,k=k,bs="cs") + size + hydration,
                        correlation=cor_str_id_list[[i]],
                        data=performance_input,
                        method="REML",
                        knots=list(x=uni_temp)), silent=TRUE)
                    if ('try-error' %in% class(gamm_temp)) { gamm_models_id_list[i]  <- 'correlation structure
failed'
                                        next
                    } else {gamm_models_id_list[i]  <- list(gamm_temp)}
}

                            } else if(size == FALSE & acc == FALSE & hydration == TRUE) {
for (i in 1:length(cor_str_id_list)) {
        gamm_temp <- try(gamm(performance~te(temp,k=k,bs="cs") + hydration,
                        correlation=cor_str_id_list[[i]],
                        data=performance_input,
                        method="REML",
                        knots=list(x=uni_temp)), silent=TRUE)
                    if ('try-error' %in% class(gamm_temp)) { gamm_models_id_list[i]  <- 'correlation structure
failed'
                                        next
                    } else {gamm_models_id_list[i]  <- list(gamm_temp)}
}
                            } else if(size == TRUE & acc == FALSE & hydration == TRUE) {
```

```
for (i in 1:length(cor_str_id_list)) {
          gamm_temp <- try(gamm(performance~te(temp,k=k,bs="cs") + size + hydration,
                           correlation=cor_str_id_list[[i]],
                           data=performance_input,
                           method="REML",
                           knots=list(x=uni_temp)), silent=TRUE)
                       if ('try-error' %in% class(gamm_temp)) { gamm_models_id_list[i]  <- 'correlation structure
failed'
                                         next
                       } else {gamm_models_id_list[i]  <- list(gamm_temp)}
}
                                    } else if(size == TRUE & acc == TRUE & hydration == TRUE) {

for (i in 1:length(cor_str_id_list)) {
          gamm_temp <- try(gamm(performance~te(temp,k=k,bs="cs") + size + acctemp + hydration,
                           correlation=cor_str_id_list[[i]],
                           data=performance_input,
                           method="REML",
                           knots=list(x=uni_temp)), silent=TRUE)
                       if ('try-error' %in% class(gamm_temp)) { gamm_models_id_list[i]  <- 'correlation structure
failed'
                                         next
                       } else {gamm_models_id_list[i]  <- list(gamm_temp)}

}
                                                                                                   } else if(size ==
FALSE & acc == TRUE & hydration == TRUE) {
for (i in 1:length(cor_str_id_list)) {
          gamm_temp <- try(gamm(performance~te(temp,k=k,bs="cs") + acctemp + hydration,
                           correlation=cor_str_id_list[[i]],
                           data=performance_input,
                           method="REML",
                           knots=list(x=uni_temp)), silent=TRUE)
                       if ('try-error' %in% class(gamm_temp)) { gamm_models_id_list[i]  <- 'correlation structure
failed'
                                         next
                       } else {gamm_models_id_list[i]  <- list(gamm_temp)}
}
}
# names list based on correlation names
names(gamm_models_id_list) <- cor_str_names
# remove fail correlation structures
oo <- gamm_models_id_list[gamm_models_id_list != 'correlation structure failed']
gamm_models_id_list <- oo
# save models $gam and $lme to list
gamm_models_id_list_lme <- list()
for (i in 1:length(gamm_models_id_list)) {
                              gamm_models_id_list_lme[i] <-  list(gamm_models_id_list[[i]]$lme)
                                 } # save models $lme to list for anova comparisons
# save models $gam and $lme to list
gamm_models_id_list_gam <- list()
for (i in 1:length( gamm_models_id_list)) {
                              gamm_models_id_list_gam[i] <-  list(gamm_models_id_list[[i]]$gam)
                                 } # save models $gam to list for anova comparisons
gamm_models_id_list_lme_logLik <- list()
for (i in 1:length( gamm_models_id_list_lme)) {
                              gamm_models_id_list_lme_logLik[i] <-  list(gamm_models_id_list_lme[[i]]$logLik)
                                 }
gamm_models_id_list_lme_logLik_unlist <- unlist(gamm_models_id_list_lme_logLik)
####################################  model comparison ####################################
```

```
## creates a dataframe with list of retained models
updated_names_gamm_models_id_list <- as.data.frame(names(gamm_models_id_list))
## gets AIC and BIC of the retained models
all_models_scores_df <- NULL # clean up previous runs
for (i in 1:length(gamm_models_id_list_lme)){
    if (!exists("all_models_scores_df")){
        AIC_gamm_models <- AIC(gamm_models_id_list_lme[[i]])
        BIC_gamm_models <- BIC(gamm_models_id_list_lme[[i]])
        logLik_gamm_models <- gamm_models_id_list_lme[[i]]$logLik
        all_models_scores_df <- cbind(AIC_gamm_models, BIC_gamm_models, logLik_gamm_models)
  }
  # if the merged dataset does exist, append to it
  if (exists("all_models_scores_df")){
        AIC_gamm_models <- AIC(gamm_models_id_list_lme[[i]])
        BIC_gamm_models <- BIC(gamm_models_id_list_lme[[i]])
        logLik_gamm_models <- gamm_models_id_list_lme[[i]]$logLik
        temp_scores <- cbind(AIC_gamm_models, BIC_gamm_models, logLik_gamm_models)
        all_models_scores_df<-rbind(all_models_scores_df, temp_scores)
   rm(temp_scores)
  }
 }
moto <- cbind(updated_names_gamm_models_id_list, all_models_scores_df) # binds rows
#Compare models: either use AIC, BIC or Log-Likelihood ratio tests from table below to decide on your top
model
moto$delta_AIC <- do.call(function(x) x-x[which(x==min(x))], list(moto$AIC_gamm_models))
moto$delta_BIC <- do.call(function(x) x-x[which(x==min(x))], list(moto$BIC_gamm_models))
moto$knots <- k
names(moto) <- c("gamm_correlation_structure_class", "AIC", "BIC", "logLik", "delta_AIC", "delta_BIC",
"knots")
### select the best model for prediction
best_gamm_model_AIC <- gamm_models_id_list[[which.min(moto[,5] )]] ## model_best_AIC <-
which.min(moto[,5] )
best_gamm_model_BIC <- gamm_models_id_list[[which.min(moto[,6] )]] ## model_best_BIC <-
which.min(moto[,6] )
## summary for best models
cat("\n\n")
cat("best_gamm_model_AIC")
cat("\n")
print (summary(best_gamm_model_AIC$gam))
cat("\n\n")
print (best_gamm_model_AIC)
cat("\n\n")
cat("best_gamm_model_AIC -- adjusted R squared")
cat("\n")
print (summary(best_gamm_model_AIC$gam)$r.sq) #adjusted R squared
cat("\n\n")
cat("best_gamm_model_BIC")
cat("\n")
print (summary(best_gamm_model_BIC$gam))
cat("\n\n")
print (best_gamm_model_BIC)
cat("\n\n")
cat("best_gamm_model_BIC -- adjusted R squared")
cat("\n")
print (summary(best_gamm_model_BIC$gam)$r.sq) #adjusted R squared
cat("\n\n")
cat("Model comparison results")
cat("\n")
print(moto)
cat("\n\n")
```

```
# plot with size or not
plot(plot_dispersion_species)
devAskNewPage(ask=T)
plot(best_gamm_model_AIC$gam, pages =1,residuals=TRUE,pch=19, seWithMean = TRUE,
shade=TRUE,shade.col="gray") #
title("Best GAMM model AIC")
if(size == TRUE) {
devAskNewPage(ask=T)
vis.gam(best_gamm_model_AIC$gam,
        view=c('size','temp'),
         type = "response",
         theta=55,
         phi=30,
         color="heat",
         xlab="size mm",
         ylab="Temperature °C",
         zlab="Performance",
         ticktype="detailed",
         n.grid=50) # color: gray; theta is the perspective angle of the graph
title("Best GAMM model AIC")
}
if(acc == TRUE) {
devAskNewPage(ask=T)
vis.gam(best_gamm_model_AIC$gam,
        view=c('acctemp','temp'),
        type = "response",
         theta=55,
         phi=30,
         color="heat",
         xlab="Acclimation Temperature °C",
         ylab="Temperature °C",
         zlab="Performance",
         ticktype="detailed",
         n.grid=50) # color: gray; theta is the perspective angle of the graph
title("Best GAMM model AIC")
}
if(hydration == TRUE) {
devAskNewPage(ask=T)
vis.gam(best_gamm_model_AIC$gam,
        view=c('hydration','temp'),
        type = "response",
         theta=55,
         phi=30,
         color="heat",
         xlab="Hydration % of body mass",
         ylab="Temperature °C",
         zlab="Performance",
         ticktype="detailed",
         n.grid=50) # color: gray; theta is the perspective angle of the graph
title("Best GAMM model AIC")
}
devAskNewPage(ask=T)
plot(plot_dispersion_species)
devAskNewPage(ask=T)
plot(best_gamm_model_BIC$gam, pages =1,residuals=TRUE,pch=19, seWithMean = TRUE,
shade=TRUE,shade.col="gray") #
title("Best GAMM model BIC")
if(size == TRUE) {
devAskNewPage(ask=T)
vis.gam(best_gamm_model_BIC$gam,
```

```
            view=c('size','temp'),
             type = "response",
             theta=55,
             phi=30,
             color="heat",
             xlab="size mm",
             ylab="Temperature °C",
             zlab="Performance",
             ticktype="detailed",
             n.grid=50) # color: gray; theta is the perspective angle of the graph
title("Best GAMM model BIC")
}
if(acc == TRUE) {
devAskNewPage(ask=T)
vis.gam(best_gamm_model_BIC$gam,
             type = "response",
             view=c('acctemp','temp'),
             theta=55,
             phi=30,
             color="heat",
             xlab="Acclimation Temperature °C",
             ylab="Temperature °C",
             zlab="Performance",
             ticktype="detailed",
             n.grid=50) # color: gray; theta is the perspective angle of the graph
title("Best GAMM model BIC")
}
if(hydration == TRUE) {
devAskNewPage(ask=T)
vis.gam(best_gamm_model_BIC$gam,
             type = "response",
             view=c('hydration','temp'),
             theta=55,
             phi=30,
             color="heat",
             xlab="Hydration % of body mass",
             ylab="Temperature °C",
             zlab="Performance",
             ticktype="detailed",
             n.grid=50) # color: gray; theta is the perspective angle of the graph
title("Best GAMM model BIC")
}
if(size == TRUE & acc == TRUE & hydration == FALSE) {
Lizard_gam_TPC_AIC <- function (temp_value, size_value, acctemp_value) {
                          formula_gam <- best_gamm_model_AIC$gam
                          pred_data <- data.frame(temp=temp_value, size = size_value, acctemp=acctemp_value)
                          P <- as.vector(predict.gam(formula_gam,pred_data))
                          if(P>0) {
                                return(P)
                               } else { return(0) }
}
Lizard_gam_TPC_BIC <- function (temp_value, size_value, acctemp_value) {
                          formula_gam <- best_gamm_model_BIC$gam
                          pred_data <- data.frame(temp=temp_value, size = size_value, acctemp=acctemp_value)
                          P <- as.vector(predict.gam(formula_gam,pred_data))
                          if(P>0) {
                                return(P)
                               } else { return(0) }
}
}
```

```
if(size == TRUE & acc == FALSE & hydration == FALSE) {
Lizard_gam_TPC_AIC <- function (temp_value, size_value) {
                              formula_gam <- best_gamm_model_AIC$gam
                              pred_data <- data.frame(temp=temp_value, size = size_value)
                              P <- as.vector(predict.gam(formula_gam,pred_data))
                              if(P>0) {
                                     return(P)
                                    } else { return(0) }
}
Lizard_gam_TPC_BIC <- function (temp_value, size_value) {
                              formula_gam <- best_gamm_model_BIC$gam
                              pred_data <- data.frame(temp=temp_value, size = size_value)
                              P <- as.vector(predict.gam(formula_gam,pred_data))
                              if(P>0) {
                                     return(P)
                                    } else { return(0) }
}
}
if(size == FALSE & acc == FALSE & hydration == FALSE) {
Lizard_gam_TPC_AIC <- function (temp_value) {
                              formula_gam <- best_gamm_model_AIC$gam
                              pred_data <- data.frame(temp=temp_value)
                              P <- as.vector(predict.gam(formula_gam,pred_data))
                              if(P>0) {
                                     return(P)
                                    } else { return(0) }
}
Lizard_gam_TPC_BIC <- function (temp_value) {
                              formula_gam <- best_gamm_model_BIC$gam
                              pred_data <- data.frame(temp=temp_value)
                              P <- as.vector(predict.gam(formula_gam,pred_data))
                              if(P>0) {
                                     return(P)
                                    } else { return(0) }
}
}
if(size == FALSE & acc == TRUE & hydration == FALSE) {
Lizard_gam_TPC_AIC <- function (temp_value, acctemp_value) {
                              formula_gam <- best_gamm_model_AIC$gam
                              pred_data <- data.frame(temp=temp_value, acctemp=acctemp_value)
                             P <- as.vector(predict.gam(formula_gam,pred_data))
                              if(P>0) {
                                     return(P)
                                    } else { return(0) }
}
Lizard_gam_TPC_BIC <- function (temp_value, acctemp_value) {
                              formula_gam <- best_gamm_model_BICl$gam
                              pred_data <- data.frame(temp=temp_value, acctemp=acctemp_value)
                              P <- as.vector(predict.gam(formula_gam,pred_data))
                              if(P>0) {
                                     return(P)
                                    } else { return(0) }
}
}
##
if(size == TRUE & acc == TRUE & hydration == TRUE) {
Lizard_gam_TPC_AIC <- function (temp_value, size_value, acctemp_value, hydration_value) {
                              formula_gam <- best_gamm_model_AIC$gam
                              pred_data <- data.frame(temp=temp_value, size = size_value, acctemp=acctemp_value,
hydration=hydration_value)
```

```
                    P <- as.vector(predict.gam(formula_gam,pred_data))
                    if(P>0) {
                        return(P)
                        } else { return(0) }
}
Lizard_gam_TPC_BIC <- function (temp_value, size_value, acctemp_value, hydration_value) {
                    formula_gam <- best_gamm_model_BIC$gam
                    pred_data <- data.frame(temp=temp_value, size = size_value, acctemp=acctemp_value,
hydration=hydration_value)
                    P <- as.vector(predict.gam(formula_gam,pred_data))
                    if(P>0) {
                        return(P)
                        } else { return(0) }
}
}
if(size == TRUE & acc == FALSE & hydration == TRUE) {
Lizard_gam_TPC_AIC <- function (temp_value, size_value, hydration_value) {
                    formula_gam <- best_gamm_model_AIC$gam
                    pred_data <- data.frame(temp=temp_value, size = size_value,
hydration=hydration_value)
                    P <- as.vector(predict.gam(formula_gam,pred_data))
                    if(P>0) {
                        return(P)
                        } else { return(0) }
}
Lizard_gam_TPC_BIC <- function (temp_value, size_value, hydration_value) {
                    formula_gam <- best_gamm_model_BIC$gam
                    pred_data <- data.frame(temp=temp_value, size = size_value,
hydration=hydration_value)
                    P <- as.vector(predict.gam(formula_gam,pred_data))
                    if(P>0) {
                        return(P)
                        } else { return(0) }
}
}
if(size == FALSE & acc == FALSE & hydration == TRUE) {
Lizard_gam_TPC_AIC <- function (temp_value, hydration_value) {
                    formula_gam <- best_gamm_model_AIC$gam
                    pred_data <- data.frame(temp=temp_value, hydration=hydration_value)
                    P <- as.vector(predict.gam(formula_gam,pred_data))
                    if(P>0) {
                        return(P)
                        } else { return(0) }
}
Lizard_gam_TPC_BIC <- function (temp_value, hydration_value) {
                    formula_gam <- best_gamm_model_BIC$gam
                    pred_data <- data.frame(temp=temp_value, hydration=hydration_value)
                    P <- as.vector(predict.gam(formula_gam,pred_data))
                    if(P>0) {
                        return(P)
                        } else { return(0) }
}
}
if(size == FALSE & acc == TRUE & hydration == TRUE) {
Lizard_gam_TPC_AIC <- function (temp_value, acctemp_value, hydration_value) {
                    formula_gam <- best_gamm_model_AIC$gam
                    pred_data <- data.frame(temp=temp_value, acctemp=acctemp_value,
hydration=hydration_value)
                    P <- as.vector(predict.gam(formula_gam,pred_data))
                    if(P>0) {
```

```
                                    return(P)
                                   } else { return(0) }
}
Lizard_gam_TPC_BIC <- function (temp_value, acctemp_value, hydration_value) {
                              formula_gam <- best_gamm_model_BICl$gam
                              pred_data <- data.frame(temp=temp_value, acctemp=acctemp_value,
hydration=hydration_value)
                              P <- as.vector(predict.gam(formula_gam,pred_data))
                              if(P>0) {
                                    return(P)
                                   } else { return(0) }
}
}
return(list(Lizard_gam_TPC_AIC,Lizard_gam_TPC_BIC,best_gamm_model_BIC,best_gamm_model_AIC))
}
######

tatlanticaperf<-read.csv("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis
atlantica/Analyses/Performance/performance.csv", header=T)
attach(tatlanticaperf)
tatlanticaPerfGAMM<-PerfGAMM(tatlanticaperf)
tatlanticaPerfGAMMFUN<-tatlanticaPerfGAMM[[1]]

### SELECT THE MONTHS THAT ARE RELEVANT TO OUR MEASUREMENTS = 7 BECAUSE WE
COLLECTED DATA ON JULY

tmax7_present<-raster("D:/Rasters/cmip5/30s/wc2.0_30s_tmax_07.tif")
tmax7_present<-crop(tmax7_present, noronha)
tmax7_he_2050_45<-raster("D:/Rasters/cmip5/30s/he45tx507.tif")
tmax7_he_2050_45<-crop(tmax7_he_2050_45, noronha)
tmax7_he_2050_85<-raster("D:/Rasters/cmip5/30s/he85tx507.tif")
tmax7_he_2050_85<-crop(tmax7_he_2050_85, noronha)
tmax7_he_2070_45<-raster("D:/Rasters/cmip5/30s/he45tx707.tif")
tmax7_he_2070_45<-crop(tmax7_he_2070_45, noronha)


tmax7_he_2070_85<-raster("D:/Rasters/cmip5/30s/he85tx707.tif")
tmax7_he_2070_85<-crop(tmax7_he_2070_85, noronha)
tmax7_mr_2050_45<-raster("D:/Rasters/cmip5/30s/mr45tx507.tif")
tmax7_mr_2050_45<-crop(tmax7_mr_2050_45, noronha)
tmax7_mr_2050_85<-raster("D:/Rasters/cmip5/30s/mr85tx507.tif")
tmax7_mr_2050_85<-crop(tmax7_mr_2050_85, noronha)
tmax7_mr_2070_45<-raster("D:/Rasters/cmip5/30s/mr45tx707.tif")
tmax7_mr_2070_45<-crop(tmax7_mr_2070_45, noronha)
tmax7_mr_2070_85<-raster("D:/Rasters/cmip5/30s/mr85tx707.tif")
tmax7_mr_2070_85<-crop(tmax7_mr_2070_85, noronha)

##present

newdata_present = data.frame(temp = values(tmax7_present), size = 91.45)
performance_present<-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
tmax7_present_new <- tmax7_present
#values(tmax7_present_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
plot(tmax7_present_new)
##2050 45 HE
newdata_he_2050_45 = data.frame(temp = values(tmax7_he_2050_45/10), size = 91.45)
performance_he_2050_45<-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_he_2050_45)
tmax7_he_2050_45_new <- tmax7_he_2050_45
#values(tmax7_present_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
plot(tmax7_he_2050_45_new)
```

```
##2050 85 HE
newdata_he_2050_85 = data.frame(temp = values(tmax7_he_2050_85/10), size = 91.85)
performance_he_2050_85<-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_he_2050_85)
tmax7_he_2050_85_new <- tmax7_he_2050_85
#values(tmax7_present_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
plot(tmax7_he_2050_85_new)
##2070 45 HE
newdata_he_2070_45 = data.frame(temp = values(tmax7_he_2070_45/10), size = 91.45)
performance_he_2070_45<-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_he_2070_45)
tmax7_he_2070_45_new <- tmax7_he_2070_45
#values(tmax7_present_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
plot(tmax7_he_2070_45_new)
##2070 85 HE
newdata_he_2070_85 = data.frame(temp = values(tmax7_he_2070_85/10), size = 91.85)
performance_he_2070_85<-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_he_2070_85)
tmax7_he_2070_85_new <- tmax7_he_2070_85
#values(tmax7_present_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
plot(tmax7_he_2070_85_new)
##2050 45 mr
newdata_mr_2050_45 = data.frame(temp = values(tmax7_mr_2050_45/10), size = 91.45)
performance_mr_2050_45<-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_mr_2050_45)
tmax7_mr_2050_45_new <- tmax7_mr_2050_45
#values(tmax7_present_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
plot(tmax7_mr_2050_45_new)
##2050 85 mr
newdata_mr_2050_85 = data.frame(temp = values(tmax7_mr_2050_85/10), size = 91.85)
performance_mr_2050_85<-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_mr_2050_85)
tmax7_mr_2050_85_new <- tmax7_mr_2050_85
#values(tmax7_present_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
plot(tmax7_mr_2050_85_new)
#2070 45 mr
newdata_mr_2070_45 = data.frame(temp = values(tmax7_mr_2070_45/10), size = 91.45)
performance_mr_2070_45<-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_mr_2070_45)
tmax7_mr_2070_45_new <- tmax7_mr_2070_45
#values(tmax7_present_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
plot(tmax7_mr_2070_45_new)
##2070 85 mr
newdata_mr_2070_85 = data.frame(temp = values(tmax7_mr_2070_85/10), size = 91.85)
performance_mr_2070_85<-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_mr_2070_85)
tmax7_mr_2070_85_new <- tmax7_mr_2070_85
#values(tmax7_present_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata_present)
plot(tmax7_mr_2070_85_new)

extractions<-data.frame(performance_present,performance_he_2050_45, performance_he_2050_85,
performance_he_2070_45, performance_he_2070_85, performance_mr_2050_45, performance_mr_2050_85,
performance_mr_2070_45, performance_mr_2070_85)
 write.table(extractions, file="extractions_tmax.txt", append=FALSE, quote=TRUE, sep=";")

newdata = data.frame(temp = values(tmax1_he_2050_45/10), size = 91.45)
predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata)
tmax1_he_2050_45_new <- tmax1_he_2050_45
values(tmax1_he_2050_45_new) <-predict(tatlanticaPerfGAMM[[3]]$gam, newdata = newdata)
plot(tmax1_he_2050_45_new)
perf_tmax<-read.csv("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis
atlantica/Analyses/Performance/extractions_tmax.csv", header=T)
attach(perf_tmax)
perf_model<-aov(perf~model)
perf_year_rcp<-aov(perf~year+rcp)
TukeyHSD(aov(perf~year+rcp))
```

```
#females
tatlanticafemale<-read.csv("D:/Noronha_2018/performanceFEMALE.csv", header=T)
tatlanticafemalePerfGAMM<-PerfGAMM(tatlanticafemale)
tatlanticaPerffemaleGAMMFUN<-tatlanticafemalePerfGAMM[[1]]
#males
tatlanticamale<-read.csv("D:/Noronha_2018/performanceMALE.csv", header=T)
tatlanticamalePerfGAMM<-PerfGAMM(tatlanticamale)
tatlanticaPerfmaleGAMMFUN<-tatlanticamalePerfGAMM[[1]]
TPCFUN_GAMM2 <- PerfGAMM2 (performance_data = "C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis atlantica/Performance/performance.csv",
                    dependent_variable = "performance",
                    smooth_predictors = "temp",
                    linear_predictors = "size",
                    quadratic_predictors = NULL,
                    criterion = "AIC",
                    knots_vector = 1,
                    lm_approx_terms_value = 10,
                    fix_body_size_for_lm_value = 90.05,
                    plot_variable_on_x = "size",
                    plot_variable_on_y = "performance",
                    plot_variable_on_z = "temp",
                    output_directory = "C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis atlantica/Performance/")
```

```
### Performance x Sexo
result.anova<-aov(tpref~sex)
summary(result.anova)
tatlantica<-read.csv("D:/Noronha_2018/tatlantica_bysex.csv", header=T)
attach(tatlantica)
# tpref
result.anova<-aov(tpref~sex)
summary(result.anova)
# vtmin
result.anova<-aov(vtmin~sex)
summary(result.anova)
# vtmax
result.anova<-aov(vtmax~sex)
summary(result.anova)
# ctmin
result.anova<-aov(ctmin~sex)
summary(result.anova)
# ctmax
result.anova<-aov(ctmax~sex)
summary(result.anova)
# mass
result.anova<-aov(mass~sex)
summary(result.anova)
# svl
result.anova<-aov(svl~sex)
summary(result.anova)
# db
result.anova<-aov(db~sex)
summary(result.anova)
# de_fn
result.anova<-aov(de_fn~sex)
```

```
summary(result.anova)
# e_fn
result.anova<-aov(e_fn~sex)
summary(result.anova)
# de_sancho
result.anova<-aov(de_sancho~sex)
summary(result.anova)
#e_sancho
result.anova<-aov(e_sancho~sex)
summary(result.anova)
# de_americano
result.anova<-aov(de_americano~sex)
summary(result.anova)
#e_americano
result.anova<-aov(e_americano~sex)
summary(result.anova)
# de_sueste
result.anova<-aov(de_sueste~sex)
summary(result.anova)
#e_sueste
result.anova<-aov(e_sueste~sex)
summary(result.anova)
# de_mediageraltemp
result.anova<-aov(de_mediageraltemp~sex)
summary(result.anova)
#e_mediageraltemp
result.anova<-aov(e_mediageraltemp~sex)
summary(result.anova)
#hobos
# Load the HOBO data
hobos<-read.csv("D:/Noronha_2018/hobosumidade.csv", header=T)
attach(hobos)
# humidade x local
result.anova<-aov(H~local)
summary(result.anova)
# De x local present
deelocal<-read.csv("F:/FN/tatlantica_bylocal.csv", header=T)
attach(deelocal)
result.anova<-aov(de~place)
summary(result.anova)
# E x local present
result.anova<-aov(e~place)
summary(result.anova)
# de x local future
degcm<-read.csv("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis
atlantica/ExposureNoronha/tatlantica_bygcm.csv", header=T)
attach(degcm)
result.anova<-aov(de~local)
summary(result.anova)
# E x local future
result.anova<-aov(e~local)
summary(result.anova)
# Hr x local
hrlocal<-read.csv("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis
atlantica/Ha_Hr/hr_locality2.csv", header=T)
attach(hrlocal)
result.anova<-aov(hr~local)
summary(result.anova)
# exposure x gcm
```

```
expo<-read.csv("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis
atlantica/exposure_gcm.csv", header=T)
attach(expo)
result.anova<-aov(exposure~gcm)
summary(result.anova)
# Hr x rcp
degcm<-read.csv("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis
atlantica/Analyses/Basic Stats/tatlantica_bygcm.csv", header=T)
attach(degcm)
result.anova<-aov(hr~rcp+year)
summary(result.anova)
tatlantica_bygcm<-read.csv("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 3 effectiveness/MS
Trachylepis atlantica/Analyses/Basic Stats/tatlantica_bygcm.csv", header=T)
attach(tatlantica_bygcm)
aov_de<-aov(de~rcp+year)
summary(aov_de)
aov_e<-aov(e~rcp+year)
summary(aov_e)
aov_tsm<-aov(tsm~rcp+year)
summary(aov_tsm)
# Create the Richards model for ha and hr from HOBO data

# HOBOs

library(Mapinguari)
comunity_HOBO_ha_hr <- Process_HOBO_data (HOBOdata_value = "D:/Noronha_2018/Resultados - Ha
Hr/hobos.csv",
method_value = "mean",
                              Tlwr_value = 15.67,
                              Tupr_value = 30.73,
                              hcap_value = NULL,
                              diel_value='diurnal',
                              out_dir_value = "D:/Noronha_2018")
# bbmle list
RichHOBO_bbmle_list <- RichHOBO_bbmle_JCS (HOBOdf_ha_hr_value =
"D:/Noronha_2018/Trachylepis_atlantica_HOBO_derived_ha_hr_for_Richards.txt",
                              t_air_var_selected_value = "t_air_mean",
                              hcap_value = NULL,
                              Tupr_value = 30.73,
                              remove_excess_of_0_logical_value = TRUE,
                              locality_value = 'all',
                              months_selected_value = 1:12,
                              upper_quantile_value = 1,
                              lower_quantile_value = 0,
                              round_tolerance_for_excess_0_value = 0,
                              size_sample_value = 'all',
                              species_name_value = "Trachylepis atlantica",
                              variables_value <- c('ha','hr'),
                              path_output_dir_value = "D:/Noronha_2018")

# regressão Tar x Hobo
tairhobo10<-read.csv("tair_x_hobo10.csv", header=T)
attach(tairhobo)
reg<-lm(Tair~hobo)
summary(reg)

#SDM
### Script T. atlantica ###
        ### GCM: HE ###
```

```
setwd("C:/Users/VIEGAS/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis atlantica/SDM")
##corte de noronha

# Script SDM Barry Sinervo #

library(raster)

e <- extent(c(-32.48,-32.37,-3.9,-3.8))

alt.raster <- raster("C:/Users/VIEGAS/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis
atlantica/SDM/alt/BRA_msk_alt.gri")
alt.crop <- crop(alt.raster,e)
plot(alt.crop)


m1 <- raster("wc0.5/tmin1_34.bil")
m2 <- raster("wc0.5/tmin2_34.bil")
m3 <- raster("wc0.5/tmin3_34.bil")
m4 <- raster("wc0.5/tmin4_34.bil")
m5 <- raster("wc0.5/tmin5_34.bil")
m6 <- raster("wc0.5/tmin6_34.bil")
m7 <- raster("wc0.5/tmin7_34.bil")
m8 <- raster("wc0.5/tmin8_34.bil")
m9 <- raster("wc0.5/tmin9_34.bil")
m10 <- raster("wc0.5/tmin10_34.bil")
m11 <- raster("wc0.5/tmin11_34.bil")
m12 <- raster("wc0.5/tmin12_34.bil")
m1.crop <- crop(m1,e)
m2.crop <- crop(m2,e)
m3.crop <- crop(m3,e)
m4.crop <- crop(m4,e)
m5.crop <- crop(m5,e)
m6.crop <- crop(m6,e)
m7.crop <- crop(m7,e)
m8.crop <- crop(m8,e)
m9.crop <- crop(m9,e)
m10.crop <- crop(m10,e)
m11.crop <- crop(m11,e)
m12.crop <- crop(m12,e)


# and the future for Tmin - HE

#during activity
m1_he_af_50_45 <- raster("cmip5/30s/he45tn501.tif")
m2_he_af_50_45 <- raster("cmip5/30s/he45tn502.tif")
m3_he_af_50_45 <- raster("cmip5/30s/he45tn501.tif")
m4_he_af_50_45 <- raster("cmip5/30s/he45tn502.tif")
m5_he_af_50_45 <- raster("cmip5/30s/he45tn505.tif")
m6_he_af_50_45 <- raster("cmip5/30s/he45tn506.tif")
m7_he_af_50_45 <- raster("cmip5/30s/he45tn507.tif")
m8_he_af_50_45 <- raster("cmip5/30s/he45tn508.tif")
m9_he_af_50_45 <- raster("cmip5/30s/he45tn509.tif")
m10_he_af_50_45 <- raster("cmip5/30s/he45tn5010.tif")
m11_he_af_50_45 <- raster("cmip5/30s/he45tn5011.tif")
m12_he_af_50_45 <- raster("cmip5/30s/he45tn5012.tif")
m1_he_af_50_45.crop <- crop(m1_he_af_50_45,e)
m2_he_af_50_45.crop <- crop(m2_he_af_50_45,e)
m3_he_af_50_45.crop <- crop(m3_he_af_50_45,e)
m4_he_af_50_45.crop <- crop(m4_he_af_50_45,e)
```

```
m5_he_af_50_45.crop <- crop(m5_he_af_50_45,e)
m6_he_af_50_45.crop <- crop(m6_he_af_50_45,e)
m7_he_af_50_45.crop <- crop(m7_he_af_50_45,e)
m8_he_af_50_45.crop <- crop(m8_he_af_50_45,e)
m9_he_af_50_45.crop <- crop(m9_he_af_50_45,e)
m10_he_af_50_45.crop <- crop(m10_he_af_50_45,e)
m11_he_af_50_45.crop <- crop(m11_he_af_50_45,e)
m12_he_af_50_45.crop <- crop(m12_he_af_50_45,e)

#during activity
m1_he_af_50_85 <- raster("cmip5/30s/he85tn501.tif")
m2_he_af_50_85 <- raster("cmip5/30s/he85tn502.tif")
m3_he_af_50_85 <- raster("cmip5/30s/he85tn501.tif")
m4_he_af_50_85 <- raster("cmip5/30s/he85tn502.tif")
m5_he_af_50_85 <- raster("cmip5/30s/he85tn505.tif")
m6_he_af_50_85 <- raster("cmip5/30s/he85tn506.tif")
m7_he_af_50_85 <- raster("cmip5/30s/he85tn507.tif")
m8_he_af_50_85 <- raster("cmip5/30s/he85tn508.tif")
m9_he_af_50_85 <- raster("cmip5/30s/he85tn509.tif")
m10_he_af_50_85 <- raster("cmip5/30s/he85tn5010.tif")
m11_he_af_50_85 <- raster("cmip5/30s/he85tn5011.tif")
m12_he_af_50_85 <- raster("cmip5/30s/he85tn5012.tif")
m1_he_af_50_85.crop <- crop(m1_he_af_50_85,e)
m2_he_af_50_85.crop <- crop(m2_he_af_50_85,e)
m3_he_af_50_85.crop <- crop(m3_he_af_50_85,e)
m4_he_af_50_85.crop <- crop(m4_he_af_50_85,e)
m5_he_af_50_85.crop <- crop(m5_he_af_50_85,e)
m6_he_af_50_85.crop <- crop(m6_he_af_50_85,e)
m7_he_af_50_85.crop <- crop(m7_he_af_50_85,e)
m8_he_af_50_85.crop <- crop(m8_he_af_50_85,e)
m9_he_af_50_85.crop <- crop(m9_he_af_50_85,e)
m10_he_af_50_85.crop <- crop(m10_he_af_50_85,e)
m11_he_af_50_85.crop <- crop(m11_he_af_50_85,e)
m12_he_af_50_85.crop <- crop(m12_he_af_50_85,e)

#during activity
m1_he_af_70_45 <- raster("cmip5/30s/he45tn701.tif")
m2_he_af_70_45 <- raster("cmip5/30s/he45tn702.tif")
m3_he_af_70_45 <- raster("cmip5/30s/he45tn701.tif")
m4_he_af_70_45 <- raster("cmip5/30s/he45tn702.tif")
m5_he_af_70_45 <- raster("cmip5/30s/he45tn705.tif")
m6_he_af_70_45 <- raster("cmip5/30s/he45tn706.tif")
m7_he_af_70_45 <- raster("cmip5/30s/he45tn707.tif")
m8_he_af_70_45 <- raster("cmip5/30s/he45tn708.tif")
m9_he_af_70_45 <- raster("cmip5/30s/he45tn709.tif")
m10_he_af_70_45 <- raster("cmip5/30s/he45tn7010.tif")
m11_he_af_70_45 <- raster("cmip5/30s/he45tn7011.tif")
m12_he_af_70_45 <- raster("cmip5/30s/he45tn7012.tif")
m1_he_af_70_45.crop <- crop(m1_he_af_70_45,e)
m2_he_af_70_45.crop <- crop(m2_he_af_70_45,e)
m3_he_af_70_45.crop <- crop(m3_he_af_70_45,e)
m4_he_af_70_45.crop <- crop(m4_he_af_70_45,e)
m5_he_af_70_45.crop <- crop(m5_he_af_70_45,e)
m6_he_af_70_45.crop <- crop(m6_he_af_70_45,e)
m7_he_af_70_45.crop <- crop(m7_he_af_70_45,e)
m8_he_af_70_45.crop <- crop(m8_he_af_70_45,e)
m9_he_af_70_45.crop <- crop(m9_he_af_70_45,e)
m10_he_af_70_45.crop <- crop(m10_he_af_70_45,e)
m11_he_af_70_45.crop <- crop(m11_he_af_70_45,e)
m12_he_af_70_45.crop <- crop(m12_he_af_70_45,e)
```

```
#during activity
m1_he_af_70_85 <- raster("cmip5/30s/he85tn701.tif")
m2_he_af_70_85 <- raster("cmip5/30s/he85tn702.tif")
m3_he_af_70_85 <- raster("cmip5/30s/he85tn701.tif")
m4_he_af_70_85 <- raster("cmip5/30s/he85tn702.tif")
m5_he_af_70_85 <- raster("cmip5/30s/he85tn705.tif")
m6_he_af_70_85 <- raster("cmip5/30s/he85tn706.tif")
m7_he_af_70_85 <- raster("cmip5/30s/he85tn707.tif")
m8_he_af_70_85 <- raster("cmip5/30s/he85tn708.tif")
m9_he_af_70_85 <- raster("cmip5/30s/he85tn709.tif")
m10_he_af_70_85 <- raster("cmip5/30s/he85tn7010.tif")
m11_he_af_70_85 <- raster("cmip5/30s/he85tn7011.tif")
m12_he_af_70_85 <- raster("cmip5/30s/he85tn7012.tif")
m1_he_af_70_85.crop <- crop(m1_he_af_70_85,e)
m2_he_af_70_85.crop <- crop(m2_he_af_70_85,e)
m3_he_af_70_85.crop <- crop(m3_he_af_70_85,e)
m4_he_af_70_85.crop <- crop(m4_he_af_70_85,e)
m5_he_af_70_85.crop <- crop(m5_he_af_70_85,e)
m6_he_af_70_85.crop <- crop(m6_he_af_70_85,e)
m7_he_af_70_85.crop <- crop(m7_he_af_70_85,e)
m8_he_af_70_85.crop <- crop(m8_he_af_70_85,e)
m9_he_af_70_85.crop <- crop(m9_he_af_70_85,e)
m10_he_af_70_85.crop <- crop(m10_he_af_70_85,e)
m11_he_af_70_85.crop <- crop(m11_he_af_70_85,e)
m12_he_af_70_85.crop <- crop(m12_he_af_70_85,e)

# and then the usual parameters for hr, hr, prec
r1 <- raster("wc0.5/tmax1_34.bil")
r2 <- raster("wc0.5/tmax2_34.bil")
r3 <- raster("wc0.5/tmax3_34.bil")
r4 <- raster("wc0.5/tmax4_34.bil")
r5 <- raster("wc0.5/tmax5_34.bil")
r6 <- raster("wc0.5/tmax6_34.bil")
r7 <- raster("wc0.5/tmax7_34.bil")
r8 <- raster("wc0.5/tmax8_34.bil")
r9 <- raster("wc0.5/tmax9_34.bil")
r10 <- raster("wc0.5/tmax10_34.bil")
r11 <- raster("wc0.5/tmax11_34.bil")
r12 <- raster("wc0.5/tmax12_34.bil")
r1.crop <- crop(r1,e)
r2.crop <- crop(r2,e)
r3.crop <- crop(r3,e)
r4.crop <- crop(r4,e)
r5.crop <- crop(r5,e)
r6.crop <- crop(r6,e)
r7.crop <- crop(r7,e)
r8.crop <- crop(r8,e)
r9.crop <- crop(r9,e)
r10.crop <- crop(r10,e)
r11.crop <- crop(r11,e)
r12.crop <- crop(r12,e)

# and the future for Tmin - HE
#during activity
r1_he_af_50_45 <- raster("cmip5/30s/he45tx501.tif")
r2_he_af_50_45 <- raster("cmip5/30s/he45tx502.tif")
r3_he_af_50_45 <- raster("cmip5/30s/he45tx501.tif")
r4_he_af_50_45 <- raster("cmip5/30s/he45tx502.tif")
r5_he_af_50_45 <- raster("cmip5/30s/he45tx505.tif")
```

```
r6_he_af_50_45 <- raster("cmip5/30s/he45tx506.tif")
r7_he_af_50_45 <- raster("cmip5/30s/he45tx507.tif")
r8_he_af_50_45 <- raster("cmip5/30s/he45tx508.tif")
r9_he_af_50_45 <- raster("cmip5/30s/he45tx509.tif")
r10_he_af_50_45 <- raster("cmip5/30s/he45tx5010.tif")
r11_he_af_50_45 <- raster("cmip5/30s/he45tx5011.tif")
r12_he_af_50_45 <- raster("cmip5/30s/he45tx5012.tif")
r1_he_af_50_45.crop <- crop(r1_he_af_50_45,e)
r2_he_af_50_45.crop <- crop(r2_he_af_50_45,e)
r3_he_af_50_45.crop <- crop(r3_he_af_50_45,e)
r4_he_af_50_45.crop <- crop(r4_he_af_50_45,e)
r5_he_af_50_45.crop <- crop(r5_he_af_50_45,e)
r6_he_af_50_45.crop <- crop(r6_he_af_50_45,e)
r7_he_af_50_45.crop <- crop(r7_he_af_50_45,e)
r8_he_af_50_45.crop <- crop(r8_he_af_50_45,e)
r9_he_af_50_45.crop <- crop(r9_he_af_50_45,e)
r10_he_af_50_45.crop <- crop(r10_he_af_50_45,e)
r11_he_af_50_45.crop <- crop(r11_he_af_50_45,e)
r12_he_af_50_45.crop <- crop(r12_he_af_50_45,e)


#during activity
r1_he_af_50_85 <- raster("cmip5/30s/he85tx501.tif")
r2_he_af_50_85 <- raster("cmip5/30s/he85tx502.tif")
r3_he_af_50_85 <- raster("cmip5/30s/he85tx501.tif")
r4_he_af_50_85 <- raster("cmip5/30s/he85tx502.tif")
r5_he_af_50_85 <- raster("cmip5/30s/he85tx505.tif")
r6_he_af_50_85 <- raster("cmip5/30s/he85tx506.tif")
r7_he_af_50_85 <- raster("cmip5/30s/he85tx507.tif")
r8_he_af_50_85 <- raster("cmip5/30s/he85tx508.tif")
r9_he_af_50_85 <- raster("cmip5/30s/he85tx509.tif")
r10_he_af_50_85 <- raster("cmip5/30s/he85tx5010.tif")
r11_he_af_50_85 <- raster("cmip5/30s/he85tx5011.tif")
r12_he_af_50_85 <- raster("cmip5/30s/he85tx5012.tif")
r1_he_af_50_85.crop <- crop(r1_he_af_50_85,e)
r2_he_af_50_85.crop <- crop(r2_he_af_50_85,e)
r3_he_af_50_85.crop <- crop(r3_he_af_50_85,e)
r4_he_af_50_85.crop <- crop(r4_he_af_50_85,e)
r5_he_af_50_85.crop <- crop(r5_he_af_50_85,e)
r6_he_af_50_85.crop <- crop(r6_he_af_50_85,e)
r7_he_af_50_85.crop <- crop(r7_he_af_50_85,e)
r8_he_af_50_85.crop <- crop(r8_he_af_50_85,e)
r9_he_af_50_85.crop <- crop(r9_he_af_50_85,e)
r10_he_af_50_85.crop <- crop(r10_he_af_50_85,e)
r11_he_af_50_85.crop <- crop(r11_he_af_50_85,e)
r12_he_af_50_85.crop <- crop(r12_he_af_50_85,e)

#during activity
r1_he_af_70_45 <- raster("cmip5/30s/he45tx701.tif")
r2_he_af_70_45 <- raster("cmip5/30s/he45tx702.tif")
r3_he_af_70_45 <- raster("cmip5/30s/he45tx701.tif")
r4_he_af_70_45 <- raster("cmip5/30s/he45tx702.tif")
r5_he_af_70_45 <- raster("cmip5/30s/he45tx705.tif")
r6_he_af_70_45 <- raster("cmip5/30s/he45tx706.tif")
r7_he_af_70_45 <- raster("cmip5/30s/he45tx707.tif")
r8_he_af_70_45 <- raster("cmip5/30s/he45tx708.tif")
r9_he_af_70_45 <- raster("cmip5/30s/he45tx709.tif")
r10_he_af_70_45 <- raster("cmip5/30s/he45tx7010.tif")
r11_he_af_70_45 <- raster("cmip5/30s/he45tx7011.tif")
r12_he_af_70_45 <- raster("cmip5/30s/he45tx7012.tif")
```

```
r1_he_af_70_45.crop <- crop(r1_he_af_70_45,e)
r2_he_af_70_45.crop <- crop(r2_he_af_70_45,e)
r3_he_af_70_45.crop <- crop(r3_he_af_70_45,e)
r4_he_af_70_45.crop <- crop(r4_he_af_70_45,e)
r5_he_af_70_45.crop <- crop(r5_he_af_70_45,e)
r6_he_af_70_45.crop <- crop(r6_he_af_70_45,e)
r7_he_af_70_45.crop <- crop(r7_he_af_70_45,e)
r8_he_af_70_45.crop <- crop(r8_he_af_70_45,e)
r9_he_af_70_45.crop <- crop(r9_he_af_70_45,e)
r10_he_af_70_45.crop <- crop(r10_he_af_70_45,e)
r11_he_af_70_45.crop <- crop(r11_he_af_70_45,e)
r12_he_af_70_45.crop <- crop(r12_he_af_70_45,e)

#during activity
r1_he_af_70_85 <- raster("cmip5/30s/he85tx701.tif")
r2_he_af_70_85 <- raster("cmip5/30s/he85tx702.tif")
r3_he_af_70_85 <- raster("cmip5/30s/he85tx701.tif")
r4_he_af_70_85 <- raster("cmip5/30s/he85tx702.tif")
r5_he_af_70_85 <- raster("cmip5/30s/he85tx705.tif")
r6_he_af_70_85 <- raster("cmip5/30s/he85tx706.tif")
r7_he_af_70_85 <- raster("cmip5/30s/he85tx707.tif")
r8_he_af_70_85 <- raster("cmip5/30s/he85tx708.tif")
r9_he_af_70_85 <- raster("cmip5/30s/he85tx709.tif")
r10_he_af_70_85 <- raster("cmip5/30s/he85tx7010.tif")
r11_he_af_70_85 <- raster("cmip5/30s/he85tx7011.tif")
r12_he_af_70_85 <- raster("cmip5/30s/he85tx7012.tif")
r1_he_af_70_85.crop <- crop(r1_he_af_70_85,e)
r2_he_af_70_85.crop <- crop(r2_he_af_70_85,e)
r3_he_af_70_85.crop <- crop(r3_he_af_70_85,e)
r4_he_af_70_85.crop <- crop(r4_he_af_70_85,e)
r5_he_af_70_85.crop <- crop(r5_he_af_70_85,e)
r6_he_af_70_85.crop <- crop(r6_he_af_70_85,e)
r7_he_af_70_85.crop <- crop(r7_he_af_70_85,e)
r8_he_af_70_85.crop <- crop(r8_he_af_70_85,e)
r9_he_af_70_85.crop <- crop(r9_he_af_70_85,e)
r10_he_af_70_85.crop <- crop(r10_he_af_70_85,e)
r11_he_af_70_85.crop <- crop(r11_he_af_70_85,e)
r12_he_af_70_85.crop <- crop(r12_he_af_70_85,e)

# now compute tvag to be used in h_a_by_months
a1.crop <- (r1.crop+m1.crop)/2
a2.crop <- (r2.crop+m2.crop)/2
a3.crop <- (r3.crop+m3.crop)/2
a4.crop <- (r4.crop+m4.crop)/2
a5.crop <- (r5.crop+m5.crop)/2
a6.crop <- (r6.crop+m6.crop)/2
a7.crop <- (r7.crop+m7.crop)/2
a8.crop <- (r8.crop+m8.crop)/2
a9.crop <- (r9.crop+m9.crop)/2
a10.crop <- (r10.crop+m10.crop)/2
a11.crop <- (r11.crop+m11.crop)/2
a12.crop <- (r12.crop+m12.crop)/2

#need a big for loop for all cells
#first make a stack
#best done as a matrix - in degrees C
a1.m <- as.matrix(a1.crop)/10
a2.m <- as.matrix(a2.crop)/10
a3.m <- as.matrix(a3.crop)/10
a4.m <- as.matrix(a4.crop)/10
```

```
a5.m <- as.matrix(a5.crop)/10
a6.m <- as.matrix(a6.crop)/10
a7.m <- as.matrix(a7.crop)/10
a8.m <- as.matrix(a8.crop)/10
a9.m <- as.matrix(a9.crop)/10
a10.m <- as.matrix(a10.crop)/10
a11.m <- as.matrix(a11.crop)/10
a12.m <- as.matrix(a12.crop)/10
#for the full space create a vector of months of the year
m1.m <- as.matrix(m1.crop)/10
m2.m <- as.matrix(m2.crop)/10
m3.m <- as.matrix(m3.crop)/10
m4.m <- as.matrix(m4.crop)/10
m5.m <- as.matrix(m5.crop)/10
m6.m <- as.matrix(m6.crop)/10
m7.m <- as.matrix(m7.crop)/10
m8.m <- as.matrix(m8.crop)/10
m9.m <- as.matrix(m9.crop)/10
m10.m <- as.matrix(m10.crop)/10
m11.m <- as.matrix(m11.crop)/10
m12.m <- as.matrix(m12.crop)/10
#for the full space create a vector of months of the year

# now compute tvag to be used in h_a by months FOR FUTURE!!
#HE
#2050 45
a1_he_50_45.crop <- (r1_he_af_50_45.crop+m1_he_af_50_45.crop)/2
a2_he_50_45.crop <- (r2_he_af_50_45.crop+m2_he_af_50_45.crop)/2
a3_he_50_45.crop <- (r3_he_af_50_45.crop+m3_he_af_50_45.crop)/2
a4_he_50_45.crop <- (r4_he_af_50_45.crop+m4_he_af_50_45.crop)/2
a5_he_50_45.crop <- (r5_he_af_50_45.crop+m5_he_af_50_45.crop)/2
a6_he_50_45.crop <- (r6_he_af_50_45.crop+m6_he_af_50_45.crop)/2
a7_he_50_45.crop <- (r7_he_af_50_45.crop+m7_he_af_50_45.crop)/2
a8_he_50_45.crop <- (r8_he_af_50_45.crop+m8_he_af_50_45.crop)/2
a9_he_50_45.crop <- (r9_he_af_50_45.crop+m9_he_af_50_45.crop)/2
a10_he_50_45.crop <- (r10_he_af_50_45.crop+m10_he_af_50_45.crop)/2
a11_he_50_45.crop <- (r11_he_af_50_45.crop+m11_he_af_50_45.crop)/2
a12_he_50_45.crop <- (r12_he_af_50_45.crop+m12_he_af_50_45.crop)/2
# 2050 85
a1_he_50_85.crop <- (r1_he_af_50_85.crop+m1_he_af_50_85.crop)/2
a2_he_50_85.crop <- (r2_he_af_50_85.crop+m2_he_af_50_85.crop)/2
a3_he_50_85.crop <- (r3_he_af_50_85.crop+m3_he_af_50_85.crop)/2
a4_he_50_85.crop <- (r4_he_af_50_85.crop+m4_he_af_50_85.crop)/2
a5_he_50_85.crop <- (r5_he_af_50_85.crop+m5_he_af_50_85.crop)/2
a6_he_50_85.crop <- (r6_he_af_50_85.crop+m6_he_af_50_85.crop)/2
a7_he_50_85.crop <- (r7_he_af_50_85.crop+m7_he_af_50_85.crop)/2
a8_he_50_85.crop <- (r8_he_af_50_85.crop+m8_he_af_50_85.crop)/2
a9_he_50_85.crop <- (r9_he_af_50_85.crop+m9_he_af_50_85.crop)/2
a10_he_50_85.crop <- (r10_he_af_50_85.crop+m10_he_af_50_85.crop)/2
a11_he_50_85.crop <- (r11_he_af_50_85.crop+m11_he_af_50_85.crop)/2
a12_he_50_85.crop <- (r12_he_af_50_85.crop+m12_he_af_50_85.crop)/2

# 2070 45
a1_he_70_45.crop <- (r1_he_af_70_45.crop+m1_he_af_70_45.crop)/2
a2_he_70_45.crop <- (r2_he_af_70_45.crop+m2_he_af_70_45.crop)/2
a3_he_70_45.crop <- (r3_he_af_70_45.crop+m3_he_af_70_45.crop)/2
a4_he_70_45.crop <- (r4_he_af_70_45.crop+m4_he_af_70_45.crop)/2
a5_he_70_45.crop <- (r5_he_af_70_45.crop+m5_he_af_70_45.crop)/2
a6_he_70_45.crop <- (r6_he_af_70_45.crop+m6_he_af_70_45.crop)/2
a7_he_70_45.crop <- (r7_he_af_70_45.crop+m7_he_af_70_45.crop)/2
```

```
a8_he_70_45.crop <- (r8_he_af_70_45.crop+m8_he_af_70_45.crop)/2
a9_he_70_45.crop <- (r9_he_af_70_45.crop+m9_he_af_70_45.crop)/2
a10_he_70_45.crop <- (r10_he_af_70_45.crop+m10_he_af_70_45.crop)/2
a11_he_70_45.crop <- (r11_he_af_70_45.crop+m11_he_af_70_45.crop)/2
a12_he_70_45.crop <- (r12_he_af_70_45.crop+m12_he_af_70_45.crop)/2

# 2070 85
a1_he_70_85.crop <- (r1_he_af_70_85.crop+m1_he_af_70_85.crop)/2
a2_he_70_85.crop <- (r2_he_af_70_85.crop+m2_he_af_70_85.crop)/2
a3_he_70_85.crop <- (r3_he_af_70_85.crop+m3_he_af_70_85.crop)/2
a4_he_70_85.crop <- (r4_he_af_70_85.crop+m4_he_af_70_85.crop)/2
a5_he_70_85.crop <- (r5_he_af_70_85.crop+m5_he_af_70_85.crop)/2
a6_he_70_85.crop <- (r6_he_af_70_85.crop+m6_he_af_70_85.crop)/2
a7_he_70_85.crop <- (r7_he_af_70_85.crop+m7_he_af_70_85.crop)/2
a8_he_70_85.crop <- (r8_he_af_70_85.crop+m8_he_af_70_85.crop)/2
a9_he_70_85.crop <- (r9_he_af_70_85.crop+m9_he_af_70_85.crop)/2
a10_he_70_85.crop <- (r10_he_af_70_85.crop+m10_he_af_70_85.crop)/2
a11_he_70_85.crop <- (r11_he_af_70_85.crop+m11_he_af_70_85.crop)/2
a12_he_70_85.crop <- (r12_he_af_70_85.crop+m12_he_af_70_85.crop)/2

#HE
#2050_45
a1_he_50_45.m <- as.matrix(a1_he_50_45.crop)/10
a2_he_50_45.m <- as.matrix(a2_he_50_45.crop)/10
a3_he_50_45.m <- as.matrix(a3_he_50_45.crop)/10
a4_he_50_45.m <- as.matrix(a4_he_50_45.crop)/10
a5_he_50_45.m <- as.matrix(a5_he_50_45.crop)/10
a6_he_50_45.m <- as.matrix(a6_he_50_45.crop)/10
a7_he_50_45.m <- as.matrix(a7_he_50_45.crop)/10
a8_he_50_45.m <- as.matrix(a8_he_50_45.crop)/10
a9_he_50_45.m <- as.matrix(a9_he_50_45.crop)/10
a10_he_50_45.m <- as.matrix(a10_he_50_45.crop)/10
a11_he_50_45.m <- as.matrix(a11_he_50_45.crop)/10
a12_he_50_45.m <- as.matrix(a12_he_50_45.crop)/10

# 2050 85
a1_he_50_85.m <- as.matrix(a1_he_50_85.crop)/10
a2_he_50_85.m <- as.matrix(a2_he_50_85.crop)/10
a3_he_50_85.m <- as.matrix(a3_he_50_85.crop)/10
a4_he_50_85.m <- as.matrix(a4_he_50_85.crop)/10
a5_he_50_85.m <- as.matrix(a5_he_50_85.crop)/10
a6_he_50_85.m <- as.matrix(a6_he_50_85.crop)/10
a7_he_50_85.m <- as.matrix(a7_he_50_85.crop)/10
a8_he_50_85.m <- as.matrix(a8_he_50_85.crop)/10
a9_he_50_85.m <- as.matrix(a9_he_50_85.crop)/10
a10_he_50_85.m <- as.matrix(a10_he_50_85.crop)/10
a11_he_50_85.m <- as.matrix(a11_he_50_85.crop)/10
a12_he_50_85.m <- as.matrix(a12_he_50_85.crop)/10

#2070_45
a1_he_70_45.m <- as.matrix(a1_he_70_45.crop)/10
a2_he_70_45.m <- as.matrix(a2_he_70_45.crop)/10
a3_he_70_45.m <- as.matrix(a3_he_70_45.crop)/10
a4_he_70_45.m <- as.matrix(a4_he_70_45.crop)/10
a5_he_70_45.m <- as.matrix(a5_he_70_45.crop)/10
a6_he_70_45.m <- as.matrix(a6_he_70_45.crop)/10
a7_he_70_45.m <- as.matrix(a7_he_70_45.crop)/10
a8_he_70_45.m <- as.matrix(a8_he_70_45.crop)/10
a9_he_70_45.m <- as.matrix(a9_he_70_45.crop)/10
a10_he_70_45.m <- as.matrix(a10_he_70_45.crop)/10
```

```
a11_he_70_45.m <- as.matrix(a11_he_70_45.crop)/10
a12_he_70_45.m <- as.matrix(a12_he_70_45.crop)/10

# 2070 85
a1_he_70_85.m <- as.matrix(a1_he_70_85.crop)/10
a2_he_70_85.m <- as.matrix(a2_he_70_85.crop)/10
a3_he_70_85.m <- as.matrix(a3_he_70_85.crop)/10
a4_he_70_85.m <- as.matrix(a4_he_70_85.crop)/10
a5_he_70_85.m <- as.matrix(a5_he_70_85.crop)/10
a6_he_70_85.m <- as.matrix(a6_he_70_85.crop)/10
a7_he_70_85.m <- as.matrix(a7_he_70_85.crop)/10
a8_he_70_85.m <- as.matrix(a8_he_70_85.crop)/10
a9_he_70_85.m <- as.matrix(a9_he_70_85.crop)/10
a10_he_70_85.m <- as.matrix(a10_he_70_85.crop)/10
a11_he_70_85.m <- as.matrix(a11_he_70_85.crop)/10
a12_he_70_85.m <- as.matrix(a12_he_70_85.crop)/10


#present
dim_a <- dim(a1.crop)
# which ends up too big as a matrix
# so

dim_a <- c(dim_a[1],dim_a[2]) # to make it a n x n dim
h_a_by_months <- array(0, dim=c(dim_a[1],dim_a[2]))

sum_activity_months <- function(){

T_start <- 3.086874
T_end <- 3.086874
#T_end <- 10.26832
resolution <- 0.1666667
for(r in 1:dim_a[1]){
   cat(r)
   for(c in 1:dim_a[2]){
#        cat(c,',')
        if(c%%20==0) cat(",")
        sum_m <- 0   # zero the month accumulator for activity
tav <- c(a1.m[r,c] , a2.m[r,c] , a3.m[r,c] , a4.m[r,c] , a5.m[r,c] , a6.m[r,c] , a7.m[r,c] , a8.m[r,c] , a9.m[r,c] ,
a10.m[r,c] , a11.m[r,c] , a12.m[r,c])
old_tav <- a12.m[r,c] #as in December (for the next UP test Jan)
          LatTest <- e[4] - r*resolution
          LonTest <- e[1] + c*resolution
          if(LatTest > 35 - 0.1666667/2  && LatTest < 35 + 0.1666667/2 && LonTest < -85 - 0.1666667/2  &&
LonTest > -85 + 0.1666667/2)
            cat('\n',tav,'\n')
if(r==250 && c==250)
  cat('\n',tav,'\n')
        UP = FALSE # No UPcrossing YET
        DOWN = FALSE # No DOWNcrossing YET
        END_point_case <- FALSE
        m_DOWN <- 0
        m_UP <- 0
        if( !is.na(tav[1]) ){ # test for in ocean NA values
         #if (is.na(m_DOWN)) cat("r:",r," ","c:",c," ",tav,'\n')
# first handle the simple ENDpoint of 0 and 12 hours above or below T_start and T_end -- then handle the UP
and DOWN crossings
          if ( min(tav) > T_end && min(tav) > T_start ) { # min(tav) is bigger than T_end and T_start -- the temp
never drops so 12 mo
             sum_m <- 12
```

```
      m_UP <- 0  # needed to set for the non-existent case
      m_DOWN <- 0 # needed to set for the non-existent case
      END_point_case <- TRUE
    }
    else if( max(tav) < T_end && max(tav) < T_start ){ # max(tav) is less than T_end and T_start -- the temp
never rises above so 0 mo
      sum_m <- 0
      m_UP <- 0  # needed to set for the non-existent case
      m_DOWN <- 0 # needed to set for the non-existent case
      END_point_case <- TRUE
    }
    else{  # the cases where you should have both an UPcrossing and a DOWNcrossing in months for T_start
and for T_end
      for(m in 1:12){
        if( ! UP && tav[m] > T_start && old_tav < T_start){ # this is the upcrossing case WITH tav >
T_start > old_tav
          # compute the y_crossing that solves y=ax+b=T_start = ax+b so b=y-ax
          # the DOWN_crossing or UP_crossing use the following linear interpolation
          # know Tav[Feb]-Tav[Jan] so x is 1 (month)
          # a = (tav[m]-old_tav)/(1.5-.5) = (tav[m]-old_tav)/1 = (tav[m]-old_tav), month avg are at midpoint
but here 0,1
          # b = old_tav-(tav[m]-old_tav),
          # so x = (y-b)/a

          # but first test for zero slope (which will generate infinity on the above x = (y-b)/a calc
          p_m <- (tav[m]-T_start)/(tav[m]-old_tav)
            sum_m <- p_m + sum_m  # use the right (UP side) of m frac
            UP = TRUE
            m_UP <- m
            UP_digi_m <- m + (1-p_m)
        } # end if UPcrossing
        if( ! DOWN && tav[m] < T_end && old_tav > T_end){ # this is the DOWN_crossing case with tav
< T_end < old_tav
          # do the downcrossing with T_end
          p_m <- (old_tav-T_end)/(old_tav-tav[m])
          sum_m <- p_m + sum_m  # use the left (DOWN side) of m frac
          DOWN <- TRUE # the DOWNcrossing must have occurred since  tav[m] < T_end && old_tav >
T_end
          m_DOWN <- m
          DOWN_digi_m <- m + p_m
        }

        old_tav <- tav[m]

      } # end for loop for months

      # once you end the for loop you can compute the months in between UP DOWN including those where
there are ties
      # between tav[m] and old_tav (e.g., old_tav == tav[m-1]
      # if (is.na(m_DOWN)) cat("r:",r," ","c:",c," ",tav)
      if(r==250 && c==250)
        cat('m_DOWN:',m_DOWN,' ','m_UP:',m_UP,'\n')

# to handle the case where DOWN is in Jan and UP is thereafter  m_UP > m_DOWN && m_DOWN < 3
# 2.95 5.2 9.1 14.1 18.7 23.15 24.55 23.65 19.95 14.5 8.4 3.75
# m_DOWN: 1   m_UP: 2

      if ( END_point_case ){
         # endpoint case so Nothing
      }
```

```
            else if ( m_DOWN == m_UP ){
               sum_m <- 11 + sum_m
               # no sum_m <- sum_m + 1, as the p_m's above have computed, as above m_UP = m_DOWN = 0
            }
            else if( m_UP <  m_DOWN ){   # the simple case
               sum_m <- sum_m + m_DOWN - m_UP  # where p_m fractional crossings are added above
            }
            else if ( m_UP > m_DOWN && m_DOWN < 3){
               sum_m <- sum_m + 12 - (m_UP-m_DOWN)
            }
            else if ( m_UP >  m_DOWN ){
               sum_m <- sum_m +  m_UP - m_DOWN  # where p_m fractional crossings are added above
            }
            else cat('[', m_UP ,',',  m_DOWN,']') # error handling

          } #end else has a computable value
        }
        else{ # assign NA to sum_m
sum_m <- NA
        }
        h_a_by_months[r,c] <<- sum_m
} # end c
}  # end r
h_a_by_months.raster <<- raster(h_a_by_months,xmn=-32.48,xmx=-32.37,ymn=-3.9,ymx=-
3.8,crs=crs(wrld_simpl)) # e <-  extent(c(-32.48,-32.37,-3.9,-3.8))
plot(h_a_by_months.raster)
}

sum_activity_months() # RUN IT
# inclui a linha:
library(maptools)
data(wrld_simpl)


h_a_by_months.raster <- raster(h_a_by_months,xmn=-32.48,xmx=-32.37,ymn=-3.9,ymx=-
3.8,crs=crs(wrld_simpl)) # extent(c(-32.48,-32.37,-3.9,-3.8))
# correct errors
h_a_by_months.raster[h_a_by_months.raster>12] <- 12
h_a_by_months.raster[h_a_by_months.raster<0] <- 0


# future
#2050 45
#dim_a_2050_45 <- dim(a1_he_50_45.crop)
# which ends up too big as a matrix
# so
#dim_a_2050_45 <- c(dim_a_2050_45[1],dim_a_2050_45[2]) # to make it a n x n dim
#h_a_by_months_2050_45 <- array(0, dim=c(dim_a_2050_45[1],dim_a_2050_45[2]))
#sum_activity_months() # RUN IT

#h_a_by_months_2050_45.raster <- raster(h_a_by_months_2050_45,xmn=-44,xmx=-40,ymn=-24,ymx=-
20,crs=crs(wrld_simpl))#-32.48,-32.37,-3.9,-3.8
# correct errors
#h_a_by_months_2050_45.raster[h_a_by_months_2050_45.raster>12] <- 12
#h_a_by_months_2050_45.raster[h_a_by_months_2050_45.raster<0] <- 0
#plot(h_a_by_months_2050_45.raster)

#now loop through all months for all r,c
#testing for
#mean(tavg_start)
```

```
# 3.086874
# mean(tavg_end)
# 10.26832
# after running
data(wrld_simpl)
#> crs(wrld_simpl)
#CRS arguments:
# +proj=longlat +ellps=WGS84 +datum=WGS84 +no_defs +towgs84=0,0,0
#h_a_by_months.raster <- raster(h_a_by_months,nrow=dim_a[1],ncol=dim_a[2],crs=crs(world_simpl))

# preferred
#h_a_by_months.raster <- raster(h_a_by_months,xmn=-32.48,xmx=-32.37,ymn=-3.9,ymx=-
3.8,crs=crs(wrld_simpl))#e <-  extent(c(-32.48,-32.37,-3.9,-3.8))

theta1 <- 15.0046131638812
theta2 <- 0.0149156034370082
theta3 <- 0.398067766069051
theta4 <- 0.0075126208383344

r_hr5.crop  <- theta1/((1+theta2*exp(theta3*(r5.crop/10-17.2)))^(1/theta4))
r_hr6.crop  <- theta1/((1+theta2*exp(theta3*(r6.crop/10-17.2)))^(1/theta4))
r_hr7.crop  <- theta1/((1+theta2*exp(theta3*(r7.crop/10-17.2)))^(1/theta4))
r_hr8.crop  <- theta1/((1+theta2*exp(theta3*(r8.crop/10-17.2)))^(1/theta4))
r_hr9.crop  <- theta1/((1+theta2*exp(theta3*(r9.crop/10-17.2)))^(1/theta4))
r_ha5.crop <- 13/((1+8.778*exp(-1.4967*(r5.crop/10-35.5)))^(1/8.486635))
r_ha6.crop <- 13/((1+8.778*exp(-1.4967*(r6.crop/10-35.5)))^(1/8.486635))
r_ha7.crop <- 13/((1+8.778*exp(-1.4967*(r7.crop/10-35.5)))^(1/8.486635))
r_ha8.crop <- 13/((1+8.778*exp(-1.4967*(r8.crop/10-35.5)))^(1/8.486635))
rsum_ha.crop <- (r_ha5.crop+r_ha6.crop+r_ha7.crop+r_ha8.crop)
ravg_hr_MayAug.crop <- (r_hr5.crop+r_hr6.crop+r_hr7.crop+r_hr8.crop)/4

# the new Tmin surfaces
#2050 45
mavg_MayAug.crop <- (m5.crop+m6.crop+m7.crop+m8.crop)/4
mavg_MayAug_af_2050_45.crop <- (m5_he_af_50_45.crop +
m6_he_af_50_45.crop+m7_he_af_50_45.crop+m8_he_af_50_45.crop)/4
mavg_SepApr.crop <- (m9.crop+m10.crop+m11.crop+m12.crop+ m1.crop+m2.crop+m3.crop+m4.crop)/8
mavg_SepApr_af_2050_45.crop <- (m9_he_af_50_45.crop +
m10_he_af_50_45.crop+m11_he_af_50_45.crop+m12_he_af_50_45+
m1_he_af_50_45.crop+m2_he_af_50_45.crop+m3_he_af_50_45+m4_he_af_50_45.crop)/8

#2050 85
mavg_MayAug.crop <- (m5.crop+m6.crop+m7.crop+m8.crop)/4
mavg_MayAug_af_2050_85.crop <- (m5_he_af_50_85.crop +
m6_he_af_50_85.crop+m7_he_af_50_85.crop+m8_he_af_50_85.crop)/4
mavg_SepApr.crop <- (m9.crop+m10.crop+m11.crop+m12.crop+ m1.crop+m2.crop+m3.crop+m4.crop)/8
mavg_SepApr_af_2050_85.crop <- (m9_he_af_50_85.crop +
m10_he_af_50_85.crop+m11_he_af_50_85.crop+m12_he_af_50_85+
m1_he_af_50_85.crop+m2_he_af_50_85.crop+m3_he_af_50_85+m4_he_af_50_85.crop)/8

#2070 45
mavg_MayAug.crop <- (m5.crop+m6.crop+m7.crop+m8.crop)/4
mavg_MayAug_af_2070_45.crop <- (m5_he_af_70_45.crop +
m6_he_af_70_45.crop+m7_he_af_70_45.crop+m8_he_af_70_45.crop)/4
mavg_SepApr.crop <- (m9.crop+m10.crop+m11.crop+m12.crop+ m1.crop+m2.crop+m3.crop+m4.crop)/8
mavg_SepApr_af_2070_45.crop <- (m9_he_af_70_45.crop +
m10_he_af_70_45.crop+m11_he_af_70_45.crop+m12_he_af_70_45+
m1_he_af_70_45.crop+m2_he_af_70_45.crop+m3_he_af_70_45+m4_he_af_70_45.crop)/8

# 2070 85
```

```
mavg_MayAug.crop <- (m5.crop+m6.crop+m7.crop+m8.crop)/4
mavg_MayAug_af_2070_85.crop <- (m5_he_af_70_85.crop +
m6_he_af_70_85.crop+m7_he_af_70_85.crop+m8_he_af_70_85.crop)/4
mavg_SepApr.crop <- (m9.crop+m10.crop+m11.crop+m12.crop+ m1.crop+m2.crop+m3.crop+m4.crop)/8
mavg_SepApr_af_af_2070_85.crop <- (m9_he_af_70_85.crop +
m10_he_af_70_85.crop+m11_he_af_70_85.crop+m12_he_af_70_85+
m1_he_af_70_85.crop+m2_he_af_70_85.crop+m3_he_af_70_85+m4_he_af_70_85.crop)/8

#m1_he_af_50_85

# HE
# 2050 45
r1_af_he_50_45 <- raster("cmip5/30s/he45tx501.tif")
r2_af_he_50_45 <- raster("cmip5/30s/he45tx502.tif")
r3_af_he_50_45 <- raster("cmip5/30s/he45tx503.tif")
r4_af_he_50_45 <- raster("cmip5/30s/he45tx504.tif")
r5_af_he_50_45 <- raster("cmip5/30s/he45tx505.tif")
r6_af_he_50_45 <- raster("cmip5/30s/he45tx506.tif")
r7_af_he_50_45 <- raster("cmip5/30s/he45tx507.tif")
r8_af_he_50_45 <- raster("cmip5/30s/he45tx508.tif")
r9_af_he_50_45 <- raster("cmip5/30s/he45tx509.tif")
r10_af_he_50_45 <- raster("cmip5/30s/he45tx5010.tif")
r11_af_he_50_45 <- raster("cmip5/30s/he45tx5011.tif")
r12_af_he_50_45 <- raster("cmip5/30s/he45tx5012.tif")
r1_af_he_50_45.crop = crop(r1_af_he_50_45,e)
r2_af_he_50_45.crop = crop(r2_af_he_50_45,e)
r3_af_he_50_45.crop = crop(r3_af_he_50_45,e)
r4_af_he_50_45.crop = crop(r4_af_he_50_45,e)
r5_af_he_50_45.crop = crop(r5_af_he_50_45,e)
r6_af_he_50_45.crop = crop(r6_af_he_50_45,e)
r7_af_he_50_45.crop = crop(r7_af_he_50_45,e)
r8_af_he_50_45.crop = crop(r8_af_he_50_45,e)
r9_af_he_50_45.crop = crop(r9_af_he_50_45,e)
r10_af_he_50_45.crop = crop(r10_af_he_50_45,e)
r11_af_he_50_45.crop = crop(r11_af_he_50_45,e)
r12_af_he_50_45.crop = crop(r12_af_he_50_45,e)

r_hr5_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r5_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr6_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r6_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr7_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r7_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr8_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r8_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr9_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r9_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr3_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r3_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr4_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r4_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr10_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r10_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr11_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r11_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr12_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r12_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr1_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r1_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr2_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r2_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_ha5_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r5_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha6_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r6_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha7_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r7_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha8_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r8_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha9_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r9_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha10_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r10_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha11_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r11_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha12_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r12_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha1_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r1_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha2_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r2_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha3_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r3_af_he_50_45.crop/10-35.5)))^(1/8.486635))
```

```
r_ha4_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r4_af_he_50_45.crop/10-35.5)))^(1/8.486635))

r_hr1_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r1_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr2_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r2_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr3_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r3_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr4_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r4_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr10_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r10_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr11_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r11_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr12_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r12_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr5_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r5_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr6_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r6_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr7_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r7_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr8_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r8_af_he_50_45.crop/10-17.2)))^(1/theta4))
r_hr9_af_he_50_45.crop  <- theta1/((1+theta2*exp(theta3*(r9_af_he_50_45.crop/10-17.2)))^(1/theta4))

r_ha9_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r9_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha10_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r10_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha11_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r11_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha12_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r12_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha1_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r1_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha2_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r2_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha3_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r3_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha4_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r4_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha5_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r5_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha6_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r6_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha7_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r7_af_he_50_45.crop/10-35.5)))^(1/8.486635))
r_ha8_af_he_50_45.crop <- 13/((1+8.778*exp(-1.4967*(r8_af_he_50_45.crop/10-35.5)))^(1/8.486635))
rsum_ha_MayAug_af_he_50_45.crop <-
(r_ha5_af_he_50_45.crop+r_ha6_af_he_50_45.crop+r_ha7_af_he_50_45.crop+r_ha8_af_he_50_45.crop)
ravg_hr_MayAug_af_he_50_45.crop <-
(r_hr5_af_he_50_45.crop+r_hr6_af_he_50_45.crop+r_hr7_af_he_50_45.crop+r_hr8_af_he_50_45.crop)/4
rsum_ha_SepApr_af_he_50_45.crop <-
(r_ha9_af_he_50_45.crop+r_ha10_af_he_50_45.crop+r_ha11_af_he_50_45.crop+r_ha12_af_he_50_45.crop+r_
ha1_af_he_50_45.crop+r_ha2_af_he_50_45.crop+r_ha3_af_he_50_45.crop+r_ha4_af_he_50_45.crop)
ravg_hr_SepApr_af_he_50_45.crop <-
(r_hr9_af_he_50_45.crop+r_hr10_af_he_50_45.crop+r_hr11_af_he_50_45.crop+r_hr12_af_he_50_45.crop+r_h
r1_af_he_50_45.crop+r_hr2_af_he_50_45.crop+r_hr3_af_he_50_45.crop+r_hr4_af_he_50_45.crop)/4

# 2050 85

r1_af_he_50_85 <- raster("cmip5/30s/he85tx501.tif")
r2_af_he_50_85 <- raster("cmip5/30s/he85tx502.tif")
r3_af_he_50_85 <- raster("cmip5/30s/he85tx503.tif")
r4_af_he_50_85 <- raster("cmip5/30s/he85tx504.tif")
r5_af_he_50_85 <- raster("cmip5/30s/he85tx505.tif")
r6_af_he_50_85 <- raster("cmip5/30s/he85tx506.tif")
r7_af_he_50_85 <- raster("cmip5/30s/he85tx507.tif")
r8_af_he_50_85 <- raster("cmip5/30s/he85tx508.tif")
r9_af_he_50_85 <- raster("cmip5/30s/he85tx509.tif")
r10_af_he_50_85 <- raster("cmip5/30s/he85tx5010.tif")
r11_af_he_50_85 <- raster("cmip5/30s/he85tx5011.tif")
r12_af_he_50_85 <- raster("cmip5/30s/he85tx5012.tif")

r1_af_he_50_85.crop = crop(r1_af_he_50_85,e)
r2_af_he_50_85.crop = crop(r2_af_he_50_85,e)
r3_af_he_50_85.crop = crop(r3_af_he_50_85,e)
r4_af_he_50_85.crop = crop(r4_af_he_50_85,e)
r5_af_he_50_85.crop = crop(r5_af_he_50_85,e)
r6_af_he_50_85.crop = crop(r6_af_he_50_85,e)
r7_af_he_50_85.crop = crop(r7_af_he_50_85,e)
```

```
r8_af_he_50_85.crop = crop(r8_af_he_50_85,e)
r9_af_he_50_85.crop = crop(r9_af_he_50_85,e)
r10_af_he_50_85.crop = crop(r10_af_he_50_85,e)
r11_af_he_50_85.crop = crop(r11_af_he_50_85,e)
r12_af_he_50_85.crop = crop(r12_af_he_50_85,e)

r_hr1_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r1_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr2_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r2_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr3_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r3_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr4_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r4_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr10_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r10_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr11_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r11_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr12_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r12_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr5_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r5_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr6_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r6_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr7_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r7_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr8_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r8_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_hr9_af_he_50_85.crop  <- theta1/((1+theta2*exp(theta3*(r9_af_he_50_85.crop/10-17.2)))^(1/theta4))
r_ha9_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r9_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha10_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r10_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha11_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r11_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha12_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r12_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha1_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r1_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha2_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r2_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha3_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r3_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha4_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r4_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha5_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r5_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha6_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r6_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha7_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r7_af_he_50_85.crop/10-35.5)))^(1/8.486635))
r_ha8_af_he_50_85.crop <- 13/((1+8.778*exp(-1.4967*(r8_af_he_50_85.crop/10-35.5)))^(1/8.486635))
rsum_ha_MayAug_af_he_50_85.crop <-
(r_ha5_af_he_50_85.crop+r_ha6_af_he_50_85.crop+r_ha7_af_he_50_85.crop+r_ha8_af_he_50_85.crop)
ravg_hr_MayAug_af_he_50_85.crop <-
(r_hr5_af_he_50_85.crop+r_hr6_af_he_50_85.crop+r_hr7_af_he_50_85.crop+r_hr8_af_he_50_85.crop)/4

rsum_ha_SepApr_af_he_50_85.crop <-
(r_ha9_af_he_50_85.crop+r_ha10_af_he_50_85.crop+r_ha11_af_he_50_85.crop+r_ha12_af_he_50_85.crop+r_
ha1_af_he_50_85.crop+r_ha2_af_he_50_85.crop+r_ha3_af_he_50_85.crop+r_ha4_af_he_50_85.crop)
ravg_hr_SepApr_af_he_50_85.crop <-
(r_hr9_af_he_50_85.crop+r_hr10_af_he_50_85.crop+r_hr11_af_he_50_85.crop+r_hr12_af_he_50_85.crop+r_h
r1_af_he_50_85.crop+r_hr2_af_he_50_85.crop+r_hr3_af_he_50_85.crop+r_hr4_af_he_50_85.crop)/4

# 2070 45
r1_af_he_70_45 <- raster("cmip5/30s/he45tx701.tif")
r2_af_he_70_45 <- raster("cmip5/30s/he45tx702.tif")
r3_af_he_70_45 <- raster("cmip5/30s/he45tx703.tif")
r4_af_he_70_45 <- raster("cmip5/30s/he45tx704.tif")
r5_af_he_70_45 <- raster("cmip5/30s/he45tx705.tif")
r6_af_he_70_45 <- raster("cmip5/30s/he45tx706.tif")
r7_af_he_70_45 <- raster("cmip5/30s/he45tx707.tif")
r8_af_he_70_45 <- raster("cmip5/30s/he45tx708.tif")
r9_af_he_70_45 <- raster("cmip5/30s/he45tx709.tif")
r10_af_he_70_45 <- raster("cmip5/30s/he45tx7010.tif")
r11_af_he_70_45 <- raster("cmip5/30s/he45tx7011.tif")
r12_af_he_70_45 <- raster("cmip5/30s/he45tx7012.tif")

r1_af_he_70_45.crop = crop(r1_af_he_70_45,e)
r2_af_he_70_45.crop = crop(r2_af_he_70_45,e)
r3_af_he_70_45.crop = crop(r3_af_he_70_45,e)
r4_af_he_70_45.crop = crop(r4_af_he_70_45,e)
```

```
r5_af_he_70_45.crop = crop(r5_af_he_70_45,e)
r6_af_he_70_45.crop = crop(r6_af_he_70_45,e)
r7_af_he_70_45.crop = crop(r7_af_he_70_45,e)
r8_af_he_70_45.crop = crop(r8_af_he_70_45,e)
r9_af_he_70_45.crop = crop(r9_af_he_70_45,e)
r10_af_he_70_45.crop = crop(r10_af_he_70_45,e)
r11_af_he_70_45.crop = crop(r11_af_he_70_45,e)
r12_af_he_70_45.crop = crop(r12_af_he_70_45,e)

r_hr1_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r1_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr2_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r2_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr3_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r3_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr4_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r4_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr10_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r10_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr11_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r11_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr12_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r12_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr5_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r5_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr6_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r6_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr7_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r7_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr8_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r8_af_he_70_45.crop/10-17.2)))^(1/theta4))
r_hr9_af_he_70_45.crop  <- theta1/((1+theta2*exp(theta3*(r9_af_he_70_45.crop/10-17.2)))^(1/theta4))

r_ha9_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r9_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha10_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r10_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha11_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r11_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha12_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r12_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha1_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r1_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha2_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r2_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha3_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r3_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha4_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r4_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha5_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r5_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha6_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r6_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha7_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r7_af_he_70_45.crop/10-35.5)))^(1/8.486635))
r_ha8_af_he_70_45.crop <- 13/((1+8.778*exp(-1.4967*(r8_af_he_70_45.crop/10-35.5)))^(1/8.486635))
rsum_ha_MayAug_af_he_70_45.crop <-
(r_ha5_af_he_70_45.crop+r_ha6_af_he_70_45.crop+r_ha7_af_he_70_45.crop+r_ha8_af_he_70_45.crop)
ravg_hr_MayAug_af_he_70_45.crop <-
(r_hr5_af_he_70_45.crop+r_hr6_af_he_70_45.crop+r_hr7_af_he_70_45.crop+r_hr8_af_he_70_45.crop)/4

rsum_ha_SepApr_af_he_70_45.crop <-
(r_ha9_af_he_70_45.crop+r_ha10_af_he_70_45.crop+r_ha11_af_he_70_45.crop+r_ha12_af_he_70_45.crop+r_
ha1_af_he_70_45.crop+r_ha2_af_he_70_45.crop+r_ha3_af_he_70_45.crop+r_ha4_af_he_70_45.crop)
ravg_hr_SepApr_af_he_70_45.crop <-
(r_hr9_af_he_70_45.crop+r_hr10_af_he_70_45.crop+r_hr11_af_he_70_45.crop+r_hr12_af_he_70_45.crop+r_h
r1_af_he_70_45.crop+r_hr2_af_he_70_45.crop+r_hr3_af_he_70_45.crop+r_hr4_af_he_70_45.crop)/4

# 2070 85

r1_af_he_70_85 <- raster("cmip5/30s/he85tx701.tif")
r2_af_he_70_85 <- raster("cmip5/30s/he85tx702.tif")
r3_af_he_70_85 <- raster("cmip5/30s/he85tx703.tif")
r4_af_he_70_85 <- raster("cmip5/30s/he85tx704.tif")
r5_af_he_70_85 <- raster("cmip5/30s/he85tx705.tif")
r6_af_he_70_85 <- raster("cmip5/30s/he85tx706.tif")
r7_af_he_70_85 <- raster("cmip5/30s/he85tx707.tif")
r8_af_he_70_85 <- raster("cmip5/30s/he85tx708.tif")
r9_af_he_70_85 <- raster("cmip5/30s/he85tx709.tif")
r10_af_he_70_85 <- raster("cmip5/30s/he85tx7010.tif")
r11_af_he_70_85 <- raster("cmip5/30s/he85tx7011.tif")
r12_af_he_70_85 <- raster("cmip5/30s/he85tx7012.tif")
```

```
r1_af_he_70_85.crop = crop(r1_af_he_70_85,e)
r2_af_he_70_85.crop = crop(r2_af_he_70_85,e)
r3_af_he_70_85.crop = crop(r3_af_he_70_85,e)
r4_af_he_70_85.crop = crop(r4_af_he_70_85,e)
r5_af_he_70_85.crop = crop(r5_af_he_70_85,e)
r6_af_he_70_85.crop = crop(r6_af_he_70_85,e)
r7_af_he_70_85.crop = crop(r7_af_he_70_85,e)
r8_af_he_70_85.crop = crop(r8_af_he_70_85,e)
r9_af_he_70_85.crop = crop(r9_af_he_70_85,e)
r10_af_he_70_85.crop = crop(r10_af_he_70_85,e)
r11_af_he_70_85.crop = crop(r11_af_he_70_85,e)
r12_af_he_70_85.crop = crop(r12_af_he_70_85,e)

r_hr1_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r1_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr2_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r2_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr3_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r3_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr4_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r4_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr10_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r10_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr11_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r11_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr12_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r12_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr5_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r5_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr6_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r6_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr7_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r7_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr8_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r8_af_he_70_85.crop/10-17.2)))^(1/theta4))
r_hr9_af_he_70_85.crop  <- theta1/((1+theta2*exp(theta3*(r9_af_he_70_85.crop/10-17.2)))^(1/theta4))

r_ha9_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r9_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha10_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r10_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha11_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r11_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha12_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r12_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha1_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r1_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha2_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r2_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha3_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r3_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha4_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r4_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha5_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r5_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha6_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r6_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha7_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r7_af_he_70_85.crop/10-35.5)))^(1/8.486635))
r_ha8_af_he_70_85.crop <- 13/((1+8.778*exp(-1.4967*(r8_af_he_70_85.crop/10-35.5)))^(1/8.486635))
rsum_ha_MayAug_af_he_70_85.crop <-
(r_ha5_af_he_70_85.crop+r_ha6_af_he_70_85.crop+r_ha7_af_he_70_85.crop+r_ha8_af_he_70_85.crop)
ravg_hr_MayAug_af_he_70_85.crop <-
(r_hr5_af_he_70_85.crop+r_hr6_af_he_70_85.crop+r_hr7_af_he_70_85.crop+r_hr8_af_he_70_85.crop)/4

rsum_ha_SepApr_af_he_70_85.crop <-
(r_ha9_af_he_70_85.crop+r_ha10_af_he_70_85.crop+r_ha11_af_he_70_85.crop+r_ha12_af_he_70_85.crop+r_
ha1_af_he_70_85.crop+r_ha2_af_he_70_85.crop+r_ha3_af_he_70_85.crop+r_ha4_af_he_70_85.crop)
ravg_hr_SepApr_af_he_70_85.crop <-
(r_hr9_af_he_70_85.crop+r_hr10_af_he_70_85.crop+r_hr11_af_he_70_85.crop+r_hr12_af_he_70_85.crop+r_h
r1_af_he_70_85.crop+r_hr2_af_he_70_85.crop+r_hr3_af_he_70_85.crop+r_hr4_af_he_70_85.crop)/4

# prec
# HE

#2050 45
prec5 <- raster("wc0.5/prec5.bil")
prec6 <- raster("wc0.5/prec6.bil")
prec7 <- raster("wc0.5/prec7.bil")
prec8 <- raster("wc0.5/prec8.bil")
prec9 <- raster("wc0.5/prec9.bil")
```

```
r_sum05to09 =  prec5 + prec6 + prec7 + prec8 + prec9
r_sum05to09.crop <- crop(r_sum05to09,e)
prec5_af_he_50_45 <- raster("cmip5/30s/he45pr505.tif")
prec6_af_he_50_45 <- raster("cmip5/30s/he45pr506.tif")
prec7_af_he_50_45 <- raster("cmip5/30s/he45pr507.tif")
prec8_af_he_50_45 <- raster("cmip5/30s/he45pr508.tif")
prec9_af_he_50_45 <- raster("cmip5/30s/he45pr509.tif")

r_sum05to09_af_he_50_45 =  prec5_af_he_50_45 + prec6_af_he_50_45 + prec7_af_he_50_45 +
prec8_af_he_50_45 + prec9_af_he_50_45
r_sum05to09_af_he_50_45.crop <- crop(r_sum05to09_af_he_50_45,e)

prec10 <- raster("wc0.5/prec10.bil")
prec11 <- raster("wc0.5/prec11.bil")
prec12 <- raster("wc0.5/prec12.bil")
prec01 <- raster("wc0.5/prec1.bil")
prec02 <- raster("wc0.5/prec2.bil")
prec03 <- raster("wc0.5/prec3.bil")
prec04 <- raster("wc0.5/prec4.bil")
r_sum10to04 =  prec10 + prec11 + prec12 + prec01 + prec02+ prec03 + prec04
r_sum10to04.crop <- crop(r_sum10to04,e)
prec10_af_he_50_45 <- raster("cmip5/30s/he45pr5010.tif")
prec11_af_he_50_45 <- raster("cmip5/30s/he45pr5011.tif")
prec12_af_he_50_45 <- raster("cmip5/30s/he45pr5012.tif")
prec01_af_he_50_45 <- raster("cmip5/30s/he45pr501.tif")
prec02_af_he_50_45 <- raster("cmip5/30s/he45pr502.tif")
prec03_af_he_50_45 <- raster("cmip5/30s/he45pr503.tif")
prec04_af_he_50_45 <- raster("cmip5/30s/he45pr504.tif")

r_sum10to04_af_he_50_45 =  prec10_af_he_50_45 + prec11_af_he_50_45 + prec12_af_he_50_45 +
prec01_af_he_50_45 + prec02_af_he_50_45 + prec03_af_he_50_45 + prec04_af_he_50_45
r_sum10to04_af_he_50_45.crop <- crop(r_sum10to04_af_he_50_45,e)

#2050 85
prec5 <- raster("wc0.5/prec5.bil")
prec6 <- raster("wc0.5/prec6.bil")
prec7 <- raster("wc0.5/prec7.bil")
prec8 <- raster("wc0.5/prec8.bil")
prec9 <- raster("wc0.5/prec9.bil")
r_sum05to09 =  prec5 + prec6 + prec7 + prec8 + prec9
r_sum05to09.crop <- crop(r_sum05to09,e)
prec5_af_he_50_85 <- raster("cmip5/30s/he85pr505.tif")
prec6_af_he_50_85 <- raster("cmip5/30s/he85pr506.tif")
prec7_af_he_50_85 <- raster("cmip5/30s/he85pr507.tif")
prec8_af_he_50_85 <- raster("cmip5/30s/he85pr508.tif")
prec9_af_he_50_85 <- raster("cmip5/30s/he85pr509.tif")

r_sum05to09_af_he_50_85 =  prec5_af_he_50_85 + prec6_af_he_50_85 + prec7_af_he_50_85 +
prec8_af_he_50_85 + prec9_af_he_50_85
r_sum05to09_af_he_50_85.crop <- crop(r_sum05to09_af_he_50_85,e)

prec10 <- raster("wc0.5/prec10.bil")
prec11 <- raster("wc0.5/prec11.bil")
prec12 <- raster("wc0.5/prec12.bil")
prec01 <- raster("wc0.5/prec1.bil")
prec02 <- raster("wc0.5/prec2.bil")
prec03 <- raster("wc0.5/prec3.bil")
prec04 <- raster("wc0.5/prec4.bil")
r_sum10to04 =  prec10 + prec11 + prec12 + prec01 + prec02+ prec03 + prec04
r_sum10to04.crop <- crop(r_sum10to04,e)
```

```
prec10_af_he_50_85 <- raster("cmip5/30s/he85pr5010.tif")
prec11_af_he_50_85 <- raster("cmip5/30s/he85pr5011.tif")
prec12_af_he_50_85 <- raster("cmip5/30s/he85pr5012.tif")
prec01_af_he_50_85 <- raster("cmip5/30s/he85pr501.tif")
prec02_af_he_50_85 <- raster("cmip5/30s/he85pr502.tif")
prec03_af_he_50_85 <- raster("cmip5/30s/he85pr503.tif")
prec04_af_he_50_85 <- raster("cmip5/30s/he85pr504.tif")

r_sum10to04_af_he_50_85 =  prec10_af_he_50_85 + prec11_af_he_50_85 + prec12_af_he_50_85 +
prec01_af_he_50_85 + prec02_af_he_50_85 + prec03_af_he_50_85 + prec04_af_he_50_85
r_sum10to04_af_he_50_85.crop <- crop(r_sum10to04_af_he_50_85,e)

#2070 45
prec5 <- raster("wc0.5/prec5.bil")
prec6 <- raster("wc0.5/prec6.bil")
prec7 <- raster("wc0.5/prec7.bil")
prec8 <- raster("wc0.5/prec8.bil")
prec9 <- raster("wc0.5/prec9.bil")
r_sum05to09 =  prec5 + prec6 + prec7 + prec8 + prec9
r_sum05to09.crop <- crop(r_sum05to09,e)
prec5_af_he_70_45 <- raster("cmip5/30s/he45pr705.tif")
prec6_af_he_70_45 <- raster("cmip5/30s/he45pr706.tif")
prec7_af_he_70_45 <- raster("cmip5/30s/he45pr707.tif")
prec8_af_he_70_45 <- raster("cmip5/30s/he45pr708.tif")
prec9_af_he_70_45 <- raster("cmip5/30s/he45pr709.tif")

r_sum05to09_af_he_70_45 =  prec5_af_he_70_45 + prec6_af_he_70_45 + prec7_af_he_70_45 +
prec8_af_he_70_45 + prec9_af_he_70_45
r_sum05to09_af_he_70_45.crop <- crop(r_sum05to09_af_he_70_45,e)

prec10 <- raster("wc0.5/prec10.bil")
prec11 <- raster("wc0.5/prec11.bil")
prec12 <- raster("wc0.5/prec12.bil")
prec01 <- raster("wc0.5/prec1.bil")
prec02 <- raster("wc0.5/prec2.bil")
prec03 <- raster("wc0.5/prec3.bil")
prec04 <- raster("wc0.5/prec4.bil")
r_sum10to04 =  prec10 + prec11 + prec12 + prec01 + prec02+ prec03 + prec04
r_sum10to04.crop <- crop(r_sum10to04,e)
prec10_af_he_70_45 <- raster("cmip5/30s/he45pr7010.tif")
prec11_af_he_70_45 <- raster("cmip5/30s/he45pr7011.tif")
prec12_af_he_70_45 <- raster("cmip5/30s/he45pr7012.tif")
prec01_af_he_70_45 <- raster("cmip5/30s/he45pr701.tif")
prec02_af_he_70_45 <- raster("cmip5/30s/he45pr702.tif")
prec03_af_he_70_45 <- raster("cmip5/30s/he45pr703.tif")
prec04_af_he_70_45 <- raster("cmip5/30s/he45pr704.tif")

r_sum10to04_af_he_70_45 =  prec10_af_he_70_45 + prec11_af_he_70_45 + prec12_af_he_70_45 +
prec01_af_he_70_45 + prec02_af_he_70_45 + prec03_af_he_70_45 + prec04_af_he_70_45
r_sum10to04_af_he_70_45.crop <- crop(r_sum10to04_af_he_70_45,e)

#2070 85
prec5 <- raster("wc0.5/prec5.bil")
prec6 <- raster("wc0.5/prec6.bil")
prec7 <- raster("wc0.5/prec7.bil")
prec8 <- raster("wc0.5/prec8.bil")
prec9 <- raster("wc0.5/prec9.bil")
r_sum05to09 =  prec5 + prec6 + prec7 + prec8 + prec9
r_sum05to09.crop <- crop(r_sum05to09,e)
prec5_af_he_70_85 <- raster("cmip5/30s/he85pr705.tif")
```

```
prec6_af_he_70_85 <- raster("cmip5/30s/he85pr706.tif")
prec7_af_he_70_85 <- raster("cmip5/30s/he85pr707.tif")
prec8_af_he_70_85 <- raster("cmip5/30s/he85pr708.tif")
prec9_af_he_70_85 <- raster("cmip5/30s/he85pr709.tif")

r_sum05to09_af_he_70_85 =  prec5_af_he_70_85 + prec6_af_he_70_85 + prec7_af_he_70_85 +
prec8_af_he_70_85 + prec9_af_he_70_85
r_sum05to09_af_he_70_85.crop <- crop(r_sum05to09_af_he_70_85,e)

prec10 <- raster("wc0.5/prec10.bil")
prec11 <- raster("wc0.5/prec11.bil")
prec12 <- raster("wc0.5/prec12.bil")
prec01 <- raster("wc0.5/prec1.bil")
prec02 <- raster("wc0.5/prec2.bil")
prec03 <- raster("wc0.5/prec3.bil")
prec04 <- raster("wc0.5/prec4.bil")
r_sum10to04 =  prec10 + prec11 + prec12 + prec01 + prec02+ prec03 + prec04
r_sum10to04.crop <- crop(r_sum10to04,e)
prec10_af_he_70_85 <- raster("cmip5/30s/he85pr7010.tif")
prec11_af_he_70_85 <- raster("cmip5/30s/he85pr7011.tif")
prec12_af_he_70_85 <- raster("cmip5/30s/he85pr7012.tif")
prec01_af_he_70_85 <- raster("cmip5/30s/he85pr701.tif")
prec02_af_he_70_85 <- raster("cmip5/30s/he85pr702.tif")
prec03_af_he_70_85 <- raster("cmip5/30s/he85pr703.tif")
prec04_af_he_70_85 <- raster("cmip5/30s/he85pr704.tif")

r_sum10to04_af_he_70_85 =  prec10_af_he_70_85 + prec11_af_he_70_85 + prec12_af_he_70_85 +
prec01_af_he_70_85 + prec02_af_he_70_85 + prec03_af_he_70_85 + prec04_af_he_70_85
r_sum10to04_af_he_70_85.crop <- crop(r_sum10to04_af_he_70_85

#new min variable
tmn_average.raster <- mean(m1.crop , m2.crop , m3.crop , m4.crop , m5.crop , m6.crop , m7.crop , m8.crop ,
m9.crop , m10.crop , m11.crop , m12.crop)/10
######### 4 params 4 params ########
r_obj4.crop <- stack(ravg_hr_MayAug.crop, h_a_by_months.raster, r_sum05to09.crop,r_sum10to04.crop)
names(r_obj4.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip")
dist_tatlantica <- read.table("C:/Users/VIEGAS/Google Drive/PhD/Cap 3 effectiveness/MS Trachylepis
atlantica/SDM/Trachylepis_atlantica_total_20_clean_points_res_1_km2.txt", header=T)
myRespXY <- data.frame(Lon = dist_tatlantica$Lon, Lat = dist_tatlantica$Lat)
myResp <- rep(1,length(dist_tatlantica$Lon))
myRespName <- 'Trachylepis atlantica'

############ NOW do both obj4 and obj5
	library(ggplot2)
library(biomod2)
#plot(ravg_hr_MayAug.crop)
#points(dist_tatlantica)
#str(dist_tatlantica

# this code is excerpted directly out of the package biomod2.pdf
# vignettes for fitting SDM
# instead of bioclim variables we use ecophysiology


	# set up the proper test in this case GLM with interactions at level 1 or what I think is things like r_hr x
prec09to02, etc. and quadratic terms
	library(biomod2)

#START here for redo
myExpl <- r_obj4.crop
```

```
	myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level = 
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace 
= FALSE) ))

	myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
				expl.var=myExpl,
				resp.xy = myRespXY,
				resp.name = myRespName,
				PA.nb.rep = 1,
				PA.nb.absences =	5000,
				PA.strategy = 'disk',
				PA.dist.min = 50000,
				PA.dist.max = 20000000,
				PA.sre.quant = 0.025,
				PA.table = NULL,
				na.rm = TRUE)

#	plot(myBiomodData)
	myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options = 
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'),
do.full.models=FALSE,modeling.id="test")
myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
get_formal_model(get(myGLMs))
myBiomodProj4 <- BIOMOD_Projection(
		modeling.output = myBiomodModelOut,
		new.env = myExpl,
		proj.name = 'current',
		selected.models = 'all',
		binary.meth = 'ROC',
		compress = 'xz',
		clamping.mask = F,
		output.format = '.grd')
	pred4 = get_predictions(myBiomodProj4)[[1]]
#windows()	# delete this command on WINDOWS machines
library(maps)
library(mapdata)
quartz()
	plot(pred4/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)
map("world",add=T)
map("state",add=T)
points(FamilyTb_Phrynosoma_hernandesi_complex$Lat~FamilyTb_Phrynosoma_hernandesi_complex$Lon,pc
h=21,cex=1, bg="black",col="white")
  points( c(49.03306,49.03306 )~c( -119.45237,-119.45237),pch=21,cex=1, bg="black",col="white")

########################		FUTURE CLIMATE		#########
#Future climate
# 4 obj
r_obj4_af.crop <- stack(ravg_hr_MayAug_af.crop, h_a_by_month_af.raster, r_sum05to09_af.crop, 
r_sum10to04_af.crop)
names(r_obj4_af.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip")

# must have exactly the same names!! as used in the 1975 SDM
future.climate = r_obj4_af.crop
myBiomodProj <- BIOMOD_Projection(
modeling.output = myBiomodModelOut,
new.env = future.climate,
proj.name = 'current',
selected.models = 'all',
binary.meth = 'ROC',
compress = 'xz',
```

```
clamping.mask = F,
output.format = '.grd')
pred_af4 = get_predictions(myBiomodProj)[[1]]
#windows() # delete this command on WINDOWS machines
quartz()
plot(pred_af4/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)
map("world",add=T)
map("state",add=T)
#points(G_poly,pch=21,cex=1, bg="black",col="white")

######## pred5
######### 5 params with Tmin avg #########
r_obj5.crop <- stack(ravg_hr_MayAug.crop, h_a_by_months.raster, r_sum05to09.crop, r_sum10to04.crop,
mavg_MayAug.crop)
names(r_obj5.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip", "Minimum T")
myExpl <- r_obj5.crop

	myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level =
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace
= FALSE) ))

	myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
				expl.var=myExpl,
				resp.xy = myRespXY,
				resp.name = myRespName,
				PA.nb.rep = 1,
				PA.nb.absences = 5000,
				PA.strategy = 'disk',
				PA.dist.min = 50000,
				PA.dist.max = 20000000,
				PA.sre.quant = 0.025,
				PA.table = NULL,
				na.rm = TRUE)

#	plot(myBiomodData)
	myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options =
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'),
do.full.models=FALSE,modeling.id="test")


myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
get_formal_model(get(myGLMs))

myBiomodProj <- BIOMOD_Projection(
		modeling.output = myBiomodModelOut,
		new.env = myExpl,
		proj.name = 'current',
		selected.models = 'all',
		binary.meth = 'ROC',
		compress = 'xz',
		clamping.mask = F,
		output.format = '.grd')
	pred5 = get_predictions(myBiomodProj)[[1]]
library(maps)
library(mapdata)
quartz()
	plot(pred5/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)
map("world",add=T)
map("state",add=T)
```

```
points(FamilyTb_Phrynosoma_hernandesi_complex$Lat~FamilyTb_Phrynosoma_hernandesi_complex$Lon,pc
h=21,cex=0.5, bg="black",col="white")
 # points( c(49.03306,49.03306 )~c( -119.45237,-119.45237),pch=21,cex=1, bg="black",col="white")
# Plethodon cinereus Sinervo 1973 pers obs Finnmark Road

points( c( 48.652288, 48.652288 )~c( -89.835543,-89.835543),pch=2,cex=1, bg="black",col="white")

############## 5obj_af.crop FUTURE
r_obj5_af.crop <- stack(ravg_hr_MayAug_af.crop, h_a_by_months_af.raster, r_sum05to09_af.crop,
r_sum10to04_af.crop, mavg_MayAug_af.crop)
names(r_obj5_af.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip", "Minimum
T")
future.climate = r_obj5_af.crop
myBiomodProj <- BIOMOD_Projection(
modeling.output = myBiomodModelOut,
new.env = future.climate,
proj.name = 'current',
selected.models = 'all',
binary.meth = 'ROC',
compress = 'xz',
clamping.mask = F,
output.format = '.grd')

pred_af5 = get_predictions(myBiomodProj)[[1]]
#windows() # delete this command on WINDOWS machines
quartz()
plot(pred_af5/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)
map("world",add=T)
map("state",add=T)
#points(G_poly,pch=21,cex=1, bg="black",col="white")
############
points(FamilyTb_Phrynosoma_hernandesi_complex$Lat~FamilyTb_Phrynosoma_hernandesi_complex$Lon,pc
h=21,cex=1, bg="black",col="white")
r_obj4_af.crop <- stack(ravg_hr_MayAug_af.crop, rsum_ha_af.crop,  r_sum05to09_af.crop)
names(r_obj4_af.crop) = c("Hours Restriction","Hours Activity","Summer Precip")
#takes a long time:
# 35 min to plot
canada <- getData("GADM",country="CAN",level=1)
plot(canada,add=T)
#Ossoyos extinct P. hernandesi
#points( c(49.03306,49.03306 )~c( -119.45237,-119.45237),pch=21,cex=1, bg="black",col="white")
# Plethodon cinereus Sinervo 1973 pers obs Finnmark Road
points( c( 48.652288, 48.652288 )~c( -89.835543,-89.835543),pch=2,cex=1, bg="black",col="white")

# 5 obj future pred5
r_obj5.crop <- stack(ravg_hr_MayAug.crop, rsum_ha.crop,  r_sum05to09.crop, r_sum10to04.crop,
mavg_MayAug.crop)
names(r_obj5.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip", "Minimum T")

myExpl <- r_obj5.crop

	myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level =
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace
= FALSE) ))

	myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
				expl.var=myExpl,
				resp.xy = myRespXY,
				resp.name = myRespName,
				PA.nb.rep = 1,
```

```
                                        PA.nb.absences = 5000,
                                        PA.strategy = 'disk',
                                        PA.dist.min = 50000,
                                        PA.dist.max = 20000000,
                                        PA.sre.quant = 0.025,
                                        PA.table = NULL,
                                        na.rm = TRUE)

#       plot(myBiomodData)


        myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options = 
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'), 
do.full.models=FALSE,modeling.id="test")

myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
get_formal_model(get(myGLMs))

myBiomodProj <- BIOMOD_Projection(
                    modeling.output = myBiomodModelOut,
                    new.env = myExpl,
                    proj.name = 'current',
                    selected.models = 'all',
                    binary.meth = 'ROC',
                    compress = 'xz',
                    clamping.mask = F,
                    output.format = '.grd')
        pred6 = get_predictions(myBiomodProj)[[1]]
library(maps)
library(mapdata)
quartz()
        plot(pred6/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)

map("world",add=T)
map("state",add=T)
points(FamilyTb_Phrynosoma_hernandesi_complex$Lat~FamilyTb_Phrynosoma_hernandesi_complex$Lon,pc
h=21,cex=1, bg="black",col="white")
  points( c(49.03306,49.03306 )~c( -119.45237,-119.45237),pch=21,cex=1, bg="black",col="white")

############## 6obj present
r_obj6.crop <- stack(ravg_hr_MayAug.crop, rsum_ha.crop,  r_sum05to09.crop, r_sum10to04.crop, 
tmn_MaySep.raster,tmn_OctApr.raster)
names(r_obj6.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip", "Minimum 
Sum","Minimum Win")
myExpl <- r_obj6.crop

        myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level = 
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace 
= FALSE) ))

        myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
                                        expl.var=myExpl,
                                        resp.xy = myRespXY,
                                        resp.name = myRespName,
                                        PA.nb.rep = 1,
                                        PA.nb.absences = 5000,
                                        PA.strategy = 'disk',
                                        PA.dist.min = 50000,
                                        PA.dist.max = 20000000,
                                        PA.sre.quant = 0.025,
```

```
                                PA.table = NULL,
                                na.rm = TRUE)

#       plot(myBiomodData)

        myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options =
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'),
do.full.models=FALSE,modeling.id="test")


myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
get_formal_model(get(myGLMs))

myBiomodProj <- BIOMOD_Projection(
            modeling.output = myBiomodModelOut,
            new.env = myExpl,
            proj.name = 'current',
            selected.models = 'all',
            binary.meth = 'ROC',
            compress = 'xz',
            clamping.mask = F,
            output.format = '.grd')
        pred6 = get_predictions(myBiomodProj)[[1]]
library(maps)
library(mapdata)
quartz()
        plot(pred6/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)

map("world",add=T)
map("state",add=T)
points(FamilyTb_Phrynosoma_hernandesi_complex$Lat~FamilyTb_Phrynosoma_hernandesi_complex$Lon,pc
h=21,cex=1, bg="black",col="white")
 # points( c(49.03306,49.03306 )~c( -119.45237,-119.45237),pch=21,cex=1, bg="black",col="white")
# Plethodon cinereus Sinervo 1973 pers obs Finnmark Road

points( c( 48.652288, 48.652288 )~c( -89.835543,-89.835543),pch=2,cex=1, bg="black",col="white")
######### 6 params with Tmin avg #########

r_obj6.crop <- stack(ravg_hr_MayAug.crop, h_a_by_months.raster, r_sum05to09.crop, r_sum10to04.crop,
mavg_MayAug.crop,mavg_SepApr.crop)
names(r_obj6.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip", "Minimum T
Sum", "Minimum T NotSum")
myExpl <- r_obj6.crop

        myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level =
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace
= FALSE) ))

        myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
                                expl.var=myExpl,
                                resp.xy = myRespXY,
                                resp.name = myRespName,
                                PA.nb.rep = 1,
                                PA.nb.absences = 5000,
                                PA.strategy = 'disk',
                                PA.dist.min = 50000,
                                PA.dist.max = 20000000,
                                PA.sre.quant = 0.025,
                                PA.table = NULL,
                                na.rm = TRUE)
```

```
#		plot(myBiomodData)

		myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options = 
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'),
do.full.models=FALSE,modeling.id="test")

myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
get_formal_model(get(myGLMs))

myBiomodProj <- BIOMOD_Projection(
			modeling.output = myBiomodModelOut,
			new.env = myExpl,
			proj.name = 'current',
			selected.models = 'all',
			binary.meth = 'ROC',
			compress = 'xz',
			clamping.mask = F,
			output.format = '.grd')
		pred6 = get_predictions(myBiomodProj)[[1]]
library(maps)
library(mapdata)
quartz()
		plot(pred6/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)

map("world",add=T)
map("state",add=T)
points(FamilyTb_Phrynosoma_hernandesi_complex$Lat~FamilyTb_Phrynosoma_hernandesi_complex$Lon,pc
h=21,cex=1, bg="black",col="white")
 # points( c(49.03306,49.03306 )~c( -119.45237,-119.45237),pch=21,cex=1, bg="black",col="white")
# Plethodon cinereus Sinervo 1973 pers obs Finnmark Road

points( c( 48.652288, 48.652288 )~c( -89.835543,-89.835543),pch=2,cex=1, bg="black",col="white")

############## 6obj present with mininimum temperatures

r_obj6.crop <- stack(ravg_hr_MayAug.crop, rsum_ha.crop,  r_sum05to09.crop, r_sum10to04.crop,
tmn_MaySep.raster,tmn_OctApr.raster)
names(r_obj6.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip", "Minimum
Sum","Minimum Win")
myExpl <- r_obj6.crop

		myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level = 
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace
= FALSE) ))

		myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
				expl.var=myExpl,
				resp.xy = myRespXY,
				resp.name = myRespName,
				PA.nb.rep = 1,
				PA.nb.absences = 5000,
				PA.strategy = 'disk',
				PA.dist.min = 50000,
				PA.dist.max = 20000000,
				PA.sre.quant = 0.025,
				PA.table = NULL,
				na.rm = TRUE)

#		plot(myBiomodData)
```

```
            myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options =
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'),
do.full.models=FALSE,modeling.id="test")

myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
get_formal_model(get(myGLMs))

myBiomodProj <- BIOMOD_Projection(
                    modeling.output = myBiomodModelOut,
                    new.env = myExpl,
                    proj.name = 'current',
                    selected.models = 'all',
                    binary.meth = 'ROC',
                    compress = 'xz',
                    clamping.mask = F,
                    output.format = '.grd')
            pred6 = get_predictions(myBiomodProj)[[1]]
library(maps)
library(mapdata)
quartz()
            plot(pred6/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)
map("world",add=T)
map("state",add=T)
#points(FamilyTb_Phrynosoma_hernandesi_complex$Lat~FamilyTb_Phrynosoma_hernandesi_complex$Lon,p
ch=21,cex=1, bg="black",col="white")
# Plethodon cinereus Sinervo 1973 pers obs Finnmark Road
points( c( 48.652288, 48.652288 )~c( -89.835543,-89.835543),pch=2,cex=1, bg="black",col="white")
############## 6obj_af.crop FUTURE
r_obj6_af.crop <- stack(ravg_hr_MayAug_af.crop, rsum_ha_af.crop,  r_sum05to09_af.crop,
r_sum10to04_af.crop, tmn_MaySep_af.raster,tmn_OctApr_af.raster)
names(r_obj6_af.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip", "Minimum
Sum","Minimum Win")
future.climate = r_obj6_af.crop
myBiomodProj <- BIOMOD_Projection(
modeling.output = myBiomodModelOut,
new.env = future.climate,
proj.name = 'current',
selected.models = 'all',
binary.meth = 'ROC',
compress = 'xz',
clamping.mask = F,
output.format = '.grd')
pred_af6 = get_predictions(myBiomodProj)[[1]]
#windows() # delete this command on WINDOWS machines
quartz()
plot(pred_af6/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)
map("world",add=T)
map("state",add=T)
######### 7 params with Tmin avg and Altitude #########
r_obj7.crop <- stack(ravg_hr_MayAug.crop, h_a_by_months.raster, r_sum05to09.crop, r_sum10to04.crop,
tmn_MaySep.crop,tmn_OctApr.crop,alt.crop)
names(r_obj7.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip", "Minimum T
Sum", "Minimum T NotSum","Altitude")
myExpl <- r_obj7.crop
            myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level =
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace
= FALSE) ))
            myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
                              expl.var=myExpl,
```

```
                    resp.xy = myRespXY,
        resp.name = myRespName,
                    PA.nb.rep = 1,
                    PA.nb.absences = 5000,
                    PA.strategy = 'disk',
                    PA.dist.min = 50000,
                    PA.dist.max = 20000000,
                    PA.sre.quant = 0.025,
                    PA.table = NULL,
                    na.rm = TRUE)
#       plot(myBiomodData)
        myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options =
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'),
do.full.models=FALSE,modeling.id="test")
myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
get_formal_model(get(myGLMs))

myBiomodProj <- BIOMOD_Projection(
            modeling.output = myBiomodModelOut,
            new.env = myExpl,
            proj.name = 'current',
            selected.models = 'all',
            binary.meth = 'ROC',
            compress = 'xz',
            clamping.mask = F,
            output.format = '.grd')
        pred7 = get_predictions(myBiomodProj)[[1]]
library(maps)
library(mapdata)
quartz()
        plot(pred7/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)
map("world",add=T)
map("state",add=T)
#points(FamilyTb_Phrynosoma_hernandesi_complex$Lat~FamilyTb_Phrynosoma_hernandesi_complex$Lon,p
ch=21,cex=1, bg="black",col="white")
 # points( c(49.03306,49.03306 )~c( -119.45237,-119.45237),pch=21,cex=1, bg="black",col="white")
# Plethodon cinereus Sinervo 1973 pers obs Finnmark Road
points( c( 48.652288, 48.652288 )~c( -89.835543,-89.835543),pch=2,cex=1, bg="black",col="white")
############## 7obj_af.crop FUTURE -- note Altitude is the only variable without _af designation
r_obj7_af.crop <- stack(ravg_hr_MayAug_af.crop, rsum_ha_af.crop,  r_sum05to09_af.crop,
r_sum10to04_af.crop, tmn_MaySep_af.raster,tmn_OctApr_af.raster,alt.crop)
names(r_obj7_af.crop) = c("Hours Restriction","Hours Activity","Summer Precip","Winter Precip", "Minimum
T Sum", "Minimum T NotSum","Altitude")
future.climate = r_obj7_af.crop
myBiomodProj <- BIOMOD_Projection(
modeling.output = myBiomodModelOut,
new.env = future.climate,
proj.name = 'current',
selected.models = 'all',
binary.meth = 'ROC',
compress = 'xz',
clamping.mask = F,
output.format = '.grd')
pred_af7 = get_predictions(myBiomodProj)[[1]]
quartz()
plot(pred_af7/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)
map("world",add=T)
map("state",add=T)
```

## Seção 4

```
#### MS Amazon

library(raster)
library(rgdal)
library (gtools)

setwd("C:/Users/Luisa Diele-Viegas/Google Drive/submitted/Cap 2 - MS Are Amazonia feeling the heat/MS_Amazon")

# ler os rasters
# GCM He; fazer o mesmo procedimento para MP e MR

#1
bi_1_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi501.tif")
bi_1_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi701.tif")
bi_1_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi501.tif")
bi_1_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi701.tif")
#2
bi_2_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi502.tif")
bi_2_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi702.tif")
bi_2_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi502.tif")
bi_2_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi702.tif")
#3
bi_3_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi503.tif")
bi_3_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi703.tif")
bi_3_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi503.tif")
bi_3_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi703.tif")
#4
bi_4_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi504.tif")
bi_4_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi704.tif")
bi_4_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi504.tif")
bi_4_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi704.tif")
#5
bi_5_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi505.tif")
bi_5_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi705.tif")
bi_5_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi505.tif")
bi_5_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi705.tif")
#6
bi_6_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi506.tif")
bi_6_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi706.tif")
bi_6_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi506.tif")
bi_6_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi706.tif")
#7
bi_7_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi507.tif")
bi_7_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi707.tif")
bi_7_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi507.tif")
bi_7_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi707.tif")
#8
bi_8_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi508.tif")
bi_8_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi708.tif")
bi_8_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi508.tif")
bi_8_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi708.tif")


#9
bi_9_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi509.tif")
bi_9_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi709.tif")
bi_9_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi509.tif")
```

```
bi_9_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi709.tif")
#10
bi_10_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5010.tif")
bi_10_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7010.tif")
bi_10_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5010.tif")
bi_10_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7010.tif")
#11
bi_11_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5011.tif")
bi_11_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7011.tif")
bi_11_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5011.tif")
bi_11_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7011.tif")
#12
bi_12_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5012.tif")
bi_12_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7012.tif")
bi_12_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5012.tif")
bi_12_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7012.tif")
#13
bi_13_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5013.tif")
bi_13_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7013.tif")
bi_13_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5013.tif")
bi_13_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7013.tif")
#14
bi_14_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5014.tif")
bi_14_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7014.tif")
bi_14_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5014.tif")
bi_14_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7014.tif")
#15
bi_15_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5015.tif")
bi_15_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7015.tif")
bi_15_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5015.tif")
bi_15_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7015.tif")
#16
bi_16_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5016.tif")
bi_16_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7016.tif")
bi_16_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5016.tif")
bi_16_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7016.tif")
#17
bi_17_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5017.tif")
bi_17_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7017.tif")
bi_17_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5017.tif")
bi_17_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7017.tif")
#18
bi_18_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5018.tif")
bi_18_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7018.tif")
bi_18_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5018.tif")
bi_18_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7018.tif")
#19
bi_19_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi5019.tif")
bi_19_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85bi7019.tif")
bi_19_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi5019.tif")
bi_19_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45bi7019.tif")

#tmax

#jan
tmax_jan_present<-raster("D:/Rasters/Amazon/wc2-5/tmax1.bil")

tmax_jan_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx501.tif")
tmax_jan_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx701.tif")
prec_jan_present<-raster("D:/Rasters/Amazon/wc2-5/prec1.bil")
```

```
prec_jan_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr501.tif")
prec_jan_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr701.tif")
tmin_jan_present<-raster("D:/Rasters/Amazon/wc2-5/tmin1.bil")
tmin_jan_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn501.tif")
tmin_jan_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn701.tif")
#feb
tmax_feb_present<-raster("D:/Rasters/Amazon/wc2-5/tmax2.bil")
tmax_feb_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx502.tif")
tmax_feb_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx702.tif")
prec_feb_present<-raster("D:/Rasters/Amazon/wc2-5/prec2.bil")
prec_feb_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr502.tif")
prec_feb_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr702.tif")
tmin_feb_present<-raster("D:/Rasters/Amazon/wc2-5/tmin2.bil")
tmin_feb_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn502.tif")
tmin_feb_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn702.tif")
#mar
tmax_mar_present<-raster("D:/Rasters/Amazon/wc2-5/tmax3.bil")
tmax_mar_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx503.tif")
tmax_mar_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx703.tif")
prec_mar_present<-raster("D:/Rasters/Amazon/wc2-5/prec3.bil")
prec_mar_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr503.tif")
prec_mar_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr703.tif")
tmin_mar_present<-raster("D:/Rasters/Amazon/wc2-5/tmin3.bil")
tmin_mar_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn503.tif")
tmin_mar_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn703.tif")
#apr
tmax_apr_present<-raster("D:/Rasters/Amazon/wc2-5/tmax4.bil")
tmax_apr_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx504.tif")
tmax_apr_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx704.tif")
prec_apr_present<-raster("D:/Rasters/Amazon/wc2-5/prec4.bil")
prec_apr_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr504.tif")
prec_apr_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr704.tif")
tmin_apr_present<-raster("D:/Rasters/Amazon/wc2-5/tmin4.bil")
tmin_apr_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn504.tif")
tmin_apr_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn704.tif")
#may
tmax_may_present<-raster("D:/Rasters/Amazon/wc2-5/tmax5.bil")
tmax_may_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx505.tif")
tmax_may_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx705.tif")
prec_may_present<-raster("D:/Rasters/Amazon/wc2-5/prec5.bil")
prec_may_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr505.tif")
prec_may_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr705.tif")

tmin_may_present<-raster("D:/Rasters/Amazon/wc2-5/tmin5.bil")
tmin_may_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn505.tif")
tmin_may_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn705.tif")


#jun
tmax_jun_present<-raster("D:/Rasters/Amazon/wc2-5/tmax6.bil")
tmax_jun_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx506.tif")
tmax_jun_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx706.tif")
prec_jun_present<-raster("D:/Rasters/Amazon/wc2-5/prec6.bil")
prec_jun_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr506.tif")
prec_jun_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr706.tif")
tmin_jun_present<-raster("D:/Rasters/Amazon/wc2-5/tmin6.bil")
tmin_jun_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn506.tif")
tmin_jun_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn706.tif")
#jul
tmax_jul_present<-raster("D:/Rasters/Amazon/wc2-5/tmax7.bil")
```

```
tmax_jul_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx507.tif")
tmax_jul_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx707.tif")
prec_jul_present<-raster("D:/Rasters/Amazon/wc2-5/prec7.bil")
prec_jul_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr507.tif")
prec_jul_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr707.tif")
tmin_jul_present<-raster("D:/Rasters/Amazon/wc2-5/tmin7.bil")
tmin_jul_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn507.tif")
tmin_jul_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn707.tif")
#aug
tmax_aug_present<-raster("D:/Rasters/Amazon/wc2-5/tmax8.bil")
tmax_aug_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx508.tif")
tmax_aug_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx708.tif")
prec_aug_present<-raster("D:/Rasters/Amazon/wc2-5/prec8.bil")
prec_aug_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr508.tif")
prec_aug_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr708.tif")
tmin_aug_present<-raster("D:/Rasters/Amazon/wc2-5/tmin8.bil")
tmin_aug_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn508.tif")
tmin_aug_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn708.tif")
#sep
tmax_sep_present<-raster("D:/Rasters/Amazon/wc2-5/tmax9.bil")
tmax_sep_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx509.tif")
tmax_sep_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx709.tif")
prec_sep_present<-raster("D:/Rasters/Amazon/wc2-5/prec9.bil")
prec_sep_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr509.tif")
prec_sep_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr709.tif")
tmin_sep_present<-raster("D:/Rasters/Amazon/wc2-5/tmin9.bil")
tmin_sep_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn509.tif")
tmin_sep_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn709.tif")
#oct
tmax_oct_present<-raster("D:/Rasters/Amazon/wc2-5/tmax10.bil")
tmax_oct_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx5010.tif")
tmax_oct_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx7010.tif")
prec_oct_present<-raster("D:/Rasters/Amazon/wc2-5/prec10.bil")
prec_oct_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr5010.tif")
prec_oct_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr7010.tif")
tmin_oct_present<-raster("D:/Rasters/Amazon/wc2-5/tmin10.bil")
tmin_oct_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn5010.tif")
tmin_oct_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn7010.tif")
#nov
tmax_nov_present<-raster("D:/Rasters/Amazon/wc2-5/tmax11.bil")
tmax_nov_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx5011.tif")
tmax_nov_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx7011.tif")
prec_nov_present<-raster("D:/Rasters/Amazon/wc2-5/prec11.bil")
prec_nov_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr5011.tif")
prec_nov_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr7011.tif")
tmin_nov_present<-raster("D:/Rasters/Amazon/wc2-5/tmin11.bil")
tmin_nov_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn5011.tif")
tmin_nov_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn7011.tif")
#dez
tmax_dez_present<-raster("D:/Rasters/Amazon/wc2-5/tmax12.bil")
tmax_dez_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx5012.tif")
tmax_dez_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tx7012.tif")
prec_dez_present<-raster("D:/Rasters/Amazon/wc2-5/prec12.bil")
prec_dez_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr5012.tif")
prec_dez_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85pr7012.tif")
tmin_dez_present<-raster("D:/Rasters/Amazon/wc2-5/tmin12.bil")
tmin_dez_he_2050_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn5012.tif")
tmin_dez_he_2070_85<-raster("D:/Rasters/Amazon/cmip5/2_5m/he85tn7012.tif")
#jan
tmax_jan_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx501.tif")
```

```
tmax_jan_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx701.tif")
prec_jan_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr501.tif")
prec_jan_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr701.tif")
tmin_jan_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn501.tif")
tmin_jan_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn701.tif")
#feb
tmax_feb_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx502.tif")
tmax_feb_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx702.tif")
prec_feb_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr502.tif")
prec_feb_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr702.tif")
tmin_feb_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn502.tif")
tmin_feb_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn702.tif")
#mar
tmax_mar_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx503.tif")
tmax_mar_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx703.tif")
prec_mar_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr503.tif")
prec_mar_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr703.tif")
tmin_mar_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn503.tif")
tmin_mar_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn703.tif")
#apr
tmax_apr_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx504.tif")
tmax_apr_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx704.tif")
prec_apr_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr504.tif")
prec_apr_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr704.tif")
tmin_apr_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn504.tif")
tmin_apr_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn704.tif")
#may
tmax_may_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx505.tif")
tmax_may_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx705.tif")
prec_may_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr505.tif")
prec_may_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr705.tif")
tmin_may_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn505.tif")
tmin_may_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn705.tif")
#jun
tmax_jun_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx506.tif")
tmax_jun_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx706.tif")
prec_jun_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr506.tif")
prec_jun_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr706.tif")
tmin_jun_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn506.tif")
tmin_jun_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn706.tif")
#jul
tmax_jul_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx507.tif")
tmax_jul_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx707.tif")
prec_jul_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr507.tif")
prec_jul_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr707.tif")
tmin_jul_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn507.tif")
tmin_jul_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn707.tif")
#aug
tmax_aug_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx508.tif")
tmax_aug_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx708.tif")
prec_aug_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr508.tif")
prec_aug_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr708.tif")
tmin_aug_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn508.tif")
tmin_aug_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn708.tif")
#sep
tmax_sep_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx509.tif")
tmax_sep_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx709.tif")
prec_sep_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr509.tif")
prec_sep_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr709.tif")
tmin_sep_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn509.tif")
```

```
tmin_sep_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn709.tif")
#oct
tmax_oct_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx5010.tif")
tmax_oct_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx7010.tif")
prec_oct_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr5010.tif")
prec_oct_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr7010.tif")
tmin_oct_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn5010.tif")
tmin_oct_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn7010.tif")
#nov
tmax_nov_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx5011.tif")
tmax_nov_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx7011.tif")
prec_nov_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr5011.tif")
prec_nov_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr7011.tif")
tmin_nov_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn5011.tif")
tmin_nov_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn7011.tif")
#dez
tmax_dez_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx5012.tif")
tmax_dez_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tx7012.tif")
prec_dez_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr5012.tif")
prec_dez_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45pr7012.tif")
tmin_dez_he_2050_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn5012.tif")
tmin_dez_he_2070_45<-raster("D:/Rasters/Amazon/cmip5/2_5m/he45tn7012.tif")
### shapefile ###

amazon <- readOGR("C:/Users/Luisa Diele-Viegas/Google Drive/Shapes/Amazon Biome
WWF/Amazon_Biome.shp", "Amazon_Biome")
ucs <- readOGR("C:/Users/Luisa Diele-Viegas/Google Drive/Shapes/Protection Areas Panamazonia
WWF/PAs_Panamazonia_NoTopo.shp", "PAs_Panamazonia_NoTopo")

# ler os rasters
#bi
# present
bio1_present<-raster("D:/Rasters/Amazon/wc2-5/bio1.tif")
bio2_present<-raster("D:/Rasters/Amazon/wc2-5/bio2.tif")
bio3_present<-raster("D:/Rasters/Amazon/wc2-5/bio3.tif")
bio4_present<-raster("D:/Rasters/Amazon/wc2-5/bio4.tif")
bio5_present<-raster("D:/Rasters/Amazon/wc2-5/bio5.tif")
bio6_present<-raster("D:/Rasters/Amazon/wc2-5/bio6.tif")
bio7_present<-raster("D:/Rasters/Amazon/wc2-5/bio7.tif")
bio8_present<-raster("D:/Rasters/Amazon/wc2-5/bio8.tif")
bio9_present<-raster("D:/Rasters/Amazon/wc2-5/bio9.tif")
bio10_present<-raster("D:/Rasters/Amazon/wc2-5/bio10.tif")
bio11_present<-raster("D:/Rasters/Amazon/wc2-5/bio11.tif")
bio12_present<-raster("D:/Rasters/Amazon/wc2-5/bio12.tif")
bio13_present<-raster("D:/Rasters/Amazon/wc2-5/bio13.tif")
bio14_present<-raster("D:/Rasters/Amazon/wc2-5/bio14.tif")
bio15_present<-raster("D:/Rasters/Amazon/wc2-5/bio15.tif")
bio16_present<-raster("D:/Rasters/Amazon/wc2-5/bio16.tif")
bio17_present<-raster("D:/Rasters/Amazon/wc2-5/bio17.tif")
bio18_present<-raster("D:/Rasters/Amazon/wc2-5/bio18.tif")
bio19_present<-raster("D:/Rasters/Amazon/wc2-5/bio19.tif")

#extraction biome
#jan

tmax_jan_present_extract_amazon_mean_amazon<-extract(tmax_jan_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_jan_present_extract_amazon_sd_amazon<-extract(tmax_jan_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_jan_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_jan_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
```

```
tmax_jan_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_jan_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmax_jan_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_jan_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_jan_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_jan_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


tmin_jan_present_extract_amazon_mean_amazon<-extract(tmin_jan_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_jan_present_extract_amazon_sd_amazon<-extract(tmin_jan_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_jan_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_jan_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_jan_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_jan_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmin_jan_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_jan_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_jan_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_jan_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


prec_jan_present_extract_amazon_mean_amazon<-extract(prec_jan_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_jan_present_extract_amazon_sd_amazon<-extract(prec_jan_present,amazon[1], fun=sd, na.rm=TRUE)
prec_jan_he_2050_85_extract_amazon_mean_amazon<-extract(prec_jan_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_jan_he_2050_85_extract_amazon_sd_amazon<-extract(prec_jan_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_jan_he_2070_85_extract_amazon_mean_amazon<-extract(prec_jan_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_jan_he_2070_85_extract_amazon_sd_amazon<-extract(prec_jan_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#jan

tmax_jan_present_extract_amazon_mean_amazon<-extract(tmax_jan_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_jan_present_extract_amazon_sd_amazon<-extract(tmax_jan_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_jan_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_jan_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_jan_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_jan_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmax_jan_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_jan_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_jan_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_jan_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_jan_present_extract_amazon_mean_amazon<-extract(tmin_jan_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_jan_present_extract_amazon_sd_amazon<-extract(tmin_jan_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_jan_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_jan_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_jan_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_jan_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_jan_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_jan_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_jan_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_jan_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)


prec_jan_present_extract_amazon_mean_amazon<-extract(prec_jan_present,amazon[1], fun=mean,
na.rm=TRUE)
```

```
prec_jan_present_extract_amazon_sd_amazon<-extract(prec_jan_present,amazon[1], fun=sd, na.rm=TRUE)
prec_jan_he_2050_45_extract_amazon_mean_amazon<-extract(prec_jan_he_2050_45,amazon[1], fun=mean, na.rm=TRUE)
prec_jan_he_2050_45_extract_amazon_sd_amazon<-extract(prec_jan_he_2050_45,amazon[1], fun=sd, na.rm=TRUE)
prec_jan_he_2070_45_extract_amazon_mean_amazon<-extract(prec_jan_he_2070_45,amazon[1], fun=mean, na.rm=TRUE)
prec_jan_he_2070_45_extract_amazon_sd_amazon<-extract(prec_jan_he_2070_45,amazon[1], fun=sd, na.rm=TRUE)

extractions_amazon_tmax_jan<-
data.frame(tmax_jan_present_extract_amazon_mean_amazon,tmax_jan_present_extract_amazon_sd_amazon,tmax_jan_he_2050_85_extract_amazon_mean_amazon,tmax_jan_he_2050_85_extract_amazon_sd_amazon,tmax_jan_he_2070_85_extract_amazon_mean_amazon,tmax_jan_he_2070_85_extract_amazon_sd_amazon,
tmin_jan_present_extract_amazon_mean_amazon,tmin_jan_present_extract_amazon_sd_amazon,tmin_jan_he_2050_85_extract_amazon_mean_amazon,tmin_jan_he_2050_85_extract_amazon_sd_amazon,
tmin_jan_he_2070_85_extract_amazon_mean_amazon,tmin_jan_he_2070_85_extract_amazon_sd_amazon,
prec_jan_present_extract_amazon_mean_amazon,prec_jan_present_extract_amazon_sd_amazon,prec_jan_he_2050_85_extract_amazon_mean_amazon,prec_jan_he_2050_85_extract_amazon_sd_amazon,
prec_jan_he_2070_85_extract_amazon_mean_amazon,prec_jan_he_2070_85_extract_amazon_sd_amazon,
tmax_jan_he_2050_45_extract_amazon_mean_amazon,tmax_jan_he_2050_45_extract_amazon_sd_amazon,
tmax_jan_he_2070_45_extract_amazon_mean_amazon,tmax_jan_he_2070_45_extract_amazon_sd_amazon,
tmin_jan_present_extract_amazon_mean_amazon,tmin_jan_present_extract_amazon_sd_amazon,tmin_jan_he_2050_45_extract_amazon_mean_amazon,tmin_jan_he_2050_45_extract_amazon_sd_amazon,
tmin_jan_he_2070_45_extract_amazon_mean_amazon,tmin_jan_he_2070_45_extract_amazon_sd_amazon,
prec_jan_present_extract_amazon_mean_amazon,prec_jan_present_extract_amazon_sd_amazon,prec_jan_he_2050_45_extract_amazon_mean_amazon,prec_jan_he_2050_45_extract_amazon_sd_amazon,
prec_jan_he_2070_45_extract_amazon_mean_amazon,prec_jan_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_jan, file="extractions_amazon_tmax_jan.txt", append=FALSE, quote=TRUE, sep=";")


#fev

tmax_fev_present_extract_amazon_mean_amazon<-extract(tmax_fev_present,amazon[1], fun=mean, na.rm=TRUE)
tmax_fev_present_extract_amazon_sd_amazon<-extract(tmax_fev_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_fev_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_fev_he_2050_85,amazon[1], fun=mean, na.rm=TRUE)
tmax_fev_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_fev_he_2050_85,amazon[1], fun=sd, na.rm=TRUE)
tmax_fev_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_fev_he_2070_85,amazon[1], fun=mean, na.rm=TRUE)
tmax_fev_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_fev_he_2070_85,amazon[1], fun=sd, na.rm=TRUE)


tmin_fev_present_extract_amazon_mean_amazon<-extract(tmin_fev_present,amazon[1], fun=mean, na.rm=TRUE)
tmin_fev_present_extract_amazon_sd_amazon<-extract(tmin_fev_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_fev_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_fev_he_2050_85,amazon[1], fun=mean, na.rm=TRUE)
tmin_fev_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_fev_he_2050_85,amazon[1], fun=sd, na.rm=TRUE)
tmin_fev_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_fev_he_2070_85,amazon[1], fun=mean, na.rm=TRUE)
tmin_fev_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_fev_he_2070_85,amazon[1], fun=sd, na.rm=TRUE)
```

```
prec_fev_present_extract_amazon_mean_amazon<-extract(prec_fev_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_fev_present_extract_amazon_sd_amazon<-extract(prec_fev_present,amazon[1], fun=sd, na.rm=TRUE)
prec_fev_he_2050_85_extract_amazon_mean_amazon<-extract(prec_fev_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_fev_he_2050_85_extract_amazon_sd_amazon<-extract(prec_fev_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_fev_he_2070_85_extract_amazon_mean_amazon<-extract(prec_fev_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_fev_he_2070_85_extract_amazon_sd_amazon<-extract(prec_fev_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#fev

tmax_fev_present_extract_amazon_mean_amazon<-extract(tmax_fev_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_fev_present_extract_amazon_sd_amazon<-extract(tmax_fev_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_fev_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_fev_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_fev_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_fev_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmax_fev_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_fev_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_fev_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_fev_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_fev_present_extract_amazon_mean_amazon<-extract(tmin_fev_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_fev_present_extract_amazon_sd_amazon<-extract(tmin_fev_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_fev_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_fev_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_fev_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_fev_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_fev_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_fev_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_fev_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_fev_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)


prec_fev_present_extract_amazon_mean_amazon<-extract(prec_fev_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_fev_present_extract_amazon_sd_amazon<-extract(prec_fev_present,amazon[1], fun=sd, na.rm=TRUE)
prec_fev_he_2050_45_extract_amazon_mean_amazon<-extract(prec_fev_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_fev_he_2050_45_extract_amazon_sd_amazon<-extract(prec_fev_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
prec_fev_he_2070_45_extract_amazon_mean_amazon<-extract(prec_fev_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_fev_he_2070_45_extract_amazon_sd_amazon<-extract(prec_fev_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_fev<-
data.frame(tmax_fev_present_extract_amazon_mean_amazon,tmax_fev_present_extract_amazon_sd_amazon,t
max_fev_he_2050_85_extract_amazon_mean_amazon,tmax_fev_he_2050_85_extract_amazon_sd_amazon,tma
x_fev_he_2070_85_extract_amazon_mean_amazon,tmax_fev_he_2070_85_extract_amazon_sd_amazon,
tmin_fev_present_extract_amazon_mean_amazon,tmin_fev_present_extract_amazon_sd_amazon,tmin_fev_he_
2050_85_extract_amazon_mean_amazon,tmin_fev_he_2050_85_extract_amazon_sd_amazon,
tmin_fev_he_2070_85_extract_amazon_mean_amazon,tmin_fev_he_2070_85_extract_amazon_sd_amazon,
prec_fev_present_extract_amazon_mean_amazon,prec_fev_present_extract_amazon_sd_amazon,prec_fev_he_2
050_85_extract_amazon_mean_amazon,prec_fev_he_2050_85_extract_amazon_sd_amazon,
prec_fev_he_2070_85_extract_amazon_mean_amazon,prec_fev_he_2070_85_extract_amazon_sd_amazon,
tmax_fev_he_2050_45_extract_amazon_mean_amazon,tmax_fev_he_2050_45_extract_amazon_sd_amazon,
```

```
tmax_fev_he_2070_45_extract_amazon_mean_amazon,tmax_fev_he_2070_45_extract_amazon_sd_amazon,
tmin_fev_present_extract_amazon_mean_amazon,tmin_fev_present_extract_amazon_sd_amazon,tmin_fev_he_
2050_45_extract_amazon_mean_amazon,tmin_fev_he_2050_45_extract_amazon_sd_amazon,
tmin_fev_he_2070_45_extract_amazon_mean_amazon,tmin_fev_he_2070_45_extract_amazon_sd_amazon,
prec_fev_present_extract_amazon_mean_amazon,prec_fev_present_extract_amazon_sd_amazon,prec_fev_he_2
050_45_extract_amazon_mean_amazon,prec_fev_he_2050_45_extract_amazon_sd_amazon,
prec_fev_he_2070_45_extract_amazon_mean_amazon,prec_fev_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_fev, file="extractions_amazon_tmax_fev.txt", append=FALSE,
quote=TRUE, sep=";")



#mar

tmax_mar_present_extract_amazon_mean_amazon<-extract(tmax_mar_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_mar_present_extract_amazon_sd_amazon<-extract(tmax_mar_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_mar_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_mar_he_2050_85,amazon[1],
fun=mean, na.rm=TRUE)
tmax_mar_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_mar_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmax_mar_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_mar_he_2070_85,amazon[1],
fun=mean, na.rm=TRUE)
tmax_mar_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_mar_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


tmin_mar_present_extract_amazon_mean_amazon<-extract(tmin_mar_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_mar_present_extract_amazon_sd_amazon<-extract(tmin_mar_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_mar_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_mar_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_mar_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_mar_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmin_mar_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_mar_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_mar_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_mar_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


prec_mar_present_extract_amazon_mean_amazon<-extract(prec_mar_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_mar_present_extract_amazon_sd_amazon<-extract(prec_mar_present,amazon[1], fun=sd, na.rm=TRUE)
prec_mar_he_2050_85_extract_amazon_mean_amazon<-extract(prec_mar_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_mar_he_2050_85_extract_amazon_sd_amazon<-extract(prec_mar_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_mar_he_2070_85_extract_amazon_mean_amazon<-extract(prec_mar_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_mar_he_2070_85_extract_amazon_sd_amazon<-extract(prec_mar_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#mar

tmax_mar_present_extract_amazon_mean_amazon<-extract(tmax_mar_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_mar_present_extract_amazon_sd_amazon<-extract(tmax_mar_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_mar_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_mar_he_2050_45,amazon[1],
fun=mean, na.rm=TRUE)
```

```
tmax_mar_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_mar_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmax_mar_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_mar_he_2070_45,amazon[1],
fun=mean, na.rm=TRUE)
tmax_mar_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_mar_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_mar_present_extract_amazon_mean_amazon<-extract(tmin_mar_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_mar_present_extract_amazon_sd_amazon<-extract(tmin_mar_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_mar_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_mar_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_mar_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_mar_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_mar_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_mar_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_mar_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_mar_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)


prec_mar_present_extract_amazon_mean_amazon<-extract(prec_mar_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_mar_present_extract_amazon_sd_amazon<-extract(prec_mar_present,amazon[1], fun=sd, na.rm=TRUE)
prec_mar_he_2050_45_extract_amazon_mean_amazon<-extract(prec_mar_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_mar_he_2050_45_extract_amazon_sd_amazon<-extract(prec_mar_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
prec_mar_he_2070_45_extract_amazon_mean_amazon<-extract(prec_mar_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_mar_he_2070_45_extract_amazon_sd_amazon<-extract(prec_mar_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_mar<-
data.frame(tmax_mar_present_extract_amazon_mean_amazon,tmax_mar_present_extract_amazon_sd_amazon,t
max_mar_he_2050_85_extract_amazon_mean_amazon,tmax_mar_he_2050_85_extract_amazon_sd_amazon,tm
ax_mar_he_2070_85_extract_amazon_mean_amazon,tmax_mar_he_2070_85_extract_amazon_sd_amazon,
tmin_mar_present_extract_amazon_mean_amazon,tmin_mar_present_extract_amazon_sd_amazon,tmin_mar_he
_2050_85_extract_amazon_mean_amazon,tmin_mar_he_2050_85_extract_amazon_sd_amazon,
tmin_mar_he_2070_85_extract_amazon_mean_amazon,tmin_mar_he_2070_85_extract_amazon_sd_amazon,
prec_mar_present_extract_amazon_mean_amazon,prec_mar_present_extract_amazon_sd_amazon,prec_mar_he
_2050_85_extract_amazon_mean_amazon,prec_mar_he_2050_85_extract_amazon_sd_amazon,
prec_mar_he_2070_85_extract_amazon_mean_amazon,prec_mar_he_2070_85_extract_amazon_sd_amazon,
tmax_mar_he_2050_45_extract_amazon_mean_amazon,tmax_mar_he_2050_45_extract_amazon_sd_amazon,
tmax_mar_he_2070_45_extract_amazon_mean_amazon,tmax_mar_he_2070_45_extract_amazon_sd_amazon,
tmin_mar_present_extract_amazon_mean_amazon,tmin_mar_present_extract_amazon_sd_amazon,tmin_mar_he
_2050_45_extract_amazon_mean_amazon,tmin_mar_he_2050_45_extract_amazon_sd_amazon,
tmin_mar_he_2070_45_extract_amazon_mean_amazon,tmin_mar_he_2070_45_extract_amazon_sd_amazon,
prec_mar_present_extract_amazon_mean_amazon,prec_mar_present_extract_amazon_sd_amazon,prec_mar_he
_2050_45_extract_amazon_mean_amazon,prec_mar_he_2050_45_extract_amazon_sd_amazon,
prec_mar_he_2070_45_extract_amazon_mean_amazon,prec_mar_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_mar, file="extractions_amazon_tmax_mar.txt", append=FALSE,
quote=TRUE, sep=";")



#abr

tmax_abr_present_extract_amazon_mean_amazon<-extract(tmax_abr_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_abr_present_extract_amazon_sd_amazon<-extract(tmax_abr_present,amazon[1], fun=sd, na.rm=TRUE)
```

```
tmax_abr_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_abr_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_abr_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_abr_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmax_abr_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_abr_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_abr_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_abr_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


tmin_abr_present_extract_amazon_mean_amazon<-extract(tmin_abr_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_abr_present_extract_amazon_sd_amazon<-extract(tmin_abr_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_abr_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_abr_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_abr_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_abr_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmin_abr_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_abr_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_abr_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_abr_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


prec_abr_present_extract_amazon_mean_amazon<-extract(prec_abr_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_abr_present_extract_amazon_sd_amazon<-extract(prec_abr_present,amazon[1], fun=sd, na.rm=TRUE)
prec_abr_he_2050_85_extract_amazon_mean_amazon<-extract(prec_abr_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_abr_he_2050_85_extract_amazon_sd_amazon<-extract(prec_abr_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_abr_he_2070_85_extract_amazon_mean_amazon<-extract(prec_abr_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_abr_he_2070_85_extract_amazon_sd_amazon<-extract(prec_abr_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#abr

tmax_abr_present_extract_amazon_mean_amazon<-extract(tmax_abr_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_abr_present_extract_amazon_sd_amazon<-extract(tmax_abr_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_abr_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_abr_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_abr_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_abr_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmax_abr_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_abr_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_abr_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_abr_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_abr_present_extract_amazon_mean_amazon<-extract(tmin_abr_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_abr_present_extract_amazon_sd_amazon<-extract(tmin_abr_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_abr_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_abr_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_abr_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_abr_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_abr_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_abr_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_abr_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_abr_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
```

```
prec_abr_present_extract_amazon_mean_amazon<-extract(prec_abr_present,amazon[1], fun=mean, 
na.rm=TRUE)
prec_abr_present_extract_amazon_sd_amazon<-extract(prec_abr_present,amazon[1], fun=sd, na.rm=TRUE)
prec_abr_he_2050_45_extract_amazon_mean_amazon<-extract(prec_abr_he_2050_45,amazon[1], fun=mean, 
na.rm=TRUE)
prec_abr_he_2050_45_extract_amazon_sd_amazon<-extract(prec_abr_he_2050_45,amazon[1], fun=sd, 
na.rm=TRUE)
prec_abr_he_2070_45_extract_amazon_mean_amazon<-extract(prec_abr_he_2070_45,amazon[1], fun=mean, 
na.rm=TRUE)
prec_abr_he_2070_45_extract_amazon_sd_amazon<-extract(prec_abr_he_2070_45,amazon[1], fun=sd, 
na.rm=TRUE)

extractions_amazon_tmax_abr<-
data.frame(tmax_abr_present_extract_amazon_mean_amazon,tmax_abr_present_extract_amazon_sd_amazon,t
max_abr_he_2050_85_extract_amazon_mean_amazon,tmax_abr_he_2050_85_extract_amazon_sd_amazon,tma
x_abr_he_2070_85_extract_amazon_mean_amazon,tmax_abr_he_2070_85_extract_amazon_sd_amazon,
tmin_abr_present_extract_amazon_mean_amazon,tmin_abr_present_extract_amazon_sd_amazon,tmin_abr_he_
2050_85_extract_amazon_mean_amazon,tmin_abr_he_2050_85_extract_amazon_sd_amazon,
tmin_abr_he_2070_85_extract_amazon_mean_amazon,tmin_abr_he_2070_85_extract_amazon_sd_amazon,
prec_abr_present_extract_amazon_mean_amazon,prec_abr_present_extract_amazon_sd_amazon,prec_abr_he_2
050_85_extract_amazon_mean_amazon,prec_abr_he_2050_85_extract_amazon_sd_amazon,
prec_abr_he_2070_85_extract_amazon_mean_amazon,prec_abr_he_2070_85_extract_amazon_sd_amazon,
tmax_abr_he_2050_45_extract_amazon_mean_amazon,tmax_abr_he_2050_45_extract_amazon_sd_amazon,
tmax_abr_he_2070_45_extract_amazon_mean_amazon,tmax_abr_he_2070_45_extract_amazon_sd_amazon,
tmin_abr_present_extract_amazon_mean_amazon,tmin_abr_present_extract_amazon_sd_amazon,tmin_abr_he_
2050_45_extract_amazon_mean_amazon,tmin_abr_he_2050_45_extract_amazon_sd_amazon,
tmin_abr_he_2070_45_extract_amazon_mean_amazon,tmin_abr_he_2070_45_extract_amazon_sd_amazon,
prec_abr_present_extract_amazon_mean_amazon,prec_abr_present_extract_amazon_sd_amazon,prec_abr_he_2
050_45_extract_amazon_mean_amazon,prec_abr_he_2050_45_extract_amazon_sd_amazon,
prec_abr_he_2070_45_extract_amazon_mean_amazon,prec_abr_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_abr, file="extractions_amazon_tmax_abr.txt", append=FALSE, 
quote=TRUE, sep=";")

#mai

tmax_mai_present_extract_amazon_mean_amazon<-extract(tmax_mai_present,amazon[1], fun=mean, 
na.rm=TRUE)
tmax_mai_present_extract_amazon_sd_amazon<-extract(tmax_mai_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_mai_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_mai_he_2050_85,amazon[1], fun=mean, 
na.rm=TRUE)
tmax_mai_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_mai_he_2050_85,amazon[1], fun=sd, 
na.rm=TRUE)
tmax_mai_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_mai_he_2070_85,amazon[1], fun=mean, 
na.rm=TRUE)
tmax_mai_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_mai_he_2070_85,amazon[1], fun=sd, 
na.rm=TRUE)


tmin_mai_present_extract_amazon_mean_amazon<-extract(tmin_mai_present,amazon[1], fun=mean, 
na.rm=TRUE)
tmin_mai_present_extract_amazon_sd_amazon<-extract(tmin_mai_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_mai_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_mai_he_2050_85,amazon[1], fun=mean, 
na.rm=TRUE)
tmin_mai_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_mai_he_2050_85,amazon[1], fun=sd, 
na.rm=TRUE)
tmin_mai_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_mai_he_2070_85,amazon[1], fun=mean, 
na.rm=TRUE)
tmin_mai_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_mai_he_2070_85,amazon[1], fun=sd, 
na.rm=TRUE)
```

```
prec_mai_present_extract_amazon_mean_amazon<-extract(prec_mai_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_mai_present_extract_amazon_sd_amazon<-extract(prec_mai_present,amazon[1], fun=sd, na.rm=TRUE)
prec_mai_he_2050_85_extract_amazon_mean_amazon<-extract(prec_mai_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_mai_he_2050_85_extract_amazon_sd_amazon<-extract(prec_mai_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_mai_he_2070_85_extract_amazon_mean_amazon<-extract(prec_mai_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_mai_he_2070_85_extract_amazon_sd_amazon<-extract(prec_mai_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#mai

tmax_mai_present_extract_amazon_mean_amazon<-extract(tmax_mai_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_mai_present_extract_amazon_sd_amazon<-extract(tmax_mai_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_mai_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_mai_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_mai_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_mai_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmax_mai_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_mai_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_mai_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_mai_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_mai_present_extract_amazon_mean_amazon<-extract(tmin_mai_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_mai_present_extract_amazon_sd_amazon<-extract(tmin_mai_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_mai_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_mai_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_mai_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_mai_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_mai_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_mai_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_mai_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_mai_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)


prec_mai_present_extract_amazon_mean_amazon<-extract(prec_mai_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_mai_present_extract_amazon_sd_amazon<-extract(prec_mai_present,amazon[1], fun=sd, na.rm=TRUE)
prec_mai_he_2050_45_extract_amazon_mean_amazon<-extract(prec_mai_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_mai_he_2050_45_extract_amazon_sd_amazon<-extract(prec_mai_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
prec_mai_he_2070_45_extract_amazon_mean_amazon<-extract(prec_mai_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_mai_he_2070_45_extract_amazon_sd_amazon<-extract(prec_mai_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_mai<-
data.frame(tmax_mai_present_extract_amazon_mean_amazon,tmax_mai_present_extract_amazon_sd_amazon,t
max_mai_he_2050_85_extract_amazon_mean_amazon,tmax_mai_he_2050_85_extract_amazon_sd_amazon,tm
ax_mai_he_2070_85_extract_amazon_mean_amazon,tmax_mai_he_2070_85_extract_amazon_sd_amazon,
tmin_mai_present_extract_amazon_mean_amazon,tmin_mai_present_extract_amazon_sd_amazon,tmin_mai_he
_2050_85_extract_amazon_mean_amazon,tmin_mai_he_2050_85_extract_amazon_sd_amazon,
tmin_mai_he_2070_85_extract_amazon_mean_amazon,tmin_mai_he_2070_85_extract_amazon_sd_amazon,
prec_mai_present_extract_amazon_mean_amazon,prec_mai_present_extract_amazon_sd_amazon,prec_mai_he_
2050_85_extract_amazon_mean_amazon,prec_mai_he_2050_85_extract_amazon_sd_amazon,
prec_mai_he_2070_85_extract_amazon_mean_amazon,prec_mai_he_2070_85_extract_amazon_sd_amazon,
```

```
tmax_mai_he_2050_45_extract_amazon_mean_amazon,tmax_mai_he_2050_45_extract_amazon_sd_amazon,
tmax_mai_he_2070_45_extract_amazon_mean_amazon,tmax_mai_he_2070_45_extract_amazon_sd_amazon,
tmin_mai_present_extract_amazon_mean_amazon,tmin_mai_present_extract_amazon_sd_amazon,tmin_mai_he
_2050_45_extract_amazon_mean_amazon,tmin_mai_he_2050_45_extract_amazon_sd_amazon,
tmin_mai_he_2070_45_extract_amazon_mean_amazon,tmin_mai_he_2070_45_extract_amazon_sd_amazon,
prec_mai_present_extract_amazon_mean_amazon,prec_mai_present_extract_amazon_sd_amazon,prec_mai_he_
2050_45_extract_amazon_mean_amazon,prec_mai_he_2050_45_extract_amazon_sd_amazon,
prec_mai_he_2070_45_extract_amazon_mean_amazon,prec_mai_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_mai, file="extractions_amazon_tmax_mai.txt", append=FALSE,
quote=TRUE, sep=";")



#jun

tmax_jun_present_extract_amazon_mean_amazon<-extract(tmax_jun_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_jun_present_extract_amazon_sd_amazon<-extract(tmax_jun_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_jun_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_jun_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_jun_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_jun_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmax_jun_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_jun_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_jun_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_jun_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


tmin_jun_present_extract_amazon_mean_amazon<-extract(tmin_jun_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_jun_present_extract_amazon_sd_amazon<-extract(tmin_jun_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_jun_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_jun_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_jun_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_jun_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmin_jun_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_jun_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_jun_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_jun_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


prec_jun_present_extract_amazon_mean_amazon<-extract(prec_jun_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_jun_present_extract_amazon_sd_amazon<-extract(prec_jun_present,amazon[1], fun=sd, na.rm=TRUE)
prec_jun_he_2050_85_extract_amazon_mean_amazon<-extract(prec_jun_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_jun_he_2050_85_extract_amazon_sd_amazon<-extract(prec_jun_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_jun_he_2070_85_extract_amazon_mean_amazon<-extract(prec_jun_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_jun_he_2070_85_extract_amazon_sd_amazon<-extract(prec_jun_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#jun

tmax_jun_present_extract_amazon_mean_amazon<-extract(tmax_jun_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_jun_present_extract_amazon_sd_amazon<-extract(tmax_jun_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_jun_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_jun_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
```

```
tmax_jun_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_jun_he_2050_45,amazon[1], fun=sd, na.rm=TRUE)
tmax_jun_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_jun_he_2070_45,amazon[1], fun=mean, na.rm=TRUE)
tmax_jun_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_jun_he_2070_45,amazon[1], fun=sd, na.rm=TRUE)
tmin_jun_present_extract_amazon_mean_amazon<-extract(tmin_jun_present,amazon[1], fun=mean, na.rm=TRUE)
tmin_jun_present_extract_amazon_sd_amazon<-extract(tmin_jun_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_jun_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_jun_he_2050_45,amazon[1], fun=mean, na.rm=TRUE)
tmin_jun_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_jun_he_2050_45,amazon[1], fun=sd, na.rm=TRUE)
tmin_jun_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_jun_he_2070_45,amazon[1], fun=mean, na.rm=TRUE)
tmin_jun_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_jun_he_2070_45,amazon[1], fun=sd, na.rm=TRUE)


prec_jun_present_extract_amazon_mean_amazon<-extract(prec_jun_present,amazon[1], fun=mean, na.rm=TRUE)
prec_jun_present_extract_amazon_sd_amazon<-extract(prec_jun_present,amazon[1], fun=sd, na.rm=TRUE)
prec_jun_he_2050_45_extract_amazon_mean_amazon<-extract(prec_jun_he_2050_45,amazon[1], fun=mean, na.rm=TRUE)
prec_jun_he_2050_45_extract_amazon_sd_amazon<-extract(prec_jun_he_2050_45,amazon[1], fun=sd, na.rm=TRUE)
prec_jun_he_2070_45_extract_amazon_mean_amazon<-extract(prec_jun_he_2070_45,amazon[1], fun=mean, na.rm=TRUE)
prec_jun_he_2070_45_extract_amazon_sd_amazon<-extract(prec_jun_he_2070_45,amazon[1], fun=sd, na.rm=TRUE)

extractions_amazon_tmax_jun<-
data.frame(tmax_jun_present_extract_amazon_mean_amazon,tmax_jun_present_extract_amazon_sd_amazon,tmax_jun_he_2050_85_extract_amazon_mean_amazon,tmax_jun_he_2050_85_extract_amazon_sd_amazon,tmax_jun_he_2070_85_extract_amazon_mean_amazon,tmax_jun_he_2070_85_extract_amazon_sd_amazon,
tmin_jun_present_extract_amazon_mean_amazon,tmin_jun_present_extract_amazon_sd_amazon,tmin_jun_he_2050_85_extract_amazon_mean_amazon,tmin_jun_he_2050_85_extract_amazon_sd_amazon,
tmin_jun_he_2070_85_extract_amazon_mean_amazon,tmin_jun_he_2070_85_extract_amazon_sd_amazon,
prec_jun_present_extract_amazon_mean_amazon,prec_jun_present_extract_amazon_sd_amazon,prec_jun_he_2050_85_extract_amazon_mean_amazon,prec_jun_he_2050_85_extract_amazon_sd_amazon,
prec_jun_he_2070_85_extract_amazon_mean_amazon,prec_jun_he_2070_85_extract_amazon_sd_amazon,
tmax_jun_he_2050_45_extract_amazon_mean_amazon,tmax_jun_he_2050_45_extract_amazon_sd_amazon,
tmax_jun_he_2070_45_extract_amazon_mean_amazon,tmax_jun_he_2070_45_extract_amazon_sd_amazon,
tmin_jun_present_extract_amazon_mean_amazon,tmin_jun_present_extract_amazon_sd_amazon,tmin_jun_he_2050_45_extract_amazon_mean_amazon,tmin_jun_he_2050_45_extract_amazon_sd_amazon,
tmin_jun_he_2070_45_extract_amazon_mean_amazon,tmin_jun_he_2070_45_extract_amazon_sd_amazon,
prec_jun_present_extract_amazon_mean_amazon,prec_jun_present_extract_amazon_sd_amazon,prec_jun_he_2050_45_extract_amazon_mean_amazon,prec_jun_he_2050_45_extract_amazon_sd_amazon,
prec_jun_he_2070_45_extract_amazon_mean_amazon,prec_jun_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_jun, file="extractions_amazon_tmax_jun.txt", append=FALSE, quote=TRUE, sep=";")


#jul

tmax_jul_present_extract_amazon_mean_amazon<-extract(tmax_jul_present,amazon[1], fun=mean, na.rm=TRUE)
tmax_jul_present_extract_amazon_sd_amazon<-extract(tmax_jul_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_jul_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_jul_he_2050_85,amazon[1], fun=mean, na.rm=TRUE)
```

tmax_jul_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_jul_he_2050_85,amazon[1], fun=sd, na.rm=TRUE)
tmax_jul_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_jul_he_2070_85,amazon[1], fun=mean, na.rm=TRUE)
tmax_jul_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_jul_he_2070_85,amazon[1], fun=sd, na.rm=TRUE)

tmin_jul_present_extract_amazon_mean_amazon<-extract(tmin_jul_present,amazon[1], fun=mean, na.rm=TRUE)
tmin_jul_present_extract_amazon_sd_amazon<-extract(tmin_jul_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_jul_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_jul_he_2050_85,amazon[1], fun=mean, na.rm=TRUE)
tmin_jul_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_jul_he_2050_85,amazon[1], fun=sd, na.rm=TRUE)
tmin_jul_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_jul_he_2070_85,amazon[1], fun=mean, na.rm=TRUE)
tmin_jul_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_jul_he_2070_85,amazon[1], fun=sd, na.rm=TRUE)

prec_jul_present_extract_amazon_mean_amazon<-extract(prec_jul_present,amazon[1], fun=mean, na.rm=TRUE)
prec_jul_present_extract_amazon_sd_amazon<-extract(prec_jul_present,amazon[1], fun=sd, na.rm=TRUE)
prec_jul_he_2050_85_extract_amazon_mean_amazon<-extract(prec_jul_he_2050_85,amazon[1], fun=mean, na.rm=TRUE)
prec_jul_he_2050_85_extract_amazon_sd_amazon<-extract(prec_jul_he_2050_85,amazon[1], fun=sd, na.rm=TRUE)
prec_jul_he_2070_85_extract_amazon_mean_amazon<-extract(prec_jul_he_2070_85,amazon[1], fun=mean, na.rm=TRUE)
prec_jul_he_2070_85_extract_amazon_sd_amazon<-extract(prec_jul_he_2070_85,amazon[1], fun=sd, na.rm=TRUE)
#jul

tmax_jul_present_extract_amazon_mean_amazon<-extract(tmax_jul_present,amazon[1], fun=mean, na.rm=TRUE)
tmax_jul_present_extract_amazon_sd_amazon<-extract(tmax_jul_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_jul_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_jul_he_2050_45,amazon[1], fun=mean, na.rm=TRUE)
tmax_jul_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_jul_he_2050_45,amazon[1], fun=sd, na.rm=TRUE)
tmax_jul_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_jul_he_2070_45,amazon[1], fun=mean, na.rm=TRUE)
tmax_jul_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_jul_he_2070_45,amazon[1], fun=sd, na.rm=TRUE)
tmin_jul_present_extract_amazon_mean_amazon<-extract(tmin_jul_present,amazon[1], fun=mean, na.rm=TRUE)
tmin_jul_present_extract_amazon_sd_amazon<-extract(tmin_jul_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_jul_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_jul_he_2050_45,amazon[1], fun=mean, na.rm=TRUE)
tmin_jul_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_jul_he_2050_45,amazon[1], fun=sd, na.rm=TRUE)
tmin_jul_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_jul_he_2070_45,amazon[1], fun=mean, na.rm=TRUE)
tmin_jul_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_jul_he_2070_45,amazon[1], fun=sd, na.rm=TRUE)

prec_jul_present_extract_amazon_mean_amazon<-extract(prec_jul_present,amazon[1], fun=mean, na.rm=TRUE)

```
prec_jul_present_extract_amazon_sd_amazon<-extract(prec_jul_present,amazon[1], fun=sd, na.rm=TRUE)
prec_jul_he_2050_45_extract_amazon_mean_amazon<-extract(prec_jul_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_jul_he_2050_45_extract_amazon_sd_amazon<-extract(prec_jul_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
prec_jul_he_2070_45_extract_amazon_mean_amazon<-extract(prec_jul_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_jul_he_2070_45_extract_amazon_sd_amazon<-extract(prec_jul_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_jul<-
data.frame(tmax_jul_present_extract_amazon_mean_amazon,tmax_jul_present_extract_amazon_sd_amazon,tm
ax_jul_he_2050_85_extract_amazon_mean_amazon,tmax_jul_he_2050_85_extract_amazon_sd_amazon,tmax_j
ul_he_2070_85_extract_amazon_mean_amazon,tmax_jul_he_2070_85_extract_amazon_sd_amazon,
tmin_jul_present_extract_amazon_mean_amazon,tmin_jul_present_extract_amazon_sd_amazon,tmin_jul_he_20
50_85_extract_amazon_mean_amazon,tmin_jul_he_2050_85_extract_amazon_sd_amazon,
tmin_jul_he_2070_85_extract_amazon_mean_amazon,tmin_jul_he_2070_85_extract_amazon_sd_amazon,
prec_jul_present_extract_amazon_mean_amazon,prec_jul_present_extract_amazon_sd_amazon,prec_jul_he_20
50_85_extract_amazon_mean_amazon,prec_jul_he_2050_85_extract_amazon_sd_amazon,
prec_jul_he_2070_85_extract_amazon_mean_amazon,prec_jul_he_2070_85_extract_amazon_sd_amazon,
tmax_jul_he_2050_45_extract_amazon_mean_amazon,tmax_jul_he_2050_45_extract_amazon_sd_amazon,
tmax_jul_he_2070_45_extract_amazon_mean_amazon,tmax_jul_he_2070_45_extract_amazon_sd_amazon,
tmin_jul_present_extract_amazon_mean_amazon,tmin_jul_present_extract_amazon_sd_amazon,tmin_jul_he_20
50_45_extract_amazon_mean_amazon,tmin_jul_he_2050_45_extract_amazon_sd_amazon,
tmin_jul_he_2070_45_extract_amazon_mean_amazon,tmin_jul_he_2070_45_extract_amazon_sd_amazon,
prec_jul_present_extract_amazon_mean_amazon,prec_jul_present_extract_amazon_sd_amazon,prec_jul_he_20
50_45_extract_amazon_mean_amazon,prec_jul_he_2050_45_extract_amazon_sd_amazon,
prec_jul_he_2070_45_extract_amazon_mean_amazon,prec_jul_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_jul, file="extractions_amazon_tmax_jul.txt", append=FALSE,
quote=TRUE, sep=";")


#ago

tmax_ago_present_extract_amazon_mean_amazon<-extract(tmax_ago_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_ago_present_extract_amazon_sd_amazon<-extract(tmax_ago_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_ago_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_ago_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_ago_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_ago_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmax_ago_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_ago_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_ago_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_ago_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


tmin_ago_present_extract_amazon_mean_amazon<-extract(tmin_ago_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_ago_present_extract_amazon_sd_amazon<-extract(tmin_ago_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_ago_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_ago_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_ago_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_ago_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmin_ago_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_ago_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_ago_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_ago_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
```

```
prec_ago_present_extract_amazon_mean_amazon<-extract(prec_ago_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_ago_present_extract_amazon_sd_amazon<-extract(prec_ago_present,amazon[1], fun=sd, na.rm=TRUE)
prec_ago_he_2050_85_extract_amazon_mean_amazon<-extract(prec_ago_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_ago_he_2050_85_extract_amazon_sd_amazon<-extract(prec_ago_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_ago_he_2070_85_extract_amazon_mean_amazon<-extract(prec_ago_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_ago_he_2070_85_extract_amazon_sd_amazon<-extract(prec_ago_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#ago

tmax_ago_present_extract_amazon_mean_amazon<-extract(tmax_ago_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_ago_present_extract_amazon_sd_amazon<-extract(tmax_ago_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_ago_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_ago_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_ago_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_ago_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmax_ago_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_ago_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_ago_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_ago_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_ago_present_extract_amazon_mean_amazon<-extract(tmin_ago_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_ago_present_extract_amazon_sd_amazon<-extract(tmin_ago_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_ago_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_ago_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_ago_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_ago_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_ago_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_ago_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_ago_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_ago_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)


prec_ago_present_extract_amazon_mean_amazon<-extract(prec_ago_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_ago_present_extract_amazon_sd_amazon<-extract(prec_ago_present,amazon[1], fun=sd, na.rm=TRUE)
prec_ago_he_2050_45_extract_amazon_mean_amazon<-extract(prec_ago_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_ago_he_2050_45_extract_amazon_sd_amazon<-extract(prec_ago_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
prec_ago_he_2070_45_extract_amazon_mean_amazon<-extract(prec_ago_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_ago_he_2070_45_extract_amazon_sd_amazon<-extract(prec_ago_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_ago<-
data.frame(tmax_ago_present_extract_amazon_mean_amazon,tmax_ago_present_extract_amazon_sd_amazon,t
max_ago_he_2050_85_extract_amazon_mean_amazon,tmax_ago_he_2050_85_extract_amazon_sd_amazon,tm
ax_ago_he_2070_85_extract_amazon_mean_amazon,tmax_ago_he_2070_85_extract_amazon_sd_amazon,
tmin_ago_present_extract_amazon_mean_amazon,tmin_ago_present_extract_amazon_sd_amazon,tmin_ago_he
_2050_85_extract_amazon_mean_amazon,tmin_ago_he_2050_85_extract_amazon_sd_amazon,
tmin_ago_he_2070_85_extract_amazon_mean_amazon,tmin_ago_he_2070_85_extract_amazon_sd_amazon,
prec_ago_present_extract_amazon_mean_amazon,prec_ago_present_extract_amazon_sd_amazon,prec_ago_he_
2050_85_extract_amazon_mean_amazon,prec_ago_he_2050_85_extract_amazon_sd_amazon,
prec_ago_he_2070_85_extract_amazon_mean_amazon,prec_ago_he_2070_85_extract_amazon_sd_amazon,
tmax_ago_he_2050_45_extract_amazon_mean_amazon,tmax_ago_he_2050_45_extract_amazon_sd_amazon,
```

```
tmax_ago_he_2070_45_extract_amazon_mean_amazon,tmax_ago_he_2070_45_extract_amazon_sd_amazon,
tmin_ago_present_extract_amazon_mean_amazon,tmin_ago_present_extract_amazon_sd_amazon,tmin_ago_he
_2050_45_extract_amazon_mean_amazon,tmin_ago_he_2050_45_extract_amazon_sd_amazon,
tmin_ago_he_2070_45_extract_amazon_mean_amazon,tmin_ago_he_2070_45_extract_amazon_sd_amazon,
prec_ago_present_extract_amazon_mean_amazon,prec_ago_present_extract_amazon_sd_amazon,prec_ago_he_
2050_45_extract_amazon_mean_amazon,prec_ago_he_2050_45_extract_amazon_sd_amazon,
prec_ago_he_2070_45_extract_amazon_mean_amazon,prec_ago_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_ago, file="extractions_amazon_tmax_ago.txt", append=FALSE,
quote=TRUE, sep=";")


#sep

tmax_sep_present_extract_amazon_mean_amazon<-extract(tmax_sep_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_sep_present_extract_amazon_sd_amazon<-extract(tmax_sep_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_sep_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_sep_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_sep_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmax_sep_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_sep_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_sep_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


tmin_sep_present_extract_amazon_mean_amazon<-extract(tmin_sep_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_sep_present_extract_amazon_sd_amazon<-extract(tmin_sep_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_sep_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_sep_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_sep_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmin_sep_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_sep_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_sep_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


prec_sep_present_extract_amazon_mean_amazon<-extract(prec_sep_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_sep_present_extract_amazon_sd_amazon<-extract(prec_sep_present,amazon[1], fun=sd, na.rm=TRUE)
prec_sep_he_2050_85_extract_amazon_mean_amazon<-extract(prec_sep_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_sep_he_2050_85_extract_amazon_sd_amazon<-extract(prec_sep_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_sep_he_2070_85_extract_amazon_mean_amazon<-extract(prec_sep_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_sep_he_2070_85_extract_amazon_sd_amazon<-extract(prec_sep_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#sep

tmax_sep_present_extract_amazon_mean_amazon<-extract(tmax_sep_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_sep_present_extract_amazon_sd_amazon<-extract(tmax_sep_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_sep_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_sep_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_sep_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
```

```
tmax_sep_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_sep_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_sep_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_sep_present_extract_amazon_mean_amazon<-extract(tmin_sep_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_sep_present_extract_amazon_sd_amazon<-extract(tmin_sep_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_sep_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_sep_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_sep_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_sep_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_sep_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_sep_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)


prec_sep_present_extract_amazon_mean_amazon<-extract(prec_sep_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_sep_present_extract_amazon_sd_amazon<-extract(prec_sep_present,amazon[1], fun=sd, na.rm=TRUE)
prec_sep_he_2050_45_extract_amazon_mean_amazon<-extract(prec_sep_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_sep_he_2050_45_extract_amazon_sd_amazon<-extract(prec_sep_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
prec_sep_he_2070_45_extract_amazon_mean_amazon<-extract(prec_sep_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_sep_he_2070_45_extract_amazon_sd_amazon<-extract(prec_sep_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_sep<-
data.frame(tmax_sep_present_extract_amazon_mean_amazon,tmax_sep_present_extract_amazon_sd_amazon,t
max_sep_he_2050_85_extract_amazon_mean_amazon,tmax_sep_he_2050_85_extract_amazon_sd_amazon,tma
x_sep_he_2070_85_extract_amazon_mean_amazon,tmax_sep_he_2070_85_extract_amazon_sd_amazon,
tmin_sep_present_extract_amazon_mean_amazon,tmin_sep_present_extract_amazon_sd_amazon,tmin_sep_he_
2050_85_extract_amazon_mean_amazon,tmin_sep_he_2050_85_extract_amazon_sd_amazon,
tmin_sep_he_2070_85_extract_amazon_mean_amazon,tmin_sep_he_2070_85_extract_amazon_sd_amazon,
prec_sep_present_extract_amazon_mean_amazon,prec_sep_present_extract_amazon_sd_amazon,prec_sep_he_2
050_85_extract_amazon_mean_amazon,prec_sep_he_2050_85_extract_amazon_sd_amazon,
prec_sep_he_2070_85_extract_amazon_mean_amazon,prec_sep_he_2070_85_extract_amazon_sd_amazon,
tmax_sep_he_2050_45_extract_amazon_mean_amazon,tmax_sep_he_2050_45_extract_amazon_sd_amazon,
tmax_sep_he_2070_45_extract_amazon_mean_amazon,tmax_sep_he_2070_45_extract_amazon_sd_amazon,
tmin_sep_present_extract_amazon_mean_amazon,tmin_sep_present_extract_amazon_sd_amazon,tmin_sep_he_
2050_45_extract_amazon_mean_amazon,tmin_sep_he_2050_45_extract_amazon_sd_amazon,
tmin_sep_he_2070_45_extract_amazon_mean_amazon,tmin_sep_he_2070_45_extract_amazon_sd_amazon,
prec_sep_present_extract_amazon_mean_amazon,prec_sep_present_extract_amazon_sd_amazon,prec_sep_he_2
050_45_extract_amazon_mean_amazon,prec_sep_he_2050_45_extract_amazon_sd_amazon,
prec_sep_he_2070_45_extract_amazon_mean_amazon,prec_sep_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_sep, file="extractions_amazon_tmax_sep.txt", append=FALSE,
quote=TRUE, sep=";")

tmax_sep_present_extract_tis_mean_amazon<-extract(tmax_sep_present,tis[1], fun=mean, na.rm=TRUE)
tmax_sep_present_extract_tis_sd_amazon<-extract(tmax_sep_present,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_he_2050_45_extract_tis_mean_amazon<-extract(tmax_sep_he_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2050_45_extract_tis_sd_amazon<-extract(tmax_sep_he_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_he_2070_45_extract_tis_mean_amazon<-extract(tmax_sep_he_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2070_45_extract_tis_sd_amazon<-extract(tmax_sep_he_2070_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_mr_2050_45_extract_tis_mean_amazon<-extract(tmax_sep_mr_2050_45,tis[1], fun=mean,
na.rm=TRUE)
```

```
tmax_sep_mr_2050_45_extract_tis_sd_amazon<-extract(tmax_sep_mr_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_mr_2070_45_extract_tis_mean_amazon<-extract(tmax_sep_mr_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_mr_2070_45_extract_tis_sd_amazon<-extract(tmax_sep_mr_2070_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_mp_2050_45_extract_tis_mean_amazon<-extract(tmax_sep_mp_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_mp_2050_45_extract_tis_sd_amazon<-extract(tmax_sep_mp_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_mp_2070_45_extract_tis_mean_amazon<-extract(tmax_sep_mp_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_mp_2070_45_extract_tis_sd_amazon<-extract(tmax_sep_mp_2070_45,tis[1], fun=sd, na.rm=TRUE)



tmin_sep_present_extract_tis_mean_amazon<-extract(tmin_sep_present,tis[1], fun=mean, na.rm=TRUE)
tmin_sep_present_extract_tis_sd_amazon<-extract(tmin_sep_present,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_he_2050_45_extract_tis_mean_amazon<-extract(tmin_sep_he_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2050_45_extract_tis_sd_amazon<-extract(tmin_sep_he_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_he_2070_45_extract_tis_mean_amazon<-extract(tmin_sep_he_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2070_45_extract_tis_sd_amazon<-extract(tmin_sep_he_2070_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_mr_2050_45_extract_tis_mean_amazon<-extract(tmin_sep_mr_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_mr_2050_45_extract_tis_sd_amazon<-extract(tmin_sep_mr_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_mr_2070_45_extract_tis_mean_amazon<-extract(tmin_sep_mr_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_mr_2070_45_extract_tis_sd_amazon<-extract(tmin_sep_mr_2070_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_mp_2050_45_extract_tis_mean_amazon<-extract(tmin_sep_mp_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_mp_2050_45_extract_tis_sd_amazon<-extract(tmin_sep_mp_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_mp_2070_45_extract_tis_mean_amazon<-extract(tmin_sep_mp_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_mp_2070_45_extract_tis_sd_amazon<-extract(tmin_sep_mp_2070_45,tis[1], fun=sd, na.rm=TRUE)

#out
tmax_out_present_extract_amazon_mean_amazon<-extract(tmax_out_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_out_present_extract_amazon_sd_amazon<-extract(tmax_out_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_out_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_out_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_out_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_out_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmax_out_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_out_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_out_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_out_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


tmin_out_present_extract_amazon_mean_amazon<-extract(tmin_out_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_out_present_extract_amazon_sd_amazon<-extract(tmin_out_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_out_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_out_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_out_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_out_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmin_out_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_out_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_out_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_out_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
```

```
prec_out_present_extract_amazon_mean_amazon<-extract(prec_out_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_out_present_extract_amazon_sd_amazon<-extract(prec_out_present,amazon[1], fun=sd, na.rm=TRUE)
prec_out_he_2050_85_extract_amazon_mean_amazon<-extract(prec_out_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_out_he_2050_85_extract_amazon_sd_amazon<-extract(prec_out_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_out_he_2070_85_extract_amazon_mean_amazon<-extract(prec_out_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_out_he_2070_85_extract_amazon_sd_amazon<-extract(prec_out_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#out

tmax_out_present_extract_amazon_mean_amazon<-extract(tmax_out_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_out_present_extract_amazon_sd_amazon<-extract(tmax_out_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_out_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_out_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_out_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_out_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmax_out_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_out_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_out_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_out_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_out_present_extract_amazon_mean_amazon<-extract(tmin_out_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_out_present_extract_amazon_sd_amazon<-extract(tmin_out_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_out_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_out_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_out_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_out_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_out_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_out_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_out_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_out_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)


prec_out_present_extract_amazon_mean_amazon<-extract(prec_out_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_out_present_extract_amazon_sd_amazon<-extract(prec_out_present,amazon[1], fun=sd, na.rm=TRUE)
prec_out_he_2050_45_extract_amazon_mean_amazon<-extract(prec_out_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_out_he_2050_45_extract_amazon_sd_amazon<-extract(prec_out_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
prec_out_he_2070_45_extract_amazon_mean_amazon<-extract(prec_out_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_out_he_2070_45_extract_amazon_sd_amazon<-extract(prec_out_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_out<-
data.frame(tmax_out_present_extract_amazon_mean_amazon,tmax_out_present_extract_amazon_sd_amazon,t
max_out_he_2050_85_extract_amazon_mean_amazon,tmax_out_he_2050_85_extract_amazon_sd_amazon,tma
x_out_he_2070_85_extract_amazon_mean_amazon,tmax_out_he_2070_85_extract_amazon_sd_amazon,
tmin_out_present_extract_amazon_mean_amazon,tmin_out_present_extract_amazon_sd_amazon,tmin_out_he_
2050_85_extract_amazon_mean_amazon,tmin_out_he_2050_85_extract_amazon_sd_amazon,
tmin_out_he_2070_85_extract_amazon_mean_amazon,tmin_out_he_2070_85_extract_amazon_sd_amazon,
prec_out_present_extract_amazon_mean_amazon,prec_out_present_extract_amazon_sd_amazon,prec_out_he_2
050_85_extract_amazon_mean_amazon,prec_out_he_2050_85_extract_amazon_sd_amazon,
```

```
prec_out_he_2070_85_extract_amazon_mean_amazon,prec_out_he_2070_85_extract_amazon_sd_amazon,
tmax_out_he_2050_45_extract_amazon_mean_amazon,tmax_out_he_2050_45_extract_amazon_sd_amazon,
tmax_out_he_2070_45_extract_amazon_mean_amazon,tmax_out_he_2070_45_extract_amazon_sd_amazon,
tmin_out_present_extract_amazon_mean_amazon,tmin_out_present_extract_amazon_sd_amazon,tmin_out_he_
2050_45_extract_amazon_mean_amazon,tmin_out_he_2050_45_extract_amazon_sd_amazon,
tmin_out_he_2070_45_extract_amazon_mean_amazon,tmin_out_he_2070_45_extract_amazon_sd_amazon,
prec_out_present_extract_amazon_mean_amazon,prec_out_present_extract_amazon_sd_amazon,prec_out_he_2
050_45_extract_amazon_mean_amazon,prec_out_he_2050_45_extract_amazon_sd_amazon,
prec_out_he_2070_45_extract_amazon_mean_amazon,prec_out_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_out, file="extractions_amazon_tmax_out.txt", append=FALSE,
quote=TRUE, sep=";")

#nov

tmax_nov_present_extract_amazon_mean_amazon<-extract(tmax_nov_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_nov_present_extract_amazon_sd_amazon<-extract(tmax_nov_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_nov_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_nov_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_nov_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_nov_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmax_nov_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_nov_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_nov_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_nov_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


tmin_nov_present_extract_amazon_mean_amazon<-extract(tmin_nov_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_nov_present_extract_amazon_sd_amazon<-extract(tmin_nov_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_nov_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_nov_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_nov_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_nov_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmin_nov_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_nov_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_nov_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_nov_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


prec_nov_present_extract_amazon_mean_amazon<-extract(prec_nov_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_nov_present_extract_amazon_sd_amazon<-extract(prec_nov_present,amazon[1], fun=sd, na.rm=TRUE)
prec_nov_he_2050_85_extract_amazon_mean_amazon<-extract(prec_nov_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_nov_he_2050_85_extract_amazon_sd_amazon<-extract(prec_nov_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_nov_he_2070_85_extract_amazon_mean_amazon<-extract(prec_nov_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_nov_he_2070_85_extract_amazon_sd_amazon<-extract(prec_nov_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#nov

tmax_nov_present_extract_amazon_mean_amazon<-extract(tmax_nov_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_nov_present_extract_amazon_sd_amazon<-extract(tmax_nov_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_nov_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_nov_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_nov_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_nov_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
```

```
tmax_nov_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_nov_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_nov_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_nov_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_nov_present_extract_amazon_mean_amazon<-extract(tmin_nov_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_nov_present_extract_amazon_sd_amazon<-extract(tmin_nov_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_nov_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_nov_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_nov_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_nov_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_nov_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_nov_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_nov_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_nov_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)


prec_nov_present_extract_amazon_mean_amazon<-extract(prec_nov_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_nov_present_extract_amazon_sd_amazon<-extract(prec_nov_present,amazon[1], fun=sd, na.rm=TRUE)
prec_nov_he_2050_45_extract_amazon_mean_amazon<-extract(prec_nov_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_nov_he_2050_45_extract_amazon_sd_amazon<-extract(prec_nov_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
prec_nov_he_2070_45_extract_amazon_mean_amazon<-extract(prec_nov_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_nov_he_2070_45_extract_amazon_sd_amazon<-extract(prec_nov_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_nov<-
data.frame(tmax_nov_present_extract_amazon_mean_amazon,tmax_nov_present_extract_amazon_sd_amazon,t
max_nov_he_2050_85_extract_amazon_mean_amazon,tmax_nov_he_2050_85_extract_amazon_sd_amazon,tm
ax_nov_he_2070_85_extract_amazon_mean_amazon,tmax_nov_he_2070_85_extract_amazon_sd_amazon,
tmin_nov_present_extract_amazon_mean_amazon,tmin_nov_present_extract_amazon_sd_amazon,tmin_nov_he
_2050_85_extract_amazon_mean_amazon,tmin_nov_he_2050_85_extract_amazon_sd_amazon,
tmin_nov_he_2070_85_extract_amazon_mean_amazon,tmin_nov_he_2070_85_extract_amazon_sd_amazon,
prec_nov_present_extract_amazon_mean_amazon,prec_nov_present_extract_amazon_sd_amazon,prec_nov_he_
2050_85_extract_amazon_mean_amazon,prec_nov_he_2050_85_extract_amazon_sd_amazon,
prec_nov_he_2070_85_extract_amazon_mean_amazon,prec_nov_he_2070_85_extract_amazon_sd_amazon,
tmax_nov_he_2050_45_extract_amazon_mean_amazon,tmax_nov_he_2050_45_extract_amazon_sd_amazon,
tmax_nov_he_2070_45_extract_amazon_mean_amazon,tmax_nov_he_2070_45_extract_amazon_sd_amazon,
tmin_nov_present_extract_amazon_mean_amazon,tmin_nov_present_extract_amazon_sd_amazon,tmin_nov_he
_2050_45_extract_amazon_mean_amazon,tmin_nov_he_2050_45_extract_amazon_sd_amazon,
tmin_nov_he_2070_45_extract_amazon_mean_amazon,tmin_nov_he_2070_45_extract_amazon_sd_amazon,
prec_nov_present_extract_amazon_mean_amazon,prec_nov_present_extract_amazon_sd_amazon,prec_nov_he_
2050_45_extract_amazon_mean_amazon,prec_nov_he_2050_45_extract_amazon_sd_amazon,
prec_nov_he_2070_45_extract_amazon_mean_amazon,prec_nov_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_nov, file="extractions_amazon_tmax_nov.txt", append=FALSE,
quote=TRUE, sep=";")


#dez

tmax_dez_present_extract_amazon_mean_amazon<-extract(tmax_dez_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_dez_present_extract_amazon_sd_amazon<-extract(tmax_dez_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_dez_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_dez_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_dez_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_dez_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
```

```
tmax_dez_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_dez_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmax_dez_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_dez_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


tmin_dez_present_extract_amazon_mean_amazon<-extract(tmin_dez_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_dez_present_extract_amazon_sd_amazon<-extract(tmin_dez_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_dez_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_dez_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_dez_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_dez_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
tmin_dez_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_dez_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
tmin_dez_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_dez_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)


prec_dez_present_extract_amazon_mean_amazon<-extract(prec_dez_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_dez_present_extract_amazon_sd_amazon<-extract(prec_dez_present,amazon[1], fun=sd, na.rm=TRUE)
prec_dez_he_2050_85_extract_amazon_mean_amazon<-extract(prec_dez_he_2050_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_dez_he_2050_85_extract_amazon_sd_amazon<-extract(prec_dez_he_2050_85,amazon[1], fun=sd,
na.rm=TRUE)
prec_dez_he_2070_85_extract_amazon_mean_amazon<-extract(prec_dez_he_2070_85,amazon[1], fun=mean,
na.rm=TRUE)
prec_dez_he_2070_85_extract_amazon_sd_amazon<-extract(prec_dez_he_2070_85,amazon[1], fun=sd,
na.rm=TRUE)
#dez

tmax_dez_present_extract_amazon_mean_amazon<-extract(tmax_dez_present,amazon[1], fun=mean,
na.rm=TRUE)
tmax_dez_present_extract_amazon_sd_amazon<-extract(tmax_dez_present,amazon[1], fun=sd, na.rm=TRUE)
tmax_dez_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_dez_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_dez_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_dez_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmax_dez_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_dez_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmax_dez_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_dez_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_dez_present_extract_amazon_mean_amazon<-extract(tmin_dez_present,amazon[1], fun=mean,
na.rm=TRUE)
tmin_dez_present_extract_amazon_sd_amazon<-extract(tmin_dez_present,amazon[1], fun=sd, na.rm=TRUE)
tmin_dez_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_dez_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_dez_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_dez_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
tmin_dez_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_dez_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
tmin_dez_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_dez_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)


prec_dez_present_extract_amazon_mean_amazon<-extract(prec_dez_present,amazon[1], fun=mean,
na.rm=TRUE)
prec_dez_present_extract_amazon_sd_amazon<-extract(prec_dez_present,amazon[1], fun=sd, na.rm=TRUE)
```

```
prec_dez_he_2050_45_extract_amazon_mean_amazon<-extract(prec_dez_he_2050_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_dez_he_2050_45_extract_amazon_sd_amazon<-extract(prec_dez_he_2050_45,amazon[1], fun=sd,
na.rm=TRUE)
prec_dez_he_2070_45_extract_amazon_mean_amazon<-extract(prec_dez_he_2070_45,amazon[1], fun=mean,
na.rm=TRUE)
prec_dez_he_2070_45_extract_amazon_sd_amazon<-extract(prec_dez_he_2070_45,amazon[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_dez<-
data.frame(tmax_dez_present_extract_amazon_mean_amazon,tmax_dez_present_extract_amazon_sd_amazon,t
max_dez_he_2050_85_extract_amazon_mean_amazon,tmax_dez_he_2050_85_extract_amazon_sd_amazon,tma
x_dez_he_2070_85_extract_amazon_mean_amazon,tmax_dez_he_2070_85_extract_amazon_sd_amazon,
tmin_dez_present_extract_amazon_mean_amazon,tmin_dez_present_extract_amazon_sd_amazon,tmin_dez_he_
2050_85_extract_amazon_mean_amazon,tmin_dez_he_2050_85_extract_amazon_sd_amazon,
tmin_dez_he_2070_85_extract_amazon_mean_amazon,tmin_dez_he_2070_85_extract_amazon_sd_amazon,
prec_dez_present_extract_amazon_mean_amazon,prec_dez_present_extract_amazon_sd_amazon,prec_dez_he_
2050_85_extract_amazon_mean_amazon,prec_dez_he_2050_85_extract_amazon_sd_amazon,
prec_dez_he_2070_85_extract_amazon_mean_amazon,prec_dez_he_2070_85_extract_amazon_sd_amazon,
tmax_dez_he_2050_45_extract_amazon_mean_amazon,tmax_dez_he_2050_45_extract_amazon_sd_amazon,
tmax_dez_he_2070_45_extract_amazon_mean_amazon,tmax_dez_he_2070_45_extract_amazon_sd_amazon,
tmin_dez_present_extract_amazon_mean_amazon,tmin_dez_present_extract_amazon_sd_amazon,tmin_dez_he_
2050_45_extract_amazon_mean_amazon,tmin_dez_he_2050_45_extract_amazon_sd_amazon,
tmin_dez_he_2070_45_extract_amazon_mean_amazon,tmin_dez_he_2070_45_extract_amazon_sd_amazon,
prec_dez_present_extract_amazon_mean_amazon,prec_dez_present_extract_amazon_sd_amazon,prec_dez_he_
2050_45_extract_amazon_mean_amazon,prec_dez_he_2050_45_extract_amazon_sd_amazon,
prec_dez_he_2070_45_extract_amazon_mean_amazon,prec_dez_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_dez, file="extractions_amazon_tmax_dez.txt", append=FALSE,
quote=TRUE, sep=";")

#extraction UCs
#jan

tmax_jan_present_extract_amazon_mean_amazon<-extract(tmax_jan_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_jan_present_extract_amazon_sd_amazon<-extract(tmax_jan_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_jan_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_jan_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jan_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_jan_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_jan_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_jan_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jan_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_jan_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)

tmin_jan_present_extract_amazon_mean_amazon<-extract(tmin_jan_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_jan_present_extract_amazon_sd_amazon<-extract(tmin_jan_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_jan_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_jan_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jan_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_jan_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_jan_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_jan_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jan_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_jan_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)

prec_jan_present_extract_amazon_mean_amazon<-extract(prec_jan_present,ucs[1], fun=mean, na.rm=TRUE)
prec_jan_present_extract_amazon_sd_amazon<-extract(prec_jan_present,ucs[1], fun=sd, na.rm=TRUE)
prec_jan_he_2050_85_extract_amazon_mean_amazon<-extract(prec_jan_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
```

```
prec_jan_he_2050_85_extract_amazon_sd_amazon<-extract(prec_jan_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_jan_he_2070_85_extract_amazon_mean_amazon<-extract(prec_jan_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_jan_he_2070_85_extract_amazon_sd_amazon<-extract(prec_jan_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#jan

tmax_jan_present_extract_amazon_mean_amazon<-extract(tmax_jan_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_jan_present_extract_amazon_sd_amazon<-extract(tmax_jan_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_jan_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_jan_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jan_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_jan_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_jan_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_jan_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jan_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_jan_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_jan_present_extract_amazon_mean_amazon<-extract(tmin_jan_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_jan_present_extract_amazon_sd_amazon<-extract(tmin_jan_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_jan_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_jan_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jan_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_jan_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_jan_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_jan_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jan_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_jan_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_jan_present_extract_amazon_mean_amazon<-extract(prec_jan_present,ucs[1], fun=mean, na.rm=TRUE)
prec_jan_present_extract_amazon_sd_amazon<-extract(prec_jan_present,ucs[1], fun=sd, na.rm=TRUE)
prec_jan_he_2050_45_extract_amazon_mean_amazon<-extract(prec_jan_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_jan_he_2050_45_extract_amazon_sd_amazon<-extract(prec_jan_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_jan_he_2070_45_extract_amazon_mean_amazon<-extract(prec_jan_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_jan_he_2070_45_extract_amazon_sd_amazon<-extract(prec_jan_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_jan<-
data.frame(tmax_jan_present_extract_amazon_mean_amazon,tmax_jan_present_extract_amazon_sd_amazon,tm
ax_jan_he_2050_85_extract_amazon_mean_amazon,tmax_jan_he_2050_85_extract_amazon_sd_amazon,tmax_
jan_he_2070_85_extract_amazon_mean_amazon,tmax_jan_he_2070_85_extract_amazon_sd_amazon,
tmin_jan_present_extract_amazon_mean_amazon,tmin_jan_present_extract_amazon_sd_amazon,tmin_jan_he_2
050_85_extract_amazon_mean_amazon,tmin_jan_he_2050_85_extract_amazon_sd_amazon,
tmin_jan_he_2070_85_extract_amazon_mean_amazon,tmin_jan_he_2070_85_extract_amazon_sd_amazon,
prec_jan_present_extract_amazon_mean_amazon,prec_jan_present_extract_amazon_sd_amazon,prec_jan_he_2
050_85_extract_amazon_mean_amazon,prec_jan_he_2050_85_extract_amazon_sd_amazon,
prec_jan_he_2070_85_extract_amazon_mean_amazon,prec_jan_he_2070_85_extract_amazon_sd_amazon,
tmax_jan_he_2050_45_extract_amazon_mean_amazon,tmax_jan_he_2050_45_extract_amazon_sd_amazon,
tmax_jan_he_2070_45_extract_amazon_mean_amazon,tmax_jan_he_2070_45_extract_amazon_sd_amazon,
tmin_jan_present_extract_amazon_mean_amazon,tmin_jan_present_extract_amazon_sd_amazon,tmin_jan_he_2
050_45_extract_amazon_mean_amazon,tmin_jan_he_2050_45_extract_amazon_sd_amazon,
tmin_jan_he_2070_45_extract_amazon_mean_amazon,tmin_jan_he_2070_45_extract_amazon_sd_amazon,
prec_jan_present_extract_amazon_mean_amazon,prec_jan_present_extract_amazon_sd_amazon,prec_jan_he_2
050_45_extract_amazon_mean_amazon,prec_jan_he_2050_45_extract_amazon_sd_amazon,
prec_jan_he_2070_45_extract_amazon_mean_amazon,prec_jan_he_2070_45_extract_amazon_sd_amazon)
```

```
 write.table(extractions_amazon_tmax_jan, file="extractions_amazon_tmax_jan.txt", append=FALSE,
quote=TRUE, sep=";")


#fev
tmax_fev_present_extract_amazon_mean_amazon<-extract(tmax_fev_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_fev_present_extract_amazon_sd_amazon<-extract(tmax_fev_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_fev_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_fev_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_fev_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_fev_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_fev_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_fev_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_fev_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_fev_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)

tmin_fev_present_extract_amazon_mean_amazon<-extract(tmin_fev_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_fev_present_extract_amazon_sd_amazon<-extract(tmin_fev_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_fev_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_fev_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_fev_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_fev_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_fev_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_fev_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_fev_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_fev_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)

prec_fev_present_extract_amazon_mean_amazon<-extract(prec_fev_present,ucs[1], fun=mean, na.rm=TRUE)
prec_fev_present_extract_amazon_sd_amazon<-extract(prec_fev_present,ucs[1], fun=sd, na.rm=TRUE)
prec_fev_he_2050_85_extract_amazon_mean_amazon<-extract(prec_fev_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_fev_he_2050_85_extract_amazon_sd_amazon<-extract(prec_fev_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_fev_he_2070_85_extract_amazon_mean_amazon<-extract(prec_fev_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_fev_he_2070_85_extract_amazon_sd_amazon<-extract(prec_fev_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#fev

tmax_fev_present_extract_amazon_mean_amazon<-extract(tmax_fev_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_fev_present_extract_amazon_sd_amazon<-extract(tmax_fev_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_fev_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_fev_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_fev_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_fev_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_fev_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_fev_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_fev_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_fev_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_fev_present_extract_amazon_mean_amazon<-extract(tmin_fev_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_fev_present_extract_amazon_sd_amazon<-extract(tmin_fev_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_fev_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_fev_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_fev_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_fev_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_fev_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_fev_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_fev_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_fev_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
```

```
prec_fev_present_extract_amazon_mean_amazon<-extract(prec_fev_present,ucs[1], fun=mean, na.rm=TRUE)
prec_fev_present_extract_amazon_sd_amazon<-extract(prec_fev_present,ucs[1], fun=sd, na.rm=TRUE)
prec_fev_he_2050_45_extract_amazon_mean_amazon<-extract(prec_fev_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_fev_he_2050_45_extract_amazon_sd_amazon<-extract(prec_fev_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_fev_he_2070_45_extract_amazon_mean_amazon<-extract(prec_fev_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_fev_he_2070_45_extract_amazon_sd_amazon<-extract(prec_fev_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_fev<-
data.frame(tmax_fev_present_extract_amazon_mean_amazon,tmax_fev_present_extract_amazon_sd_amazon,tmax_fev_he_2050_85_extract_amazon_mean_amazon,tmax_fev_he_2050_85_extract_amazon_sd_amazon,tmax_fev_he_2070_85_extract_amazon_mean_amazon,tmax_fev_he_2070_85_extract_amazon_sd_amazon,
tmin_fev_present_extract_amazon_mean_amazon,tmin_fev_present_extract_amazon_sd_amazon,tmin_fev_he_2050_85_extract_amazon_mean_amazon,tmin_fev_he_2050_85_extract_amazon_sd_amazon,
tmin_fev_he_2070_85_extract_amazon_mean_amazon,tmin_fev_he_2070_85_extract_amazon_sd_amazon,
prec_fev_present_extract_amazon_mean_amazon,prec_fev_present_extract_amazon_sd_amazon,prec_fev_he_2050_85_extract_amazon_mean_amazon,prec_fev_he_2050_85_extract_amazon_sd_amazon,
prec_fev_he_2070_85_extract_amazon_mean_amazon,prec_fev_he_2070_85_extract_amazon_sd_amazon,
tmax_fev_he_2050_45_extract_amazon_mean_amazon,tmax_fev_he_2050_45_extract_amazon_sd_amazon,
tmax_fev_he_2070_45_extract_amazon_mean_amazon,tmax_fev_he_2070_45_extract_amazon_sd_amazon,
tmin_fev_present_extract_amazon_mean_amazon,tmin_fev_present_extract_amazon_sd_amazon,tmin_fev_he_2050_45_extract_amazon_mean_amazon,tmin_fev_he_2050_45_extract_amazon_sd_amazon,
tmin_fev_he_2070_45_extract_amazon_mean_amazon,tmin_fev_he_2070_45_extract_amazon_sd_amazon,
prec_fev_present_extract_amazon_mean_amazon,prec_fev_present_extract_amazon_sd_amazon,prec_fev_he_2050_45_extract_amazon_mean_amazon,prec_fev_he_2050_45_extract_amazon_sd_amazon,
prec_fev_he_2070_45_extract_amazon_mean_amazon,prec_fev_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_fev, file="extractions_amazon_tmax_fev.txt", append=FALSE,
quote=TRUE, sep=";")

#mar

tmax_mar_present_extract_amazon_mean_amazon<-extract(tmax_mar_present,ucs[1], fun=mean,
na.rm=TRUE)
tmax_mar_present_extract_amazon_sd_amazon<-extract(tmax_mar_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_mar_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_mar_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_mar_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_mar_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_mar_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_mar_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_mar_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_mar_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_mar_present_extract_amazon_mean_amazon<-extract(tmin_mar_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_mar_present_extract_amazon_sd_amazon<-extract(tmin_mar_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_mar_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_mar_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_mar_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_mar_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_mar_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_mar_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_mar_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_mar_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
```

```
prec_mar_present_extract_amazon_mean_amazon<-extract(prec_mar_present,ucs[1], fun=mean, na.rm=TRUE)
prec_mar_present_extract_amazon_sd_amazon<-extract(prec_mar_present,ucs[1], fun=sd, na.rm=TRUE)
prec_mar_he_2050_85_extract_amazon_mean_amazon<-extract(prec_mar_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_mar_he_2050_85_extract_amazon_sd_amazon<-extract(prec_mar_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_mar_he_2070_85_extract_amazon_mean_amazon<-extract(prec_mar_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_mar_he_2070_85_extract_amazon_sd_amazon<-extract(prec_mar_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#mar

tmax_mar_present_extract_amazon_mean_amazon<-extract(tmax_mar_present,ucs[1], fun=mean,
na.rm=TRUE)
tmax_mar_present_extract_amazon_sd_amazon<-extract(tmax_mar_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_mar_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_mar_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_mar_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_mar_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_mar_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_mar_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_mar_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_mar_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_mar_present_extract_amazon_mean_amazon<-extract(tmin_mar_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_mar_present_extract_amazon_sd_amazon<-extract(tmin_mar_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_mar_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_mar_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_mar_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_mar_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_mar_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_mar_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_mar_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_mar_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_mar_present_extract_amazon_mean_amazon<-extract(prec_mar_present,ucs[1], fun=mean, na.rm=TRUE)
prec_mar_present_extract_amazon_sd_amazon<-extract(prec_mar_present,ucs[1], fun=sd, na.rm=TRUE)
prec_mar_he_2050_45_extract_amazon_mean_amazon<-extract(prec_mar_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_mar_he_2050_45_extract_amazon_sd_amazon<-extract(prec_mar_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_mar_he_2070_45_extract_amazon_mean_amazon<-extract(prec_mar_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_mar_he_2070_45_extract_amazon_sd_amazon<-extract(prec_mar_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_mar<-
data.frame(tmax_mar_present_extract_amazon_mean_amazon,tmax_mar_present_extract_amazon_sd_amazon,t
max_mar_he_2050_85_extract_amazon_mean_amazon,tmax_mar_he_2050_85_extract_amazon_sd_amazon,tm
ax_mar_he_2070_85_extract_amazon_mean_amazon,tmax_mar_he_2070_85_extract_amazon_sd_amazon,
tmin_mar_present_extract_amazon_mean_amazon,tmin_mar_present_extract_amazon_sd_amazon,tmin_mar_he
_2050_85_extract_amazon_mean_amazon,tmin_mar_he_2050_85_extract_amazon_sd_amazon,
tmin_mar_he_2070_85_extract_amazon_mean_amazon,tmin_mar_he_2070_85_extract_amazon_sd_amazon,
prec_mar_present_extract_amazon_mean_amazon,prec_mar_present_extract_amazon_sd_amazon,prec_mar_he
_2050_85_extract_amazon_mean_amazon,prec_mar_he_2050_85_extract_amazon_sd_amazon,
prec_mar_he_2070_85_extract_amazon_mean_amazon,prec_mar_he_2070_85_extract_amazon_sd_amazon,
tmax_mar_he_2050_45_extract_amazon_mean_amazon,tmax_mar_he_2050_45_extract_amazon_sd_amazon,
tmax_mar_he_2070_45_extract_amazon_mean_amazon,tmax_mar_he_2070_45_extract_amazon_sd_amazon,
tmin_mar_present_extract_amazon_mean_amazon,tmin_mar_present_extract_amazon_sd_amazon,tmin_mar_he
_2050_45_extract_amazon_mean_amazon,tmin_mar_he_2050_45_extract_amazon_sd_amazon,
```

```
tmin_mar_he_2070_45_extract_amazon_mean_amazon,tmin_mar_he_2070_45_extract_amazon_sd_amazon,
prec_mar_present_extract_amazon_mean_amazon,prec_mar_present_extract_amazon_sd_amazon,prec_mar_he
_2050_45_extract_amazon_mean_amazon,prec_mar_he_2050_45_extract_amazon_sd_amazon,
prec_mar_he_2070_45_extract_amazon_mean_amazon,prec_mar_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_mar, file="extractions_amazon_tmax_mar.txt", append=FALSE,
quote=TRUE, sep=";")



#abr

tmax_abr_present_extract_amazon_mean_amazon<-extract(tmax_abr_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_abr_present_extract_amazon_sd_amazon<-extract(tmax_abr_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_abr_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_abr_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_abr_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_abr_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_abr_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_abr_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_abr_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_abr_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_abr_present_extract_amazon_mean_amazon<-extract(tmin_abr_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_abr_present_extract_amazon_sd_amazon<-extract(tmin_abr_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_abr_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_abr_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_abr_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_abr_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_abr_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_abr_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_abr_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_abr_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


prec_abr_present_extract_amazon_mean_amazon<-extract(prec_abr_present,ucs[1], fun=mean, na.rm=TRUE)
prec_abr_present_extract_amazon_sd_amazon<-extract(prec_abr_present,ucs[1], fun=sd, na.rm=TRUE)
prec_abr_he_2050_85_extract_amazon_mean_amazon<-extract(prec_abr_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_abr_he_2050_85_extract_amazon_sd_amazon<-extract(prec_abr_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_abr_he_2070_85_extract_amazon_mean_amazon<-extract(prec_abr_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_abr_he_2070_85_extract_amazon_sd_amazon<-extract(prec_abr_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#abr

tmax_abr_present_extract_amazon_mean_amazon<-extract(tmax_abr_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_abr_present_extract_amazon_sd_amazon<-extract(tmax_abr_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_abr_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_abr_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_abr_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_abr_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_abr_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_abr_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_abr_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_abr_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_abr_present_extract_amazon_mean_amazon<-extract(tmin_abr_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_abr_present_extract_amazon_sd_amazon<-extract(tmin_abr_present,ucs[1], fun=sd, na.rm=TRUE)
```

```
tmin_abr_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_abr_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_abr_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_abr_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_abr_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_abr_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_abr_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_abr_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_abr_present_extract_amazon_mean_amazon<-extract(prec_abr_present,ucs[1], fun=mean, na.rm=TRUE)
prec_abr_present_extract_amazon_sd_amazon<-extract(prec_abr_present,ucs[1], fun=sd, na.rm=TRUE)
prec_abr_he_2050_45_extract_amazon_mean_amazon<-extract(prec_abr_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_abr_he_2050_45_extract_amazon_sd_amazon<-extract(prec_abr_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_abr_he_2070_45_extract_amazon_mean_amazon<-extract(prec_abr_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_abr_he_2070_45_extract_amazon_sd_amazon<-extract(prec_abr_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_abr<-
data.frame(tmax_abr_present_extract_amazon_mean_amazon,tmax_abr_present_extract_amazon_sd_amazon,t
max_abr_he_2050_85_extract_amazon_mean_amazon,tmax_abr_he_2050_85_extract_amazon_sd_amazon,tma
x_abr_he_2070_85_extract_amazon_mean_amazon,tmax_abr_he_2070_85_extract_amazon_sd_amazon,
tmin_abr_present_extract_amazon_mean_amazon,tmin_abr_present_extract_amazon_sd_amazon,tmin_abr_he_
2050_85_extract_amazon_mean_amazon,tmin_abr_he_2050_85_extract_amazon_sd_amazon,
tmin_abr_he_2070_85_extract_amazon_mean_amazon,tmin_abr_he_2070_85_extract_amazon_sd_amazon,
prec_abr_present_extract_amazon_mean_amazon,prec_abr_present_extract_amazon_sd_amazon,prec_abr_he_2
050_85_extract_amazon_mean_amazon,prec_abr_he_2050_85_extract_amazon_sd_amazon,
prec_abr_he_2070_85_extract_amazon_mean_amazon,prec_abr_he_2070_85_extract_amazon_sd_amazon,
tmax_abr_he_2050_45_extract_amazon_mean_amazon,tmax_abr_he_2050_45_extract_amazon_sd_amazon,
tmax_abr_he_2070_45_extract_amazon_mean_amazon,tmax_abr_he_2070_45_extract_amazon_sd_amazon,
tmin_abr_present_extract_amazon_mean_amazon,tmin_abr_present_extract_amazon_sd_amazon,tmin_abr_he_
2050_45_extract_amazon_mean_amazon,tmin_abr_he_2050_45_extract_amazon_sd_amazon,
tmin_abr_he_2070_45_extract_amazon_mean_amazon,tmin_abr_he_2070_45_extract_amazon_sd_amazon,
prec_abr_present_extract_amazon_mean_amazon,prec_abr_present_extract_amazon_sd_amazon,prec_abr_he_2
050_45_extract_amazon_mean_amazon,prec_abr_he_2050_45_extract_amazon_sd_amazon,
prec_abr_he_2070_45_extract_amazon_mean_amazon,prec_abr_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_abr, file="extractions_amazon_tmax_abr.txt", append=FALSE,
quote=TRUE, sep=";")

#mai

tmax_mai_present_extract_amazon_mean_amazon<-extract(tmax_mai_present,ucs[1], fun=mean,
na.rm=TRUE)
tmax_mai_present_extract_amazon_sd_amazon<-extract(tmax_mai_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_mai_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_mai_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_mai_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_mai_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_mai_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_mai_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_mai_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_mai_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_mai_present_extract_amazon_mean_amazon<-extract(tmin_mai_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_mai_present_extract_amazon_sd_amazon<-extract(tmin_mai_present,ucs[1], fun=sd, na.rm=TRUE)
```

```
tmin_mai_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_mai_he_2050_85,ucs[1], fun=mean, na.rm=TRUE)
tmin_mai_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_mai_he_2050_85,ucs[1], fun=sd, na.rm=TRUE)
tmin_mai_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_mai_he_2070_85,ucs[1], fun=mean, na.rm=TRUE)
tmin_mai_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_mai_he_2070_85,ucs[1], fun=sd, na.rm=TRUE)


prec_mai_present_extract_amazon_mean_amazon<-extract(prec_mai_present,ucs[1], fun=mean, na.rm=TRUE)
prec_mai_present_extract_amazon_sd_amazon<-extract(prec_mai_present,ucs[1], fun=sd, na.rm=TRUE)
prec_mai_he_2050_85_extract_amazon_mean_amazon<-extract(prec_mai_he_2050_85,ucs[1], fun=mean, na.rm=TRUE)
prec_mai_he_2050_85_extract_amazon_sd_amazon<-extract(prec_mai_he_2050_85,ucs[1], fun=sd, na.rm=TRUE)
prec_mai_he_2070_85_extract_amazon_mean_amazon<-extract(prec_mai_he_2070_85,ucs[1], fun=mean, na.rm=TRUE)
prec_mai_he_2070_85_extract_amazon_sd_amazon<-extract(prec_mai_he_2070_85,ucs[1], fun=sd, na.rm=TRUE)
#mai

tmax_mai_present_extract_amazon_mean_amazon<-extract(tmax_mai_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_mai_present_extract_amazon_sd_amazon<-extract(tmax_mai_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_mai_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_mai_he_2050_45,ucs[1], fun=mean, na.rm=TRUE)
tmax_mai_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_mai_he_2050_45,ucs[1], fun=sd, na.rm=TRUE)
tmax_mai_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_mai_he_2070_45,ucs[1], fun=mean, na.rm=TRUE)
tmax_mai_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_mai_he_2070_45,ucs[1], fun=sd, na.rm=TRUE)
tmin_mai_present_extract_amazon_mean_amazon<-extract(tmin_mai_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_mai_present_extract_amazon_sd_amazon<-extract(tmin_mai_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_mai_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_mai_he_2050_45,ucs[1], fun=mean, na.rm=TRUE)
tmin_mai_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_mai_he_2050_45,ucs[1], fun=sd, na.rm=TRUE)
tmin_mai_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_mai_he_2070_45,ucs[1], fun=mean, na.rm=TRUE)
tmin_mai_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_mai_he_2070_45,ucs[1], fun=sd, na.rm=TRUE)


prec_mai_present_extract_amazon_mean_amazon<-extract(prec_mai_present,ucs[1], fun=mean, na.rm=TRUE)
prec_mai_present_extract_amazon_sd_amazon<-extract(prec_mai_present,ucs[1], fun=sd, na.rm=TRUE)
prec_mai_he_2050_45_extract_amazon_mean_amazon<-extract(prec_mai_he_2050_45,ucs[1], fun=mean, na.rm=TRUE)
prec_mai_he_2050_45_extract_amazon_sd_amazon<-extract(prec_mai_he_2050_45,ucs[1], fun=sd, na.rm=TRUE)
prec_mai_he_2070_45_extract_amazon_mean_amazon<-extract(prec_mai_he_2070_45,ucs[1], fun=mean, na.rm=TRUE)
prec_mai_he_2070_45_extract_amazon_sd_amazon<-extract(prec_mai_he_2070_45,ucs[1], fun=sd, na.rm=TRUE)

extractions_amazon_tmax_mai<-
data.frame(tmax_mai_present_extract_amazon_mean_amazon,tmax_mai_present_extract_amazon_sd_amazon,tmax_mai_he_2050_85_extract_amazon_mean_amazon,tmax_mai_he_2050_85_extract_amazon_sd_amazon,tmax_mai_he_2070_85_extract_amazon_mean_amazon,tmax_mai_he_2070_85_extract_amazon_sd_amazon,
```

```
tmin_mai_present_extract_amazon_mean_amazon,tmin_mai_present_extract_amazon_sd_amazon,tmin_mai_he
_2050_85_extract_amazon_mean_amazon,tmin_mai_he_2050_85_extract_amazon_sd_amazon,
tmin_mai_he_2070_85_extract_amazon_mean_amazon,tmin_mai_he_2070_85_extract_amazon_sd_amazon,
prec_mai_present_extract_amazon_mean_amazon,prec_mai_present_extract_amazon_sd_amazon,prec_mai_he_
2050_85_extract_amazon_mean_amazon,prec_mai_he_2050_85_extract_amazon_sd_amazon,
prec_mai_he_2070_85_extract_amazon_mean_amazon,prec_mai_he_2070_85_extract_amazon_sd_amazon,
tmax_mai_he_2050_45_extract_amazon_mean_amazon,tmax_mai_he_2050_45_extract_amazon_sd_amazon,
tmax_mai_he_2070_45_extract_amazon_mean_amazon,tmax_mai_he_2070_45_extract_amazon_sd_amazon,
tmin_mai_present_extract_amazon_mean_amazon,tmin_mai_present_extract_amazon_sd_amazon,tmin_mai_he
_2050_45_extract_amazon_mean_amazon,tmin_mai_he_2050_45_extract_amazon_sd_amazon,
tmin_mai_he_2070_45_extract_amazon_mean_amazon,tmin_mai_he_2070_45_extract_amazon_sd_amazon,
prec_mai_present_extract_amazon_mean_amazon,prec_mai_present_extract_amazon_sd_amazon,prec_mai_he_
2050_45_extract_amazon_mean_amazon,prec_mai_he_2050_45_extract_amazon_sd_amazon,
prec_mai_he_2070_45_extract_amazon_mean_amazon,prec_mai_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_mai, file="extractions_amazon_tmax_mai.txt", append=FALSE,
quote=TRUE, sep=";")

#jun

tmax_jun_present_extract_amazon_mean_amazon<-extract(tmax_jun_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_jun_present_extract_amazon_sd_amazon<-extract(tmax_jun_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_jun_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_jun_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jun_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_jun_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_jun_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_jun_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jun_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_jun_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_jun_present_extract_amazon_mean_amazon<-extract(tmin_jun_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_jun_present_extract_amazon_sd_amazon<-extract(tmin_jun_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_jun_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_jun_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jun_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_jun_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_jun_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_jun_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jun_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_jun_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


prec_jun_present_extract_amazon_mean_amazon<-extract(prec_jun_present,ucs[1], fun=mean, na.rm=TRUE)
prec_jun_present_extract_amazon_sd_amazon<-extract(prec_jun_present,ucs[1], fun=sd, na.rm=TRUE)
prec_jun_he_2050_85_extract_amazon_mean_amazon<-extract(prec_jun_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_jun_he_2050_85_extract_amazon_sd_amazon<-extract(prec_jun_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_jun_he_2070_85_extract_amazon_mean_amazon<-extract(prec_jun_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_jun_he_2070_85_extract_amazon_sd_amazon<-extract(prec_jun_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#jun

tmax_jun_present_extract_amazon_mean_amazon<-extract(tmax_jun_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_jun_present_extract_amazon_sd_amazon<-extract(tmax_jun_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_jun_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_jun_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
```

```
tmax_jun_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_jun_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_jun_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_jun_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jun_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_jun_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_jun_present_extract_amazon_mean_amazon<-extract(tmin_jun_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_jun_present_extract_amazon_sd_amazon<-extract(tmin_jun_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_jun_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_jun_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jun_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_jun_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_jun_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_jun_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jun_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_jun_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_jun_present_extract_amazon_mean_amazon<-extract(prec_jun_present,ucs[1], fun=mean, na.rm=TRUE)
prec_jun_present_extract_amazon_sd_amazon<-extract(prec_jun_present,ucs[1], fun=sd, na.rm=TRUE)
prec_jun_he_2050_45_extract_amazon_mean_amazon<-extract(prec_jun_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_jun_he_2050_45_extract_amazon_sd_amazon<-extract(prec_jun_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_jun_he_2070_45_extract_amazon_mean_amazon<-extract(prec_jun_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_jun_he_2070_45_extract_amazon_sd_amazon<-extract(prec_jun_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_jun<-
data.frame(tmax_jun_present_extract_amazon_mean_amazon,tmax_jun_present_extract_amazon_sd_amazon,t
max_jun_he_2050_85_extract_amazon_mean_amazon,tmax_jun_he_2050_85_extract_amazon_sd_amazon,tma
x_jun_he_2070_85_extract_amazon_mean_amazon,tmax_jun_he_2070_85_extract_amazon_sd_amazon,
tmin_jun_present_extract_amazon_mean_amazon,tmin_jun_present_extract_amazon_sd_amazon,tmin_jun_he_
2050_85_extract_amazon_mean_amazon,tmin_jun_he_2050_85_extract_amazon_sd_amazon,
tmin_jun_he_2070_85_extract_amazon_mean_amazon,tmin_jun_he_2070_85_extract_amazon_sd_amazon,
prec_jun_present_extract_amazon_mean_amazon,prec_jun_present_extract_amazon_sd_amazon,prec_jun_he_2
050_85_extract_amazon_mean_amazon,prec_jun_he_2050_85_extract_amazon_sd_amazon,
prec_jun_he_2070_85_extract_amazon_mean_amazon,prec_jun_he_2070_85_extract_amazon_sd_amazon,
tmax_jun_he_2050_45_extract_amazon_mean_amazon,tmax_jun_he_2050_45_extract_amazon_sd_amazon,
tmax_jun_he_2070_45_extract_amazon_mean_amazon,tmax_jun_he_2070_45_extract_amazon_sd_amazon,
tmin_jun_present_extract_amazon_mean_amazon,tmin_jun_present_extract_amazon_sd_amazon,tmin_jun_he_
2050_45_extract_amazon_mean_amazon,tmin_jun_he_2050_45_extract_amazon_sd_amazon,
tmin_jun_he_2070_45_extract_amazon_mean_amazon,tmin_jun_he_2070_45_extract_amazon_sd_amazon,
prec_jun_present_extract_amazon_mean_amazon,prec_jun_present_extract_amazon_sd_amazon,prec_jun_he_2
050_45_extract_amazon_mean_amazon,prec_jun_he_2050_45_extract_amazon_sd_amazon,
prec_jun_he_2070_45_extract_amazon_mean_amazon,prec_jun_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_jun, file="extractions_amazon_tmax_jun.txt", append=FALSE,
quote=TRUE, sep=";")


#jul

tmax_jul_present_extract_amazon_mean_amazon<-extract(tmax_jul_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_jul_present_extract_amazon_sd_amazon<-extract(tmax_jul_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_jul_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_jul_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jul_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_jul_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
```

```
tmax_jul_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_jul_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jul_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_jul_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_jul_present_extract_amazon_mean_amazon<-extract(tmin_jul_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_jul_present_extract_amazon_sd_amazon<-extract(tmin_jul_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_jul_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_jul_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jul_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_jul_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_jul_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_jul_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jul_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_jul_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


prec_jul_present_extract_amazon_mean_amazon<-extract(prec_jul_present,ucs[1], fun=mean, na.rm=TRUE)
prec_jul_present_extract_amazon_sd_amazon<-extract(prec_jul_present,ucs[1], fun=sd, na.rm=TRUE)
prec_jul_he_2050_85_extract_amazon_mean_amazon<-extract(prec_jul_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_jul_he_2050_85_extract_amazon_sd_amazon<-extract(prec_jul_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_jul_he_2070_85_extract_amazon_mean_amazon<-extract(prec_jul_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_jul_he_2070_85_extract_amazon_sd_amazon<-extract(prec_jul_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#jul

tmax_jul_present_extract_amazon_mean_amazon<-extract(tmax_jul_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_jul_present_extract_amazon_sd_amazon<-extract(tmax_jul_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_jul_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_jul_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jul_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_jul_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_jul_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_jul_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_jul_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_jul_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_jul_present_extract_amazon_mean_amazon<-extract(tmin_jul_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_jul_present_extract_amazon_sd_amazon<-extract(tmin_jul_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_jul_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_jul_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jul_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_jul_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_jul_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_jul_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_jul_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_jul_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_jul_present_extract_amazon_mean_amazon<-extract(prec_jul_present,ucs[1], fun=mean, na.rm=TRUE)
prec_jul_present_extract_amazon_sd_amazon<-extract(prec_jul_present,ucs[1], fun=sd, na.rm=TRUE)
prec_jul_he_2050_45_extract_amazon_mean_amazon<-extract(prec_jul_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_jul_he_2050_45_extract_amazon_sd_amazon<-extract(prec_jul_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_jul_he_2070_45_extract_amazon_mean_amazon<-extract(prec_jul_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
```

```
prec_jul_he_2070_45_extract_amazon_sd_amazon<-extract(prec_jul_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_jul<-
data.frame(tmax_jul_present_extract_amazon_mean_amazon,tmax_jul_present_extract_amazon_sd_amazon,tm
ax_jul_he_2050_85_extract_amazon_mean_amazon,tmax_jul_he_2050_85_extract_amazon_sd_amazon,tmax_j
ul_he_2070_85_extract_amazon_mean_amazon,tmax_jul_he_2070_85_extract_amazon_sd_amazon,
tmin_jul_present_extract_amazon_mean_amazon,tmin_jul_present_extract_amazon_sd_amazon,tmin_jul_he_20
50_85_extract_amazon_mean_amazon,tmin_jul_he_2050_85_extract_amazon_sd_amazon,
tmin_jul_he_2070_85_extract_amazon_mean_amazon,tmin_jul_he_2070_85_extract_amazon_sd_amazon,
prec_jul_present_extract_amazon_mean_amazon,prec_jul_present_extract_amazon_sd_amazon,prec_jul_he_20
50_85_extract_amazon_mean_amazon,prec_jul_he_2050_85_extract_amazon_sd_amazon,
prec_jul_he_2070_85_extract_amazon_mean_amazon,prec_jul_he_2070_85_extract_amazon_sd_amazon,
tmax_jul_he_2050_45_extract_amazon_mean_amazon,tmax_jul_he_2050_45_extract_amazon_sd_amazon,
tmax_jul_he_2070_45_extract_amazon_mean_amazon,tmax_jul_he_2070_45_extract_amazon_sd_amazon,
tmin_jul_present_extract_amazon_mean_amazon,tmin_jul_present_extract_amazon_sd_amazon,tmin_jul_he_20
50_45_extract_amazon_mean_amazon,tmin_jul_he_2050_45_extract_amazon_sd_amazon,
tmin_jul_he_2070_45_extract_amazon_mean_amazon,tmin_jul_he_2070_45_extract_amazon_sd_amazon,
prec_jul_present_extract_amazon_mean_amazon,prec_jul_present_extract_amazon_sd_amazon,prec_jul_he_20
50_45_extract_amazon_mean_amazon,prec_jul_he_2050_45_extract_amazon_sd_amazon,
prec_jul_he_2070_45_extract_amazon_mean_amazon,prec_jul_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_jul, file="extractions_amazon_tmax_jul.txt", append=FALSE,
quote=TRUE, sep=";")


#ago

tmax_ago_present_extract_amazon_mean_amazon<-extract(tmax_ago_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_ago_present_extract_amazon_sd_amazon<-extract(tmax_ago_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_ago_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_ago_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_ago_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_ago_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_ago_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_ago_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_ago_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_ago_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_ago_present_extract_amazon_mean_amazon<-extract(tmin_ago_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_ago_present_extract_amazon_sd_amazon<-extract(tmin_ago_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_ago_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_ago_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_ago_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_ago_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_ago_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_ago_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_ago_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_ago_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


prec_ago_present_extract_amazon_mean_amazon<-extract(prec_ago_present,ucs[1], fun=mean, na.rm=TRUE)
prec_ago_present_extract_amazon_sd_amazon<-extract(prec_ago_present,ucs[1], fun=sd, na.rm=TRUE)
prec_ago_he_2050_85_extract_amazon_mean_amazon<-extract(prec_ago_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_ago_he_2050_85_extract_amazon_sd_amazon<-extract(prec_ago_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_ago_he_2070_85_extract_amazon_mean_amazon<-extract(prec_ago_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
```

```
prec_ago_he_2070_85_extract_amazon_sd_amazon<-extract(prec_ago_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#ago

tmax_ago_present_extract_amazon_mean_amazon<-extract(tmax_ago_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_ago_present_extract_amazon_sd_amazon<-extract(tmax_ago_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_ago_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_ago_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_ago_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_ago_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_ago_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_ago_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_ago_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_ago_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_ago_present_extract_amazon_mean_amazon<-extract(tmin_ago_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_ago_present_extract_amazon_sd_amazon<-extract(tmin_ago_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_ago_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_ago_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_ago_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_ago_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_ago_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_ago_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_ago_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_ago_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_ago_present_extract_amazon_mean_amazon<-extract(prec_ago_present,ucs[1], fun=mean, na.rm=TRUE)
prec_ago_present_extract_amazon_sd_amazon<-extract(prec_ago_present,ucs[1], fun=sd, na.rm=TRUE)
prec_ago_he_2050_45_extract_amazon_mean_amazon<-extract(prec_ago_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_ago_he_2050_45_extract_amazon_sd_amazon<-extract(prec_ago_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_ago_he_2070_45_extract_amazon_mean_amazon<-extract(prec_ago_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_ago_he_2070_45_extract_amazon_sd_amazon<-extract(prec_ago_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_ago<-
data.frame(tmax_ago_present_extract_amazon_mean_amazon,tmax_ago_present_extract_amazon_sd_amazon,t
max_ago_he_2050_85_extract_amazon_mean_amazon,tmax_ago_he_2050_85_extract_amazon_sd_amazon,tm
ax_ago_he_2070_85_extract_amazon_mean_amazon,tmax_ago_he_2070_85_extract_amazon_sd_amazon,
tmin_ago_present_extract_amazon_mean_amazon,tmin_ago_present_extract_amazon_sd_amazon,tmin_ago_he
_2050_85_extract_amazon_mean_amazon,tmin_ago_he_2050_85_extract_amazon_sd_amazon,
tmin_ago_he_2070_85_extract_amazon_mean_amazon,tmin_ago_he_2070_85_extract_amazon_sd_amazon,
prec_ago_present_extract_amazon_mean_amazon,prec_ago_present_extract_amazon_sd_amazon,prec_ago_he_
2050_85_extract_amazon_mean_amazon,prec_ago_he_2050_85_extract_amazon_sd_amazon,
prec_ago_he_2070_85_extract_amazon_mean_amazon,prec_ago_he_2070_85_extract_amazon_sd_amazon,
tmax_ago_he_2050_45_extract_amazon_mean_amazon,tmax_ago_he_2050_45_extract_amazon_sd_amazon,
tmax_ago_he_2070_45_extract_amazon_mean_amazon,tmax_ago_he_2070_45_extract_amazon_sd_amazon,
tmin_ago_present_extract_amazon_mean_amazon,tmin_ago_present_extract_amazon_sd_amazon,tmin_ago_he
_2050_45_extract_amazon_mean_amazon,tmin_ago_he_2050_45_extract_amazon_sd_amazon,
tmin_ago_he_2070_45_extract_amazon_mean_amazon,tmin_ago_he_2070_45_extract_amazon_sd_amazon,
prec_ago_present_extract_amazon_mean_amazon,prec_ago_present_extract_amazon_sd_amazon,prec_ago_he_
2050_45_extract_amazon_mean_amazon,prec_ago_he_2050_45_extract_amazon_sd_amazon,
prec_ago_he_2070_45_extract_amazon_mean_amazon,prec_ago_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_ago, file="extractions_amazon_tmax_ago.txt", append=FALSE,
quote=TRUE, sep=";")


#sep
```

```
tmax_sep_present_extract_amazon_mean_amazon<-extract(tmax_sep_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_sep_present_extract_amazon_sd_amazon<-extract(tmax_sep_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_sep_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_sep_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_sep_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_sep_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_sep_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_sep_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_sep_present_extract_amazon_mean_amazon<-extract(tmin_sep_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_sep_present_extract_amazon_sd_amazon<-extract(tmin_sep_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_sep_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_sep_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_sep_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_sep_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_sep_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_sep_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


prec_sep_present_extract_amazon_mean_amazon<-extract(prec_sep_present,ucs[1], fun=mean, na.rm=TRUE)
prec_sep_present_extract_amazon_sd_amazon<-extract(prec_sep_present,ucs[1], fun=sd, na.rm=TRUE)
prec_sep_he_2050_85_extract_amazon_mean_amazon<-extract(prec_sep_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_sep_he_2050_85_extract_amazon_sd_amazon<-extract(prec_sep_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_sep_he_2070_85_extract_amazon_mean_amazon<-extract(prec_sep_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_sep_he_2070_85_extract_amazon_sd_amazon<-extract(prec_sep_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#sep

tmax_sep_present_extract_amazon_mean_amazon<-extract(tmax_sep_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_sep_present_extract_amazon_sd_amazon<-extract(tmax_sep_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_sep_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_sep_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_sep_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_sep_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_sep_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_sep_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_sep_present_extract_amazon_mean_amazon<-extract(tmin_sep_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_sep_present_extract_amazon_sd_amazon<-extract(tmin_sep_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_sep_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_sep_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_sep_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_sep_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_sep_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_sep_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_sep_present_extract_amazon_mean_amazon<-extract(prec_sep_present,ucs[1], fun=mean, na.rm=TRUE)
```

```
prec_sep_present_extract_amazon_sd_amazon<-extract(prec_sep_present,ucs[1], fun=sd, na.rm=TRUE)
prec_sep_he_2050_45_extract_amazon_mean_amazon<-extract(prec_sep_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_sep_he_2050_45_extract_amazon_sd_amazon<-extract(prec_sep_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_sep_he_2070_45_extract_amazon_mean_amazon<-extract(prec_sep_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_sep_he_2070_45_extract_amazon_sd_amazon<-extract(prec_sep_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_sep<-
data.frame(tmax_sep_present_extract_amazon_mean_amazon,tmax_sep_present_extract_amazon_sd_amazon,t
max_sep_he_2050_85_extract_amazon_mean_amazon,tmax_sep_he_2050_85_extract_amazon_sd_amazon,tma
x_sep_he_2070_85_extract_amazon_mean_amazon,tmax_sep_he_2070_85_extract_amazon_sd_amazon,
tmin_sep_present_extract_amazon_mean_amazon,tmin_sep_present_extract_amazon_sd_amazon,tmin_sep_he_
2050_85_extract_amazon_mean_amazon,tmin_sep_he_2050_85_extract_amazon_sd_amazon,
tmin_sep_he_2070_85_extract_amazon_mean_amazon,tmin_sep_he_2070_85_extract_amazon_sd_amazon,
prec_sep_present_extract_amazon_mean_amazon,prec_sep_present_extract_amazon_sd_amazon,prec_sep_he_2
050_85_extract_amazon_mean_amazon,prec_sep_he_2050_85_extract_amazon_sd_amazon,
prec_sep_he_2070_85_extract_amazon_mean_amazon,prec_sep_he_2070_85_extract_amazon_sd_amazon,
tmax_sep_he_2050_45_extract_amazon_mean_amazon,tmax_sep_he_2050_45_extract_amazon_sd_amazon,
tmax_sep_he_2070_45_extract_amazon_mean_amazon,tmax_sep_he_2070_45_extract_amazon_sd_amazon,
tmin_sep_present_extract_amazon_mean_amazon,tmin_sep_present_extract_amazon_sd_amazon,tmin_sep_he_
2050_45_extract_amazon_mean_amazon,tmin_sep_he_2050_45_extract_amazon_sd_amazon,
tmin_sep_he_2070_45_extract_amazon_mean_amazon,tmin_sep_he_2070_45_extract_amazon_sd_amazon,
prec_sep_present_extract_amazon_mean_amazon,prec_sep_present_extract_amazon_sd_amazon,prec_sep_he_2
050_45_extract_amazon_mean_amazon,prec_sep_he_2050_45_extract_amazon_sd_amazon,
prec_sep_he_2070_45_extract_amazon_mean_amazon,prec_sep_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_sep, file="extractions_amazon_tmax_sep.txt", append=FALSE,
quote=TRUE, sep=";")


tmax_sep_present_extract_tis_mean_amazon<-extract(tmax_sep_present,tis[1], fun=mean, na.rm=TRUE)
tmax_sep_present_extract_tis_sd_amazon<-extract(tmax_sep_present,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_he_2050_45_extract_tis_mean_amazon<-extract(tmax_sep_he_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2050_45_extract_tis_sd_amazon<-extract(tmax_sep_he_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_he_2070_45_extract_tis_mean_amazon<-extract(tmax_sep_he_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_he_2070_45_extract_tis_sd_amazon<-extract(tmax_sep_he_2070_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_mr_2050_45_extract_tis_mean_amazon<-extract(tmax_sep_mr_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_mr_2050_45_extract_tis_sd_amazon<-extract(tmax_sep_mr_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_mr_2070_45_extract_tis_mean_amazon<-extract(tmax_sep_mr_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_mr_2070_45_extract_tis_sd_amazon<-extract(tmax_sep_mr_2070_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_mp_2050_45_extract_tis_mean_amazon<-extract(tmax_sep_mp_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_mp_2050_45_extract_tis_sd_amazon<-extract(tmax_sep_mp_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmax_sep_mp_2070_45_extract_tis_mean_amazon<-extract(tmax_sep_mp_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmax_sep_mp_2070_45_extract_tis_sd_amazon<-extract(tmax_sep_mp_2070_45,tis[1], fun=sd, na.rm=TRUE)


tmin_sep_present_extract_tis_mean_amazon<-extract(tmin_sep_present,tis[1], fun=mean, na.rm=TRUE)
tmin_sep_present_extract_tis_sd_amazon<-extract(tmin_sep_present,tis[1], fun=sd, na.rm=TRUE)
```

```
tmin_sep_he_2050_45_extract_tis_mean_amazon<-extract(tmin_sep_he_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2050_45_extract_tis_sd_amazon<-extract(tmin_sep_he_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_he_2070_45_extract_tis_mean_amazon<-extract(tmin_sep_he_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_he_2070_45_extract_tis_sd_amazon<-extract(tmin_sep_he_2070_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_mr_2050_45_extract_tis_mean_amazon<-extract(tmin_sep_mr_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_mr_2050_45_extract_tis_sd_amazon<-extract(tmin_sep_mr_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_mr_2070_45_extract_tis_mean_amazon<-extract(tmin_sep_mr_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_mr_2070_45_extract_tis_sd_amazon<-extract(tmin_sep_mr_2070_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_mp_2050_45_extract_tis_mean_amazon<-extract(tmin_sep_mp_2050_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_mp_2050_45_extract_tis_sd_amazon<-extract(tmin_sep_mp_2050_45,tis[1], fun=sd, na.rm=TRUE)
tmin_sep_mp_2070_45_extract_tis_mean_amazon<-extract(tmin_sep_mp_2070_45,tis[1], fun=mean,
na.rm=TRUE)
tmin_sep_mp_2070_45_extract_tis_sd_amazon<-extract(tmin_sep_mp_2070_45,tis[1], fun=sd, na.rm=TRUE)



#out

tmax_out_present_extract_amazon_mean_amazon<-extract(tmax_out_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_out_present_extract_amazon_sd_amazon<-extract(tmax_out_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_out_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_out_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_out_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_out_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_out_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_out_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_out_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_out_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_out_present_extract_amazon_mean_amazon<-extract(tmin_out_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_out_present_extract_amazon_sd_amazon<-extract(tmin_out_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_out_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_out_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_out_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_out_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_out_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_out_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_out_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_out_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


prec_out_present_extract_amazon_mean_amazon<-extract(prec_out_present,ucs[1], fun=mean, na.rm=TRUE)
prec_out_present_extract_amazon_sd_amazon<-extract(prec_out_present,ucs[1], fun=sd, na.rm=TRUE)
prec_out_he_2050_85_extract_amazon_mean_amazon<-extract(prec_out_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_out_he_2050_85_extract_amazon_sd_amazon<-extract(prec_out_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_out_he_2070_85_extract_amazon_mean_amazon<-extract(prec_out_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_out_he_2070_85_extract_amazon_sd_amazon<-extract(prec_out_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#out

tmax_out_present_extract_amazon_mean_amazon<-extract(tmax_out_present,ucs[1], fun=mean, na.rm=TRUE)
```

```
tmax_out_present_extract_amazon_sd_amazon<-extract(tmax_out_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_out_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_out_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_out_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_out_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_out_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_out_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_out_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_out_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_out_present_extract_amazon_mean_amazon<-extract(tmin_out_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_out_present_extract_amazon_sd_amazon<-extract(tmin_out_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_out_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_out_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_out_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_out_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_out_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_out_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_out_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_out_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_out_present_extract_amazon_mean_amazon<-extract(prec_out_present,ucs[1], fun=mean, na.rm=TRUE)
prec_out_present_extract_amazon_sd_amazon<-extract(prec_out_present,ucs[1], fun=sd, na.rm=TRUE)
prec_out_he_2050_45_extract_amazon_mean_amazon<-extract(prec_out_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_out_he_2050_45_extract_amazon_sd_amazon<-extract(prec_out_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_out_he_2070_45_extract_amazon_mean_amazon<-extract(prec_out_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_out_he_2070_45_extract_amazon_sd_amazon<-extract(prec_out_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_out<-
data.frame(tmax_out_present_extract_amazon_mean_amazon,tmax_out_present_extract_amazon_sd_amazon,t
max_out_he_2050_85_extract_amazon_mean_amazon,tmax_out_he_2050_85_extract_amazon_sd_amazon,tma
x_out_he_2070_85_extract_amazon_mean_amazon,tmax_out_he_2070_85_extract_amazon_sd_amazon,
tmin_out_present_extract_amazon_mean_amazon,tmin_out_present_extract_amazon_sd_amazon,tmin_out_he_
2050_85_extract_amazon_mean_amazon,tmin_out_he_2050_85_extract_amazon_sd_amazon,
tmin_out_he_2070_85_extract_amazon_mean_amazon,tmin_out_he_2070_85_extract_amazon_sd_amazon,
prec_out_present_extract_amazon_mean_amazon,prec_out_present_extract_amazon_sd_amazon,prec_out_he_2
050_85_extract_amazon_mean_amazon,prec_out_he_2050_85_extract_amazon_sd_amazon,
prec_out_he_2070_85_extract_amazon_mean_amazon,prec_out_he_2070_85_extract_amazon_sd_amazon,
tmax_out_he_2050_45_extract_amazon_mean_amazon,tmax_out_he_2050_45_extract_amazon_sd_amazon,
tmax_out_he_2070_45_extract_amazon_mean_amazon,tmax_out_he_2070_45_extract_amazon_sd_amazon,
tmin_out_present_extract_amazon_mean_amazon,tmin_out_present_extract_amazon_sd_amazon,tmin_out_he_
2050_45_extract_amazon_mean_amazon,tmin_out_he_2050_45_extract_amazon_sd_amazon,
tmin_out_he_2070_45_extract_amazon_mean_amazon,tmin_out_he_2070_45_extract_amazon_sd_amazon,
prec_out_present_extract_amazon_mean_amazon,prec_out_present_extract_amazon_sd_amazon,prec_out_he_2
050_45_extract_amazon_mean_amazon,prec_out_he_2050_45_extract_amazon_sd_amazon,
prec_out_he_2070_45_extract_amazon_mean_amazon,prec_out_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_out, file="extractions_amazon_tmax_out.txt", append=FALSE,
quote=TRUE, sep=";")

#nov

tmax_nov_present_extract_amazon_mean_amazon<-extract(tmax_nov_present,ucs[1], fun=mean,
na.rm=TRUE)
tmax_nov_present_extract_amazon_sd_amazon<-extract(tmax_nov_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_nov_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_nov_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
```

```
tmax_nov_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_nov_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_nov_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_nov_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_nov_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_nov_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_nov_present_extract_amazon_mean_amazon<-extract(tmin_nov_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_nov_present_extract_amazon_sd_amazon<-extract(tmin_nov_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_nov_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_nov_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_nov_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_nov_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_nov_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_nov_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_nov_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_nov_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


prec_nov_present_extract_amazon_mean_amazon<-extract(prec_nov_present,ucs[1], fun=mean, na.rm=TRUE)
prec_nov_present_extract_amazon_sd_amazon<-extract(prec_nov_present,ucs[1], fun=sd, na.rm=TRUE)
prec_nov_he_2050_85_extract_amazon_mean_amazon<-extract(prec_nov_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_nov_he_2050_85_extract_amazon_sd_amazon<-extract(prec_nov_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_nov_he_2070_85_extract_amazon_mean_amazon<-extract(prec_nov_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_nov_he_2070_85_extract_amazon_sd_amazon<-extract(prec_nov_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#nov

tmax_nov_present_extract_amazon_mean_amazon<-extract(tmax_nov_present,ucs[1], fun=mean,
na.rm=TRUE)
tmax_nov_present_extract_amazon_sd_amazon<-extract(tmax_nov_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_nov_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_nov_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_nov_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_nov_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_nov_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_nov_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_nov_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_nov_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_nov_present_extract_amazon_mean_amazon<-extract(tmin_nov_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_nov_present_extract_amazon_sd_amazon<-extract(tmin_nov_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_nov_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_nov_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_nov_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_nov_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_nov_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_nov_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_nov_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_nov_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_nov_present_extract_amazon_mean_amazon<-extract(prec_nov_present,ucs[1], fun=mean, na.rm=TRUE)
prec_nov_present_extract_amazon_sd_amazon<-extract(prec_nov_present,ucs[1], fun=sd, na.rm=TRUE)
prec_nov_he_2050_45_extract_amazon_mean_amazon<-extract(prec_nov_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
```

```
prec_nov_he_2050_45_extract_amazon_sd_amazon<-extract(prec_nov_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_nov_he_2070_45_extract_amazon_mean_amazon<-extract(prec_nov_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_nov_he_2070_45_extract_amazon_sd_amazon<-extract(prec_nov_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_nov<-
data.frame(tmax_nov_present_extract_amazon_mean_amazon,tmax_nov_present_extract_amazon_sd_amazon,t
max_nov_he_2050_85_extract_amazon_mean_amazon,tmax_nov_he_2050_85_extract_amazon_sd_amazon,tm
ax_nov_he_2070_85_extract_amazon_mean_amazon,tmax_nov_he_2070_85_extract_amazon_sd_amazon,
tmin_nov_present_extract_amazon_mean_amazon,tmin_nov_present_extract_amazon_sd_amazon,tmin_nov_he
_2050_85_extract_amazon_mean_amazon,tmin_nov_he_2050_85_extract_amazon_sd_amazon,
tmin_nov_he_2070_85_extract_amazon_mean_amazon,tmin_nov_he_2070_85_extract_amazon_sd_amazon,
prec_nov_present_extract_amazon_mean_amazon,prec_nov_present_extract_amazon_sd_amazon,prec_nov_he_
2050_85_extract_amazon_mean_amazon,prec_nov_he_2050_85_extract_amazon_sd_amazon,
prec_nov_he_2070_85_extract_amazon_mean_amazon,prec_nov_he_2070_85_extract_amazon_sd_amazon,
tmax_nov_he_2050_45_extract_amazon_mean_amazon,tmax_nov_he_2050_45_extract_amazon_sd_amazon,
tmax_nov_he_2070_45_extract_amazon_mean_amazon,tmax_nov_he_2070_45_extract_amazon_sd_amazon,
tmin_nov_present_extract_amazon_mean_amazon,tmin_nov_present_extract_amazon_sd_amazon,tmin_nov_he
_2050_45_extract_amazon_mean_amazon,tmin_nov_he_2050_45_extract_amazon_sd_amazon,
tmin_nov_he_2070_45_extract_amazon_mean_amazon,tmin_nov_he_2070_45_extract_amazon_sd_amazon,
prec_nov_present_extract_amazon_mean_amazon,prec_nov_present_extract_amazon_sd_amazon,prec_nov_he_
2050_45_extract_amazon_mean_amazon,prec_nov_he_2050_45_extract_amazon_sd_amazon,
prec_nov_he_2070_45_extract_amazon_mean_amazon,prec_nov_he_2070_45_extract_amazon_sd_amazon)
 write.table(extractions_amazon_tmax_nov, file="extractions_amazon_tmax_nov.txt", append=FALSE,
quote=TRUE, sep=";")


#dez

tmax_dez_present_extract_amazon_mean_amazon<-extract(tmax_dez_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_dez_present_extract_amazon_sd_amazon<-extract(tmax_dez_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_dez_he_2050_85_extract_amazon_mean_amazon<-extract(tmax_dez_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_dez_he_2050_85_extract_amazon_sd_amazon<-extract(tmax_dez_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmax_dez_he_2070_85_extract_amazon_mean_amazon<-extract(tmax_dez_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmax_dez_he_2070_85_extract_amazon_sd_amazon<-extract(tmax_dez_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


tmin_dez_present_extract_amazon_mean_amazon<-extract(tmin_dez_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_dez_present_extract_amazon_sd_amazon<-extract(tmin_dez_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_dez_he_2050_85_extract_amazon_mean_amazon<-extract(tmin_dez_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_dez_he_2050_85_extract_amazon_sd_amazon<-extract(tmin_dez_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
tmin_dez_he_2070_85_extract_amazon_mean_amazon<-extract(tmin_dez_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
tmin_dez_he_2070_85_extract_amazon_sd_amazon<-extract(tmin_dez_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)


prec_dez_present_extract_amazon_mean_amazon<-extract(prec_dez_present,ucs[1], fun=mean, na.rm=TRUE)
prec_dez_present_extract_amazon_sd_amazon<-extract(prec_dez_present,ucs[1], fun=sd, na.rm=TRUE)
prec_dez_he_2050_85_extract_amazon_mean_amazon<-extract(prec_dez_he_2050_85,ucs[1], fun=mean,
na.rm=TRUE)
```

```
prec_dez_he_2050_85_extract_amazon_sd_amazon<-extract(prec_dez_he_2050_85,ucs[1], fun=sd,
na.rm=TRUE)
prec_dez_he_2070_85_extract_amazon_mean_amazon<-extract(prec_dez_he_2070_85,ucs[1], fun=mean,
na.rm=TRUE)
prec_dez_he_2070_85_extract_amazon_sd_amazon<-extract(prec_dez_he_2070_85,ucs[1], fun=sd,
na.rm=TRUE)
#dez

tmax_dez_present_extract_amazon_mean_amazon<-extract(tmax_dez_present,ucs[1], fun=mean, na.rm=TRUE)
tmax_dez_present_extract_amazon_sd_amazon<-extract(tmax_dez_present,ucs[1], fun=sd, na.rm=TRUE)
tmax_dez_he_2050_45_extract_amazon_mean_amazon<-extract(tmax_dez_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_dez_he_2050_45_extract_amazon_sd_amazon<-extract(tmax_dez_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmax_dez_he_2070_45_extract_amazon_mean_amazon<-extract(tmax_dez_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmax_dez_he_2070_45_extract_amazon_sd_amazon<-extract(tmax_dez_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_dez_present_extract_amazon_mean_amazon<-extract(tmin_dez_present,ucs[1], fun=mean, na.rm=TRUE)
tmin_dez_present_extract_amazon_sd_amazon<-extract(tmin_dez_present,ucs[1], fun=sd, na.rm=TRUE)
tmin_dez_he_2050_45_extract_amazon_mean_amazon<-extract(tmin_dez_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_dez_he_2050_45_extract_amazon_sd_amazon<-extract(tmin_dez_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
tmin_dez_he_2070_45_extract_amazon_mean_amazon<-extract(tmin_dez_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
tmin_dez_he_2070_45_extract_amazon_sd_amazon<-extract(tmin_dez_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)


prec_dez_present_extract_amazon_mean_amazon<-extract(prec_dez_present,ucs[1], fun=mean, na.rm=TRUE)
prec_dez_present_extract_amazon_sd_amazon<-extract(prec_dez_present,ucs[1], fun=sd, na.rm=TRUE)
prec_dez_he_2050_45_extract_amazon_mean_amazon<-extract(prec_dez_he_2050_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_dez_he_2050_45_extract_amazon_sd_amazon<-extract(prec_dez_he_2050_45,ucs[1], fun=sd,
na.rm=TRUE)
prec_dez_he_2070_45_extract_amazon_mean_amazon<-extract(prec_dez_he_2070_45,ucs[1], fun=mean,
na.rm=TRUE)
prec_dez_he_2070_45_extract_amazon_sd_amazon<-extract(prec_dez_he_2070_45,ucs[1], fun=sd,
na.rm=TRUE)

extractions_amazon_tmax_dez<-
data.frame(tmax_dez_present_extract_amazon_mean_amazon,tmax_dez_present_extract_amazon_sd_amazon,t
max_dez_he_2050_85_extract_amazon_mean_amazon,tmax_dez_he_2050_85_extract_amazon_sd_amazon,tma
x_dez_he_2070_85_extract_amazon_mean_amazon,tmax_dez_he_2070_85_extract_amazon_sd_amazon,
tmin_dez_present_extract_amazon_mean_amazon,tmin_dez_present_extract_amazon_sd_amazon,tmin_dez_he_
2050_85_extract_amazon_mean_amazon,tmin_dez_he_2050_85_extract_amazon_sd_amazon,
tmin_dez_he_2070_85_extract_amazon_mean_amazon,tmin_dez_he_2070_85_extract_amazon_sd_amazon,
prec_dez_present_extract_amazon_mean_amazon,prec_dez_present_extract_amazon_sd_amazon,prec_dez_he_
2050_85_extract_amazon_mean_amazon,prec_dez_he_2050_85_extract_amazon_sd_amazon,
prec_dez_he_2070_85_extract_amazon_mean_amazon,prec_dez_he_2070_85_extract_amazon_sd_amazon,
tmax_dez_he_2050_45_extract_amazon_mean_amazon,tmax_dez_he_2050_45_extract_amazon_sd_amazon,
tmax_dez_he_2070_45_extract_amazon_mean_amazon,tmax_dez_he_2070_45_extract_amazon_sd_amazon,
tmin_dez_present_extract_amazon_mean_amazon,tmin_dez_present_extract_amazon_sd_amazon,tmin_dez_he_
2050_45_extract_amazon_mean_amazon,tmin_dez_he_2050_45_extract_amazon_sd_amazon,
tmin_dez_he_2070_45_extract_amazon_mean_amazon,tmin_dez_he_2070_45_extract_amazon_sd_amazon,
prec_dez_present_extract_amazon_mean_amazon,prec_dez_present_extract_amazon_sd_amazon,prec_dez_he_
2050_45_extract_amazon_mean_amazon,prec_dez_he_2050_45_extract_amazon_sd_amazon,
prec_dez_he_2070_45_extract_amazon_mean_amazon,prec_dez_he_2070_45_extract_amazon_sd_amazon)
```

```
 write.table(extractions_amazon_tmax_dez, file="extractions_amazon_tmax_dez.txt", append=FALSE,
quote=TRUE, sep=";")

#compare the results
gcm_results<-read.csv("gcm_results.csv", header=T)
 attach(gcm_results)

 # comparison between gcms

 # PR
 #jan
aov_prjan<-aov(pr_jan~model)
summary(aov_prjan)

tukey_prjan<-TukeyHSD(aov(pr_jan~model))
tukey_prjan

#feb

aov_prfeb<-aov(pr_feb~model)
summary(aov_prfeb)
tukey_prfeb<-TukeyHSD(aov(pr_feb~model))
tukey_prfeb
#mar
aov_prmar<-aov(pr_mar~model)
summary(aov_prmar)
tukey_prmar<-TukeyHSD(aov(pr_mar~model))
tukey_prmar
#apr
aov_prapr<-aov(pr_apr~model)
summary(aov_prapr)
tukey_prapr<-TukeyHSD(aov(pr_apr~model))
tukey_prapr
#may
aov_prmay<-aov(pr_may~model)
summary(aov_prmay)
tukey_prmay<-TukeyHSD(aov(pr_may~model))
tukey_prmay


#jun
aov_prjun<-aov(pr_jun~model)
summary(aov_prjun)
tukey_prjun<-TukeyHSD(aov(pr_jun~model))
tukey_prjun
#jul
aov_prjul<-aov(pr_jul~model)
summary(aov_prjul)
tukey_prjul<-TukeyHSD(aov(pr_jul~model))
tukey_prjul
#aug
aov_praug<-aov(pr_aug~model)
summary(aov_praug)
tukey_praug<-TukeyHSD(aov(pr_aug~model))
tukey_praug
#sep
aov_prsep<-aov(pr_sep~model)
summary(aov_prsep)
tukey_prsep<-TukeyHSD(aov(pr_sep~model))
tukey_prsep
```

```
#oct
aov_proct<-aov(pr_oct~model)
summary(aov_proct)
tukey_proct<-TukeyHSD(aov(pr_oct~model))
tukey_proct
#nov
aov_prnov<-aov(pr_nov~model)
summary(aov_prnov)
tukey_prnov<-TukeyHSD(aov(pr_nov~model))
tukey_prnov
#dec
aov_prdec<-aov(pr_dec~model)
summary(aov_prdec)
tukey_prdec<-TukeyHSD(aov(pr_dec~model))
tukey_prdec


# TN
 #jan
aov_tnjan<-aov(tn_jan~model)
summary(aov_tnjan)

tukey_tnjan<-TukeyHSD(aov(tn_jan~model))
tukey_tnjan

#feb

aov_tnfeb<-aov(tn_feb~model)
summary(aov_tnfeb)
tukey_tnfeb<-TukeyHSD(aov(tn_feb~model))
tukey_tnfeb
#mar
aov_tnmar<-aov(tn_mar~model)
summary(aov_tnmar)
tukey_tnmar<-TukeyHSD(aov(tn_mar~model))
tukey_tnmar
#apr
aov_tnapr<-aov(tn_apr~model)
summary(aov_tnapr)
tukey_tnapr<-TukeyHSD(aov(tn_apr~model))
tukey_tnapr
#may
aov_tnmay<-aov(tn_may~model)
summary(aov_tnmay)
tukey_tnmay<-TukeyHSD(aov(tn_may~model))
tukey_tnmay


#jun
aov_tnjun<-aov(tn_jun~model)
summary(aov_tnjun)
tukey_tnjun<-TukeyHSD(aov(tn_jun~model))
tukey_tnjun
#jul
aov_tnjul<-aov(tn_jul~model)
summary(aov_tnjul)
tukey_tnjul<-TukeyHSD(aov(tn_jul~model))
tukey_tnjul
#aug
aov_tnaug<-aov(tn_aug~model)
```

```
summary(aov_tnaug)
tukey_tnaug<-TukeyHSD(aov(tn_aug~model))
tukey_tnaug
#sep
aov_tnsep<-aov(tn_sep~model)
summary(aov_tnsep)
tukey_tnsep<-TukeyHSD(aov(tn_sep~model))
tukey_tnsep
#oct
aov_tnoct<-aov(tn_oct~model)
summary(aov_tnoct)
tukey_tnoct<-TukeyHSD(aov(tn_oct~model))
tukey_tnoct
#nov
aov_tnnov<-aov(tn_nov~model)
summary(aov_tnnov)
tukey_tnnov<-TukeyHSD(aov(tn_nov~model))
tukey_tnnov
#dec
aov_tndec<-aov(tn_dec~model)
summary(aov_tndec)
tukey_tndec<-TukeyHSD(aov(tn_dec~model))
tukey_tndec

# PR
 #jan
aov_prjan<-aov(pr_jan~model)
summary(aov_prjan)

tukey_prjan<-TukeyHSD(aov(pr_jan~model))
tukey_prjan

#feb

aov_prfeb<-aov(pr_feb~model)
summary(aov_prfeb)
tukey_prfeb<-TukeyHSD(aov(pr_feb~model))
tukey_prfeb
#mar
aov_prmar<-aov(pr_mar~model)
summary(aov_prmar)
tukey_prmar<-TukeyHSD(aov(pr_mar~model))
tukey_prmar
#apr
aov_prapr<-aov(pr_apr~model)
summary(aov_prapr)
tukey_prapr<-TukeyHSD(aov(pr_apr~model))
tukey_prapr
#may
aov_prmay<-aov(pr_may~model)
summary(aov_prmay)
tukey_prmay<-TukeyHSD(aov(pr_may~model))
tukey_prmay

#jun
aov_prjun<-aov(pr_jun~model)
summary(aov_prjun)
tukey_prjun<-TukeyHSD(aov(pr_jun~model))
tukey_prjun
#jul
```

```
aov_prjul<-aov(pr_jul~model)
summary(aov_prjul)
tukey_prjul<-TukeyHSD(aov(pr_jul~model))
tukey_prjul
#aug
aov_praug<-aov(pr_aug~model)
summary(aov_praug)
tukey_praug<-TukeyHSD(aov(pr_aug~model))
tukey_praug
#sep
aov_prsep<-aov(pr_sep~model)
summary(aov_prsep)
tukey_prsep<-TukeyHSD(aov(pr_sep~model))
tukey_prsep
#oct
aov_proct<-aov(pr_oct~model)
summary(aov_proct)
tukey_proct<-TukeyHSD(aov(pr_oct~model))
tukey_proct
#nov
aov_prnov<-aov(pr_nov~model)
summary(aov_prnov)
tukey_prnov<-TukeyHSD(aov(pr_nov~model))
tukey_prnov
#dec
aov_prdec<-aov(pr_dec~model)
summary(aov_prdec)
tukey_prdec<-TukeyHSD(aov(pr_dec~model))
tukey_prdec

		# Bioclim
		#Bio1
aov_bio1<-aov(Bio1_mean~model)
summary(aov_bio1)
tukey_bio1<-TukeyHSD(aov(Bio1_mean~model))
tukey_bio1
		#Bio2
aov_bio2<-aov(Bio2_mean~model)
summary(aov_bio2)
tukey_bio2<-TukeyHSD(aov(Bio2_mean~model))
tukey_bio2
		#Bio3
aov_bio3<-aov(Bio3_mean~model)
summary(aov_bio3)
tukey_bio3<-TukeyHSD(aov(Bio3_mean~model))
tukey_bio3
		#Bio4
aov_bio4<-aov(Bio4_mean~model)
summary(aov_bio4)
tukey_bio4<-TukeyHSD(aov(Bio4_mean~model))
tukey_bio4
		#Bio5
aov_bio5<-aov(Bio5_mean~model)
summary(aov_bio5)
tukey_bio5<-TukeyHSD(aov(Bio5_mean~model))
tukey_bio5
		#Bio6
aov_bio6<-aov(Bio6_mean~model)
summary(aov_bio6)
tukey_bio6<-TukeyHSD(aov(Bio6_mean~model))
```

```
tukey_bio6
        #Bio7
aov_bio7<-aov(Bio7_mean~model)
summary(aov_bio7)
tukey_bio7<-TukeyHSD(aov(Bio7_mean~model))
tukey_bio7
        #Bio8
aov_bio8<-aov(Bio8_mean~model)
summary(aov_bio8)
tukey_bio8<-TukeyHSD(aov(Bio8_mean~model))
tukey_bio8
        #Bio9
aov_bio9<-aov(Bio9_mean~model)
summary(aov_bio9)
tukey_bio9<-TukeyHSD(aov(Bio9_mean~model))
tukey_bio9
        #Bio10
aov_bio10<-aov(Bio10_mean~model)
summary(aov_bio10)
tukey_bio10<-TukeyHSD(aov(Bio10_mean~model))
tukey_bio10
        #Bio11
aov_bio11<-aov(Bio11_mean~model)
summary(aov_bio11)
tukey_bio11<-TukeyHSD(aov(Bio11_mean~model))
tukey_bio11
        #Bio12
aov_bio12<-aov(Bio12_mean~model)
summary(aov_bio12)
tukey_bio12<-TukeyHSD(aov(Bio12_mean~model))
tukey_bio12
        #Bio13
aov_bio13<-aov(Bio13_mean~model)
summary(aov_bio13)
tukey_bio13<-TukeyHSD(aov(Bio13_mean~model))
tukey_bio13
        #Bio14
aov_bio14<-aov(Bio14_mean~model)
summary(aov_bio14)
tukey_bio14<-TukeyHSD(aov(Bio14_mean~model))
tukey_bio14
        #Bio15
aov_bio15<-aov(Bio15_mean~model)
summary(aov_bio15)
tukey_bio15<-TukeyHSD(aov(Bio15_mean~model))
tukey_bio15
        #Bio16
aov_bio16<-aov(Bio16_mean~model)
summary(aov_bio16)
tukey_bio16<-TukeyHSD(aov(Bio16_mean~model))
tukey_bio16
        #Bio17
aov_bio17<-aov(Bio17_mean~model)
summary(aov_bio17)
tukey_bio17<-TukeyHSD(aov(Bio17_mean~model))
tukey_bio17
        #Bio18
aov_bio18<-aov(Bio18_mean~model)
summary(aov_bio18)
tukey_bio18<-TukeyHSD(aov(Bio18_mean~model))
```

```
tukey_bio18
	#Bio19
aov_bio19<-aov(Bio19_mean~model)
summary(aov_bio19)
tukey_bio19<-TukeyHSD(aov(Bio19_mean~model))
tukey_bio19

	# plots

	#coord<-c(-78, -48, -14, 8)
	coord<-c(-80, -40, -20, 10)
	crs(ucs)<-crs(bio1_present)


		# bio1
		bio1_present_crop<-crop(bio1_present, coord)

		tiff('bio1_present.tif')
			plot(bio1_present_crop, col=rev(rainbow(37)), breaks=c(-2,-
1,0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35))
		dev.off()
		bi_1_he_2070_45_crop<-crop(bi_1_he_2070_45, coord)
		tiff('bi_1_he_2070_45.tif')
			plot(bi_1_he_2070_45_crop/10, col=rev(rainbow(37)), breaks=c(-2,-
1,0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35))
		dev.off()
		bi_1_he_2070_85_crop<-crop(bi_1_he_2070_85/10, coord)
		tiff('bi_1_he_2070_85_difference.tif')
			plot((bi_1_he_2070_85_crop)-(bio1_present_crop), col=rev(rainbow(11)), breaks=c(-
1,0,1,2,3,4,5,6,7,8,9))
		dev.off()
	# bio12
	library(RColorBrewer)
	dat <- data.frame(x = rnorm(0, 8000, .2))
		bio12_present_crop<-crop(bio12_present, coord)
		tiff('bio12_present.tif')
			plot(bio12_present_crop, col=brewer.pal(n = 11, name = "RdBu"),
breaks=c(0,500,1000,2000,3000,4000,5000,6000,7000,8000,9000,10000))
		dev.off()
		bi_12_he_2070_45_crop<-crop(bi_12_he_2070_45, coord)
		tiff('bi_12_he_2070_45.tif')
			plot((bi_12_he_2070_45_crop)-(bio12_present_crop), col=brewer.pal(n = 8, name =
"RdBu"), breaks=c(-1000,-500,0,500,1000,2000,3000,4000))
		dev.off()
		bi_12_he_2070_85_crop<-crop(bi_12_he_2070_85, coord)
		tiff('bi_12_he_2070_85.tif')
			plot((bi_12_he_2070_85_crop)-(bio12_present_crop), col=brewer.pal(n = 10, name =
"RdBu"), breaks=c(-2000,-1000,-500,0,500,1000,2000,3000,4000,5000))
		dev.off()


# Sensibilidade
## Sensibilidade ##

setwd("C:/Users/Luisa Viegas Becerra/Desktop/#amazon/sensibilidade")
library(raster)
library(rgdal)
library (gtools)

sensitivity1<-'Figure1.tif'
```

```
sensitivity<-readGDAL("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/Cap 2 Exposure
Noronha/SEDDON2016/Fig1/Figure1.tif")
sensitivity<-raster(sensitivity)

library(RColorBrewer)
        coord<-c(-80, -40, -20, 10)
                sensitivity_crop<-crop(sensitivity, coord)
                tiff('sensitivity.tif')
plot(sensitivity_crop, col=rev(brewer.pal(n = 11, name = "RdYlGn")))
                dev.off()
amazon_biome <- readOGR("C:/Users/Luisa Viegas Becerra/Desktop/shapes/Amazon Biome
WWF/Amazon_Biome.shp", "Amazon_Biome")
amazon_ucs <- readOGR("C:/Users/Luisa Viegas Becerra/Desktop/shapes/Protection Areas Panamazonia
WWF/PAs_Panamazonia_NoTopo.shp", "PAs_Panamazonia_NoTopo")

write.table(amazon_biome@data,"amazon_biome.txt",quote=TRUE,row.names=F,sep=";")
write.table(amazon_ucs@data,"amazon_ucs.txt",quote=TRUE,row.names=F,sep=";")
#### testar o extract após o extend

crs <- crs("+proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0")
sensitivity<-spTransform(sensitivity,crs)
amazon_biome<-spTransform(amazon_biome,crs)
amazon_ucs<-spTransform(amazon_ucs,crs)
        ##UC amazonia
      extract_sensitivity_uc<-extract(sensitivity,amazon_ucs[1], fun=median, na.rm=TRUE)
      extract_sensitivity_uc1<-extract(sensitivity,amazon_ucs[1], fun=max, na.rm=TRUE)
      extract_sensitivity_uc2<-extract(sensitivity,amazon_ucs[1], fun=mean, na.rm=TRUE)
      extract_sensitivity_uc3<-extract(sensitivity,amazon_ucs[1], fun=min, na.rm=TRUE)
      write.table(extract_sensitivity_uc, file="extract_sensitivity_uc_median.txt", append=FALSE,
quote=TRUE, sep=";")
      write.table(extract_sensitivity_uc1, file="extract_sensitivity_uc_max.txt", append=FALSE, quote=TRUE,
sep=";")
      write.table(extract_sensitivity_uc2, file="extract_sensitivity_uc_mean.txt", append=FALSE,
quote=TRUE, sep=";")
      write.table(extract_sensitivity_uc3, file="extract_sensitivity_uc_min.txt", append=FALSE, quote=TRUE,
sep=";")

      ##Bioma
      extract_sensitivity_biome<-extract(sensitivity,amazon_biome[1], fun=median, na.rm=TRUE)
      extract_sensitivity_biome1<-extract(sensitivity,amazon_biome[1], fun=max, na.rm=TRUE)
      extract_sensitivity_biome2<-extract(sensitivity,amazon_biome[1], fun=mean, na.rm=TRUE)
      extract_sensitivity_biome3<-extract(sensitivity,amazon_biome[1], fun=min, na.rm=TRUE)
      write.table(extract_sensitivity_biome, file="extract_sensitivity_biome_median.txt", append=FALSE,
quote=TRUE, sep=";")
      write.table(extract_sensitivity_biome1, file="extract_sensitivity_biome_max.txt", append=FALSE,
quote=TRUE, sep=";")
      write.table(extract_sensitivity_biome2, file="extract_sensitivity_biome_mean.txt", append=FALSE,
quote=TRUE, sep=";")
      write.table(extract_sensitivity_biome3, file="extract_sensitivity_uc_biome.txt", append=FALSE,
quote=TRUE, sep=";")
```

## Seção 5

```
# Community analysis
# metacomunidade

library(metacom)
com_amazon<-read.csv("D:/Analysis_Mapinguari/Metacom/community_data1.csv", header=T)

# Plotting of site-by-species interaction matrices
# 'Imagine' produces an image plot, grid of small rectangles representing species occurrences in sites, of a given
interaction matrix.

imagine_amazonlizards<-Imagine(com_amazon, col = c(0, 1), order = TRUE, scores = 1, fill = TRUE,
                               xlab = "Species", ylab = "Site", yline = 2, xline = 2,
                               sitenames = rownames(com_amazon), speciesnames =
colnames(com_amazon),
                               binary = TRUE)


#Null community matrices are produced with the NullMaker() function,
# which combines methods of community simulation from functions commsimulator()
#and permatfull() in the R package vegan (Oksanen et al. 2012) with an additional
#argument that either allows row (site) or column (species) totals to contain no occurrences.
# Biologically, this is an important consideration, as the null expectation of a site containing
#no species or a species occurring in none of observed sites may be unrealistic,
#depending on the endemism of species and the suitability of sites to occupancy

NullMaker(com_amazon, sims = 1000, method = "r1", ordinate = FALSE,
scores = 1, allowEmpty = FALSE, verbose = FALSE, seed = 1)

#### betapart = to examine the patterns of turnover.

library(betapart)
com_amazon<-read.csv("D:/Analysis_Mapinguari/Metacom/community_data1.csv", header=T)

betapart_amazonlizards<-betapart.core(com_amazon)
summary(betapart_amazonlizards)

# Core calculations of betapart for abundance-based dissimilarity measures
betapart_coreabund_amazonlizards<-betapart.core.abund(com_amazon)
summary(betapart_coreabund_amazonlizards)

beta.multi(betapart_amazonlizards, index.family="sorensen")
```

**# Modelagem de distribuição: Baseado em Sinervo et al. 2018**

```
AmazonLizards <- read.csv("D:/Analysis_Mapinguari/LMDV_SDM/analyses_izpaperscript/dist_all.csv",
header=T)
library(raster)
e <- extent(c(-80,-40,-20,14))

#step 0
# function 1 - DOES a surface layer of the soilprofile microclim scenario
AmazonLizardsExtractMatrix.R <- function(pathToSoilRaster){
resolution <- 0.1666667 # ~18x18 km cells require(raster)
# global surface will be read into workspace; values extracted at Lat,Lon of:
# requires AmazonLizards <- read.csv("AmazonLizards.csv") file
AmazonLizardsMatrixSurf <- array(0,dim=c(length(AmazonLizards$Lat),24))
for(h in 1:24){
for(n in 1: length(AmazonLizards$Lat)) { #[Lat,Lon] => [r,c]
```

```
r <- as.integer((e[4] - AmazonLizards$Lat[n])/resolution)
c <- as.integer((AmazonLizards$Lon[n] - e[1])/resolution + 1)
soil_0_surf <- raster(pathToSoilRaster,band=h)
soil_0_surf <- crop(soil_0_surf,e)
soil_0_surf <- as.matrix(soil_0_surf)
AmazonLizardsMatrixSurf[n,h]<-soil_0_surf[r,c] }
cat('\n')
}
return(AmazonLizardsMatrixSurf) # return a matrix of dim(N_occurrence,24h)
}

# function 2 - DOES a microclim scenario that is a simple surface air 1cm
AmazonLizardsExtract_microclimByMonth.R <- function(pathToSoilRaster,month){
resolution <- 0.1666667
require(raster)
AmazonLizardsMatrixSurf <- array(0,dim=c(length(AmazonLizards$Lat),24))
for(h in 1:24){
soil_0_surf <- raster(pathToSoilRaster,band=h)
soil_0_surf <- crop(soil_0_surf,e)
soil_0_surf <- as.matrix(soil_0_surf)
for(n in 1: length(AmazonLizards$Lat)) {
r <- as.integer((e[4] - AmazonLizards$Lat[n])/resolution)
c <- as.integer((AmazonLizards$Lon[n] - e[1])/resolution+1)
AmazonLizardsMatrixSurf[n,h]<-soil_0_surf[r,c]
}
}
return(AmazonLizardsMatrixSurf)
}
ls(pattern="AmazonLizardsMatrixSurf") #after Step_0, ls() yields the output
ListofAmazonLizards_microclim <- ls(pattern="AmazonLizardsMatrixSurf")

#AmazonLizardsMatrixSurf_0cm_25shd_01 <-
AmazonLizardsExtractMatrix.R("25_shade_substrate/D0cm_sand_25_1.nc")
# step 1
AmazonLizards[["Tmax_03"]] <- as.vector(matrix(0,nrow=length(AmazonLizards$Lat)))
Step_1_BuildTmax_SineCalculator.R <- function(){
resolution <- 0.1666667
e <- extent(c(-80,-40,-20,14))
# and then the usual parameters for hr, hr, prec
tmax_01 <- raster("D:/Rasters/Amazon/wc2-5/tmax1.bil")
tmax_02 <- raster("D:/Rasters/Amazon/wc2-5/tmax2.bil")
tmax_03 <- raster("D:/Rasters/Amazon/wc2-5/tmax3.bil")
tmax_04 <- raster("D:/Rasters/Amazon/wc2-5/tmax4.bil")
tmax_05 <- raster("D:/Rasters/Amazon/wc2-5/tmax5.bil")
tmax_06 <- raster("D:/Rasters/Amazon/wc2-5/tmax6.bil")
tmax_07 <- raster("D:/Rasters/Amazon/wc2-5/tmax7.bil")
tmax_08 <- raster("D:/Rasters/Amazon/wc2-5/tmax8.bil")
tmax_09 <- raster("D:/Rasters/Amazon/wc2-5/tmax9.bil")
tmax_010 <- raster("D:/Rasters/Amazon/wc2-5/tmax10.bil")
tmax_011 <- raster("D:/Rasters/Amazon/wc2-5/tmax11.bil")
tmax_012 <- raster("D:/Rasters/Amazon/wc2-5/tmax12.bil")
tmax_01.crop <- crop(tmax_01,e)
tmax_02.crop <- crop(tmax_02,e)
tmax_04.crop <- crop(tmax_04,e)
tmax_04.crop <- crop(tmax_04,e)
tmax_05.crop <- crop(tmax_05,e)
tmax_06.crop <- crop(tmax_06,e)
tmax_07.crop <- crop(tmax_07,e)
tmax_08.crop <- crop(tmax_08,e)
tmax_09.crop <- crop(tmax_09,e)
```

```
tmax_10.crop <- crop(tmax_10,e)
tmax_11.crop <- crop(tmax_11,e)
tmax_12.crop <- crop(tmax_12,e)
tmax_01 <- aggregate(tmax_01,fun=mean,fact=20)
tmax_02 <- aggregate(tmax_02,fun=mean,fact=20)
tmax_03 <- aggregate(tmax_03,fun=mean,fact=20)
tmax_04 <- aggregate(tmax_04,fun=mean,fact=20)
tmax_05 <- aggregate(tmax_05,fun=mean,fact=20)
tmax_06 <- aggregate(tmax_06,fun=mean,fact=20)
tmax_07 <- aggregate(tmax_07,fun=mean,fact=20)
tmax_08 <- aggregate(tmax_08,fun=mean,fact=20)
tmax_09 <- aggregate(tmax_09,fun=mean,fact=20)
tmax_10 <- aggregate(tmax_10,fun=mean,fact=20)
tmax_11 <- aggregate(tmax_11,fun=mean,fact=20)
tmax_12 <- aggregate(tmax_12,fun=mean,fact=20)
tmax_01 <- as.matrix(tmax_01)/10
tmax_02 <- as.matrix(tmax_02)/10
tmax_03 <- as.matrix(tmax_03)/10
tmax_04 <- as.matrix(tmax_04)/10
tmax_05 <- as.matrix(tmax_05)/10
tmax_06 <- as.matrix(tmax_06)/10
tmax_07 <- as.matrix(tmax_07)/10
tmax_08 <- as.matrix(tmax_08)/10
tmax_09 <- as.matrix(tmax_09)/10
tmax_10 <- as.matrix(tmax_10)/10
tmax_11 <- as.matrix(tmax_11)/10
tmax_12 <- as.matrix(tmax_12)/10

for(n in 1:length(AmazonLizards$Lat)){#extract Tmax at [Lat,Lon]=>[r,c]
r <- as.integer((e[4] - AmazonLizards$Lat[n])/resolution)
c <- as.integer((AmazonLizards$Lon[n] - e[1])/resolution + 1)
AmazonLizards$Tmax_01[n]<<-tmax_01[r,c]
AmazonLizards$Tmax_02[n]<<-tmax_02[r,c]
AmazonLizards$Tmax_03[n]<<-tmax_03[r,c] # [r,c] index extent e
AmazonLizards$Tmax_04[n]<<-tmax_04[r,c]
AmazonLizards$Tmax_05[n]<<-tmax_05[r,c]
AmazonLizards$Tmax_06[n]<<-tmax_06[r,c]
AmazonLizards$Tmax_07[n]<<-tmax_07[r,c]
AmazonLizards$Tmax_08[n]<<-tmax_08[r,c]
AmazonLizards$Tmax_09[n]<<-tmax_09[r,c]
AmazonLizards$Tmax_10[n]<<-tmax_10[r,c]
AmazonLizards$Tmax_11[n]<<-tmax_11[r,c]
AmazonLizards$Tmax_12[n]<<-tmax_12[r,c]
}
h_r_Te <- as.vector(matrix(0,nrow=length(AmazonLizards$Lat)))
for(TeName in ListofAmazonLizards_microclim){
#TeName - Te scenarios/month
#then get the headerTe names in AmazonLizards.csv
headerTe <- substr(TeName,start=24,stop=nchar(TeName))
#columns added to the data matrix AmazonLizards for results from numerical integration
headerTe <- sub("f_","Te", headerTe) # headers in AmazonLizards.csv
#Takes AmazonLizardsMatrix=get(TeName), converts to h_r header scenarios
AmazonLizardsMatrix <- get(TeName)
for(n in 1:length(AmazonLizards$Lat)){
up <- FALSE # set up/down registers for T_e > Tb (UP CROSSING)
down <- FALSE # and last T_e < Tb (DOWN CROSSING)
h_r <- 0
h_r_subtract <- 0
for(h in 1:24){ #The 24-hours of microclim T_e scenarios
if(!is.na(AmazonLizardsMatrix[n,h])){ # [n,h] == [site h,over 24-h]
```

```
if(AmazonLizardsMatrix[n,h] > AmazonLizards$Tb[n]){
h_r <- h_r + 1 # an integer counter used below
if(!up){ # compute fractional h threshold, up crossing
# must be 1st upcrossing: do once
up <- TRUE
cat("U")
# just indicating the user an UP-CROSSING
# solve slope, a, and intercept, b, useful relations:
# y=ax+b; b=y-ax; x=(y-b)/a; for linear interpolation
a <- (AmazonLizardsMatrix[n,h]
-AmazonLizardsMatrix[n,(h-1)]) # denominator is simply 1 hr
# b, the intercept for a down-crossing:
b <- AmazonLizardsMatrix[n,h]-a*h
h_r_subtract <- ((AmazonLizards$Tb[n]- b)/a)-h
h_r <- h_r - h_r_subtract
}
}
else{ # compute fractional h, for the downcrossing
if(up && !down){ # h threshold, down crossing
# must be the 1st downcrossing: do once
down <- TRUE
cat("D") # just indicating the user an DOWN-CROSSING
# solve slope, a, and intercept, b, useful relations:
# y=ax+b; b=y-ax; x=(y-b)/a; for linear interpolation
a <- (AmazonLizardsMatrix[n,h]
-AmazonLizardsMatrix[n,(h-1)]) # denominator is simply 1 hr
# b, the intercept for a down-crossing
b <- AmazonLizardsMatrix[n,h]-a*h
h_r_subtract <- ((AmazonLizards$Tb[n]- b)/a)-h
h_r <- h_r - h_r_subtract
}
}

} # is.na else cat("MISSING",n,h)
# to handle is.na()=TRUE: likely in ocean
}
# end for loop h= hours of day
h_r_Te[n] <- h_r #assign output of numerical integration for site n
}
 # end for loop n=populations (e.g., occurrence records)
 AmazonLizards[[headerTe]] <<- h_r_Te # create a new column vector
 }
 }

 # step 2 ####

 Step_2_AssembleTeDownScaling_hr_TmaxTpref.R <- function(){
            average_hr_03_09 <<-
 array(0,dim=c(5*length(AmazonLizards$Lat),7))
 ctr <- 0
for(i in 1:length(AmazonLizards$Lat)){
 average_hr_03_09[i+ctr,1] <<- AmazonLizards$Tb[i]
 average_hr_03_09[i+ctr,2] <<- AmazonLizards$Lon[i]
 average_hr_03_09[i+ctr,3] <<- AmazonLizards$Lat[i]
 average_hr_03_09[i+ctr,4] <<- 5
 average_hr_03_09[i+ctr,5] <<- AmazonLizards$Tmax_05[i]
 average_hr_03_09[i+ctr,6] <<- AmazonLizards$Tmax_05[i]- AmazonLizards$Tb[i]
 average_hr_03_09[i+ctr,7] <<- (AmazonLizards$Te0cm_100shd_05[i]
 +AmazonLizards$Te0cm_25shd_05[i]
 +AmazonLizards$Te0cm_50shd_05[i]
```

```
 +AmazonLizards$Te0cm_75shd_05[i]
+AmazonLizards$Te1cm_0shd_05[i]
 +AmazonLizards$Te1cm_0shd_rk_05[i]
 +AmazonLizards$Te1cm_100shd_05[i]
 +AmazonLizards$Te1cm_100shd_rk_05[i]
 +AmazonLizards$Te1cm_25shd_05[i]
 +AmazonLizards$Te1cm_25shd_rk_05[i]
 +AmazonLizards$Te1cm_50shd_05[i]
 +AmazonLizards$Te1cm_50shd_rk_05[i]
 +AmazonLizards$Te1cm_75shd_05[i]
 +AmazonLizards$Te1cm_75shd_rk_05[i])/14
}

#6
ctr <- length(AmazonLizards$Lat)
for(i in 1:length(AmazonLizards$Lat)){
average_hr_03_09[i+ctr,1] <<- AmazonLizards$Tb[i]
average_hr_03_09[i+ctr,2] <<- AmazonLizards$Lon[i]
average_hr_03_09[i+ctr,3] <<- AmazonLizards$Lat[i]
average_hr_03_09[i+ctr,4] <<- 6
average_hr_03_09[i+ctr,5] <<- AmazonLizards$Tmax_06[i]
average_hr_03_09[i+ctr,6] <<- AmazonLizards$Tmax_06[i]- AmazonLizards$Tb[i]
average_hr_03_09[i+ctr,7] <<- (AmazonLizards$Te0cm_100shd_06[i]
+AmazonLizards$Te0cm_25shd_06[i]
+AmazonLizards$Te0cm_50shd_06[i]
+AmazonLizards$Te0cm_75shd_06[i]
+AmazonLizards$Te1cm_0shd_06[i]
+AmazonLizards$Te1cm_0shd_rk_06[i]
+AmazonLizards$Te1cm_100shd_06[i]
+AmazonLizards$Te1cm_100shd_rk_06[i]
+AmazonLizards$Te1cm_25shd_06[i]
+AmazonLizards$Te1cm_25shd_rk_06[i]
+AmazonLizards$Te1cm_50shd_06[i]
+AmazonLizards$Te1cm_50shd_rk_06[i]
+AmazonLizards$Te1cm_75shd_06[i]
+AmazonLizards$Te1cm_75shd_rk_06[i])/14
}
#7
ctr <- 2*length(AmazonLizards$Lat)
for(i in 1:length(AmazonLizards$Lat)){
average_hr_03_09[i+ctr,1] <<- AmazonLizards$Tb[i]
average_hr_03_09[i+ctr,2] <<- AmazonLizards$Lon[i]
average_hr_03_09[i+ctr,3] <<- AmazonLizards$Lat[i]
average_hr_03_09[i+ctr,4] <<- 7
average_hr_03_09[i+ctr,5] <<- AmazonLizards$Tmax_07[i]
average_hr_03_09[i+ctr,6] <<- AmazonLizards$Tmax_07[i]- AmazonLizards$Tb[i]
 average_hr_03_09[i+ctr,7] <<-
 (AmazonLizards$Te0cm_100shd_07[i]
 +AmazonLizards$Te0cm_25shd_07[i]
 +AmazonLizards$Te0cm_50shd_07[i]
 +AmazonLizards$Te0cm_75shd_07[i]
+AmazonLizards$Te1cm_0shd_07[i]
 +AmazonLizards$Te1cm_0shd_rk_07[i]
 +AmazonLizards$Te1cm_100shd_07[i]
 +AmazonLizards$Te1cm_100shd_rk_07[i]
 +AmazonLizards$Te1cm_25shd_07[i]
 +AmazonLizards$Te1cm_25shd_rk_07[i]
 +AmazonLizards$Te1cm_50shd_07[i]
 +AmazonLizards$Te1cm_50shd_rk_07[i]
 +AmazonLizards$Te1cm_75shd_07[i]
```

```
 +AmazonLizards$Te1cm_75shd_rk_07[i])/14
}

 #8
 ctr <- 3*length(AmazonLizards$Lat)
 for(i in 1:length(AmazonLizards$Lat)){
 average_hr_03_09[i+ctr,1] <<- AmazonLizards$Tb[i]
 average_hr_03_09[i+ctr,2] <<- AmazonLizards$Lon[i]
 average_hr_03_09[i+ctr,3] <<- AmazonLizards$Lat[i]
 average_hr_03_09[i+ctr,4] <<- 8
 average_hr_03_09[i+ctr,5] <<- AmazonLizards$Tmax_08[i]
 average_hr_03_09[i+ctr,6] <<- AmazonLizards$Tmax_08[i]- AmazonLizards$Tb[i]
 average_hr_03_09[i+ctr,7] <<- (AmazonLizards$Te0cm_100shd_08[i]
 +AmazonLizards$Te0cm_25shd_08[i]
 +AmazonLizards$Te0cm_50shd_08[i]
 +AmazonLizards$Te0cm_75shd_08[i]
+AmazonLizards$Te1cm_0shd_08[i]
 +AmazonLizards$Te1cm_0shd_rk_08[i]
 +AmazonLizards$Te1cm_100shd_08[i]
 +AmazonLizards$Te1cm_100shd_rk_08[i]
 +AmazonLizards$Te1cm_25shd_08[i]
 +AmazonLizards$Te1cm_25shd_rk_08[i]
 +AmazonLizards$Te1cm_50shd_08[i]
 +AmazonLizards$Te1cm_50shd_rk_08[i]
 +AmazonLizards$Te1cm_75shd_08[i]
 +AmazonLizards$Te1cm_75shd_rk_08[i])/14
}
 #9
 ctr <- 4*length(AmazonLizards$Lat)
 for(i in 1:length(AmazonLizards$Lat)){
 average_hr_03_09[i+ctr,1] <<- AmazonLizards$Tb[i]
 average_hr_03_09[i+ctr,2] <<- AmazonLizards$Lon[i]
 average_hr_03_09[i+ctr,3] <<- AmazonLizards$Lat[i]
 average_hr_03_09[i+ctr,4] <<- 9
 average_hr_03_09[i+ctr,5] <<- AmazonLizards$Tmax_09[i]
 average_hr_03_09[i+ctr,6] <<- AmazonLizards$Tmax_09[i]- AmazonLizards$Tb[i]
 average_hr_03_09[i+ctr,7] <<- (AmazonLizards$Te0cm_100shd_09[i]
 +AmazonLizards$Te0cm_25shd_09[i]
 +AmazonLizards$Te0cm_50shd_09[i]
 +AmazonLizards$Te0cm_75shd_09[i]
+AmazonLizards$Te1cm_0shd_09[i]
 +AmazonLizards$Te1cm_0shd_rk_09[i]
 +AmazonLizards$Te1cm_100shd_09[i]
 +AmazonLizards$Te1cm_100shd_rk_09[i]
 +AmazonLizards$Te1cm_25shd_09[i]
 +AmazonLizards$Te1cm_25shd_rk_09[i]
 +AmazonLizards$Te1cm_50shd_09[i]
 +AmazonLizards$Te1cm_50shd_rk_09[i]
 +AmazonLizards$Te1cm_75shd_09[i]
 +AmazonLizards$Te1cm_75shd_rk_09[i])/14
}
 }

 #step 3
Step_3_Downscaling_h_r_by_Tmax3_PROOFED.R <- function(){
# before running this function... read in the tmax rasters:
# tmax_03-tmax_09, convert to spatial extent given by e and at 1x1 km
# then convert them into matrices, tmax_03 <- as.matrix(tmax_03), ...
resolution <- 0.00833333
Theta1 <- 10.831930877 # fitted theta (Eqn.1) from the data of Step_2
```

```
Theta2 <- 5.1079937093
Theta3 <- 0.4068101337
Theta4 <- 2.6905722504 # compute all the raster layers of Tmax-Tpref into hours of activity
# register for computed h_r by month
h_r_downscale <<- array(0,dim=c(length(AmazonLizards$Tb),7))
for(n in 1:length(AmazonLizardsSppTb$Tb)){

            r <- as.integer((e[4] -
AmazonLizardsSppTb$Lat[n])/resolution) # matrix 0 to 1
c <- as.integer((AmazonLizardsSppTb$Lon[n] - e[1])/resolution + 1)
# To get maternal plasticity from this same function ...
# add 1 C to Tpref (based on Paranjpe et al. 2013)
Tpref <- AmazonLizards$Tb[i]
# +1 # for maternal plasticity # or not for base model #03 month
Tmax <- tmax_03[r,c]
h_r_downscale[n,1] <<- Theta1/(1+Theta2*exp(-Theta3*(Tmax- Tpref)))^(1/Theta4) # 04 month
 Tmax <- tmax_04[r,c]
 h_r_downscale[n,2] <<- Theta1/(1+Theta2*exp(-Theta3*(Tmax- Tpref)))^(1/Theta4) # 05 month
 Tmax <- tmax_05[r,c]
 h_r_downscale[n,3] <<- Theta1/(1+Theta2*exp(-Theta3*(Tmax- Tpref)))^(1/Theta4) # 06 month
 Tmax <- tmax_06[r,c]
 h_r_downscale[n,4] <<- Theta1/(1+Theta2*exp(-Theta3*(Tmax- Tpref)))^(1/Theta4) # 07 month
 Tmax <- tmax_07[r,c]
h_r_downscale[n,5] <<- Theta1/(1+Theta2*exp(-Theta3*(Tmax- Tpref)))^(1/Theta4)
 # cat(" ",tmax_03[r,c],h_r_downscale[i,5]) # 08 month
 Tmax <- tmax_08[r,c]
 h_r_downscale[n,6] <<- Theta1/(1+Theta2*exp(-Theta3*(Tmax- Tpref)))^(1/Theta4) # 09 month
 Tmax <- tmax_09[r,c]
 h_r_downscale[n,7] <<- Theta1/(1+Theta2*exp(-Theta3*(Tmax- Tpref)))^(1/Theta4)
}
 }

Step_4_Assemble_quantiles_Extinction.R <- function(){
 for(n in 1:length(AmazonLizardsSppTb$Lat)){
AmazonLizards$h_r_05to08[n] <<- mean(h_r_downscale_1975[n,3:6])
# this uses the matrix outside of the list (but you could use the matrix inside the list AmazonLizardsSppTb)
AmazonLizardsSppTb$h_r_05to08_2070RCP85[n] <<- mean(h_r_downscale_2070_RCP85[n,3:6])
 AmazonLizardsSppTb$h_r_05to08_2070RCP45[n] <<- mean(h_r_downscale_2070_RCP45[n,3:6])
}
 h_r_upper_quantile <<- as.vector(array(0,dim=c(length(AmazonLizardsSpeciesList),1)))
 species <- as.character(AmazonLizardsSppTb$Species)
 for(i in 1:length(AmazonLizardsSpeciesList)){
h_r_upper_quantile[i] <<- quantile(AmazonLizardsSppTb$h_r_05to08[species==AmazonLizardsSpeciesList[i]
],probs=c(0.95))
cat(i, AmazonLizardsSpeciesList[i],h_r_upper_quantile[i],"\n")
}
for(n in 1:length(AmazonLizardsSppTb$Lat)){
i <- 1
while(species[n] != AmazonLizardsSpeciesList[i]){
i <- i + 1
}
AmazonLizardsSppTb$h_r_upper_quantile[n] <<- h_r_upper_quantile[i]
if(AmazonLizardsSppTb$h_r_05to08_2070RCP85[n] > h_r_upper_quantile[i]){
AmazonLizardsSppTb$Extinct2070RCP85[n] <<- 0
cat("0 ") }
else{
AmazonLizardsSppTb$Extinct2070RCP85[n] <<- 1
cat("1 ")
}
 }
```

```
 for(n in 1:length(AmazonLizardsSppTb$Lat)){
 i <- 1
 while(species[n] != AmazonLizardsSpeciesList[i]){
i <- i + 1
 }
 AmazonLizards$h_r_upper_quantile[n] <<- h_r_upper_quantile[i]
 if(AmazonLizardsSppTb$h_r_05to08_2070RCP45[n] > h_r_upper_quantile[i]){
AmazonLizardsSppTb$Extinct2070RCP45[n] <<- 0
 cat("0 ") # just lets you know it worked
 }
 else{
 AmazonLizardsSppTb$Extinct2070RCP45[n] <<- 1
 cat("1 ") # just lets you know it worked
 }
 }
 }
 library(dismo)
library(maps)
library(Hmisc)
library(biomod2)
# It the uses the routines in biomod2 to fit a species distribution model
# then it takes the fits from that model to predict the future distribution
# in 2080
setwd("C:/Users/Luisa Diele-Viegas/Google Drive/PhD/TESE/Parte 2 - Amazonia/Capítulo 5 - em
andamento/step4_SDM")
e <- extent(-105,-30,-55,20)

r1 <- raster("D:/Rasters/Amazon/wc2-5/tmax1.bil")
dataType(r1) <- "INT2S"
r2 <- raster("D:/Rasters/Amazon/wc2-5/tmax2.bil")
dataType(r2) <- "INT2S"
r3 <- raster("D:/Rasters/Amazon/wc2-5/tmax3.bil")
dataType(r3) <- "INT2S"
r4 <- raster("D:/Rasters/Amazon/wc2-5/tmax4.bil")
dataType(r4) <- "INT2S"
r5 <- raster("D:/Rasters/Amazon/wc2-5/tmax5.bil")
dataType(r5) <- "INT2S"
r6 <- raster("D:/Rasters/Amazon/wc2-5/tmax6.bil")
dataType(r6) <- "INT2S"
r7 <- raster("D:/Rasters/Amazon/wc2-5/tmax7.bil")
dataType(r7) <- "INT2S"
r8 <- raster("D:/Rasters/Amazon/wc2-5/tmax8.bil")
dataType(r8) <- "INT2S"
r9 <- raster("D:/Rasters/Amazon/wc2-5/tmax9.bil")
dataType(r9) <- "INT2S"
r10 <- raster("D:/Rasters/Amazon/wc2-5/tmax10.bil")
dataType(r10) <- "INT2S"
r11 <- raster("D:/Rasters/Amazon/wc2-5/tmax11.bil")
dataType(r11) <- "INT2S"
r12 <- raster("D:/Rasters/Amazon/wc2-5/tmax12.bil")
dataType(r12) <- "INT2S"

r1.crop <- aggregate(crop(r1,e),fun=mean,fact=6)/10
r2.crop <- aggregate(crop(r2,e),fun=mean,fact=6)/10
r3.crop <- aggregate(crop(r3,e),fun=mean,fact=6)/10
r4.crop <- aggregate(crop(r4,e),fun=mean,fact=6)/10
r5.crop <- aggregate(crop(r5,e),fun=mean,fact=6)/10
r6.crop <- aggregate(crop(r6,e),fun=mean,fact=6)/10
r7.crop <- aggregate(crop(r7,e),fun=mean,fact=6)/10
r8.crop <- aggregate(crop(r8,e),fun=mean,fact=6)/10
```

```
r9.crop <- aggregate(crop(r9,e),fun=mean,fact=6)/10
r10.crop <- aggregate(crop(r10,e),fun=mean,fact=6)/10
r11.crop <- aggregate(crop(r11,e),fun=mean,fact=6)/10
r12.crop <- aggregate(crop(r12,e),fun=mean,fact=6)/10

G_poly = read.csv("D:/Analysis_Mapinguari/LMDV_SDM/analyses_izpaperscript/dist_all.csv", header=T)
coordinates(G_poly) = ~ Lon + Lat
#force the western soil extent
#e <- extent(silt.10m)
# get the original data in G_poly for species occurances and extend it by 5 degrees using extend() a command in raster.pdf
#e = extend(extent(G_poly),5)

# crop the world's data at 10 arc minutes to the region around G_poly points
# store these tmax values for 1975 in r1.crop - r12.crop

# fit I ran in JMP (using the data in the Zimmermann et al. 1994 for G. agassizii

Tpref =29.57

# h_a function
Theta1 <- 24 # constrain asymptote to h_a value
Theta2 <- -0.128057505449547
Theta3 <- 0.17711852809626
Theta4 <- -0.355746571402321

# compute all the raster layers of Tmax-Tpref into hours of activity
#
r_ha1.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1.crop-Tpref)))^(1/Theta4)
r_ha2.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2.crop-Tpref)))^(1/Theta4)
r_ha3.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3.crop-Tpref)))^(1/Theta4)
r_ha4.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4.crop-Tpref)))^(1/Theta4)
r_ha5.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5.crop-Tpref)))^(1/Theta4)
r_ha6.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6.crop-Tpref)))^(1/Theta4)
r_ha7.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7.crop-Tpref)))^(1/Theta4)
r_ha8.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8.crop-Tpref)))^(1/Theta4)
r_ha9.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9.crop-Tpref)))^(1/Theta4)
r_ha10.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10.crop-Tpref)))^(1/Theta4)
r_ha11.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11.crop-Tpref)))^(1/Theta4)
r_ha12.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12.crop-Tpref)))^(1/Theta4)

r_ha1.crop[r1.crop < 20] <- 0
r_ha2.crop[r2.crop < 20] <- 0
r_ha3.crop[r3.crop < 20] <- 0
r_ha4.crop[r4.crop < 20] <- 0
r_ha5.crop[r5.crop < 20] <- 0
r_ha6.crop[r6.crop < 20] <- 0
r_ha7.crop[r7.crop < 20] <- 0
r_ha8.crop[r8.crop < 20] <- 0
r_ha9.crop[r9.crop < 20] <- 0
r_ha10.crop[r10.crop < 20] <- 0
r_ha11.crop[r11.crop < 20] <- 0
r_ha12.crop[r12.crop < 20] <- 0

Tpref <-29.57 # Tpref derived

#parameters for the 4-parameter Richards growth equation -- sigmoidal curve
# fitted to data for hours of restriction regressed on Tmax-Tpref:

Theta1 <- 12 # constrain asymptote to h_a value
```

```
Theta2 <- 4.12878578037074
Theta3 <- 0.293500741987643
Theta4 <- 1.6159356896977

#compute hours of restriction during the breeding season:
r_hr1.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1.crop-Tpref)))^(1/Theta4)
r_hr1.crop[r1.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr2.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2.crop-Tpref)))^(1/Theta4)
r_hr2.crop[r2.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr3.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3.crop-Tpref)))^(1/Theta4)
r_hr3.crop[r3.crop < 20] <- 0

r_hr4.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4.crop-Tpref)))^(1/Theta4)
r_hr4.crop[r4.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr5.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5.crop-Tpref)))^(1/Theta4)
r_hr5.crop[r5.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr6.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6.crop-Tpref)))^(1/Theta4)
r_hr6.crop[r6.crop < 20] <- 0
r_hr7.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7.crop-Tpref)))^(1/Theta4)
r_hr7.crop[r7.crop < 20] <- 0 #we ran out of memory to calculate that, were it was below of that it comes to zero. Always have to be careful for this things, use Excel.

r_hr8.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8.crop-Tpref)))^(1/Theta4)
r_hr8.crop[r8.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr9.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9.crop-Tpref)))^(1/Theta4)
r_hr9.crop[r8.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr10.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10.crop-Tpref)))^(1/Theta4)
r_hr10.crop[r10.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr11.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11.crop-Tpref)))^(1/Theta4)
r_hr11.crop[r11.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr12.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12.crop-Tpref)))^(1/Theta4)
r_hr12.crop[r12.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)

# sum the hours of activity for the entire year -- activity ellipse

rsum_ha.crop <- (r_ha1.crop+ r_ha2.crop+ r_ha3.crop+ r_ha4.crop+ r_ha5.crop+ r_ha6.crop+ r_ha7.crop+ r_ha8.crop+ r_ha9.crop+ r_ha10.crop+ r_ha11.crop+ r_ha12.crop)
rsum_hr.crop <- (r_hr1.crop+ r_hr2.crop+ r_hr3.crop+ r_hr4.crop+ r_hr5.crop+ r_hr6.crop+ r_hr7.crop+ r_hr8.crop+ r_hr9.crop+ r_hr10.crop+ r_hr11.crop+ r_hr12.crop)



r1_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx701.tif")
r2_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx702.tif")
r3_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx703.tif")
r4_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx704.tif")
r5_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx705.tif")
r6_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx706.tif")
r7_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx707.tif")
r8_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx708.tif")
r9_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx709.tif")
r10_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx7010.tif")
r11_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx7011.tif")
r12_45 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp45tx7012.tif")

r1_45.crop = aggregate(crop(r1_45,e),fun=mean,fact=6)/10
```

```
r2_45.crop = aggregate(crop(r2_45,e),fun=mean,fact=6)/10
r3_45.crop = aggregate(crop(r3_45,e),fun=mean,fact=6)/10
r4_45.crop = aggregate(crop(r4_45,e),fun=mean,fact=6)/10
r5_45.crop = aggregate(crop(r5_45,e),fun=mean,fact=6)/10
r6_45.crop = aggregate(crop(r6_45,e),fun=mean,fact=6)/10
r7_45.crop = aggregate(crop(r7_45,e),fun=mean,fact=6)/10
r8_45.crop = aggregate(crop(r8_45,e),fun=mean,fact=6)/10
r9_45.crop = aggregate(crop(r9_45,e),fun=mean,fact=6)/10
r10_45.crop = aggregate(crop(r10_45,e),fun=mean,fact=6)/10
r11_45.crop = aggregate(crop(r11_45,e),fun=mean,fact=6)/10
r12_45.crop = aggregate(crop(r12_45,e),fun=mean,fact=6)/10


#do the same calculations for the 2080 Tmax - Tpref
# for hours of activity

# h_a function
Theta1 <- 24 # constrain asymptote to h_a value
Theta2 <- -0.128057505449547
Theta3 <- 0.17711852809626
Theta4 <- -0.355746571402321

Tpref <-29.57
r_ha1_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1_45.crop-Tpref)))^(1/Theta4)
r_ha2_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2_45.crop-Tpref)))^(1/Theta4)
r_ha3_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3_45.crop-Tpref)))^(1/Theta4)
r_ha4_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4_45.crop-Tpref)))^(1/Theta4)
r_ha5_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5_45.crop-Tpref)))^(1/Theta4)
r_ha6_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6_45.crop-Tpref)))^(1/Theta4)
r_ha7_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7_45.crop-Tpref)))^(1/Theta4)
r_ha8_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8_45.crop-Tpref)))^(1/Theta4)
r_ha9_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9_45.crop-Tpref)))^(1/Theta4)
r_ha10_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10_45.crop-Tpref)))^(1/Theta4)
r_ha11_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11_45.crop-Tpref)))^(1/Theta4)
r_ha12_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12_45.crop-Tpref)))^(1/Theta4)
r_ha1_45.crop[r1_45.crop<20]<- 0
r_ha2_45.crop[r2_45.crop<20]<- 0
r_ha3_45.crop[r3_45.crop<20]<- 0
r_ha4_45.crop[r4_45.crop<20]<- 0
r_ha5_45.crop[r5_45.crop<20]<- 0
r_ha6_45.crop[r6_45.crop<20]<- 0
r_ha7_45.crop[r7_45.crop<20]<- 0
r_ha8_45.crop[r8_45.crop<20]<- 0
r_ha9_45.crop[r9_45.crop<20]<- 0
r_ha10_45.crop[r10_45.crop<20]<- 0
r_ha11_45.crop[r11_45.crop<20]<- 0
r_ha12_45.crop[r12_45.crop<20]<- 0
#do the same calculations for the 2080 Tmax - Tpref
# for hours of restriction

Tpref <-29.57 #UCT
Theta1 <- 12 # constrain asymptote to h_a value
Theta2 <- 4.12878578037074
Theta3 <- 0.293500741987643
Theta4 <- 1.6159356896977
r_hr1_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1_45.crop-Tpref)))^(1/Theta4)
r_hr1_45.crop[r1_45.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr2_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2_45.crop-Tpref)))^(1/Theta4)
r_hr2_45.crop[r2_45.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
```

```
r_hr3_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3_45.crop-Tpref)))^(1/Theta4)
r_hr3_45.crop[r3_45.crop < 20] <- 0
r_hr4_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4_45.crop-Tpref)))^(1/Theta4)
r_hr4_45.crop[r4_45.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr5_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5_45.crop-Tpref)))^(1/Theta4)
r_hr5_45.crop[r5_45.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr6_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6_45.crop-Tpref)))^(1/Theta4)
r_hr6_45.crop[r6_45.crop < 20] <- 0
r_hr7_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7_45.crop-Tpref)))^(1/Theta4)
r_hr7_45.crop[r7_45.crop < 20] <- 0 #we ran out of memory to calculate that, were it was below of that it comes to zero. Always have to be careful for this things, use Excel.
r_hr8_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8_45.crop-Tpref)))^(1/Theta4)
r_hr8_45.crop[r8_45.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr9_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9_45.crop-Tpref)))^(1/Theta4)
r_hr9_45.crop[r8_45.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr10_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10_45.crop-Tpref)))^(1/Theta4)
r_hr10_45.crop[r10_45.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr11_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11_45.crop-Tpref)))^(1/Theta4)
r_hr11_45.crop[r11_45.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr12_45.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12_45.crop-Tpref)))^(1/Theta4)
r_hr12_45.crop[r12_45.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error
rsum_ha_45.crop <- (r_ha1_45.crop+ r_ha2_45.crop+ r_ha3_45.crop+ r_ha4_45.crop+ r_ha5_45.crop+ r_ha6_45.crop+ r_ha7_45.crop+ r_ha8_45.crop+ r_ha9_45.crop+ r_ha10_45.crop+ r_ha11_45.crop+ r_ha12_45.crop)
rsum_hr_45.crop <- (r_hr1_45.crop+ r_hr2_45.crop+ r_hr3_45.crop+ r_hr4_45.crop+ r_hr5_45.crop+ r_hr6_45.crop+ r_hr7_45.crop+ r_hr8_45.crop+ r_hr9_45.crop+ r_hr10_45.crop+ r_hr11_45.crop+ r_hr12_45.crop)
#plot(rsum_ha_45.crop )
#plot(ravg_hr_MayJul_45.crop)


# how get the 1975 data for precipitation
prec5 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec5.bil"),e),fun=mean,fact=6)
prec6 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec6.bil"),e),fun=mean,fact=6)
prec7 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec7.bil"),e),fun=mean,fact=6)
prec8 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec8.bil"),e),fun=mean,fact=6)
prec9 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec9.bil"),e),fun=mean,fact=6)
r_sum05to09.crop =  prec5 + prec6 + prec7 + prec8 + prec9
prec5_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr705.tif"),e),fun=mean,fact=6)
prec6_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr706.tif"),e),fun=mean,fact=6)
prec7_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr707.tif"),e),fun=mean,fact=6)
prec8_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr708.tif"),e),fun=mean,fact=6)
prec9_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr709.tif"),e),fun=mean,fact=6)
r_sum05to09_45.crop =  prec5_45 + prec6_45 + prec7_45 + prec8_45 + prec9_45
prec10 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec10.bil"),e),fun=mean,fact=6)
prec11 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec11.bil"),e),fun=mean,fact=6)
prec12 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec12.bil"),e),fun=mean,fact=6)
prec01 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec1.bil"),e),fun=mean,fact=6)
prec02 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec2.bil"),e),fun=mean,fact=6)
prec03 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec3.bil"),e),fun=mean,fact=6)
prec04 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec4.bil"),e),fun=mean,fact=6)
r_sum10to04.crop =  prec10 + prec11 + prec12 + prec01 + prec02+ prec03 + prec04
prec10_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr7010.tif"),e),fun=mean,fact=6)
prec11_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr7011.tif"),e),fun=mean,fact=6)
prec12_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr7012.tif"),e),fun=mean,fact=6)
prec01_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr701.tif"),e),fun=mean,fact=6)
prec02_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr702.tif"),e),fun=mean,fact=6)
```

```
prec03_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr703.tif"),e),fun=mean,fact=6)
prec04_45 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp45pr704.tif"),e),fun=mean,fact=6)
r_sum10to04_45.crop =  prec10_45 + prec11_45 + prec12_45 + prec01_45 + prec02_45+ prec03_45 +
prec04_45
prec_sum_all.crop = (prec01 + prec02+ prec03 + prec04 + prec5 + prec6 + prec7 + prec8 + prec9 + prec10 +
prec11 + prec12)
prec_sum_all_45.crop =  prec10_45 + prec11_45 + prec12_45 + prec01_45 + prec02_45+ prec03_45 +
prec04_45 + prec5_45 + prec6_45 + prec7_45 + prec8_45 + prec9_45

#NOTE ravg_hr_sum_45.crop_10m is really across the year -- see above
r_obj4.crop <- stack(rsum_hr.crop, rsum_ha.crop, prec_sum_all.crop)
names(r_obj4.crop) = c("H-r","H-a","Prec")

#OR now build 7 layers including soil
myExpl <- r_obj4.crop
        myRespXY <- data.frame(Lon = G_poly@coords[,1], Lat = G_poly@coords[,2])
        myResp <- rep(1,nrow(G_poly))  # this column needs to be in the data for
        # the species distribtuion Amazonian spp loaded above
        myRespName <- 'Amazonian spp'
        myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level =
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace
= FALSE) ))
        myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
                                expl.var=myExpl,
                                resp.xy = myRespXY,
                                resp.name = myRespName,
                                PA.nb.rep = 1,
                                PA.nb.absences = 1000,
                                PA.strategy = 'disk',
                                PA.dist.min = 50000,
                                PA.dist.max = 20000000,
                                PA.sre.quant = 0.025,
                                PA.table = NULL,
                                na.rm = TRUE)
#       plot(myBiomodData, cex=2)
        myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options =
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'),
do.full.models=FALSE,modeling.id="test")

#myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
#myGLMs_linear <- myGLMs
myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
myGLMs_quad <- myGLMs
get_formal_model(get(myGLMs))
myBiomodProj <- BIOMOD_Projection(
            modeling.output = myBiomodModelOut,
            new.env = myExpl,
            proj.name = 'current',
            selected.models = 'all',
            binary.meth = 'ROC',
            compress = 'xz',
            clamping.mask = F,
            output.format = '.grd')
        pred= get_predictions(myBiomodProj)[[1]]
        pred_quad = get_predictions(myBiomodProj)[[1]]
windows()           # delete this command on WINDOWS machines -- use windows()
                    #PLOT PRESENT
  tiff('Amazonian spp 1975 contemporary sem pontos.tif')
plot(pred/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA, main="Amazonian spp 1975
contemporary")
```

```
map("world",add=T)
map("state",add=T)
                    dev.off()

 writeRaster(pred, file="pred.grd")

#Future climate
#RCP 4.5
r_obj4_45.crop <- stack(rsum_hr_45.crop, rsum_ha_45.crop, prec_sum_all_45.crop)
names(r_obj4_45.crop) = c("H-r","H-a","Prec")


future.climate = r_obj4_45.crop
myBiomodProj_45 <- BIOMOD_Projection(
modeling.output = myBiomodModelOut,
new.env = future.climate,
proj.name = 'current',
selected.models = 'all',
binary.meth = 'ROC',
compress = 'xz',
clamping.mask = F,
output.format = '.grd')
pred_45 = get_predictions(myBiomodProj_45)[[1]]
windows()
# PLOT 4.5
tiff('Amazonian spp 2070 RCP 4.5 sem pontos.tif')
plot(pred_45/1000,col=rainbow(100)[1:70], axes = F, xlab = NA, ylab = NA,main="Amazonian spp 2070 RCP
4.5")
          map("world", add=T)
map("state",add=T)
dev.off()

writeRaster(pred_45, file="pred_45.grd")
#RCP 8.5
r1_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx701.tif")
r2_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx702.tif")
r3_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx703.tif")
r4_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx704.tif")
r5_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx705.tif")
r6_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx706.tif")
r7_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx707.tif")
r8_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx708.tif")
r9_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx709.tif")
r10_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx7010.tif")
r11_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx7011.tif")
r12_85 <- raster("D:/Rasters/Amazon/cmip5/2_5m/mp85tx7012.tif")
r1_85.crop = aggregate(crop(r1_85,e),fun=mean,fact=6)/10
r2_85.crop = aggregate(crop(r2_85,e),fun=mean,fact=6)/10
r3_85.crop = aggregate(crop(r3_85,e),fun=mean,fact=6)/10
r4_85.crop = aggregate(crop(r4_85,e),fun=mean,fact=6)/10
r5_85.crop = aggregate(crop(r5_85,e),fun=mean,fact=6)/10
r6_85.crop = aggregate(crop(r6_85,e),fun=mean,fact=6)/10
r7_85.crop = aggregate(crop(r7_85,e),fun=mean,fact=6)/10
r8_85.crop = aggregate(crop(r8_85,e),fun=mean,fact=6)/10
r9_85.crop = aggregate(crop(r9_85,e),fun=mean,fact=6)/10
r10_85.crop = aggregate(crop(r10_85,e),fun=mean,fact=6)/10
r11_85.crop = aggregate(crop(r11_85,e),fun=mean,fact=6)/10
r12_85.crop = aggregate(crop(r12_85,e),fun=mean,fact=6)/10
#do the same calculations for the 2080 Tmax - Tpref
# for hours of activity
```

```
# h_a function
Theta1 <- 24 # constrain asymptote to h_a value
Theta2 <- -0.128057505449547
Theta3 <- 0.17711852809626
Theta4 <- -0.355746571402321

Tpref <-29.57
r_ha1_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1_85.crop-Tpref)))^(1/Theta4)
r_ha2_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2_85.crop-Tpref)))^(1/Theta4)
r_ha3_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3_85.crop-Tpref)))^(1/Theta4)
r_ha4_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4_85.crop-Tpref)))^(1/Theta4)
r_ha5_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5_85.crop-Tpref)))^(1/Theta4)
r_ha6_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6_85.crop-Tpref)))^(1/Theta4)
r_ha7_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7_85.crop-Tpref)))^(1/Theta4)
r_ha8_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8_85.crop-Tpref)))^(1/Theta4)
r_ha9_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9_85.crop-Tpref)))^(1/Theta4)
r_ha10_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10_85.crop-Tpref)))^(1/Theta4)
r_ha11_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11_85.crop-Tpref)))^(1/Theta4)
r_ha12_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12_85.crop-Tpref)))^(1/Theta4)
r_ha1_85.crop[r1_85.crop<20]<- 0
r_ha2_85.crop[r2_85.crop<20]<- 0
r_ha3_85.crop[r3_85.crop<20]<- 0
r_ha4_85.crop[r4_85.crop<20]<- 0
r_ha5_85.crop[r5_85.crop<20]<- 0
r_ha6_85.crop[r6_85.crop<20]<- 0
r_ha7_85.crop[r7_85.crop<20]<- 0
r_ha8_85.crop[r8_85.crop<20]<- 0
r_ha9_85.crop[r9_85.crop<20]<- 0
r_ha10_85.crop[r10_85.crop<20]<- 0
r_ha11_85.crop[r11_85.crop<20]<- 0
r_ha12_85.crop[r12_85.crop<20]<- 0
#do the same calculations for the 2080 Tmax - Tpref
# for hours of restriction

Tpref <-29.57 #UCT
Theta1 <- 12 # constrain asymptote to h_a value
Theta2 <- 4.12878578037074
Theta3 <- 0.293500741987643
Theta4 <- 1.6159356896977

r_hr1_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1_85.crop-Tpref)))^(1/Theta4)
r_hr1_85.crop[r1_85.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr2_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2_85.crop-Tpref)))^(1/Theta4)
r_hr2_85.crop[r2_85.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due
to rounding error in sigmoidal equation)
r_hr3_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3_85.crop-Tpref)))^(1/Theta4)
r_hr3_85.crop[r3_85.crop < 20] <- 0

r_hr4_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4_85.crop-Tpref)))^(1/Theta4)
r_hr4_85.crop[r4_85.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr5_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5_85.crop-Tpref)))^(1/Theta4)
r_hr5_85.crop[r5_85.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due
to rounding error in sigmoidal equation)
r_hr6_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6_85.crop-Tpref)))^(1/Theta4)
r_hr6_85.crop[r6_85.crop < 20] <- 0
r_hr7_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7_85.crop-Tpref)))^(1/Theta4)
r_hr7_85.crop[r7_85.crop < 20] <- 0 #we ran out of memory to calculate that, were it was below of that it comes
to zero. Always have to be careful for this things, use Excel.
r_hr8_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8_85.crop-Tpref)))^(1/Theta4)
```

```
r_hr8_85.crop[r8_85.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr9_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9_85.crop-Tpref)))^(1/Theta4)
r_hr9_85.crop[r8_85.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr10_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10_85.crop-Tpref)))^(1/Theta4)
r_hr10_85.crop[r10_85.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr11_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11_85.crop-Tpref)))^(1/Theta4)
r_hr11_85.crop[r11_85.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr12_85.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12_85.crop-Tpref)))^(1/Theta4)
r_hr12_85.crop[r12_85.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error

rsum_ha_85.crop <- (r_ha1_85.crop+ r_ha2_85.crop+ r_ha3_85.crop+ r_ha4_85.crop+ r_ha5_85.crop+ r_ha6_85.crop+ r_ha7_85.crop+ r_ha8_85.crop+ r_ha9_85.crop+ r_ha10_85.crop+ r_ha11_85.crop+ r_ha12_85.crop)
rsum_hr_85.crop <- (r_hr1_85.crop+ r_hr2_85.crop+ r_hr3_85.crop+ r_hr4_85.crop+ r_hr5_85.crop+ r_hr6_85.crop+ r_hr7_85.crop+ r_hr8_85.crop+ r_hr9_85.crop+ r_hr10_85.crop+ r_hr11_85.crop+ r_hr12_85.crop)

#plot(rsum_ha_85.crop )
#plot(ravg_hr_MayJul_85.crop)


# how get the 1975 data for precipitation
prec5 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec5.bil"),e),fun=mean,fact=6)
prec6 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec6.bil"),e),fun=mean,fact=6)
prec7 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec7.bil"),e),fun=mean,fact=6)
prec8 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec8.bil"),e),fun=mean,fact=6)
prec9 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec9.bil"),e),fun=mean,fact=6)
r_sum05to09.crop =  prec5 + prec6 + prec7 + prec8 + prec9
prec5_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr705.tif"),e),fun=mean,fact=6)
prec6_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr706.tif"),e),fun=mean,fact=6)
prec7_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr707.tif"),e),fun=mean,fact=6)
prec8_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr708.tif"),e),fun=mean,fact=6)
prec9_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr709.tif"),e),fun=mean,fact=6)
r_sum05to09_85.crop =  prec5_85 + prec6_85 + prec7_85 + prec8_85 + prec9_85
prec10 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec10.bil"),e),fun=mean,fact=6)
prec11 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec11.bil"),e),fun=mean,fact=6)
prec12 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec12.bil"),e),fun=mean,fact=6)
prec01 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec1.bil"),e),fun=mean,fact=6)
prec02 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec2.bil"),e),fun=mean,fact=6)
prec03 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec3.bil"),e),fun=mean,fact=6)
prec04 <- aggregate(crop(raster("D:/Rasters/Amazon/wc2-5/prec4.bil"),e),fun=mean,fact=6)
r_sum10to04.crop =  prec10 + prec11 + prec12 + prec01 + prec02+ prec03 + prec04
prec10_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr7010.tif"),e),fun=mean,fact=6)
prec11_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr7011.tif"),e),fun=mean,fact=6)
prec12_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr7012.tif"),e),fun=mean,fact=6)
prec01_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr701.tif"),e),fun=mean,fact=6)
prec02_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr702.tif"),e),fun=mean,fact=6)
prec03_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr703.tif"),e),fun=mean,fact=6)
prec04_85 <- aggregate(crop(raster("D:/Rasters/Amazon/cmip5/2_5m/mp85pr704.tif"),e),fun=mean,fact=6)

r_sum10to04_85.crop =  prec10_85 + prec11_85 + prec12_85 + prec01_85 + prec02_85+ prec03_85 + prec04_85
prec_sum_all.crop = (prec01 + prec02+ prec03 + prec04 + prec5 + prec6 + prec7 + prec8 + prec9 + prec10 + prec11 + prec12)
prec_sum_all_85.crop =  prec10_85 + prec11_85 + prec12_85 + prec01_85 + prec02_85+ prec03_85 + prec04_85 + prec5_85 + prec6_85 + prec7_85 + prec8_85 + prec9_85
#NOTE ravg_hr_sum_85.crop_10m is really across the year -- see above
r_obj4.crop <- stack(rsum_hr.crop, rsum_ha.crop, prec_sum_all.crop)
```

```
names(r_obj4.crop) = c("H-r","H-a","Prec")

#OR now build 7 layers including soil

myExpl <- r_obj4.crop
	myRespXY <- data.frame(Lon = G_poly@coords[,1], Lat = G_poly@coords[,2])
	myResp <- rep(1,nrow(G_poly))  # this column needs to be in the data for
	# the species distribtuion Amazonian spp loaded above
	myRespName <- 'Amazonian spp'
	myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level = 
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace 
= FALSE) ))
	myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
				expl.var=myExpl,
				resp.xy = myRespXY,
				resp.name = myRespName,
				PA.nb.rep = 1,
				PA.nb.absences = 1000,
				PA.strategy = 'disk',
				PA.dist.min = 50000,
				PA.dist.max = 20000000,
				PA.sre.quant = 0.025,
				PA.table = NULL,
				na.rm = TRUE)

#	plot(myBiomodData, cex=2)
	myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options = 
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'), 
do.full.models=FALSE,modeling.id="test")


#myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
#myGLMs_linear <- myGLMs

myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
myGLMs_quad <- myGLMs

get_formal_model(get(myGLMs))
r_obj4_85.crop <- stack(rsum_hr_85.crop, rsum_ha_85.crop, prec_sum_all_85.crop)
names(r_obj4_85.crop) = c("H-r","H-a","Prec")
future.climate = r_obj4_85.crop
myBiomodProj_85 <- BIOMOD_Projection(
modeling.output = myBiomodModelOut,
new.env = future.climate,
proj.name = 'current',
selected.models = 'all',
binary.meth = 'ROC',
compress = 'xz',
clamping.mask = F,
output.format = '.grd')
pred_85 = get_predictions(myBiomodProj_85)[[1]]
windows()
tiff('Amazonian spp 2070 RCP 8.5.tif')
plot(pred_85/1000,col=rainbow(100)[1:70], axes = F, xlab = NA, ylab = NA,main="Amazonian spp 2070 RCP 
8.5 sem pontos")
	map("world", add=T)
map("state",add=T)
dev.off()
writeRaster(pred_85, file="pred_85.grd")
```

```
##
library(rgdal)
amazon <- readOGR("C:/Users/Luisa Diele-Viegas/Google Drive/Shapes/Amazon Biome
WWF/Amazon_Biome.shp", "Amazon_Biome")
shape_uc_amazonia <- readOGR("C:/Users/Luisa Diele-Viegas/Google Drive/Shapes/Protection Areas
Panamazonia WWF/PAs_Panamazonia_NoTopo.shp", "PAs_Panamazonia_NoTopo")

### FUNÇÃO DE SELEÇÃO DE UCs e TIs (de acordo com a distribuição)
intersect_points_shapes <- function(coord, circle_size, shapes, key) {
  circulos <- dismo::circles(coord, d = circle_size, lonlat = TRUE)
circulos_intersecao <- rgeos::gUnaryUnion(circulos@polygons)
  circulos_intersecao2 <- sp::spTransform(circulos_intersecao, raster::crs(shape_uc_amazonia)
uc_proximas <- sp::over(circulos_intersecao2, shapes, minDimension = -1, returnList = TRUE)
  uc_selecionadas <- shapes[shapes[[key]] %in% uc_proximas[[1]][[key]], ]
uc_selecionadas
}


#### SELEÇÃO DE UCs próximas dos pontos de ocorrência ###
dist_all<-read.csv("D:/Analysis_Mapinguari/LMDV_SDM/analyses_izpaperscript/dist_all.csv", header=T)
 uc_selecionadas_all<- intersect_points_shapes(dist_all[2:3], 15000, shape_uc_amazonia, 1)
tiff('uc_selecionadas.tif')
raster::plot(uc_selecionadas_all)
                         dev.off()
crs(uc_selecionadas_all)<-crs(amazon)
extract_mean_45_all_bioclim_uc<-extract(pred_45,uc_selecionadas_all, fun=mean)
write.table(extract_mean_45_all_bioclim_uc, file="extract_mean_45_all.csv", append=FALSE, quote=TRUE,
sep=";")
extract_mean_85_all_bioclim_uc<-extract(pred_85,uc_selecionadas_all, fun=mean)
write.table(extract_mean_85_all_bioclim_uc, file="extract_mean_85__all.csv", append=FALSE, quote=TRUE,
sep=";")
extract_mean_present_all_bioclim_uc<-extract(pred,uc_selecionadas_all, fun=mean)
write.table(extract_mean_present_all_bioclim_uc, file="extract_mean_present__all.csv", append=FALSE,
quote=TRUE, sep=";")
write.table(uc_selecionadas_all, file="uc_selecionadas_all.csv", append=FALSE, quote=TRUE, sep=";")
extract_mean_45_all_bioclim_uc<-extract(pred_45,amazon, fun=mean)
write.table(extract_mean_45_all_bioclim_uc, file="extract_mean_45_all_biome.csv", append=FALSE,
quote=TRUE, sep=";")
extract_mean_85_all_bioclim_uc<-extract(pred_85,amazon, fun=mean)
write.table(extract_mean_85_all_bioclim_uc, file="extract_mean_85_all_biome.csv", append=FALSE,
quote=TRUE, sep=";")
extract_mean_present_all_bioclim_uc<-extract(pred,amazon, fun=mean)
write.table(extract_mean_present_all_bioclim_uc, file="extract_mean_present_all_biome.csv", append=FALSE,
quote=TRUE, sep=";")
```

## Seção 7

```
### New Mapinguari ###

library(Mapinguari)

#Cleanpoints

setwd("D:/Analysis_Mapinguari/LMDV_SDM/")
chortulanus_points <- cleanpoints_expanded (spcoord_value =
"D:/Analysis_Mapinguari/LMDV_SDM/distribution_sheets/dist_chortulanus.csv",
                                  altpath_guide_value = "C:/Users/Luisa Diele-
Viegas/Dropbox/mapinguari/dendrobatidae_2_5_min_master_raster_dir/altguide_dendrobatidae_master_res_30
_sec.gri",
                                  km_merge = 2,
                                  minimum_number_entries_value = 1,
                                  alt_range_in_meters_lower_value = NULL,
                                  alt_range_in_meters_higher_value = NULL,
                                  IUCN_range_raster_map_value = NULL,
                                  guide_variable_to_keep_value = NULL,
                                  plot_clean_data_value = TRUE,
                                  out_dir_value = "D:/Analysis_Mapinguari/LMDV_SDM/chortulanus")


####### EXTRAÇÃO DOS VALORES DE ÁREA DE OCORRENCIA EM UCs - NÃO AJUSTADO

############ Extrair valores médios de presença-ausência para as Unidades de Conservação do país
###############
## ler a planilha de shape UCs

library(rgdal)
shape_uc_amazonia <- readOGR("C:/Users/Luisa Diele-Viegas/Google Drive/Shapes/Protection Areas
Panamazonia WWF/PAs_Panamazonia_NoTopo.shp", "PAs_Panamazonia_NoTopo")



### FUNÇÃO DE SELEÇÃO DE UCs e TIs (de acordo com a distribuição)
intersect_points_shapes <- function(coord, circle_size, shapes, key) {

  circulos <- dismo::circles(coord, d = circle_size, lonlat = TRUE)

circulos_intersecao <- rgeos::gUnaryUnion(circulos@polygons)

  circulos_intersecao2 <- sp::spTransform(circulos_intersecao, raster::crs(shape_uc_amazonia))

uc_proximas <- sp::over(circulos_intersecao2, shapes, minDimension = -1, returnList = TRUE)

  uc_selecionadas <- shapes[shapes[[key]] %in% uc_proximas[[1]][[key]], ]

uc_selecionadas

}


#### SELEÇÃO DE UCs e TIs próximas dos pontos de ocorrência ###
uc_selecionadas <- intersect_points_shapes(chortulanus_points[1:2], 15000, shape_uc_amazonia, 1)
tiff('uc_selecionadas.tif')
raster::plot(uc_selecionadas)
```

```
                    dev.off()


#modelagem baseada no artigo de Sinervo et al. 2018

library(dismo)
library(maps)
library(Hmisc)
library(biomod2)
# It the uses the routines in biomod2 to fit a species distribution model
# then it takes the fits from that model to predict the future distribution
# in 2080
e <- extent(-105,-30,-55,20)

G_poly = chortulanus
coordinates(G_poly) = ~ Lon + Lat

setwd("../worldclim/global_grids_30_seconds/")
r1 <- raster("tmax_01.bil")
dataType(r1) <- "INT2S"
r2 <- raster("tmax_02.bil")
dataType(r2) <- "INT2S"
r3 <- raster("tmax_03.bil")
dataType(r3) <- "INT2S"
r4 <- raster("tmax_04.bil")
dataType(r4) <- "INT2S"
r5 <- raster("tmax_05.bil")
dataType(r5) <- "INT2S"
r6 <- raster("tmax_06.bil")
dataType(r6) <- "INT2S"
r7 <- raster("tmax_07.bil")
dataType(r7) <- "INT2S"
r8 <- raster("tmax_08.bil")
dataType(r8) <- "INT2S"
r9 <- raster("tmax_09.bil")
dataType(r9) <- "INT2S"
r10 <- raster("tmax_10.bil")
dataType(r10) <- "INT2S"
r11 <- raster("tmax_11.bil")
dataType(r11) <- "INT2S"
r12 <- raster("tmax_12.bil")
dataType(r12) <- "INT2S"

r1.crop <- aggregate(crop(r1,e),fun=mean,fact=6)/10
r2.crop <- aggregate(crop(r2,e),fun=mean,fact=6)/10
r3.crop <- aggregate(crop(r3,e),fun=mean,fact=6)/10
r4.crop <- aggregate(crop(r4,e),fun=mean,fact=6)/10
r5.crop <- aggregate(crop(r5,e),fun=mean,fact=6)/10
r6.crop <- aggregate(crop(r6,e),fun=mean,fact=6)/10
r7.crop <- aggregate(crop(r7,e),fun=mean,fact=6)/10
r8.crop <- aggregate(crop(r8,e),fun=mean,fact=6)/10
r9.crop <- aggregate(crop(r9,e),fun=mean,fact=6)/10
r10.crop <- aggregate(crop(r10,e),fun=mean,fact=6)/10
r11.crop <- aggregate(crop(r11,e),fun=mean,fact=6)/10
r12.crop <- aggregate(crop(r12,e),fun=mean,fact=6)/10


#compute h_restriction using March/April average tmax from the sigmoidal

# fit I ran in JMP (using the data in the Zimmermann et al. 1994 for G. agassizii
```

```
Tpref = 22.67
#parameters for the 4-parameter Richards growth equation -- sigmoidal curve
# fitted to data for hours of activity regressed on Tmax-Tpref:

# h_a function
Theta1 <- 24 # constrain asymptote to h_a value
Theta2 <- -0.128057505449547
Theta3 <- 0.17711452809626
Theta4 <- -0.355746571402321

# compute all the raster layers of Tmax-Tpref into hours of activity
#
r_ha1.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1.crop-Tpref)))^(1/Theta4)
r_ha2.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2.crop-Tpref)))^(1/Theta4)
r_ha3.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3.crop-Tpref)))^(1/Theta4)
r_ha4.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4.crop-Tpref)))^(1/Theta4)
r_ha5.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5.crop-Tpref)))^(1/Theta4)
r_ha6.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6.crop-Tpref)))^(1/Theta4)
r_ha7.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7.crop-Tpref)))^(1/Theta4)
r_ha8.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8.crop-Tpref)))^(1/Theta4)
r_ha9.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9.crop-Tpref)))^(1/Theta4)
r_ha10.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10.crop-Tpref)))^(1/Theta4)
r_ha11.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11.crop-Tpref)))^(1/Theta4)
r_ha12.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12.crop-Tpref)))^(1/Theta4)

r_ha1.crop[r1.crop < 20] <- 0
r_ha2.crop[r2.crop < 20] <- 0
r_ha3.crop[r3.crop < 20] <- 0
r_ha4.crop[r4.crop < 20] <- 0
r_ha5.crop[r5.crop < 20] <- 0
r_ha6.crop[r6.crop < 20] <- 0
r_ha7.crop[r7.crop < 20] <- 0
r_ha8.crop[r8.crop < 20] <- 0
r_ha9.crop[r9.crop < 20] <- 0
r_ha10.crop[r10.crop < 20] <- 0
r_ha11.crop[r11.crop < 20] <- 0
r_ha12.crop[r12.crop < 20] <- 0

Tpref <- 30 # Tpref derived
#parameters for the 4-parameter Richards growth equation -- sigmoidal curve
# fitted to data for hours of restriction regressed on Tmax-Tpref:

Theta1 <- 12 # constrain asymptote to h_a value
Theta2 <- 4.12874578037074
Theta3 <- 0.293500741987643
Theta4 <- 1.6159356896977



#compute hours of restriction during the breeding season:
r_hr1.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1.crop-Tpref)))^(1/Theta4)
r_hr1.crop[r1.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr2.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2.crop-Tpref)))^(1/Theta4)
r_hr2.crop[r2.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to
rounding error in sigmoidal equation)
r_hr3.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3.crop-Tpref)))^(1/Theta4)
r_hr3.crop[r3.crop < 20] <- 0

r_hr4.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4.crop-Tpref)))^(1/Theta4)
r_hr4.crop[r4.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
```

```
r_hr5.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5.crop-Tpref)))^(1/Theta4)
r_hr5.crop[r5.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr6.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6.crop-Tpref)))^(1/Theta4)
r_hr6.crop[r6.crop < 20] <- 0
r_hr7.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7.crop-Tpref)))^(1/Theta4)
r_hr7.crop[r7.crop < 20] <- 0 #we ran out of memory to calculate that, were it was below of that it comes to zero. Always have to be careful for this things, use Excel.

r_hr8.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8.crop-Tpref)))^(1/Theta4)
r_hr8.crop[r8.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr9.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9.crop-Tpref)))^(1/Theta4)
r_hr9.crop[r8.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr10.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10.crop-Tpref)))^(1/Theta4)
r_hr10.crop[r10.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr11.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11.crop-Tpref)))^(1/Theta4)
r_hr11.crop[r11.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr12.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12.crop-Tpref)))^(1/Theta4)
r_hr12.crop[r12.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)

# sum the hours of activity for the entire year -- activity ellipse

rsum_ha.crop <- (r_ha1.crop+ r_ha2.crop+ r_ha3.crop+ r_ha4.crop+ r_ha5.crop+ r_ha6.crop+ r_ha7.crop+ r_ha8.crop+ r_ha9.crop+ r_ha10.crop+ r_ha11.crop+ r_ha12.crop)
rsum_hr.crop <- (r_hr1.crop+ r_hr2.crop+ r_hr3.crop+ r_hr4.crop+ r_hr5.crop+ r_hr6.crop+ r_hr7.crop+ r_hr8.crop+ r_hr9.crop+ r_hr10.crop+ r_hr11.crop+ r_hr12.crop)

r1_af <- raster("tmax_01_2070_rpc85.tif")
r2_af <- raster("tmax_02_2070_rpc85.tif")
r3_af <- raster("tmax_03_2070_rpc85.tif")
r4_af <- raster("tmax_04_2070_rpc85.tif")
r5_af <- raster("tmax_06_2070_rpc85.tif")
r6_af <- raster("tmax_05_2070_rpc85.tif")
r7_af <- raster("tmax_07_2070_rpc85.tif")
r8_af <- raster("tmax_08_2070_rpc85.tif")
r9_af <- raster("tmax_09_2070_rpc85.tif")
r10_af <- raster("tmax_10_2070_rpc85.tif")
r11_af <- raster("tmax_11_2070_rpc85.tif")
r12_af <- raster("tmax_12_2070_rpc85.tif")

r1_af.crop = aggregate(crop(r1_af,e),fun=mean,fact=6)/10
r2_af.crop = aggregate(crop(r2_af,e),fun=mean,fact=6)/10
r3_af.crop = aggregate(crop(r3_af,e),fun=mean,fact=6)/10
r4_af.crop = aggregate(crop(r4_af,e),fun=mean,fact=6)/10
r5_af.crop = aggregate(crop(r5_af,e),fun=mean,fact=6)/10
r6_af.crop = aggregate(crop(r6_af,e),fun=mean,fact=6)/10
r7_af.crop = aggregate(crop(r7_af,e),fun=mean,fact=6)/10
r8_af.crop = aggregate(crop(r8_af,e),fun=mean,fact=6)/10
r9_af.crop = aggregate(crop(r9_af,e),fun=mean,fact=6)/10
r10_af.crop = aggregate(crop(r10_af,e),fun=mean,fact=6)/10
r11_af.crop = aggregate(crop(r11_af,e),fun=mean,fact=6)/10
r12_af.crop = aggregate(crop(r12_af,e),fun=mean,fact=6)/10

#do the same calculations for the 2080 Tmax - Tpref
# for hours of activity
# h_a function
Theta1 <- 24 # constrain asymptote to h_a value
Theta2 <- -0.128057505449547
```

```
Theta3 <- 0.17711452809626
Theta4 <- -0.355746571402321

Tpref <- 22.67

r_ha1_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1_af.crop-Tpref)))^(1/Theta4)
r_ha2_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2_af.crop-Tpref)))^(1/Theta4)
r_ha3_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3_af.crop-Tpref)))^(1/Theta4)
r_ha4_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4_af.crop-Tpref)))^(1/Theta4)
r_ha5_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5_af.crop-Tpref)))^(1/Theta4)
r_ha6_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6_af.crop-Tpref)))^(1/Theta4)
r_ha7_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7_af.crop-Tpref)))^(1/Theta4)
r_ha8_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8_af.crop-Tpref)))^(1/Theta4)
r_ha9_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9_af.crop-Tpref)))^(1/Theta4)
r_ha10_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10_af.crop-Tpref)))^(1/Theta4)
r_ha11_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11_af.crop-Tpref)))^(1/Theta4)
r_ha12_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12_af.crop-Tpref)))^(1/Theta4)

r_ha1_af.crop[r1_af.crop<20]<- 0

r_ha2_af.crop[r2_af.crop<20]<- 0

r_ha3_af.crop[r3_af.crop<20]<- 0

r_ha4_af.crop[r4_af.crop<20]<- 0

r_ha5_af.crop[r5_af.crop<20]<- 0

r_ha6_af.crop[r6_af.crop<20]<- 0

r_ha7_af.crop[r7_af.crop<20]<- 0

r_ha8_af.crop[r8_af.crop<20]<- 0

r_ha9_af.crop[r9_af.crop<20]<- 0

r_ha10_af.crop[r10_af.crop<20]<- 0

r_ha11_af.crop[r11_af.crop<20]<- 0

r_ha12_af.crop[r12_af.crop<20]<- 0


#do the same calculations for the 2080 Tmax - Tpref
# for hours of restriction
Tpref <- 30 #UCT
Theta1 <- 12 # constrain asymptote to h_a value
Theta2 <- 4.12874578037074
Theta3 <- 0.293500741987643
Theta4 <- 1.6159356896977

r_hr1_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r1_af.crop-Tpref)))^(1/Theta4)
r_hr1_af.crop[r1_af.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr2_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r2_af.crop-Tpref)))^(1/Theta4)
r_hr2_af.crop[r2_af.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due
to rounding error in sigmoidal equation)
r_hr3_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r3_af.crop-Tpref)))^(1/Theta4)
r_hr3_af.crop[r3_af.crop < 20] <- 0

r_hr4_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r4_af.crop-Tpref)))^(1/Theta4)
```

```
r_hr4_af.crop[r4_af.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr5_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r5_af.crop-Tpref)))^(1/Theta4)
r_hr5_af.crop[r5_af.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr6_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r6_af.crop-Tpref)))^(1/Theta4)
r_hr6_af.crop[r6_af.crop < 20] <- 0
r_hr7_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r7_af.crop-Tpref)))^(1/Theta4)
r_hr7_af.crop[r7_af.crop < 20] <- 0 #we ran out of memory to calculate that, were it was below of that it comes to zero. Always have to be careful for this things, use Excel.

r_hr8_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r8_af.crop-Tpref)))^(1/Theta4)
r_hr8_af.crop[r8_af.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr9_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r9_af.crop-Tpref)))^(1/Theta4)
r_hr9_af.crop[r8_af.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error in sigmoidal equation)
r_hr10_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r10_af.crop-Tpref)))^(1/Theta4)
r_hr10_af.crop[r10_af.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr11_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r11_af.crop-Tpref)))^(1/Theta4)
r_hr11_af.crop[r11_af.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not
r_hr12_af.crop <- Theta1/(1+Theta2*exp(-Theta3*(r12_af.crop-Tpref)))^(1/Theta4)
r_hr12_af.crop[r12_af.crop < 20] <- 0  # necessary for very low values of Tmax so that the are not undefined (due to rounding error

rsum_ha_af.crop <- (r_ha1_af.crop+ r_ha2_af.crop+ r_ha3_af.crop+ r_ha4_af.crop+ r_ha5_af.crop+ r_ha6_af.crop+ r_ha7_af.crop+ r_ha8_af.crop+ r_ha9_af.crop+ r_ha10_af.crop+ r_ha11_af.crop+ r_ha12_af.crop)
rsum_hr_af.crop <- (r_hr1_af.crop+ r_hr2_af.crop+ r_hr3_af.crop+ r_hr4_af.crop+ r_hr5_af.crop+ r_hr6_af.crop+ r_hr7_af.crop+ r_hr8_af.crop+ r_hr9_af.crop+ r_hr10_af.crop+ r_hr11_af.crop+ r_hr12_af.crop)

#plot(rsum_ha_af.crop )
#plot(ravg_hr_MayJul_af.crop)


# how get the 1975 data for precipitation
prec5 <- aggregate(crop(raster("prec_05.bil"),e),fun=mean,fact=6)
prec6 <- aggregate(crop(raster("prec_06.bil"),e),fun=mean,fact=6)
prec7 <- aggregate(crop(raster("prec_07.bil"),e),fun=mean,fact=6)
prec8 <- aggregate(crop(raster("prec_08.bil"),e),fun=mean,fact=6)
prec9 <- aggregate(crop(raster("prec_09.bil"),e),fun=mean,fact=6)
r_sum05to09.crop =  prec5 + prec6 + prec7 + prec8 + prec9

prec5_af <- aggregate(crop(raster("prec_05_2070_rpc85.tif"),e),fun=mean,fact=6)
prec6_af <- aggregate(crop(raster("prec_06_2070_rpc85.tif"),e),fun=mean,fact=6)
prec7_af <- aggregate(crop(raster("prec_07_2070_rpc85.tif"),e),fun=mean,fact=6)
prec8_af <- aggregate(crop(raster("prec_08_2070_rpc85.tif"),e),fun=mean,fact=6)
prec9_af <- aggregate(crop(raster("prec_09_2070_rpc85.tif"),e),fun=mean,fact=6)

r_sum05to09_af.crop =  prec5_af + prec6_af + prec7_af + prec8_af + prec9_af

prec10 <- aggregate(crop(raster("prec_10.bil"),e),fun=mean,fact=6)
prec11 <- aggregate(crop(raster("prec_11.bil"),e),fun=mean,fact=6)
prec12 <- aggregate(crop(raster("prec_12.bil"),e),fun=mean,fact=6)
prec01 <- aggregate(crop(raster("prec_01.bil"),e),fun=mean,fact=6)
prec02 <- aggregate(crop(raster("prec_02.bil"),e),fun=mean,fact=6)
prec03 <- aggregate(crop(raster("prec_03.bil"),e),fun=mean,fact=6)
prec04 <- aggregate(crop(raster("prec_04.bil"),e),fun=mean,fact=6)
r_sum10to04.crop =  prec10 + prec11 + prec12 + prec01 + prec02+ prec03 + prec04

prec10_af <- aggregate(crop(raster("prec_10_2070_rpc85.tif"),e),fun=mean,fact=6)
prec11_af <- aggregate(crop(raster("prec_11_2070_rpc85.tif"),e),fun=mean,fact=6)
```

```
prec12_af <- aggregate(crop(raster("prec_12_2070_rpc85.tif"),e),fun=mean,fact=6)
prec01_af <- aggregate(crop(raster("prec_01_2070_rpc85.tif"),e),fun=mean,fact=6)
prec02_af <- aggregate(crop(raster("prec_02_2070_rpc85.tif"),e),fun=mean,fact=6)
prec03_af <- aggregate(crop(raster("prec_03_2070_rpc85.tif"),e),fun=mean,fact=6)
prec04_af <- aggregate(crop(raster("prec_04_2070_rpc85.tif"),e),fun=mean,fact=6)

r_sum10to04_af.crop =  prec10_af + prec11_af + prec12_af + prec01_af + prec02_af+ prec03_af + prec04_af

prec_sum_all.crop = prec10 + prec11 + prec12 + prec01 + prec02+ prec03 + prec04 + prec5 + prec6 + prec7 +
prec8 + prec9
prec_sum_all_af.crop =  prec10_af + prec11_af + prec12_af + prec01_af + prec02_af+ prec03_af + prec04_af +
prec5_af + prec6_af + prec7_af + prec8_af + prec9_af

# now build a four layer brick
# with what will become our predictor variables
# ravg_hr_MayJul.crop_10m <- aggregate(ravg_hr_MayJul.crop,fun=mean,fact=20)
# rsum_ha.crop_10m <- aggregate(rsum_ha.crop,fun=mean,fact=20)
# r_sum10to04.crop_10m <- aggregate(r_sum10to04.crop,fun=mean,fact=20)
# r_sum05to09.crop_10m <- aggregate(r_sum05to09.crop,fun=mean,fact=20)

#NOTE ravg_hr_sum_af.crop_10m is really across the year -- see above
r_obj4.crop <- stack(rsum_hr.crop, rsum_ha.crop, prec_sum_all.crop)

#r_obj4.crop <- stack(ravg_hr_MayJul.crop_10m, rsum_ha.crop_10m, r_sum10to04.crop_10m,
r_sum05to09.crop_10m)
#r_obj4.crop <- stack(ravg_hr_MayJul.crop, rsum_ha.crop, r_sum10to04.crop, r_sum05to09.crop)
names(r_obj4.crop) = c("H-r","H-a","Prec")

#OR now build 7 layers including soil

myExpl <- r_obj4.crop

#plot(ravg_hr_MayJul.crop)
#points(G_poly)
#str(G_poly)

# this code is excerpted directly out of the package biomod2.pdf
# vignettes for fitting SDM
# instead of bioclim variables we use ecophysiology

        myRespXY <- data.frame(Lon = G_poly@coords[,1], Lat = G_poly@coords[,2])
        myResp <- rep(1,nrow(G_poly))  # this column needs to be in the data for
        # the species distribtuion Corallus hortulanus loaded above

        myRespName <- 'Corallus hortulanus'

        # set up the proper test in this case GLM with interactions at level 1 or what I think is things like r_hr x
prec09to02, etc. and quadratic terms
        myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'quadratic',interaction.level =
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace
= FALSE) ))

#       myBiomodOptions<- BIOMOD_ModelingOptions(GLM = list( type = 'simple',interaction.level =
1,myFormula = NULL,test = 'BIC',family = 'binomial',control = glm.control(epsilon = 1e-08,maxit = 1000,trace
= FALSE) ))

        myBiomodData <-BIOMOD_FormatingData(resp.var=myResp,
        expl.var=myExpl,
                        resp.xy = myRespXY,
                        resp.name = myRespName,
```

```
                        PA.nb.rep = 1,
                        PA.nb.absences = 1000,
                        PA.strategy = 'disk',
                        PA.dist.min = 50000,
                        PA.dist.max = 20000000,
                        PA.sre.quant = 0.025,
                        PA.table = NULL,
                        na.rm = TRUE)

#       plot(myBiomodData, cex=2)


        myBiomodModelOut <- BIOMOD_Modeling(myBiomodData,models = c('GLM'),models.options =
myBiomodOptions,NbRunEval=1,DataSplit=100,models.eval.meth = c('ROC'),
do.full.models=FALSE,modeling.id="test")


#myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
#myGLMs_linear <- myGLMs

myGLMs <- BIOMOD_LoadModels(myBiomodModelOut, models=c('GLM'))
myGLMs_quad <- myGLMs

get_formal_model(get(myGLMs))


myBiomodProj <- BIOMOD_Projection(
                modeling.output = myBiomodModelOut,
                new.env = myExpl,
                proj.name = 'current',
                selected.models = 'all',
                binary.meth = 'ROC',
                compress = 'xz',
                clamping.mask = F,
                output.format = '.grd')
        pred = get_predictions(myBiomodProj)[[1]]
        pred_quad = get_predictions(myBiomodProj)[[1]]


quartz()   # delete this command on WINDOWS machines -- use windows()

#       plot(pred/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA)
        plot(pred_quad/1000,col=rainbow(100)[1:70] , axes = F, xlab = NA, ylab = NA, main="Corallus
hortulanus 1975 contemporary")

map("world",add=T)
map("state",add=T)
points(G_poly,pch=21,cex=1, bg="black",col="white")


#Future climate

# do the same kind of object for future climate
# first reduce the resolution -- as before
# ravg_hr_MayJul_af.crop_10m <- aggregate(ravg_hr_MayJul_af.crop,fun=mean,fact=20)
# rsum_ha_af.crop_10m <- aggregate(rsum_ha_af.crop,fun=mean,fact=20)
# r_sum10to04_af.crop_10m <- aggregate(r_sum10to04_af.crop,fun=mean,fact=20)
# r_sum05to09_af.crop_10m <- aggregate(r_sum05to09_af.crop,fun=mean,fact=20)
r_obj4_af.crop <- stack(rsum_hr_af.crop, rsum_ha_af.crop, prec_sum_all_af.crop)
```

```
#r_obj4_af.crop <- stack(ravg_hr_MayJul_af.crop, rsum_ha_af.crop, r_sum10to04_af.crop,
r_sum05to09_af.crop)

# must have exactly the same names!! as used in the 1975 SDM

#names(r_obj4_af.crop) = c("Hours Restriction","Hours Activity","Winter Precip","Summer Precip")
#names(r_obj4_af.crop) = c("Hours Restriction","Hours Activity","Winter Precip","Summer Precip")
names(r_obj4_af.crop) = c("H-r","H-a","Prec")

#Do future climate with soils
# hr_af <- ravg_hr_MayJul_af.crop
# ha_af <- rsum_ha_af.crop
# precW_af <- r_sum10to04_af.crop
# precS_af <- r_sum05to09_af.crop
# hr2_af <- hr_af*hr_af
# ha2_af <- ha_af*ha_af
# precW2_af <- precW_af*precW_af
# precS2_af <- precS_af*precS_af
# hrxprecW_af <- hr_af*precW_af
# hrxprecS_af <- hr_af*precS_af
# haxprecW_af <- ha_af*precW_af
# haxprecS_af <- ha_af*precS_af
# r_obj4_af.crop <- stack(hr_af,ha_af,precW_af,precS_af,hr2_af,ha2_af,precW2_af,precS2_af, hrxprecW_af,
hrxprecS_af, haxprecW_af, haxprecW_af,clay.10m,silt.10m,sand.10m)
# names(r_obj4_af.crop) = c("hr","ha","precW","precS","hr2","ha2","precW2","precS2", "hrxprecW",
"hrxprecS", "haxprecW", "haxprecW","clay","silt","sand")

future.climate = r_obj4_af.crop

myBiomodProj <- BIOMOD_Projection(
modeling.output = myBiomodModelOut,
new.env = future.climate,
proj.name = 'current',
selected.models = 'all',
binary.meth = 'ROC',
compress = 'xz',
clamping.mask = F,
output.format = '.grd')
pred_af = get_predictions(myBiomodProj)[[1]]

quartz() # delete this command on WINDOWS machines

plot(pred_af/1000,col=rainbow(100)[1:70], axes = F, xlab = NA, ylab = NA,main="Corallus hortulanus 2070
RCP 8.5")

map("world",add=T)
map("state",add=T)
points(G_poly,pch=21,cex=1, bg="black",col="white")
```