京都　国設大気測定局における浮遊粒子状物質の金属成分分析結果

| 年 | 月 | (μg/m3) | 分析元素濃度(ng/m$^3$) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SPM | Ag | Al | As | Ba | Br | Ca | Cd | Ce | Cl | Cr | Cs | Co | Cu | Fe | Hf | K | La | Lu | Mn | Na | Ni | Pb | Sb | Sc | Se | Sm | Th | Ti | V | W | Zn |
| 1974 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 昭和49年 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1975 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 昭和50年 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1976 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 昭和51年 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1977 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 昭和52年 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1978 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 昭和53年 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1979 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 昭和54年 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1980 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 昭和55年 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1981 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 昭和56年 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 37 | | 1.0 | 2200 | 9.1 | < | 30 | 11 | 1300 | | 6.8 | 3.1 | 40 | 6.3 | 0.21 | 0.63 | 25 | 1900 | < | 0.2 | 860 | 0.98 | | 0.03 | 56 | 770 | 16 | 290 | 5.2 | 0.43 | 4.1 | 0.18 | 0.35 | 140 | 11 | 0.84 | 280 |
| | 5 | 29 | < | 0.3 | 1000 | 4.6 | | 11 | 8.6 | 660 | | 3.2 | 1.5 | < 10 | 4.9 | < 0.1 | 0.29 | 13 | 1100 | < | 0.05 | 540 | 0.23 | | 0.008 | 36 | 440 | 3.2 | 120 | 7.3 | 0.18 | 3.0 | 0.094 | 0.20 | 72 | 9.0 | 1.6 | 220 |
| | 6 | 25 | < | 0.2 | 460 | 5.0 | < | 20 | 13 | 260 | | 2.1 | 0.4 | 30 | 2.9 | 0.13 | 0.40 | 20 | 730 | < | 0.07 | 300 | 0.44 | < | 0.01 | 36 | 470 | 9.4 | 110 | 7.7 | 0.054 | 3.9 | 0.037 | 0.067 | < 30 | 13 | 1.2 | 290 |
| | 7 | 19 | | 0.39 | 390 | 3.3 | < | 20 | 6.5 | 190 | | 2.9 | 0.50 | 10 | 2.9 | 0.08 | 0.20 | 23 | 470 | | 0.09 | 250 | 0.25 | < | 0.01 | 22 | 610 | 3.0 | 60 | 5.8 | 0.046 | 2.6 | 0.043 | 0.069 | 16 | 8.6 | 0.77 | 180 |
| | 8 | 17 | < | 0.2 | 290 | 3.3 | < | 20 | 8.4 | 100 | | 2.0 | 0.38 | 30 | 1.5 | < 0.06 | 0.26 | 19 | 160 | < | 0.05 | 330 | 0.10 | | 0.009 | 23 | 520 | < 2 | 70 | 4.0 | 0.039 | 1.9 | 0.023 | < 0.03 | 26 | 6.5 | 0.58 | 160 |
| | 9 | 15 | | 0.59 | 250 | 3.5 | < | 20 | 8.9 | 190 | | 1.8 | < 0.5 | 20 | 1.4 | 0.14 | 0.39 | 33 | 280 | | 0.05 | 300 | 0.30 | | 0.02 | 22 | 430 | 3.9 | 90 | 8.9 | 0.037 | 1.1 | < 0.020 | 0.065 | 24 | 5.5 | < 0.20 | 180 |
| | 10 | 27 | < | 0.2 | 430 | 4.4 | | 20 | 12 | 180 | | 4.5 | 0.41 | 40 | 4.4 | < 0.07 | 0.39 | 22 | 340 | | 0.09 | 290 | 0.21 | < | 0.01 | 44 | 630 | 4.5 | 190 | 7.0 | 0.069 | 2.0 | 0.046 | 0.04 | 33 | 7.1 | 0.30 | 280 |
| | 11 | 35 | | 0.3 | 490 | 4.5 | < | 20 | 20 | 200 | | 6.4 | 0.81 | 240 | 6.4 | 0.27 | 0.33 | 33 | 550 | < | 0.08 | 420 | 0.18 | < | 0.01 | 43 | 520 | 4.0 | 150 | 8.0 | 0.062 | 4.9 | 0.038 | 0.12 | 37 | 9.5 | 0.63 | 440 |
| | 12 | 35 | | 0.4 | 450 | 5.0 | | 28 | 19 | 270 | | 6.8 | 0.95 | 210 | 5.7 | < 0.07 | 0.38 | 37 | 360 | < | 0.07 | 410 | 0.35 | < | 0.01 | 37 | 570 | 3.0 | 200 | 10 | 0.070 | 2.8 | 0.036 | < 0.04 | 30 | 9.6 | 0.50 | 350 |
| 1982 | 1 | 26 | | 0.56 | 370 | 4.7 | | 20 | 12 | 350 | | 5.7 | < 0.2 | 180 | 3.9 | 0.09 | 0.26 | 30 | 250 | < | 0.08 | 320 | 0.46 | < | 0.01 | 35 | 670 | 6.5 | 140 | 7.1 | 0.049 | 2.2 | 0.039 | 0.04 | 46 | 9.5 | 0.91 | 360 |
| 昭和57年 | 2 | 27 | | 0.50 | 360 | 4.6 | | 10 | 12 | 160 | | 5.1 | 0.51 | 150 | 4.7 | 0.14 | 0.33 | 29 | 150 | < | 0.07 | 340 | < 0.10 | < | 0.01 | 28 | 460 | < 2 | 170 | 7.1 | 0.068 | 2.6 | 0.035 | 0.05 | 31 | 7.8 | 0.75 | 310 |
| | 3 | 27 | | 0.3 | 510 | 5.1 | < | 50 | 9.1 | 260 | | 4.8 | 0.80 | 30 | 4.7 | 0.1 | 0.31 | 24 | 510 | < | 0.06 | 800 | 0.54 | < | 0.02 | 29 | 760 | 5.0 | 110 | 7.5 | 0.086 | 2.7 | 0.065 | 0.11 | 53 | 6.7 | 0.75 | 270 |
| | 4 | 24 | < | 0.3 | 500 | 5.9 | < | 30 | 11 | 180 | | 3.2 | 0.99 | 90 | 5.7 | 0.08 | 0.56 | 32 | 450 | | 0.06 | 350 | 0.50 | < | 0.03 | 28 | 610 | 8.3 | 70 | 10 | 0.075 | 1.6 | 0.054 | 0.095 | 54 | 9.4 | 0.95 | 260 |
| | 5 | 35 | | 0.4 | 960 | 5.0 | | 20 | 7.0 | 630 | | 4.7 | 1.7 | < 80 | 6.7 | 0.13 | 0.21 | 96 | 830 | | 0.08 | 560 | 1.0 | < | 0.03 | 34 | 560 | 7.5 | 130 | 16 | 0.20 | 2.5 | 0.13 | 0.22 | 63 | 12 | 0.85 | 280 |
| | 6 | 29 | | 0.3 | 430 | 6.6 | < | 20 | 8.6 | 210 | | 4.0 | 0.70 | < 50 | 5.2 | 0.10 | 0.34 | 25 | 440 | < | 0.04 | 410 | 0.23 | < | 0.02 | 24 | 510 | 6.6 | 60 | 7.0 | 0.062 | 1.5 | 0.052 | 0.072 | 35 | 8.9 | 0.94 | 210 |
| | 7 | 24 | | 0.2 | 280 | 4.9 | | 20 | 8.0 | 78 | | 1.6 | 0.51 | 60 | 4.9 | 0.06 | 0.15 | 54 | 340 | < | 0.04 | 440 | 0.39 | < | 0.02 | 25 | 410 | 4.8 | 60 | 8.9 | 0.033 | 1.4 | 0.032 | 0.057 | 31 | 10 | 0.88 | 250 |
| | 8 | 23 | | 0.2 | 280 | 4.1 | < | 20 | 8.6 | 130 | | 3.4 | 0.40 | 50 | 4.6 | < 0.04 | 0.15 | 35 | 340 | < | 0.04 | 320 | 0.32 | < | 0.02 | 23 | 380 | < 2 | 60 | 7.0 | 0.037 | 2.1 | 0.029 | 0.061 | 32 | 8.1 | 0.43 | 230 |
| | 9 | 21 | < | 0.5 | 270 | 1.6 | < | 50 | 11 | < 200 | < | 0.5 | 1.3 | 210 | < 5 | < 0.2 | < 0.4 | < 30 | 250 | < | 0.1 | < 400 | 0.79 | < | 0.03 | 8.2 | 100 | < 2 | < 0.05 | 0.11 | 15 | 2.7 | < 0.5 | 30 |
| | 10 | 31 | | 0.3 | 290 | 6.1 | < | 20 | 12 | 94 | | 2.0 | 0.48 | 120 | 4.7 | 0.07 | 0.29 | 23 | 1300 | < | 0.05 | 400 | 0.36 | < | 0.02 | 32 | 550 | 3.0 | 70 | 11 | 0.040 | 1.6 | 0.029 | 0.063 | 26 | 7.8 | 0.59 | 260 |
| | 11 | 25 | < | 0.5 | 390 | 5.5 | < | 10 | 12 | 250 | | 1.1 | 0.87 | 130 | 3.8 | 0.15 | 0.11 | 48 | 440 | < | 0.05 | 400 | 0.57 | < | 0.01 | 20 | 540 | 6.1 | 80 | 8.7 | 0.062 | 1.8 | 0.034 | 0.081 | 25 | 8.3 | < 0.5 | 310 |
| | 12 | 41 | | 0.5 | 670 | 6.2 | | 20 | 15 | 640 | | 4.2 | 1.6 | 220 | 7.4 | 0.24 | 0.41 | 59 | 660 | | 0.09 | 590 | 1.1 | < | 0.01 | 46 | 600 | 13 | 110 | 12 | 0.13 | 3.5 | 0.057 | 0.12 | 56 | 13 | 2.0 | 590 |
| 1983 | 1 | 28 | | 0.4 | 340 | 6.4 | < | 10 | 12 | 260 | | 4.0 | 0.71 | 220 | 4.4 | 0.18 | 0.31 | 35 | 380 | < | 0.05 | 340 | 0.69 | < | 0.01 | 27 | 520 | 9.0 | 80 | 9.9 | 0.056 | 2.4 | < 0.03 | 0.060 | 24 | 8.9 | 1.1 | 450 |
| 昭和58年 | 2 | 23 | | 0.2 | 400 | 5.5 | < | 10 | 8.4 | 260 | | 0.8 | 0.91 | 100 | 2.0 | 0.09 | 0.23 | 23 | 330 | < | 0.04 | 200 | 0.4 | < | 0.01 | 20 | 420 | 5.0 | 60 | 5.3 | 0.075 | 1.8 | 0.039 | 0.077 | 41 | 8.5 | 0.54 | 250 |
| | 3 | 18 | < | 0.2 | 320 | 3.0 | < | 20 | 8.8 | 270 | < | 0.5 | 0.57 | 80 | 3.5 | < 0.04 | 0.18 | 19 | 270 | < | 0.04 | 300 | 0.31 | < | 0.02 | 19 | 510 | 8.7 | 50 | 7.0 | 0.051 | 1.3 | 0.027 | 0.055 | 24 | 8.2 | < 0.4 | 160 |
| | 4 | 28 | | 0.2 | 720 | 3.4 | < | 9 | 8.6 | 570 | | 2.6 | 0.95 | < 40 | 5.3 | 0.13 | 0.33 | 27 | 540 | | 0.07 | 450 | 0.6 | < | 0.007 | 29 | 630 | 8.8 | 90 | 8.4 | 0.12 | 2.0 | 0.066 | 0.14 | 58 | 10 | 0.4 | 150 |
| | 5 | 27 | < | 0.3 | 800 | 3.6 | | 9 | 7.6 | 680 | | 3.2 | 1.1 | < 40 | 3.8 | 0.14 | 0.49 | 16 | 500 | | 0.05 | 400 | 0.4 | < | 0.007 | 28 | 610 | 5.3 | 40 | 6.9 | 0.13 | 2.0 | 0.066 | 0.16 | 55 | 11 | 0.3 | 120 |
| | 6 | 22 | < | 0.2 | 420 | 4.0 | < | 9 | 6.9 | 360 | | 1.8 | 0.77 | 30 | 4.9 | 0.12 | 0.47 | 15 | 320 | < | 0.04 | 490 | 0.3 | | 0.007 | 20 | 410 | 6.9 | 50 | 7.9 | 0.063 | 1.1 | 0.044 | 0.08 | 40 | 8.9 | 0.7 | 150 |
| | 7 | 25 | | 0.3 | 260 | 4.3 | | 13 | 7.6 | 220 | | 2.8 | 0.66 | < 30 | 3.6 | 0.10 | 0.28 | 29 | 300 | < | 0.04 | 130 | 0.4 | < | 0.008 | 21 | 520 | 6.8 | 60 | 12 | 0.041 | 2.8 | 0.020 | 0.06 | 28 | 12 | 0.8 | 140 |
| | 8 | 19 | | 0.3 | 280 | 5.3 | < | 20 | 4.6 | 180 | | 1.5 | 0.51 | < 30 | 6.3 | 0.06 | 0.24 | 13 | 190 | < | 0.04 | 460 | 0.3 | < | 0.02 | 15 | 370 | 4.0 | 50 | 7.3 | 0.042 | 1.7 | 0.027 | 0.06 | 18 | 7.8 | 0.6 | 87 |
| | 9 | 20 | | 0.3 | 160 | 6.3 | < | 20 | 7.5 | 90 | | 1.5 | 0.44 | 20 | 5.7 | 0.06 | 0.30 | 19 | 170 | < | 0.05 | 210 | 0.2 | < | 0.02 | 15 | 390 | 4.0 | 60 | 12 | 0.029 | 1.4 | 0.019 | < 0.04 | 18 | 7.5 | 0.5 | 120 |
| | 10 | 24 | | 0.3 | 220 | 4.3 | < | 20 | 9.0 | 200 | | 3.2 | 0.46 | 50 | 5.3 | 0.07 | 0.22 | 35 | 230 | < | 0.04 | < 400 | < 0.2 | < | 0.02 | 22 | 520 | 4.3 | 90 | 11 | 0.027 | 1.1 | 0.018 | 0.04 | 26 | 7.9 | < 0.4 | 130 |
| | 11 | 32 | | 0.3 | 240 | 5.6 | < | 20 | 12 | 140 | | 3.6 | 0.66 | 80 | 7.5 | 0.07 | 0.24 | 22 | 260 | < | 0.05 | 490 | 0.2 | | 0.011 | 30 | 420 | 5.0 | 80 | 17 | 0.043 | 1.8 | 0.022 | < 0.04 | 22 | 10 | 0.6 | 200 |
| | 12 | 28 | | 0.6 | 130 | 5.0 | < | 20 | 13 | 160 | | 4.0 | 0.42 | 170 | 4.4 | 0.05 | 0.17 | 26 | 270 | < | 0.05 | < 400 | < 0.2 | < | 0.02 | 29 | 390 | 4.2 | 90 | 13 | 0.021 | 2.5 | 0.015 | < 0.03 | < 20 | 10 | 0.6 | 200 |
| 1984 | 1 | 24 | | 0.2 | 100 | 3.8 | < | 20 | 11 | 140 | | 2.6 | 0.32 | 80 | 3.0 | 0.05 | 0.14 | 19 | 160 | | 0.04 | < 500 | 0.3 | < | 0.02 | 21 | 280 | 3.0 | 70 | 11 | 0.016 | 2.4 | 0.012 | < 0.04 | 10 | 7.3 | 0.5 | 140 |
| 昭和59年 | 2 | 20 | < | 0.2 | 130 | 5.0 | < | 20 | 6.7 | 90 | | 1.5 | 0.31 | 80 | 1.8 | 0.05 | 0.09 | 13 | 140 | < | 0.04 | < 300 | 0.1 | < | 0.02 | 12 | 210 | 3.6 | 80 | 6.1 | 0.023 | 1.2 | 0.012 | < 0.03 | 16 | 4.4 | 0.4 | 120 |
| | 3 | 23 | < | 0.3 | 550 | 7.7 | | 17 | 12 | 370 | | 3.0 | 0.98 | 40 | 3.8 | 0.11 | 0.22 | 25 | 330 | < | 0.05 | 500 | 0.4 | | 0.021 | 27 | 340 | 4.6 | 90 | 10 | 0.087 | 2.0 | 0.048 | 0.12 | 40 | 8.9 | 0.4 | 170 |
| | 4 | 24 | < | 0.2 | 540 | 5.4 | | 10 | 8.4 | 130 | | 1.0 | 0.85 | 40 | 2.8 | 0.05 | 0.22 | 63 | 310 | | 0.04 | 840 | 0.5 | < | 0.007 | 17.0 | 370 | 4.6 | 100 | 12.0 | 0.092 | 1.4 | 0.057 | 0.12 | 54 | 6.6 | 0.4 | 120 |
| | 5 | 22 | | 0.2 | 270 | 3.7 | | 9 | 6.4 | 92 | | 1.4 | 0.67 | 90 | 2.5 | 0.10 | 0.24 | 40 | 260 | < | 0.03 | 410 | 0.3 | < | 0.007 | 19.0 | 320 | 4.6 | 140 | 10.0 | 0.040 | 2.3 | 0.020 | 0.04 | 23 | 9.5 | 0.5 | 110 |
| | 6 | 19 | | 0.3 | 270 | 5.4 | | 8 | 5.4 | 88 | < | 1.0 | 0.54 | 40 | 2.6 | < 0.04 | 0.16 | 18 | 210 | < | 0.03 | 590 | 0.3 | < | 0.006 | 12.0 | 250 | 4.0 | 40 | 11.0 | 0.041 | 2.1 | 0.030 | 0.05 | 16 | 8.6 | 0.8 | 80 |
| | 7 | 14 | | 0.3 | 130 | 5.6 | | 9 | 7.5 | < 70 | < | 1.0 | 0.20 | < 30 | 2.3 | 0.10 | 0.14 | 15 | 110 | < | 0.03 | 210 | 0.2 | | 0.006 | 11.0 | 180 | 7.5 | 40 | 6.0 | 0.020 | 1.7 | 0.017 | < 0.02 | < 10 | 7.1 | 0.2 | 75 |
| | 8 | 17 | | 0.3 | 110 | 3.9 | | 13 | 5.8 | < 30 | < | 1.0 | 0.21 | 30 | 1.6 | 0.04 | 0.06 | 21 | 120 | < | 0.02 | < 300 | 0.2 | < | 0.005 | 12.0 | 210 | 2.2 | 40 | 8.3 | 0.007 | 1.7 | 0.009 | < 0.02 | 17 | 7.0 | 0.6 | 70 |
| | 9 | 17 | | 0.2 | 99 | 6.3 | < | 7 | 7.2 | < 40 | < | 1.0 | 0.53 | 70 | 1.9 | 0.05 | < 0.08 | 13 | 110 | < | 0.03 | 410 | 0.3 | < | 0.007 | 14.0 | 240 | 3.9 | 50 | 11.0 | 0.007 | 1.2 | 0.011 | < 0.02 | 11 | 4.9 | 0.4 | 86 |
| | 10 | 22 | | 0.4 | 84 | 5.6 | < | 6 | 11.0 | < 60 | < | 1.0 | 0.35 | < 20 | 2.1 | 0.08 | 0.11 | 12 | 210 | < | 0.04 | 250 | 0.2 | < | 0.006 | 16.0 | 200 | 3.9 | 110 | 9.2 | 0.016 | 1.8 | 0.020 | < 0.03 | < 10 | 5.1 | 0.4 | 120 |
| | 11 | 25 | | 0.4 | 96 | 7.9 | < | 7 | 19.0 | < 50 | < | 1.0 | < 0.20 | 90 | 3.2 | 0.08 | 0.18 | 32 | 150 | < | 0.04 | 320 | 0.2 | < | 0.007 | 26.0 | 230 | 3.6 | 80 | 12.0 | 0.016 | 1.7 | 0.017 | < 0.03 | 18 | 8.9 | 0.3 | 170 |
| | 12 | 19 | | 0.4 | 62 | 5.9 | < | 8 | 16.0 | < 70 | | 1.8 | < 0.30 | 80 | 2.6 | < 0.07 | 0.22 | 73 | 190 | < | 0.06 | 360 | 0.2 | < | 0.008 | 22.0 | 210 | 3.5 | 110 | 14.0 | 0.011 | 2.1 | 0.012 | < 0.04 | < 20 | 7.1 | 0.6 | 170 |
| 1985 | 1 | 18 | | 0.3 | 74 | 5.7 | < | 5 | 13.0 | 48 | | 1.1 | 0.26 | 80 | 2.2 | 0.07 | 0.16 | 22 | 140 | < | 0.03 | 210 | 0.3 | < | 0.005 | 18.0 | 190 | 1.7 | 50 | 6.5 | 0.010 | 1.7 | 0.009 | < 0.02 | 23 | 6.2 | 0.4 | 140 |
| 昭和60年 | 2 | 22 | < | 0.2 | 85 | 7.8 | < | 6 | 18.0 | < 70 | < | 1.0 | 0.31 | 40 | 2.5 | 0.11 | 0.17 | 15 | 94 | < | 0.04 | 230 | 0.2 | < | 0.007 | 18.0 | 180 | 3.6 | 70 | 8.4 | 0.015 | 1.6 | 0.022 | < 0.03 | 16 | 6.4 | 0.3 | 130 |
| | 3 | 21 | | 0.3 | 210 | 10.0 | < | 10 | 11.0 | 100 | < | 1.0 | 0.48 | 30 | 2.7 | 0.06 | 0.23 | 7 | 210 | < | 0.04 | 280 | 0.2 | < | 0.020 | 20.0 | 230 | 1.8 | 30 | 8.3 | 0.032 | 1.2 | 0.040 | 0.04 | 19 | 6.2 | 0.4 | 110 |
| | 4 | 21 | < | 0.2 | 290 | 9.4 | < | 8 | 7.6 | 220 | | 0.7 | 0.39 | 68 | 3.8 | < 0.04 | 0.34 | 23 | 320 | < | 0.06 | < 400 | 0.5 | < | 0.005 | 20.0 | 300 | 5.5 | 40 | 14.0 | 0.054 | 1.6 | 0.045 | 0.05 | 24 | 7.5 | 0.7 | 140 |
| | 5 | 23 | < | 0.2 | 320 | 6.5 | < | 8 | 7.2 | 110 | | 2.6 | 0.67 | 48 | 4.7 | 0.08 | 0.37 | 28 | 370 | < | 0.06 | < 400 | 0.4 | < | 0.005 | 19.0 | 340 | 5.5 | 50 | 13.0 | 0.055 | 2.7 | 0.036 | 0.08 | 27 | 8.8 | 0.4 | 160 |
| | 6 | 19 | < | 0.2 | 110 | 6.4 | < | 9 | 5.8 | 69 | < | 0.5 | 0.39 | 46 | 3.5 | 0.07 | 0.39 | 18 | 360 | < | 0.06 | 400 | 0.2 | < | 0.007 | 14.0 | 170 | 3.4 | 40 | 14.0 | 0.020 | 2.0 | 0.023 | 0.04 | 19 | 6.5 | 0.6 | 130 |
| | 7 | 24 | | 0.2 | 230 | 8.5 | | 22 | 6.9 | 49 | | 1.8 | 0.63 | 20 | 4.8 | 0.09 | 0.26 | 17 | 370 | < | 0.06 | < 400 | 0.6 | < | 0.007 | 18.0 | 330 | 6.9 | 50 | 22.0 | 0.041 | 3.5 | 0.034 | 0.04 | 21 | 12.0 | 1.0 | 150 |
| | 8 | 15 | < | 0.2 | 200 | 6.2 | | 10 | 4.6 | < 20 | | 2.3 | 0.32 | 35 | 3.6 | 0.05 | 0.18 | 25 | 170 | < | 0.04 | 530 | 0.2 | < | 0.005 | 9.9 | 240 | 3.1 | 60 | 11.0 | 0.028 | 1.4 | 0.022 | < 0.03 | 13 | 5.4 | 0.4 | 73 |
| | 9 | 15 | | 0.2 | 120 | 8.9 | < | 10 | 6.8 | < 20 | < | 0.5 | 0.28 | 28 | 2.6 | 0.07 | 0.22 | 21 | 140 | < | 0.05 | < 200 | 0.3 | < | 0.007 | 14.0 | 190 | 4.9 | 80 | 19.0 | 0.016 | 1.4 | 0.014 | < 0.03 | 15 | 5.9 | 0.6 | 120 |
| | 10 | 19 | | 0.2 | 160 | 12.0 | < | 10 | 8.9 | 60 | | 2.2 | 0.53 | 46 | 2.9 | < 0.04 | 0.20 | 26 | 170 | < | 0.05 | 180 | 0.3 | < | 0.010 | 18.0 | 280 | 3.4 | 70 | 15.0 | 0.019 | 1.1 | 0.023 | < 0.03 | 21 | 6.7 | 0.4 | 120 |
| | 11 | 20 | | 0.3 | 110 | 7.6 | < | 10 | 11.0 | 71 | | 1.0 | 0.33 | 90 | 3.2 | 0.07 | 0.15 | 20 | 220 | < | 0.05 | 230 | 0.4 | < | 0.010 | 19.0 | 300 | 5.0 | 40 | 14.0 | 0.011 | 1.6 | 0.014 | < 0.03 | < 10 | 6.9 | 0.7 | 150 |
| | 12 | 22 | | 0.4 | 150 | 9.3 | < | 10 | 11.0 | 26 | | 1.0 | 0.32 | 210 | 2.4 | < 0.04 | < 0.10 | 17 | 120 | < | 0.05 | 410 | 0.3 | < | 0.010 | 21.0 | 280 | 3.3 | 70 | 18.0 | 0.018 | 1.7 | 0.026 | < 0.03 | 15 | 7.0 | 0.8 | 140 |
| 1986 | 1 | 17 | < | 0.2 | 190 | 8.2 | < | 20 | 9.4 | 56 | | 1.9 | 0.42 | 120 | 3.3 | 0.06 | 0.36 | 20 | 220 | < | 0.06 | 550 | 0.3 | < | 0.020 | 20.0 | 280 | 4.8 | 30 | 19.0 | 0.028 | 2.0 | 0.029 | < 0.04 | 12 | 7.3 | 1.0 | 170 |
| 昭和61年 | 2 | 14 | | 0.2 | 240 | 6.7 | < | 10 | 7.8 | 72 | | 1.1 | 0.54 | 110 | 2.2 | < 0.05 | 0.19 | 26 | 200 | < | 0.06 | 270 | 0.4 | < | 0.010 | 18.0 | 210 | 4.3 | 50 | 18.0 | 0.034 | 1.7 | 0.034 | < 0.03 | 18 | 6.8 | 0.9 | 130 |
| | 3 | 18 | < | 0.2 | 250 | 7.1 | < | 10 | 9.1 | < 40 | | 1.3 | 0.30 | 91 | 4.7 | 0.08 | 0.42 | 16 | 260 | < | 0.06 | < 200 | 0.2 | < | 0.010 | 18.0 | 270 | 6.2 | 50 | 12.0 | 0.044 | 1.2 | 0.034 | 0.07 | 22 | 6.0 | 0.7 | 160 |
| | 4 | 26 | | 0.4 | 730 | 6.3 | < | 20 | 9.5 | 410 | | 1.0 | 0.81 | < 20 | 8.3 | 0.14 | 0.34 | 20 | 620 | < | 0.05 | 530 | 0.60 | | 0.016 | 28 | 450 | 5.8 | 63 | 12 | 0.13 | 1.8 | 0.080 | 0.11 | 66 | 7.3 | 0.50 | 160 |
| | 5 | 23 | | 0.3 | 450 | 6.4 | < | 10 | 6.8 | 330 | < | 0.5 | 0.85 | 48 | 6.8 | 0.11 | 0.55 | 18 | 530 | | 0.06 | 560 | 0.63 | < | 0.01 | 20 | 620 | 5.4 | 55 | 9.4 | 0.093 | 1.5 | 0.057 | 0.10 | 37 | 5.7 | 0.47 | 130 |
| | 6 | 27 | | 0.4 | 380 | 9.4 | < | 20 | 8.8 | 210 | | 1.1 | 1.1 | 65 | 8.5 | 0.11 | 0.29 | 25 | 420 | < | 0.05 | < 300 | 0.29 | < | 0.02 | 24 | 510 | 6.5 | 49 | 14 | 0.060 | 2.6 | 0.061 | 0.082 | 46 | 7.6 | 0.92 | 150 |
| | 7 | 22 | < | 0.2 | 250 | 9.7 | < | 20 | 7.1 | 160 | | 1.1 | 0.68 | 22 | 6.5 | < 0.05 | 0.33 | 24 | 450 | < | 0.05 | 600 | 0.26 | < | 0.02 | 18 | 430 | 6.9 | 54 | 12 | 0.044 | 1.8 | 0.037 | < 0.03 | 28 | 8.0 | 0.71 | 150 |
| | 8 | 18 | | 0.4 | 350 | 5.5 | < | 20 | 5.2 | 270 | | 1.1 | 0.89 | 35 | 4.3 | 0.07 | 1.2 | 24 | 380 | | 0.05 | < 200 | 0.47 | < | 0.02 | 13 | 620 | 4.3 | 47 | 12 | 0.065 | 1.3 | 0.053 | 0.059 | 39 | 4.6 | 0.41 | 100 |
| | 9 | 28 | | 0.4 | 340 | 8.4 | < | 20 | 7.7 | 180 | | 1.3 | 0.49 | 62 | 4.4 | 0.12 | 0.83 | 21 | 420 | < | 0.05 | < 200 | 0.38 | | 0.024 | 19 | 490 | 5.8 | 46 | 12 | 0.063 | 1.3 | 0.048 | 0.057 | 46 | 5.2 | 0.43 | 150 |
| | 10 | 28 | | 0.3 | 330 | 6.7 | < | 30 | 9.1 | 260 | | 0.8 | 1.2 | 73 | 7.7 | < 0.06 | 5.9 | 18 | 380 | < | 0.06 | < 300 | < 0.3 | < | 0.04 | 19 | 660 | 5.3 | 69 | 12 | 0.066 | 1.1 | 0.039 | 0.091 | 41 | 4.9 | < 0.3 | 180 |
| | 11 | 37 | < | 0.3 | 400 | 8.5 | < | 30 | 11 | 270 | | 0.9 | 0.68 | 120 | 7.3 | 0.08 | 0.57 | 36 | 440 | < | 0.07 | 330 | 0.42 | | 0.054 | 28 | 660 | 12 | 86 | 17 | 0.078 | 1.4 | 0.052 | 0.057 | 47 | 6.5 | 1.0 | 260 |
| | 12 | 37 | | 0.5 | 370 | 8.4 | < | 30 | 13 | 370 | | 0.9 | 1.0 | 210 | 6.5 | 0.08 | 0.60 | 36 | 410 | < | 0.06 | 520 | 0.36 | < | 0.04 | 27 | 690 | 6.3 | 98 | 17 | 0.064 | 2.0 | 0.054 | 0.056 | 32 | 6.6 | 0.87 | 300 |
| 1987 | 1 | 28 | | 0.5 | 470 | 6.8 | < | 30 | 9.6 | 350 | | 2.1 | 1.5 | 83 | 9.5 | 0.08 | 1.7 | 26 | 560 | < | 0.07 | < 300 | 0.47 | < | 0.04 | 25 | 560 | 5.9 | 66 | 16 | 0.11 | 1.2 | 0.064 | 0.11 | 48 | 6.7 | 1.0 | 220 |
| 昭和62年 | 2 | 35 | | 0.4 | 670 | 10 | < | 30 | 9.9 | 490 | | 1.5 | 0.93 | 86 | 7.2 | 0.10 | 1.1 | 16 | 750 | < | 0.06 | 530 | 0.54 | < | 0.04 | 32 | 690 | 6.6 | 99 | 13 | 0.12 | 1.7 | 0.10 | 0.13 | 44 | 8.2 | 1.2 | 210 |
| | 3 | 36 | < | 0.3 | 850 | 7.6 | < | 30 | 11 | 480 | | 0.5 | 1.2 | 96 | 4.7 | 0.08 | 0.37 | 20 | 560 | | 0.06 | 400 | 0.50 | < | 0.04 | 28 | 750 | 7.2 | 66 | 10 | 0.13 | 1.4 | 0.089 | 0.16 | 72 | 9.0 | 0.90 | 160 |
| | 4 | 38 | < | 0.3 | 880 | 3.7 | < | 30 | 7.8 | 490 | | 0.6 | 1.4 | 40 | 5.8 | 0.20 | 0.84 | 23 | 650 | < | 0.05 | 480 | 0.44 | < | 0.01 | 27 | 650 | 5.6 | 68 | 13 | 0.17 | 2.3 | 0.088 | 0.16 | 80 | 8.5 | 0.48 | 210 |
| | 5 | 30 | | 0.3 | 500 | 3.4 | < | 20 | 8.0 | 310 | | 1.6 | 0.92 | 54 | 3.8 | 0.11 | 0.73 | 20 | 530 | < | 0.05 | 370 | 0.40 | < | 0.02 | 21 | 500 | 4.4 | 58 | 11 | 0.075 | 2.3 | 0.065 | 0.099 | 46 | 9.1 | 0.52 | 180 |
| | 6 | 37 | < | 0.3 | 1100 | 3.1 | < | 30 | 5.5 | 360 | < | 0.5 | 1.8 | 18 | 3.9 | 0.19 | 0.28 | < 10 | 670 | < | 0.05 | 620 | 0.68 | < | 0.03 | 23 | 540 | 4.5 | 55 | 9.5 | 0.21 | 2.0 | 0.097 | 0.20 | 61 | 8.2 | 0.60 | 140 |
| | 7 | 29 | | 0.3 | 660 | 2.6 | < | 20 | 5.2 | 210 | < | 0.5 | 0.99 | < 10 | 2.4 | 0.09 | 0.20 | < 10 | 400 | < | 0.04 | 440 | 0.30 | < | 0.003 | 17 | 580 | 4.4 | 45 | 10 | 0.097 | 2.0 | 0.061 | 0.12 | 45 | 6.6 | 0.33 | 120 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 30 | < | 0.2 | 500 | 2.8 | < | 20 | 6.2 | 190 | | 1.0 | 0.73 | < | 10 | 2.1 | 0.10 | 0.42 | < | 10 | 360 | < | 0.04 | 420 | 0.38 | < | 0.03 | 18 | 510 | 4.8 | 52 | 13 | 0.080 | 2.5 | 0.058 | 0.085 | 46 | 7.3 | | 0.47 | 140 |
| | 9 | 30 | | 0.4 | 790 | 2.4 | < | 20 | 4.9 | 270 | < | 0.5 | 1.0 | | 15 | 2.3 | 0.09 | 0.41 | < | 10 | 540 | < | 0.05 | 480 | 0.52 | < | 0.02 | 14 | 680 | 2.6 | 52 | 9.5 | 0.14 | 1.6 | 0.064 | 0.12 | 58 | 4.7 | < | 0.3 | 150 |
| | 10 | 39 | | 0.6 | 760 | 5.5 | < | 20 | 8.9 | 220 | < | 0.5 | 1.4 | | 62 | 2.1 | 0.10 | 0.43 | < | 10 | 640 | | 0.09 | 630 | 0.45 | < | 0.01 | 24 | 570 | 3.1 | 79 | 13 | 0.15 | 1.9 | 0.084 | 0.16 | 68 | 6.6 | | 0.70 | 220 |
| | 11 | 44 | | 0.7 | 930 | 10 | | 22 | 10 | 300 | | 3.9 | 1.7 | | 150 | 2.7 | 0.12 | 0.40 | | 23 | 770 | < | 0.07 | 330 | 0.35 | < | 0.01 | 30 | 670 | 5.2 | 98 | 16 | 0.18 | 1.7 | 0.10 | 0.16 | 74 | 8.7 | | 0.64 | 300 |
| | 12 | 36 | | 0.5 | 480 | 7.4 | < | 20 | 13 | 290 | | 3.8 | 0.91 | | 180 | 3.0 | 0.16 | 0.25 | | 26 | 510 | < | 0.04 | 300 | 0.31 | < | 0.09 | 31 | 440 | 6.2 | 110 | 19 | 0.072 | 2.7 | 0.045 | 0.082 | 49 | 9.9 | | 0.71 | 300 |
| 1988 | 1 | 36 | | 0.3 | 670 | 7.8 | < | 20 | 12 | 350 | | 2.6 | 1.1 | | 150 | 5.0 | 0.10 | 0.38 | | 27 | 630 | < | 0.06 | 500 | 0.48 | < | 0.02 | 31 | 600 | 5.1 | 98 | 20 | 0.11 | 2.3 | 0.073 | 0.12 | 70 | 8.9 | | 1.5 | 240 |
| 昭和63年 | 2 | 27 | | 0.3 | 470 | 5.6 | < | 20 | 7.1 | 280 | | 2.1 | 0.89 | | 67 | < 0.6 | < | 0.04 | 0.42 | | 24 | 450 | < | 0.04 | < 200 | 0.18 | < | 0.01 | 16 | 460 | 2.1 | 49 | 12 | 0.066 | 1.4 | 0.048 | 0.062 | 36 | 5.1 | | 0.80 | 150 |
| | 3 | 30 | | 0.3 | 810 | 7.6 | < | 20 | 8.5 | 410 | | 3.3 | 1.2 | | 58 | 5.6 | 0.10 | 0.48 | < | 10 | 660 | | 0.06 | 240 | 0.21 | < | 0.004 | 22 | 730 | 2.9 | 56 | 11 | 0.15 | 1.9 | 0.084 | 0.14 | 72 | 5.3 | | 0.87 | 160 |
| | 4 | 56 | < | 0.3 | 2600 | 5.9 | | 25 | 8.1 | 1300 | | 1.9 | 3.0 | | 76 | 4.6 | 0.28 | 0.69 | | 18 | 1600 | | 0.09 | 830 | 1.5 | | 0.0031 | 48 | 920 | 8.4 | 38 | 9.1 | 0.42 | 1.8 | 0.27 | 0.39 | 170 | 9.6 | | 0.64 | 160 |
| | 5 | 30 | < | 0.2 | 790 | 4.2 | < | 10 | 5.2 | 350 | | 2.2 | 1.3 | | 44 | 2.5 | 0.10 | 0.51 | | 25 | 710 | < | 0.05 | 440 | 0.53 | < | 0.001 | 21 | 520 | 4.9 | 63 | 10 | 0.13 | 1.3 | 0.097 | 0.14 | 52 | 5.3 | | 0.46 | 140 |
| | 6 | 28 | | 0.3 | 430 | 3.6 | < | 10 | 5.7 | 190 | | 1.7 | 0.61 | | 64 | 3.4 | < 0.05 | 0.20 | | 18 | 480 | | 0.06 | 310 | 0.33 | < | 0.001 | 18 | 340 | 6.0 | 53 | 9.6 | 0.068 | 1.5 | 0.057 | 0.067 | 35 | 6.1 | | 0.47 | 110 |
| | 7 | 25 | < | 0.2 | 160 | 2.8 | < | 8 | 4.8 | < 60 | | 1.5 | 0.29 | | 24 | 2.8 | < 0.04 | < 0.1 | | 16 | 270 | < | 0.03 | 250 | 0.25 | < | 0.001 | 13 | 290 | 4.4 | 44 | 8.3 | 0.025 | 1.6 | 0.026 | 0.032 | 24 | 5.4 | | 0.49 | 98 |
| | 8 | 24 | | 0.3 | 200 | 3.0 | | 13 | 5.5 | < 40 | | 1.5 | 0.36 | | 25 | 2.7 | 0.06 | < 0.1 | | 16 | 290 | < | 0.04 | 300 | < 0.1 | < | 0.001 | 13 | 400 | 3.7 | 44 | 7.8 | 0.025 | 1.5 | 0.022 | 0.043 | 23 | 4.5 | | 0.47 | 92 |
| | 9 | 19 | | 0.2 | 110 | 2.3 | < | 7 | 4.4 | 130 | | 1.7 | < 0.2 | | 33 | 1.7 | < 0.03 | 0.16 | | 12 | 220 | < | 0.03 | 280 | 0.19 | < | 0.001 | 9.3 | 440 | 2.4 | 40 | 7.7 | 0.015 | 0.8 | 0.016 | 0.029 | 20 | 2.4 | | 0.31 | 98 |
| | 10 | 29 | | 0.3 | 250 | 4.3 | < | 10 | 10 | < 50 | | 2.1 | 1.0 | | 100 | 3.4 | 0.07 | 0.34 | | 21 | 330 | < | 0.05 | 220 | 0.19 | < | 0.001 | 22 | 540 | 3.9 | 63 | 12 | 0.044 | 1.4 | 0.032 | 0.064 | 40 | 4.4 | | 0.51 | 200 |
| | 11 | 31 | | 0.3 | 420 | 6.1 | | 18 | 11 | < 70 | | 1.9 | 0.79 | | 140 | 5.1 | 0.13 | 0.26 | | 27 | 550 | | 0.06 | < 500 | 0.50 | < | 0.001 | 25 | 810 | 3.5 | 67 | 13 | 0.075 | 2.1 | 0.067 | 0.077 | 43 | 4.2 | | 0.50 | 210 |
| | 12 | 42 | | 0.6 | 370 | 5.9 | < | 20 | 16 | < 90 | | 4.6 | 1.2 | | 330 | 8.0 | < 0.07 | 0.38 | | 39 | 570 | < | 0.06 | 210 | 0.23 | < | 0.002 | 41 | 500 | 8.4 | 120 | 17 | 0.056 | 2.8 | 0.048 | 0.065 | 42 | 7.5 | | 0.65 | 310 |
| 1989 | 1 | 26 | | 0.5 | 220 | 3.9 | < | 20 | 9.9 | 170 | | 1.4 | 0.87 | | 160 | 3.6 | 0.05 | 0.23 | | 20 | 470 | < | 0.04 | < 400 | 0.23 | < | 0.001 | 19 | 600 | 3.5 | 67 | 12 | 0.040 | 1.9 | 0.033 | 0.031 | 22 | 4.6 | | 0.42 | 180 |
| 平成元年 | 2 | 24 | < | 0.2 | 210 | 4.4 | < | 20 | 6.4 | 180 | | 2.2 | 0.82 | | 110 | 3.2 | 0.06 | 0.31 | | 15 | 350 | | 0.06 | < 400 | 0.28 | < | 0.001 | 16 | 520 | 1.5 | 47 | 9.6 | 0.044 | 1.2 | 0.041 | < 0.03 | < | 10 | 3.4 | | 0.69 | 140 |
| | 3 | 29 | | 0.2 | 430 | 4.3 | | 17 | 7.8 | 380 | | 1.5 | 0.76 | | 98 | 2.2 | 0.12 | 0.37 | | 14 | 570 | < | 0.04 | < 200 | 0.39 | < | 0.001 | 20 | 720 | 2.2 | 55 | 8.1 | 0.070 | 1.2 | 0.056 | 0.075 | 34 | 4.0 | | 0.61 | 92 |
| | 4 | 35 | < | 0.4 | 720 | 4.5 | | 31 | 8.2 | 490 | | 1.0 | 2.2 | | 31 | 5.6 | 0.14 | 0.58 | | 18 | 780 | | 0.10 | 380 | 0.58 | < | 0.02 | 24 | 740 | 5.4 | 56 | 12 | 0.17 | 3.0 | 0.094 | 0.16 | 70 | 0.43 | | 0.54 | 190 |
| | 5 | 29 | < | 0.4 | 370 | 4.8 | | 24 | 9.4 | < 70 | | 1.1 | 1.4 | | 19 | 3.7 | 0.11 | 0.26 | | 21 | 480 | < | 0.08 | 270 | 0.42 | < | 0.02 | 22 | 410 | 5.3 | 60 | 18 | 0.062 | 2.0 | 0.051 | 0.12 | 35 | 6.2 | | 0.59 | 200 |
| | 6 | 25 | | 0.5 | 720 | 4.1 | < | 20 | 9.0 | < 80 | | 1.1 | < 0.3 | < | 20 | < 0.9 | 0.07 | 0.38 | | 27 | 230 | < | 0.05 | 260 | 0.22 | < | 0.02 | 12 | 420 | 3.1 | 39 | 8.6 | 0.014 | 1.1 | 0.028 | < 0.03 | 45 | 7.9 | < | 0.2 | 95 |
| | 7 | 21 | | 0.3 | 170 | 3.1 | < | 10 | 8.1 | 180 | | 0.7 | 0.94 | < | 20 | 1.9 | 0.08 | 0.54 | | 19 | 210 | < | 0.05 | 220 | 0.39 | < | 0.02 | 15 | 430 | 4.0 | 38 | 10 | 0.028 | 2.0 | 0.023 | < 0.06 | 27 | 4.8 | | 0.47 | 130 |
| | 8 | 22 | < | 0.3 | 250 | 3.5 | | 26 | 8.0 | < 100 | | 1.0 | 0.56 | | 46 | 3.4 | 0.13 | < 0.2 | | 14 | 240 | | 0.07 | 260 | 0.26 | < | 0.02 | 15 | 490 | 4.3 | 42 | 11 | 0.032 | 2.0 | 0.030 | < 0.04 | < | 20 | 5.4 | < | 0.2 | 110 |
| | 9 | 23 | | 0.5 | 260 | 3.1 | < | 20 | 12 | 180 | | 0.8 | 1.2 | | 71 | 3.3 | 0.08 | 0.25 | | 31 | 350 | < | 0.07 | 270 | < 0.2 | < | 0.02 | 24 | 570 | 4.1 | 56 | 13 | 0.032 | 2.7 | 0.020 | 0.045 | 42 | 6.6 | | 0.35 | 160 |
| | 10 | 32 | < | 0.4 | 270 | 4.4 | < | 20 | 22 | 210 | | 1.7 | 1.8 | | 57 | 3.9 | < 0.09 | 0.27 | | 16 | 430 | < | 0.09 | 220 | 0.39 | < | 0.02 | 23 | 730 | 22 | 80 | 18 | 0.061 | 1.9 | 0.034 | < 0.05 | < | 20 | 4.6 | < | 0.3 | 230 |
| | 11 | 36 | < | 0.5 | 200 | 4.1 | < | 20 | 15 | 150 | | 2.0 | 1.9 | | 120 | 4.9 | 0.10 | 0.40 | | 15 | 440 | < | 0.1 | 260 | 0.56 | < | 0.02 | 20 | 640 | 4.0 | 83 | 25 | 0.041 | 3.2 | 0.035 | 0.075 | 20 | 3.7 | < | 0.3 | 260 |
| | 12 | 39 | < | 0.4 | 330 | 5.5 | < | 20 | 12 | 210 | | 2.0 | 1.7 | | 540 | 3.9 | 0.14 | < 0.3 | | 16 | 490 | < | 0.08 | 300 | 1.1 | < | 0.02 | 22 | 600 | 4.7 | 94 | 23 | 0.074 | 2.8 | 0.070 | 0.12 | 28 | 3.7 | | 0.69 | 240 |
| 1990 | 1 | 24 | | 0.7 | 400 | 5.3 | < | 20 | 19 | 180 | | 1.3 | 1.1 | | 290 | 1.5 | 0.13 | 0.37 | | 23 | 290 | < | 0.09 | 290 | 0.29 | < | 0.02 | 26 | 490 | 4.4 | 62 | 22 | 0.056 | 1.6 | 0.053 | 0.084 | 51 | 5.8 | | 0.54 | 180 |
| 平成2年 | 2 | 21 | | 0.3 | 430 | 2.6 | < | 10 | 13 | 330 | | 0.7 | 1.2 | | 380 | 4.4 | 0.11 | 0.27 | | 27 | 310 | < | 0.07 | 260 | 0.37 | < | 0.02 | 22 | 380 | 3.6 | 52 | 12 | 0.067 | 1.5 | 0.043 | 0.079 | 42 | 4.3 | | 0.27 | 120 |
| | 3 | 37 | | 0.4 | 700 | 4.1 | < | 20 | 16 | 470 | | 1.4 | 1.7 | | 190 | 5.6 | 0.15 | 0.41 | | 30 | 580 | < | 0.08 | 290 | 0.58 | < | 0.02 | 32 | 670 | 5.7 | 64 | 10 | 0.11 | 3.3 | 0.063 | 0.20 | 68 | 6.0 | | 0.49 | 170 |
| | 4 | 34 | < | 0.3 | 1000 | 4.1 | | 13 | 16 | 670 | | 0.7 | 1.9 | < | 40 | 1.6 | 0.20 | < 0.2 | | 34 | 820 | < | 0.07 | 490 | 0.58 | < | 0.01 | 35 | 700 | 6.1 | 78 | 15 | 0.17 | 2.1 | 0.11 | 0.26 | 58 | 6.8 | | 0.62 | 130 |
| | 5 | 31 | | 0.4 | 520 | 4.8 | | 15 | 13 | 410 | | 1.4 | 1.4 | < | 30 | 4.9 | 0.12 | 0.35 | | 26 | 700 | < | 0.07 | 430 | 0.46 | | 0.011 | 32 | 530 | 6.9 | 83 | 13 | 0.092 | 2.2 | 0.069 | < 0.07 | 46 | 8.9 | | 0.90 | 170 |
| | 6 | 26 | < | 0.3 | 300 | 3.1 | < | 10 | 12 | 210 | | 1.0 | 0.88 | < | 30 | 2.6 | 0.08 | < 0.2 | | 20 | 430 | | 0.07 | 230 | 0.30 | < | 0.01 | 22 | 540 | 5.9 | 53 | 9.1 | 0.041 | 2.0 | 0.043 | 0.084 | 41 | 7.8 | | 0.65 | 110 |
| | 7 | 35 | | 0.3 | 300 | 4.9 | | 19 | 10 | 260 | | 1.0 | 1.1 | < | 30 | 2.8 | 0.13 | 0.26 | | 19 | 610 | < | 0.06 | 400 | 0.37 | < | 0.01 | 19 | 650 | 6.7 | 57 | 10 | 0.059 | 3.2 | 0.035 | 0.067 | 19 | 8.1 | | 0.86 | 130 |
| | 8 | 26 | < | 0.2 | 260 | 3.0 | | 20 | 7.6 | 140 | | 0.7 | < 0.4 | < | 20 | 0.92 | 0.14 | 0.24 | | 9.2 | 240 | < | 0.06 | 310 | 0.29 | < | 0.01 | 15 | 660 | 4.3 | 43 | 9.6 | 0.036 | 1.7 | 0.028 | < 0.06 | 32 | 4.1 | | 0.40 | 82 |
| | 9 | 27 | | 0.3 | 150 | 3.2 | < | 10 | 9.7 | < 70 | | 0.8 | < 0.4 | < | 20 | 1.4 | 0.06 | 0.48 | | 17 | 250 | < | 0.07 | 200 | < 0.1 | < | 0.009 | 16 | 450 | 3.1 | 51 | 11 | 0.024 | 1.9 | 0.017 | < 0.07 | 40 | 3.6 | | 0.19 | 100 |
| | 10 | 30 | | 0.5 | 220 | 4.0 | < | 20 | 19 | 180 | | 0.9 | < 0.5 | | 65 | 3.4 | < 0.07 | 0.35 | | 30 | 370 | | 0.09 | 380 | 0.28 | < | 0.01 | 20 | 600 | 3.2 | 65 | 22 | 0.029 | 1.2 | 0.034 | < 0.08 | 35 | 3.8 | | 0.55 | 190 |
| | 11 | 30 | | 0.7 | 380 | 4.9 | < | 20 | 25 | 270 | | 1.5 | 0.67 | | 100 | 4.3 | 0.17 | 0.46 | | 23 | 590 | < | 0.08 | 510 | 0.47 | < | 0.01 | 37 | 610 | 7.0 | 98 | 19 | 0.046 | 3.3 | 0.045 | 0.11 | 43 | 7.0 | | 0.60 | 280 |
| | 12 | 25 | | 0.8 | 320 | 7.0 | < | 20 | 23 | 230 | | 2.2 | 0.76 | | 160 | 2.9 | < 0.1 | < 0.3 | | 28 | 520 | < | 0.09 | 360 | 0.41 | < | 0.02 | 41 | 410 | 9.6 | 120 | 26 | 0.046 | 1.8 | 0.049 | < 0.1 | 27 | 7.7 | | 1.3 | 260 |
| 1991 | 1 | 22 | | 0.3 | 280 | 4.0 | < | 10 | 14 | 290 | | 0.8 | 0.62 | | 120 | 1.2 | 0.09 | 0.27 | | 15 | 240 | < | 0.06 | 220 | 0.27 | < | 0.008 | 18 | 560 | 3.5 | 53 | 9.3 | 0.046 | 1.3 | 0.040 | 0.069 | 16 | 3.7 | | 0.74 | 100 |
| 平成3年 | 2 | 23 | | 0.3 | 370 | 6.3 | < | 10 | 13 | 290 | | 1.1 | 0.74 | | 110 | 2.7 | < 0.06 | < 0.2 | | 15 | 350 | < | 0.06 | 280 | 0.33 | < | 0.01 | 24 | 690 | 4.5 | 57 | 10 | 0.038 | 1.8 | 0.055 | 0.087 | 25 | 4.7 | | 0.92 | 110 |
| | 3 | 23 | | 0.6 | 390 | 5.7 | < | 10 | 13 | 320 | | 0.7 | 0.67 | | 50 | 4.3 | < 0.08 | 0.42 | | 24 | 650 | < | 0.07 | 300 | 0.48 | < | 0.01 | 28 | 780 | 5.4 | 63 | 10 | 0.086 | 1.9 | 0.048 | 0.12 | 35 | 5.5 | | 0.68 | 200 |
| | 4 | 24 | < | 0.3 | 390 | 3.2 | < | 10 | 9.8 | 230 | | 1.4 | 0.43 | | 53 | 2.9 | < 0.06 | 0.38 | | 9.9 | 310 | | 0.08 | 320 | 0.41 | < | 0.008 | 19 | 550 | 3.7 | 61 | 8.1 | 0.064 | 1.0 | 0.054 | 0.12 | 27 | 4.9 | | 0.38 | 170 |
| | 5 | 29 | | 0.5 | 660 | 3.3 | | 12 | 7.3 | 640 | | 0.9 | 1.2 | | 34 | 3.4 | 0.14 | 0.40 | | 13 | 620 | < | 0.06 | 500 | 0.49 | < | 0.008 | 23 | 500 | 4.7 | 50 | 8.9 | 0.15 | 1.4 | 0.099 | 0.15 | 50 | 6.7 | | 0.41 | 150 |
| | 6 | 31 | | 0.5 | 340 | 3.8 | < | 10 | 9.6 | 220 | | 1.0 | 1.0 | | 18 | 5.1 | 0.14 | 0.31 | | 15 | 430 | < | 0.05 | 320 | 0.31 | < | 0.01 | 19 | 550 | 8.2 | 61 | 7.1 | 0.065 | 1.9 | 0.048 | < 0.05 | 34 | 8.8 | | 0.81 | 140 |
| | 7 | 31 | < | 0.3 | 390 | 2.3 | < | 20 | 8.3 | 380 | | 0.8 | 0.63 | | 34 | 2.6 | 0.08 | 0.22 | | 22 | 420 | < | 0.06 | 270 | 0.24 | < | 0.02 | 18 | 570 | 6.5 | 54 | 7.9 | 0.061 | 1.9 | 0.036 | < 0.05 | 26 | 9.1 | | 0.72 | 97 |
| | 8 | 22 | | 0.4 | 180 | 1.9 | | 13 | 7.4 | 150 | < | 0.5 | < 0.3 | | 24 | 2.3 | 0.09 | 0.14 | | 16 | 140 | < | 0.04 | 360 | 0.16 | < | 0.007 | 9.0 | 490 | 1.5 | 33 | 4.3 | 0.029 | 0.7 | 0.025 | 0.066 | 9.3 | 2.8 | | 0.28 | 99 |
| | 9 | 23 | < | 0.2 | 200 | 2.4 | < | 10 | 10 | 180 | | 0.8 | 0.57 | | 52 | 4.7 | < 0.06 | < 0.2 | | 28 | 210 | < | 0.05 | < 200 | 0.13 | < | 0.008 | 15 | 570 | 2.5 | 53 | 6.0 | 0.040 | 1.0 | 0.026 | 0.044 | 13 | 3.7 | | 0.35 | 130 |
| | 10 | 26 | | 0.6 | 190 | 3.1 | < | 10 | 10 | 190 | | 1.5 | 1.1 | | 58 | 2.1 | 0.07 | 0.32 | | 21 | 310 | < | 0.06 | 280 | 0.28 | < | 0.009 | 19 | 520 | 2.6 | 62 | 8.6 | 0.023 | 0.6 | 0.027 | 0.054 | 19 | 2.9 | | 0.48 | 180 |
| | 11 | 32 | | 0.6 | 310 | 3.4 | | 14 | 14 | 240 | | 1.7 | 1.0 | | 130 | 1.6 | 0.11 | 0.27 | | 18 | 430 | < | 0.06 | 490 | 0.39 | < | 0.008 | 24 | 640 | 3.8 | 75 | 10 | 0.052 | 1.5 | 0.046 | 0.048 | 29 | 4.1 | | 0.59 | 220 |
| | 12 | 37 | < | 0.3 | 350 | 3.7 | | 26 | 13 | 280 | | 2.4 | 1.7 | | 250 | 2.9 | 0.13 | 0.28 | | 20 | 500 | < | 0.05 | 670 | 0.29 | < | 0.009 | 26 | 410 | 3.7 | 79 | 11 | 0.060 | 1.5 | 0.051 | 0.061 | 39 | 5.0 | | 0.57 | 230 |
| 1992 | 1 | 33 | < | 0.3 | 270 | 4.5 | < | 10 | 14 | 220 | | 1.6 | 1.4 | | 170 | 4.8 | < 0.08 | 0.39 | | 18 | 410 | | 0.08 | 220 | 0.41 | < | 0.01 | 24 | 400 | 4.3 | 80 | 10 | 0.041 | 1.3 | 0.042 | < 0.06 | 28 | 4.9 | | 0.46 | 180 |
| 平成4年 | 2 | 31 | | 0.5 | 350 | 4.0 | | 16 | 13 | 290 | | 1.6 | 1.8 | | 150 | 2.4 | 0.09 | 0.25 | | 14 | 380 | < | 0.06 | 370 | 0.52 | < | 0.01 | 24 | 450 | 3.4 | 65 | 8.7 | 0.047 | 0.8 | 0.043 | 0.084 | 29 | 4.8 | | 0.71 | 160 |
| | 3 | 32 | | 0.4 | 540 | 3.9 | | 16 | 10.8 | 435 | | 1.1 | 1.6 | | 90 | 2.3 | 0.14 | 0.28 | | 15 | 460 | | 0.06 | 435 | 0.63 | | 0.01 | 23 | 555 | 4.3 | 62 | 8.2 | 0.089 | 0.9 | 0.082 | 0.097 | 38.5 | 4.7 | | 0.64 | 145 |
| | 4 | 33 | | 0.3 | 730 | 3.8 | | 16 | 8.5 | 580 | < | 0.5 | 1.3 | < | 30 | 2.1 | 0.18 | 0.30 | | 16 | 540 | < | 0.06 | 500 | 0.74 | | 0.010 | 22 | 660 | 5.1 | 59 | 7.6 | 0.13 | 1.0 | 0.12 | 0.11 | 48 | 4.6 | | 0.57 | 130 |
| | 5 | 28 | < | 0.2 | 290 | 4.0 | < | 9 | 7.2 | 270 | | 0.7 | 0.58 | | 35 | 2.3 | 0.15 | 0.19 | | 20 | 330 | < | 0.05 | 700 | 0.28 | < | 0.008 | 16 | 480 | 3.3 | 53 | 7.9 | 0.047 | 1.0 | 0.080 | 0.084 | 34 | 4.0 | < | 0.2 | 140 |
| | 6 | 27 | | 0.3 | 270 | 6.1 | | 14 | 8.9 | 170 | < | 0.5 | 0.72 | | 56 | 6.5 | 0.17 | 0.21 | | 28 | 430 | | 0.09 | 370 | 0.35 | < | 0.008 | 20 | 470 | 5.1 | 54 | 9.4 | 0.042 | 1.1 | 0.046 | 0.070 | 31 | 6.7 | | 0.65 | 160 |
| | 7 | 21 | | 0.3 | 205 | 4.4 | | 12.5 | 7.9 | 175 | | 0.55 | 0.61 | | 57 | 4.0 | 0.12 | 0.17 | | 21 | 295 | | 0.07 | 285 | 0.275 | | 0.0075 | 15 | 540 | 3.7 | 43.5 | 7.3 | 0.035 | 0.75 | 0.04 | 0.045 | 27.5 | 5.1 | | 0.43 | 124 |
| | 8 | 15 | | 0.3 | 140 | 2.7 | | 11 | 6.9 | 180 | | 0.6 | 0.50 | | 58 | 1.4 | < 0.06 | 0.13 | | 14 | 160 | < | 0.04 | < 200 | < 0.2 | < | 0.007 | 10 | 610 | 2.3 | 33 | 5.2 | 0.027 | 0.4 | 0.034 | < 0.02 | 24 | 3.5 | < | 0.2 | 87 |
| | 9 | 22 | | 0.3 | 210 | 2.0 | < | 8 | 7.9 | 270 | | 0.6 | 0.57 | | 97 | 0.97 | 0.10 | 0.22 | | 26 | 250 | < | 0.05 | 500 | 0.39 | < | 0.007 | 11 | 780 | 3.0 | 39 | 6.1 | 0.043 | 0.6 | 0.042 | 0.067 | 24 | 2.9 | < | 0.2 | 80 |
| | 10 | 16 | | 0.2 | 220 | 1.4 | < | 10 | 13 | 330 | | 0.5 | 0.72 | | 98 | 1.3 | 0.11 | 0.24 | | 58 | 170 | < | 0.07 | 310 | 0.18 | < | 0.009 | 15 | 400 | 2.7 | 52 | 12 | 0.025 | 0.7 | 0.022 | < 0.04 | 21 | 3.2 | | 0.30 | 100 |
| | 11 | 26 | | 0.4 | 310 | 6.6 | < | 10 | 19 | 250 | | 1.7 | 0.71 | | 190 | 4.3 | 0.20 | < 0.3 | | 34 | 450 | < | 0.08 | 340 | 0.26 | < | 0.01 | 25 | 510 | 3.6 | 83 | 15 | 0.049 | 1.2 | 0.044 | 0.055 | 41 | 4.9 | | 0.30 | 220 |
| | 12 | 23 | | 0.3 | 230 | 3.6 | < | 10 | 18 | 210 | | 1.0 | 1.3 | | 240 | 2.9 | < 0.09 | < 0.2 | | 24 | 280 | | 0.09 | 230 | 0.42 | < | 0.007 | 22 | 480 | 3.7 | 71 | 9.6 | 0.032 | 1.2 | 0.027 | < 0.03 | 24 | 4.4 | | 0.48 | 120 |
| 1993 | 1 | 20 | | 0.3 | 200 | 2.4 | | 11 | 13 | 150 | | 1.1 | 0.75 | | 240 | 2.8 | 0.11 | 0.16 | | 16 | 330 | < | 0.07 | 160 | 0.23 | < | 0.01 | 17 | 280 | 2.7 | 50 | 6.4 | 0.034 | 0.8 | 0.029 | < 0.03 | 22 | 2.9 | | 0.42 | 190 |
| 平成5年 | 2 | 25 | | 0.4 | 290 | 4.3 | | 12 | 11 | 120 | | 1.1 | 1.2 | | 100 | 2.8 | 0.19 | 0.38 | | 22 | 400 | < | 0.06 | 220 | 0.50 | < | 0.01 | 18 | 480 | 3.9 | 51 | 6.1 | 0.061 | 1.1 | 0.051 | 0.047 | 19 | 4.2 | | 0.37 | 170 |
| | 3 | 26 | < | 0.2 | 320 | 5.5 | < | 10 | 12 | 300 | | 1.5 | 0.47 | | 130 | 2.9 | 0.14 | 0.21 | | 26 | 420 | < | 0.05 | 310 | 0.31 | < | 0.01 | 20 | 340 | 3.3 | 60 | 5.8 | 0.046 | 1.1 | 0.045 | < 0.03 | 23 | 4.0 | | 0.39 | 170 |
| | 4 | 34 | | 0.4 | 740 | 6.3 | | 18 | 12 | 340 | | 0.8 | 1.2 | | 54 | 2.9 | 0.28 | 0.32 | | 14 | 410 | | 0.12 | 450 | 0.56 | | 0.011 | 25 | 480 | 4.6 | 73 | 7.5 | 0.16 | 1.1 | 0.092 | 0.17 | 46 | 4.9 | | 0.45 | 180 |
| | 5 | 25 | | 0.4 | 420 | 2.9 | < | 10 | 7.1 | 190 | | 0.8 | 1.1 | < | 30 | 2.6 | 0.11 | 0.27 | | 13 | 470 | < | 0.04 | 300 | 0.35 | < | 0.008 | 17 | 270 | 4.0 | 55 | 4.6 | 0.083 | 0.7 | 0.036 | 0.089 | 34 | 4.7 | | 0.46 | 140 |
| | 6 | 21 | | 0.5 | 110 | 2.9 | < | 9 | 8.2 | 63 | | 0.6 | 0.44 | | 49 | 4.6 | 0.11 | 0.29 | | 21 | 300 | < | 0.06 | 280 | 0.18 | < | 0.008 | 15 | 300 | 2.6 | 40 | 6.9 | 0.024 | 1.4 | 0.033 | < 0.04 | < | 10 | 5.3 | | 0.78 | 160 |
| | 7 | 20 | | 0.3 | 84 | 2.5 | | 11 | 9.6 | 95 | | 0.8 | 0.35 | | 42 | 5.1 | 0.15 | 0.26 | | 15 | 240 | < | 0.06 | 280 | < 0.1 | < | 0.008 | 11 | 400 | 2.3 | 43 | 7.9 | 0.025 | 1.3 | 0.031 | < 0.04 | < | 10 | 4.9 | | 0.62 | 160 |
| | 8 | 18 | | 0.4 | 120 | 3.9 | < | 10 | 19 | 120 | | 0.6 | 0.53 | < | 20 | 4.0 | < 0.08 | 0.24 | | 26 | 290 | < | 0.06 | 220 | 0.13 | < | 0.009 | 10 | 190 | 3.3 | 62 | 5.6 | 0.022 | 0.7 | 0.014 | < 0.04 | < | 10 | 4.2 | | 0.18 | 230 |
| | 9 | 29 | | 0.6 | 160 | 2.8 | < | 20 | 56 | 120 | | 1.1 | 0.57 | | 59 | 6.1 | 0.13 | 0.34 | | 23 | 360 | < | 0.08 | 250 | < 0.09 | < | 0.01 | 15 | 230 | 2.8 | 100 | 9.5 | 0.026 | 1.3 | 0.021 | < 0.05 | 22 | 3.7 | | 0.34 | 730 |
| | 10 | 27 | < | 0.4 | 250 | 2.1 | | 30 | 92 | 220 | | 1.3 | 1.3 | | 140 | < 1 | 0.14 | 0.28 | | 35 | 210 | < | 0.09 | 280 | 0.25 | < | 0.01 | 18 | 360 | 2.3 | 81 | 8.4 | 0.035 | 0.9 | 0.022 | < 0.05 | 24 | 3.2 | | 0.21 | 920 |
| | 11 | 36 | | 0.7 | 210 | 2.0 | < | 10 | 120 | 230 | | 1.4 | 0.65 | | 190 | < 1 | < 0.1 | 0.45 | | 52 | 310 | < | 0.08 | 390 | 0.25 | < | 0.02 | 22 | 410 | 4.2 | 160 | 13 | 0.028 | 0.9 | 0.018 | < 0.05 | 32 | 4.4 | | 0.63 | 730 |
| | 12 | 33 | | 0.4 | 190 | 1.8 | < | 10 | 39 | 160 | | 1.5 | 0.58 | | 280 | < 0.9 | 0.13 | 0.25 | | 24 | 300 | < | 0.06 | 230 | 0.15 | < | 0.01 | 13 | 270 | 3.0 | 94 | 6.5 | 0.044 | 0.9 | 0.023 | 0.049 | 13 | 2.5 | < | 0.2 | 310 |
| 1994 | 1 | 19 | | 0.8 | 230 | 2.2 | < | 10 | 36 | 300 | | 1.2 | 2.0 | | 210 | 1.9 | < 0.1 | 0.20 | | 27 | 420 | < | 0.06 | < 200 | < 0.2 | < | 0.01 | 20 | 180 | 3.3 | 100 | 6.4 | 0.049 | 0.7 | 0.034 | 0.044 | 24 | 3.0 | < | 0.3 | 310 |
| 平成6年 | 2 | 22.5 | | 0.6 | 285 | 1.9 | | 10 | 39.5 | 280 | | 1.05 | 1.4 | | 165 | 1.7 | 0.11 | 0.24 | | 23 | 365 | | 0.06 | 190 | 0.15 | | 0.0095 | 17 | 165 | 2.9 | 89.5 | 5.5 | 0.0505 | 0.65 | 0.0335 | 0.056 | 29.5 | 2.95 | | 0.25 | 335 |
| | 3 | 26 | | 0.4 | 340 | 1.5 | < | 10 | 43 | 260 | | 0.9 | 0.80 | | 120 | 1.5 | 0.12 | 0.28 | | 18 | 310 | < | 0.06 | 180 | < 0.1 | < | 0.009 | 14 | 150 | 2.4 | 79 | 4.5 | 0.052 | 0.6 | 0.033 | 0.068 | 35 | 2.9 | < | 0.2 | 360 |
| | 4 | 53 | | 0.6 | 700 | 3.0 | < | 10 | 36 | 400 | | 1.4 | 1.1 | < | 20 | 5.4 | < 0.1 | 0.20 | | 27 | 610 | < | 0.06 | 390 | 0.38 | < | 0.01 | 24 | 430 | 4.0 | 99 | 7.5 | 0.12 | 0.9 | 0.055 | 0.083 | 31 | 5.6 | | 0.44 | 430 |
| | 5 | 43 | | 0.5 | 490 | 1.9 | | 15 | 17 | 270 | | 0.8 | 0.91 | < | 20 | 4.1 | 0.17 | 0.18 | | 16 | 430 | < | 0.05 | 320 | 0.31 | < | 0.008 | 16 | 280 | 4.7 | 67 | 3.9 | 0.095 | 0.7 | 0.033 | 0.076 | 40 | 4.2 | | 0.30 | 240 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 43 | | 0.2 | 270 | 2.8 | < | 10 | 22 | 210 | 1.3 | 0.46 | < | 20 | 2.5 | < | 0.07 | < | 0.1 | 17 | 200 | < | 0.04 | 360 | 0.33 | < | 0.007 | 15 | 200 | 4.1 | 58 | 5.3 | 0.035 | 0.3 | 0.028 | 0.051 | 22 | 4.9 | 0.31 | 130 |
| | 7 | 41 | < | 0.2 | 150 | 1.7 | | 9.9 | 23 | 140 | 0.9 | 0.26 | < | 10 | 2.7 | | 0.09 | | 0.22 | 18 | 170 | < | 0.04 | 270 | 0.15 | < | 0.007 | 9.4 | 210 | 3.4 | 55 | 4.4 | 0.020 | 0.7 | 0.012 | < 0.03 | 18 | 5.0 | 0.27 | 210 |
| | 8 | 34 | < | 0.2 | 84 | 1.3 | < | 9 | 15 | 140 | 0.9 | < 0.2 | < | 10 | 1.9 | < | 0.06 | | 0.15 | 21 | 160 | < | 0.04 | 280 | < 0.1 | < | 0.006 | 8.3 | 290 | 3.1 | 65 | 3.4 | 0.0098 | 0.5 | 0.014 | < 0.03 | 16 | 4.1 | 0.24 | 200 |
| | 9 | 29 | < | 0.3 | 98 | 2.2 | < | 10 | 35 | 89 | 1.2 | 0.46 | < | 20 | 4.4 | < | 0.09 | | 0.29 | 20 | 160 | < | 0.05 | 370 | 0.11 | < | 0.009 | 11 | 180 | 2.4 | 83 | 6.1 | 0.016 | 0.6 | < 0.008 | < 0.04 | 12 | 2.3 | 0.19 | 420 |
| | 10 | 29 | < | 0.2 | 130 | 2.7 | | 10 | 14 | 130 | 1.4 | 0.42 | | 22 | 1.4 | < | 0.07 | < | 0.1 | 18 | 230 | < | 0.04 | 380 | 0.14 | < | 0.008 | 12 | 310 | 1.9 | 63 | 5.8 | 0.026 | 0.6 | 0.013 | < 0.03 | < 10 | 2.0 | 0.26 | 190 |
| | 11 | 30 | < | 0.2 | 160 | 3.0 | < | 10 | 17 | 170 | 2.1 | 1.0 | | 59 | 2.5 | < | 0.08 | | 0.27 | 28 | 270 | < | 0.05 | 430 | 0.25 | < | 0.009 | 17 | 370 | 3.4 | 84 | 7.7 | 0.030 | 0.5 | 0.032 | < 0.04 | 15 | 3.6 | 0.55 | 320 |
| | 12 | 31 | | 0.4 | 110 | 6.7 | | 15 | 15 | 100 | 1.1 | < 0.4 | | 96 | 5.3 | < | 0.09 | | 0.27 | 22 | 390 | < | 0.06 | 270 | 0.16 | < | 0.01 | 16 | 130 | 4.0 | 85 | 13 | 0.030 | 1.3 | 0.030 | < 0.05 | < 10 | 2.4 | 0.55 | 410 |
| 1995 | 1 | 33 | | 0.35 | 125 | 5.5 | | 12.5 | 15 | 115 | 0.9 | 0.38 | | 67 | 5.1 | | 0.1 | | 0.30 | 19 | 350 | | 0.06 | 250 | 0.18 | | 0.01 | 15 | 205 | 3.1 | 73.5 | 10.2 | 0.0335 | 1.1 | 0.028 | 0.065 | 14 | 2.35 | 0.49 | 340 |
| 平成7年 | 2 | 35 | < | 0.3 | 140 | 4.3 | < | 10 | 15 | 130 | 0.6 | 0.36 | | 37 | 4.9 | | 0.11 | | 0.32 | 15 | 310 | < | 0.06 | 230 | 0.19 | < | 0.01 | 13 | 280 | 2.1 | 62 | 7.4 | 0.037 | 0.9 | 0.026 | 0.080 | 18 | 2.3 | 0.42 | 270 |
| | 3 | 35 | < | 0.3 | 240 | 3.3 | < | 10 | 12 | 190 | 1.0 | 1.1 | < | 20 | 3.1 | | 0.14 | | 0.36 | 12 | 290 | < | 0.06 | 250 | 0.20 | < | 0.01 | 13 | 310 | 1.9 | 64 | 8.2 | 0.066 | 1.0 | 0.048 | < 0.04 | 13 | 2.6 | 0.46 | 270 |
| | 4 | 20 | | 0.3 | 260 | 3.2 | | 6.5 | 11 | 190 | 1.5 | 0.43 | | 140 | 2.3 | | 0.07 | | 0.37 | 14 | 420 | < | 0.05 | 110 | 0.37 | < | 0.004 | 15 | 380 | < 0.5 | 56 | 6.3 | 0.054 | 0.8 | 0.037 | 0.073 | 25 | 2.8 | 0.59 | 200 |
| | 5 | 20 | < | 0.2 | 300 | 2.2 | | 9.0 | 8.3 | 140 | 0.6 | 0.63 | < | 20 | 3.3 | | 0.08 | | 0.20 | 15 | 420 | | 0.05 | 330 | 0.37 | < | 0.006 | 13 | 320 | 1.4 | 48 | 5.2 | 0.069 | 1.0 | 0.047 | 0.092 | 30 | 2.7 | 0.39 | 140 |
| | 6 | 24 | | 0.3 | 160 | 2.5 | < | 10 | 7.7 | 150 | 1.4 | 0.94 | < | 30 | 3.7 | < | 0.08 | | 0.56 | 15 | 390 | < | 0.06 | 310 | 0.40 | < | 0.009 | 11 | 390 | 1.3 | 50 | 7.3 | 0.044 | 1.4 | 0.029 | 0.079 | 18 | 2.9 | 2.9 | 190 |
| | 7 | 24 | | 0.5 | 110 | 2.5 | | 11 | 11 | 180 | 0.7 | 1.5 | < | 30 | 16 | < | 0.1 | | 1.2 | 25 | 700 | | 0.08 | 220 | 0.27 | < | 0.006 | 15 | 490 | 2.1 | 54 | 9.1 | 0.044 | 1.4 | 0.035 | 0.074 | 36 | 5.4 | 1.4 | 270 |
| | 8 | 31 | | 0.4 | 300 | 2.6 | | 13 | 11 | 270 | 0.7 | 0.45 | < | 30 | 3.1 | | 0.18 | | 0.31 | 24 | 530 | < | 0.06 | 270 | 0.14 | < | 0.008 | 18 | 280 | 4.4 | 61 | 5.0 | 0.048 | 0.9 | 0.024 | 0.075 | 40 | 7.6 | 0.53 | 180 |
| | 9 | 20 | | 0.3 | 180 | 2.9 | < | 9 | 10 | 210 | < 0.5 | 0.68 | < | 30 | 1.7 | < | 0.07 | | 0.29 | 22 | 310 | < | 0.05 | < 100 | 0.19 | | 0.0078 | 12 | 710 | 0.70 | 54 | 5.3 | 0.042 | 0.5 | 0.027 | < 0.04 | 23 | 2.9 | 0.36 | 180 |
| | 10 | 27 | | 0.4 | 200 | 2.3 | < | 10 | 14 | 210 | 1.2 | 0.57 | < | 30 | 2.0 | < | 0.08 | | 0.22 | 30 | 160 | < | 0.06 | 290 | 0.21 | < | 0.01 | 16 | 470 | 0.80 | 93 | 5.9 | 0.032 | 0.8 | 0.025 | < 0.04 | 23 | 2.6 | 0.50 | 270 |
| | 11 | 30 | < | 0.3 | 290 | 4.1 | < | 10 | 21 | 270 | 1.4 | 0.89 | | 130 | 2.4 | | 0.18 | | 0.31 | 27 | 500 | < | 0.06 | 320 | 0.40 | | 0.019 | 23 | 470 | 2.8 | 77 | 7.7 | 0.042 | 1.0 | 0.024 | 0.077 | 24 | 4.0 | 0.67 | 250 |
| | 12 | 27 | < | 0.3 | 270 | 3.3 | | 20 | 16 | 280 | 1.6 | 4.1 | | 240 | 5.1 | < | 0.1 | | 0.36 | 20 | 480 | < | 0.07 | 330 | 0.70 | < | 0.01 | 21 | 550 | 2.6 | 77 | 9.2 | 0.064 | 1.5 | 0.052 | 0.14 | 24 | 3.2 | 0.68 | 270 |
| 1996 | 1 | 23 | | 0.4 | 220 | 3.5 | | 18 | 13 | 190 | 2.7 | 1.0 | | 180 | 3.6 | | 0.10 | | 0.22 | 26 | 480 | < | 0.06 | 290 | 0.28 | < | 0.009 | 15 | 410 | 2.0 | 57 | 5.3 | 0.060 | 0.8 | 0.031 | 0.072 | 15 | 2.1 | 0.39 | 180 |
| 平成8年 | 2 | 32 | | 0.4 | 320 | 3.8 | | 12 | 16 | 330 | 1.5 | 2.5 | | 130 | 3.4 | < | 0.09 | | 0.31 | 16 | 450 | < | 0.06 | 420 | 0.51 | < | 0.009 | 20 | 500 | 3.3 | 64 | 6.7 | 0.067 | 1.5 | 0.035 | 0.081 | 26 | 3.1 | 1.0 | 220 |
| | 3 | 27 | < | 0.3 | 410 | 2.6 | < | 10 | 14 | 300 | < 0.5 | 1.2 | | 140 | 2.8 | | 0.18 | < | 0.2 | 20 | 420 | < | 0.06 | 170 | 0.42 | < | 0.007 | 14 | 620 | 1.3 | 54 | 5.0 | 0.094 | 1.2 | 0.051 | 0.11 | 29 | 2.5 | 0.21 | 180 |
| | 4 | 26 | | 0.5 | 560 | 3.8 | | 17 | 8.9 | 210 | 1.5 | 1.4 | | 95 | 2.5 | | 0.21 | | 0.32 | 25 | 630 | < | 0.06 | 470 | 0.56 | < | 0.01 | 23 | 350 | 3.5 | 81 | 5.2 | 0.095 | 0.8 | 0.065 | 0.059 | 44 | 4.2 | 0.38 | 180 |
| | 5 | 28 | < | 0.3 | 690 | 2.9 | < | 10 | 11 | 360 | 1.0 | 2.4 | < | 40 | 1.3 | | 0.20 | | 0.37 | 23 | 580 | < | 0.05 | 370 | 0.51 | < | 0.01 | 20 | 330 | 2.8 | 68 | 4.8 | 0.11 | 1.1 | 0.067 | 0.13 | 44 | 3.9 | < 0.3 | 160 |
| | 6 | 30 | < | 0.3 | 310 | 2.9 | < | 10 | 15 | 190 | 1.6 | 0.71 | | 75 | 2.7 | | 0.17 | | 0.31 | 31 | 500 | < | 0.07 | 410 | 0.39 | < | 0.01 | 25 | 350 | 5.3 | 82 | 7.4 | 0.044 | 1.2 | 0.046 | 0.039 | 24 | 8.2 | 1.1 | 180 |
| | 7 | 26 | | 0.4 | 470 | 2.3 | | 24 | 10 | 270 | 1.0 | 0.66 | | 48 | 2.3 | | 0.16 | | 0.16 | 29 | 420 | < | 0.05 | 310 | 0.39 | < | 0.01 | 20 | 340 | 3.6 | 64 | 5.9 | 0.069 | 1.2 | 0.056 | 0.067 | 19 | 6.2 | 0.51 | 130 |
| | 8 | 25 | < | 0.2 | 530 | 1.7 | | 22 | 8.7 | 390 | 0.7 | 0.91 | < | 30 | 1.4 | | 0.13 | | 0.17 | 25 | 340 | | 0.09 | < 200 | < 0.3 | < | 0.01 | 16 | 430 | 2.5 | 42 | 4.0 | 0.083 | 0.9 | 0.053 | 0.091 | 31 | 4.1 | < 0.3 | 100 |
| | 9 | 21 | < | 0.3 | 550 | 2.2 | | 24 | 8.0 | 330 | < 0.5 | 0.75 | | 81 | 1.0 | | 0.14 | < | 0.1 | 26 | 490 | < | 0.06 | 200 | < 0.2 | | 0.0090 | 14 | 280 | 2.7 | 61 | 6.0 | 0.093 | 0.9 | 0.044 | 0.070 | 34 | 3.0 | 0.46 | 140 |
| | 10 | 28 | | 0.5 | 260 | 3.7 | < | 20 | 12 | 220 | 1.6 | 0.81 | | 41 | 1.5 | | 0.12 | | 0.18 | 20 | 430 | < | 0.06 | 460 | 0.50 | < | 0.02 | 16 | 550 | 2.4 | 80 | 10 | 0.058 | 1.1 | 0.061 | < 0.04 | 23 | 2.7 | 0.40 | 250 |
| | 11 | 30 | < | 0.3 | 390 | 3.9 | | 21 | 16 | 260 | 1.7 | 0.56 | | 150 | 2.5 | | 0.15 | | 0.47 | 15 | 530 | < | 0.06 | < 400 | 0.61 | < | 0.02 | 23 | 670 | 2.2 | 77 | 10 | 0.085 | 1.1 | 0.069 | 0.10 | 46 | 3.5 | 1.5 | 170 |
| | 12 | 40 | | 0.5 | 450 | 5.4 | < | 20 | 18 | 280 | 1.4 | 1.8 | | 210 | 3.9 | | 0.21 | | 0.32 | 30 | 820 | < | 0.08 | 580 | 0.95 | < | 0.02 | 41 | 530 | 3.6 | 96 | 12 | 0.10 | 1.6 | 0.093 | 0.11 | 42 | 4.5 | 1.1 | 270 |
| 1997 | 1 | 24 | | 0.4 | 300 | 3.8 | < | 20 | 14 | 250 | 2.1 | 0.85 | | 230 | 2.1 | | 0.15 | | 0.24 | 33 | 500 | < | 0.07 | < 400 | < 0.3 | < | 0.02 | 21 | 540 | 2.6 | 62 | 12 | 0.068 | 1.2 | 0.059 | 0.044 | 19 | 2.6 | 1.5 | 170 |
| 平成9年 | 2 | 29 | | 0.3 | 300 | 4.5 | < | 10 | 13 | 270 | 1.2 | 0.96 | | 670 | 1.5 | | 0.16 | | 0.23 | 16 | 260 | < | 0.06 | 610 | 0.33 | < | 0.01 | 13 | 550 | 2.1 | 53 | 7.4 | 0.062 | 1.1 | 0.054 | 0.061 | 33 | 2.3 | 0.45 | 130 |
| | 3 | 32 | < | 0.3 | 510 | 5.5 | < | 20 | 16 | 290 | 1.3 | 1.2 | | 150 | 3.0 | | 0.16 | | 0.31 | 31 | 460 | | 0.07 | 900 | 0.55 | < | 0.02 | 20 | 700 | 2.4 | 76 | 9.8 | 0.099 | 1.4 | 0.082 | 0.11 | 36 | 4.0 | 0.79 | 180 |