IDs of the macroscale drainage basins presented in the files glacierrunoff*.txt and glacierarea*.txt
#
ID CenLongitude(deg) CenLatitude(deg) ; Basin_name
1 74 31 ; INDUS
2 81 37 ; TARIM
3 90 28 ; BRAHMAPUTRA
4 67 42 ; ARAL SEA
5 -143 61 ; COPPER
6 82 25 ; GANGES
7 -144 63 ; YUKON
8 -137 60 ; ALSEK
9 -149 62 ; SUSITNA
10 78 45 ; BALKHASH
11 -129 57 ; STIKINE
12 -71 -49 ; SANTA CRUZ
13 -122 52 ; FRASER
14 -72 -46 ; BAKER
15 106 30 ; YANGTZE
16 96 25 ; SALWEEN
17 -116 46 ; COLUMBIA
18 73 42 ; ISSYK-KUL
19 -64 -6 ; AMAZON
20 -132 58 ; TAKU
21 -67 -35 ; COLORADO
22 -120 61 ; MACKENZIE
23 -129 56 ; NASS
24 -19 64 ; THJORSA
25 -16 65 ; JOEKULSA A F.
26 -156 61 ; KUSKOKWIM
27 5 45 ; RHONE
28 -127 55 ; SKEENA
29 75 55 ; OB
30 -20 64 ; OELFUSA
31 101 22 ; MEKONG
32 18 46 ; DANUBE
33 -101 51 ; NELSON
34 9 45 ; PO
35 159 55 ; KAMCHATKA
36 7 49 ; RHINE
37 10 61 ; GLOMA
38 107 36 ; HUANG HE
39 144 67 ; INDIGIRKA
40 18 66 ; LULE
41 -70 -34 ; RAPEL
42 -77 -8 ; SANTA
43 -121 48 ; SKAGIT
44 40 44 ; KUBAN
45 -68 -16 ; TITICACA
46 -156 60 ; NUSHAGAK
47 -71 -37 ; BIOBIO
48 96 23 ; IRRAWADDY
49 -68 -39 ; NEGRO
50 169 -45 ; CLUTHA

51 -72 -15 ; MAJES
52 -79 -1 ; DAULE/VINCES
53 20 67 ; KALIXAELVEN
54 -74 6 ; MAGDALENA
55 9 60 ; DRAMSELV
56 -154 68 ; COLVILLE

Computed glacier area (in km^2) for the 56 macroscale drainage basins over the period 1980 to 2100 for RCP2.6. Areas refer to multi-model means of 12 GCMs.
#
Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
#
#
#
; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year GlacierArea (km^2)
1980 27009.2 24647.7 16609.5 15178.4 13021.7 11212.8 9472.8 5495.5 4301.4 3944.3 3470.2 3026.3 2494.0 2371.0 2317.1 2295.5 1877.4 1677.2 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 739.9 682.9 485.7 408.4 374.4 347.1 315.8 284.8 269.3 267.9 248.5 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 46.4 45.9 40.6 37.9 33.3 32.1 31.9
1981 27012.6 24727.8 16645.3 15239.5 13021.7 11214.0 9472.8 5495.5 4301.4 3965.5 3470.2 3026.3 2494.0 2371.0 2323.2 2303.9 1877.4 1688.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 735.9 682.9 487.8 408.4 374.4 347.1 315.6 284.8 269.3 269.5 247.3 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 46.6 45.9 40.6 37.9 33.3 32.1 31.9
1982 27010.4 24689.1 16628.2 15207.2 13021.7 11213.3 9472.8 5495.5 4301.4 3953.3 3470.2 3026.3 2494.0 2371.0 2320.3 2299.1 1877.4 1681.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 732.9 682.9 486.7 408.4 374.4 347.1 315.2 284.8 269.3 268.6 246.4 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 46.7 45.9 40.6 37.9 33.3 32.1 31.9
1983 27013.8 24763.3 16663.3 15266.3 13021.7 11214.5 9472.8 5495.5 4301.4 3972.9 3470.2 3026.3 2494.0 2371.0 2326.2 2306.6 1877.4 1692.4 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 730.2 682.9 488.5 408.4 374.4 347.1 314.9 284.8 269.3 270.2 245.6 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 47.6 45.9 40.6 37.9 33.3 32.1 31.9
1984 27012.8 24758.1 16661.0 15259.2 13021.7 11214.4 9472.8 5495.5 4301.4 3969.1 3470.2 3026.3 2494.0 2371.0 2325.9 2305.6 1877.4 1690.2 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 728.4 682.9 488.1 408.4 374.4 347.1 314.9 284.8 269.3 269.8 245.1 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 47.9 45.9 40.6 37.9 33.3 32.1 31.9
1985 27014.0 24792.0 16675.8 15286.1 13021.7 11214.9 9472.8 5495.5 4301.4 3977.2 3470.2 3026.3 2494.0 2371.0 2328.7 2308.6 1877.4 1694.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 725.7 682.9 489.0 408.4 374.4 347.1 314.4 284.8 269.3 270.5 244.1 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 48.8 45.9 40.6 37.9 33.3 32.1 31.9
1986 27013.9 24798.1 16677.8 15287.4 13021.7 11215.0 9472.8 5495.5 4301.4 3977.7 3470.2 3026.3 2494.0 2371.0 2329.2 2308.7 1877.4 1694.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 722.2 682.9 488.9 408.4 374.4 347.1 314.3 284.8 269.3 270.4 243.0 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 49.3 45.9 40.6 37.9 33.3 32.1 31.9
1987 27014.8 24824.9 16687.1 15305.8 13021.7 11215.3 9472.8 5495.5 4301.4 3984.2 3470.2 3026.3 2494.0 2371.0 2331.3 2311.1 1877.4 1698.0 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 721.8 682.9 489.5 408.4 374.4 347.1 314.2 284.8 269.3 270.9 242.9 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 50.1 45.9 40.6 37.9 33.3 32.1 31.9
1988 27014.2 24816.5 16685.3 15299.4 13021.7 11215.3 9472.8 5495.5 4301.4 3980.5 3470.2 3026.3 2494.0 2371.0 2330.9 2309.9 1877.4 1696.0 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 716.8 682.9 489.2 408.4 374.4 347.1 313.7 284.8 269.3 270.8 241.3 247.1 237.8 199.1 159.5 145.7

134.5 86.4 76.1 71.2 64.1 50.1 45.9 40.6 37.9 33.3 32.1 31.9
1989 27015.2 24845.5 16698.9 15320.9 13021.7 11215.7 9472.8 5495.5 4301.4 3987.3 3470.2 3026.3 2494.0
2371.0 2332.9 2312.4 1877.4 1699.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
712.7 682.9 489.9 408.4 374.4 347.1 313.2 284.8 269.3 271.3 240.1 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.4 45.9 40.6 37.9 33.3 32.1 31.9
1990 27013.7 24818.1 16684.0 15297.6 13021.7 11215.3 9472.8 5495.5 4301.4 3979.3 3470.2 3026.3 2494.0
2371.0 2330.8 2309.2 1877.4 1694.9 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
707.8 682.9 489.1 408.4 374.4 347.1 312.1 284.8 269.3 270.6 238.3 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.5 45.9 40.6 37.9 33.3 32.1 31.9
1991 27013.3 24805.7 16676.6 15287.5 13021.7 11215.0 9472.8 5495.5 4301.4 3975.8 3470.2 3026.3 2494.0
2371.0 2329.8 2308.0 1877.4 1693.3 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
700.9 682.9 488.6 408.4 374.4 347.1 310.8 284.8 269.3 270.5 236.0 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.0 45.9 40.6 37.9 33.3 32.1 31.9
1992 27012.3 24788.1 16667.7 15271.9 13021.7 11214.7 9472.8 5495.5 4301.4 3970.0 3470.2 3026.3 2494.0
2371.0 2328.6 2305.7 1877.4 1690.2 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
697.4 682.9 488.1 408.4 374.4 347.1 310.2 284.8 269.3 270.0 234.9 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.0 45.9 40.6 37.9 33.3 32.1 31.9
1993 27012.1 24795.1 16669.4 15275.9 13021.7 11214.7 9472.8 5495.5 4301.4 3970.1 3470.2 3026.3 2494.0
2371.0 2329.2 2305.5 1877.4 1690.1 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
695.5 682.9 488.2 408.4 374.4 347.1 310.2 284.8 269.3 270.0 234.3 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.6 45.9 40.6 37.9 33.3 32.1 31.9
1994 27012.8 24809.5 16675.6 15286.6 13021.7 11215.0 9472.8 5495.5 4301.4 3974.1 3470.2 3026.3 2494.0
2371.0 2330.3 2307.1 1877.4 1692.1 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
692.0 682.9 488.5 408.4 374.4 347.1 309.8 284.8 269.3 270.3 233.2 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.9 45.9 40.6 37.9 33.3 32.1 31.9
1995 27011.6 24797.9 16668.8 15275.1 13021.7 11214.7 9472.8 5495.5 4301.4 3969.6 3470.2 3026.3 2494.0
2371.0 2329.1 2304.8 1877.4 1688.9 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
687.2 682.9 488.0 408.4 374.4 347.1 308.9 284.8 269.3 269.8 231.6 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.5 45.9 40.6 37.9 33.3 32.1 31.9
1996 27008.3 24722.9 16632.5 15214.7 13021.7 11213.6 9472.8 5495.5 4301.4 3949.5 3470.2 3026.3 2494.0
2371.0 2323.3 2297.0 1877.4 1678.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
682.1 682.9 486.0 408.4 374.4 347.1 308.2 284.8 269.3 268.4 229.9 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.4 45.9 40.6 37.9 33.3 32.1 31.9
1997 27007.2 24712.9 16627.2 15206.5 13021.7 11213.3 9472.8 5495.5 4301.4 3945.1 3470.2 3026.3 2494.0
2371.0 2322.7 2295.0 1877.4 1675.7 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
675.9 682.9 485.5 408.4 374.4 347.1 306.8 284.8 269.3 267.9 227.7 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.5 45.9 40.6 37.9 33.3 32.1 31.9
1998 27006.1 24689.7 16613.6 15186.1 13021.7 11213.0 9472.8 5495.5 4301.4 3938.2 3470.2 3026.3 2494.0
2371.0 2320.6 2292.4 1877.4 1672.4 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
669.6 682.9 484.8 408.4 374.4 347.1 305.9 284.8 269.3 267.6 225.6 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 53.1 45.9 40.6 37.9 33.3 32.1 31.9
1999 27002.0 24609.7 16575.5 15122.1 13021.7 11211.8 9472.8 5495.5 4301.4 3915.4 3470.2 3026.3 2494.0
2371.0 2314.6 2283.2 1877.4 1659.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
659.7 682.9 482.5 408.4 374.4 347.1 304.3 284.8 269.3 265.7 222.3 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 53.0 45.9 40.6 37.9 33.3 32.1 31.9
2000 27001.9 24603.4 16569.4 15115.3 13021.7 11211.7 9472.8 5495.5 4301.4 3913.4 3470.2 3026.3 2494.0
2371.0 2314.0 2282.6 1877.4 1659.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
652.6 682.9 482.3 408.4 374.4 347.1 303.1 284.8 269.3 265.5 220.1 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 53.5 45.9 40.6 37.9 33.3 32.1 31.9
2001 26998.8 24540.3 16537.3 15063.6 13021.7 11210.5 9472.8 5495.5 4301.4 3895.9 3470.2 3026.3 2494.0
2371.0 2308.7 2275.3 1877.4 1649.4 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
643.1 682.9 480.5 408.4 374.4 347.1 301.4 284.8 269.3 264.1 216.8 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 53.5 45.9 40.6 37.9 33.3 32.1 31.9
2002 26898.3 24468.7 16457.0 15006.7 13021.7 11152.0 9472.8 5495.5 4301.4 3878.8 3470.2 3020.9 2494.0

2347.9 2297.4 2266.4 1877.4 1640.6 1636.6 1632.9 1578.5 1518.5 1342.7 1246.1 1094.9 1034.8 903.9 741.8
634.3 679.3 478.7 408.4 374.4 347.1 299.7 284.8 269.3 262.8 213.8 247.1 233.9 199.1 159.5 143.0
134.5 86.4 74.2 71.2 62.3 54.0 45.9 40.6 37.9 33.3 32.1 31.9
2003 26854.4 24402.3 16370.9 14953.8 13021.7 11140.4 9472.8 5495.5 4301.4 3862.4 3470.2 3021.8 2494.0
2344.6 2287.1 2254.2 1877.4 1631.7 1636.6 1632.9 1578.3 1518.5 1342.7 1243.0 1092.8 1034.8 903.9 741.8
624.1 676.7 476.7 408.4 374.4 347.1 298.2 284.8 266.1 261.5 210.5 244.5 233.3 199.1 159.5 142.4
134.5 86.4 73.8 70.4 62.0 53.6 45.9 40.6 37.4 33.3 31.6 31.9
2004 26784.8 24332.7 16282.9 14903.8 13021.7 11075.6 9472.8 5495.5 4301.4 3845.9 3470.2 3018.2 2494.0
2331.6 2277.9 2246.9 1877.4 1623.6 1609.5 1632.9 1565.6 1518.5 1342.7 1237.9 1089.6 1034.8 903.9 741.8
615.1 673.1 475.1 408.4 374.4 347.1 296.5 284.8 265.1 260.2 207.6 243.0 231.0 196.9 159.5 140.7
132.6 86.4 72.9 70.3 60.9 53.7 45.5 38.9 37.2 32.0 31.5 31.9
2005 26674.7 24239.4 16198.9 14837.3 13021.7 11020.8 9472.8 5495.5 4301.4 3825.8 3470.2 3016.6 2494.0
2326.0 2262.7 2233.6 1877.4 1612.4 1589.2 1632.9 1559.8 1518.5 1342.7 1233.8 1087.0 1034.8 896.9 741.8
605.5 669.4 472.5 402.4 374.4 342.7 295.0 282.6 261.5 258.7 204.4 240.8 229.5 195.6 159.5 139.2
130.8 86.4 71.9 69.8 60.1 53.7 45.3 38.1 36.7 31.4 31.0 31.9
2006 26657.9 24224.8 16139.8 14826.2 13021.7 10997.6 9470.2 5495.5 4301.4 3822.5 3470.1 3017.1 2451.6
2319.7 2256.0 2231.4 1839.8 1611.8 1562.0 1632.9 1547.4 1491.1 1342.5 1230.0 1084.5 1034.8 890.9 719.9
592.8 667.1 472.3 398.9 367.6 339.2 292.7 280.3 259.4 258.6 199.9 239.3 227.1 193.8 155.6 136.8
128.5 86.4 71.2 69.7 59.3 53.5 45.0 36.8 36.4 30.2 30.6 31.9
2007 26573.6 24143.1 16040.0 14770.4 13021.7 10965.0 9468.6 5495.5 4301.4 3805.3 3470.0 3012.2 2442.6
2304.6 2240.8 2219.9 1829.3 1602.7 1532.5 1632.9 1530.5 1476.4 1342.5 1225.3 1081.7 1034.8 879.8 713.4
584.2 664.0 470.3 392.6 364.7 333.1 290.8 276.7 256.6 257.4 197.0 237.7 224.3 191.2 155.0 135.2
126.0 86.4 69.4 69.5 57.8 52.9 44.6 35.3 35.9 29.0 30.2 31.9
2008 26463.0 24028.5 15966.6 14671.4 13021.7 10923.4 9466.2 5495.5 4301.4 3775.1 3469.8 3006.8 2407.4
2286.2 2225.8 2202.6 1796.3 1586.6 1521.7 1632.9 1514.5 1452.4 1342.3 1221.3 1080.0 1034.8 871.6 695.4
571.5 661.2 466.8 385.7 358.7 327.9 288.1 273.4 254.0 254.8 192.6 237.1 221.2 191.1 151.6 132.4
125.5 86.4 67.9 68.8 56.5 53.2 44.5 34.4 35.8 28.1 29.8 31.9
2009 26395.6 23934.6 15882.8 14603.5 13021.7 10926.3 9464.3 5495.5 4301.4 3754.0 3469.7 3004.8 2372.0
2268.9 2212.5 2189.4 1768.7 1575.7 1488.2 1632.9 1499.4 1431.7 1342.1 1215.8 1077.2 1034.8 862.7 679.2
565.4 657.3 464.5 380.3 354.3 322.9 286.7 270.7 251.1 253.1 190.3 232.9 218.6 188.1 147.8 130.8
122.5 86.4 66.3 68.4 55.2 53.1 44.1 32.9 35.0 26.7 29.3 31.9
2010 26188.5 23729.8 15719.9 14447.3 13021.7 10840.4 9462.1 5495.5 4301.4 3706.5 3469.6 2999.0 2348.9
2244.3 2191.7 2162.4 1739.6 1550.7 1461.8 1632.9 1494.1 1409.0 1341.9 1211.1 1075.4 1034.8 854.5 665.5
554.2 654.2 459.0 372.0 347.4 317.6 284.4 267.9 247.8 249.7 186.4 232.3 217.5 187.0 146.8 127.6
120.3 86.4 65.9 67.1 54.6 52.8 43.8 31.7 34.8 25.8 28.8 31.9
2011 26067.3 23604.6 15653.0 14357.7 12990.3 10803.8 9433.0 5475.1 4291.1 3681.0 3431.2 2995.0 2313.7
2236.3 2174.5 2152.8 1707.4 1536.9 1435.7 1620.5 1482.6 1385.3 1330.5 1206.8 1073.7 1027.6 843.7 648.3
545.9 651.1 456.8 363.6 342.4 311.2 282.7 263.6 244.3 247.5 183.5 230.0 215.8 184.4 143.0 126.2
118.2 85.5 64.7 67.5 53.6 52.2 43.6 30.5 34.2 25.1 28.3 31.6
2012 26046.8 23571.4 15649.2 14343.2 12963.4 10818.5 9408.5 5460.0 4283.3 3676.7 3403.3 2987.4 2275.1
2209.4 2163.9 2148.0 1670.7 1534.6 1401.7 1611.4 1471.9 1350.5 1321.4 1201.2 1072.0 1022.3 832.7 628.7
536.5 647.4 456.0 354.7 334.8 304.3 280.7 259.4 240.1 247.2 180.1 227.3 213.8 181.8 140.7 125.6
114.8 84.9 64.0 67.1 52.8 52.1 43.1 29.1 33.7 24.2 27.6 31.5
2013 25918.8 23405.1 15484.4 14215.4 12956.6 10773.3 9394.6 5455.4 4280.2 3640.6 3375.6 2979.9 2229.9
2185.4 2141.5 2124.3 1630.1 1515.9 1375.4 1602.7 1458.3 1321.7 1313.4 1196.0 1070.2 1019.4 826.3 611.5
525.9 644.3 451.7 349.4 326.7 300.6 277.7 257.3 235.7 244.3 176.1 225.2 210.4 179.7 136.9 122.7
112.8 84.5 61.7 66.0 51.0 51.9 42.8 28.1 33.1 23.5 27.0 31.3
2014 25826.9 23357.6 15433.3 14193.5 12947.5 10716.7 9383.3 5450.6 4277.9 3635.9 3353.0 2973.0 2199.7
2155.5 2129.2 2116.9 1603.3 1513.2 1332.1 1595.4 1438.3 1296.7 1305.8 1191.2 1068.8 1016.6 817.7 594.9
518.0 641.9 450.7 342.6 321.6 295.1 276.5 254.8 231.7 243.9 173.3 221.0 207.2 175.8 134.4 122.1
108.0 84.1 59.6 65.1 49.3 51.8 42.2 26.9 32.3 22.7 26.5 31.2
2015 25867.6 23275.1 15390.8 14130.8 12921.0 10770.8 9360.1 5437.5 4266.0 3616.7 3312.5 2966.1 2150.6
2131.8 2114.0 2107.7 1556.1 1503.6 1285.3 1583.9 1424.1 1266.2 1293.3 1186.9 1067.6 1008.8 802.0 572.4
506.6 639.3 448.7 331.0 312.8 286.3 273.4 249.3 230.5 242.5 169.2 221.9 204.5 170.6 130.0 116.5

103.9 83.1 58.4 65.1 48.5 51.9 41.6 25.7 32.3 21.6 26.1 31.0
2016 25577.5 23115.3 15238.6 14018.1 12894.8 10595.2 9332.4 5420.3 4265.6 3585.7 3275.1 2961.8 2113.0
2118.4 2091.9 2087.1 1524.1 1486.8 1241.8 1572.6 1409.5 1228.9 1282.8 1181.8 1066.1 1007.5 788.7 555.6
494.1 636.5 444.9 320.5 306.4 278.3 270.4 244.4 226.8 240.0 164.5 217.9 201.7 168.6 127.0 115.8
98.9 82.8 56.7 64.0 47.2 51.6 41.0 25.4 31.6 21.3 25.6 30.9
2017 25516.6 22969.0 15139.3 13905.9 12898.2 10577.8 9322.9 5420.8 4262.8 3552.6 3248.1 2958.5 2062.2
2094.0 2072.3 2068.4 1467.6 1469.3 1214.5 1565.2 1396.5 1199.4 1273.5 1175.8 1063.7 1003.6 769.8 538.5
484.1 633.0 441.3 310.5 295.9 268.6 268.0 238.9 223.2 237.5 160.9 216.5 199.2 166.4 122.0 111.9
96.0 82.3 55.5 63.1 46.4 51.0 40.7 25.4 31.1 21.3 24.9 30.8
2018 25267.0 22802.7 14978.2 13799.0 12872.2 10450.7 9299.1 5401.6 4259.3 3522.9 3207.6 2945.6 2028.3
2060.3 2050.1 2044.7 1435.5 1453.8 1181.4 1552.5 1387.1 1164.7 1260.8 1168.4 1061.0 1000.5 757.9 521.6
475.8 628.2 437.2 299.4 289.2 261.5 265.8 234.4 218.8 235.2 157.8 211.1 196.4 163.1 120.6 110.3
92.0 81.7 53.1 61.6 45.1 50.5 40.0 24.9 30.1 21.0 24.4 30.7
2019 25177.1 22642.8 14871.5 13681.5 12837.5 10404.9 9264.2 5377.1 4252.7 3488.5 3141.6 2944.4 1965.1
2052.9 2027.4 2020.4 1389.6 1435.5 1145.4 1534.3 1367.3 1128.4 1238.2 1162.2 1058.9 994.1 747.2 492.6
463.4 624.0 433.3 291.8 281.2 255.4 262.9 230.6 216.2 232.5 153.3 209.4 193.6 159.0 115.8 106.3
88.8 80.9 52.3 60.8 44.5 50.6 39.7 24.3 29.8 20.4 24.1 30.4
2020 25010.5 22447.5 14723.2 13539.1 12833.9 10359.1 9250.1 5371.5 4249.8 3445.7 3121.1 2936.1 1944.1
2024.7 2003.4 1994.5 1363.3 1412.6 1107.5 1526.8 1355.4 1097.9 1230.1 1155.2 1056.4 990.8 742.8 482.3
455.9 619.4 428.2 286.1 275.7 252.2 260.7 229.0 211.7 229.4 150.3 205.5 191.0 156.2 114.8 102.7
85.0 80.2 50.6 60.2 43.5 50.1 39.2 23.9 29.0 20.2 23.6 30.2
2021 24866.9 22298.1 14536.5 13443.3 12769.9 10249.2 9197.8 5335.1 4237.3 3419.7 3053.9 2926.5 1900.1
1995.4 1981.3 1968.8 1326.7 1399.5 1075.0 1506.3 1340.1 1062.7 1209.5 1149.0 1054.2 982.9 726.7 461.9
444.0 615.8 424.6 275.7 268.5 243.4 257.6 223.2 208.7 227.5 145.9 203.3 188.5 154.2 112.1 102.4
81.6 79.1 50.0 58.5 42.9 50.0 38.7 23.5 28.4 19.8 23.2 29.9
2022 24678.1 22128.0 14416.3 13310.7 12759.9 10191.3 9176.8 5322.8 4230.8 3382.7 3015.1 2922.2 1848.8
1979.7 1961.3 1949.7 1285.1 1379.3 1025.8 1494.0 1325.9 1024.4 1194.6 1143.1 1051.9 976.2 717.0 442.4
437.7 612.0 420.8 268.8 261.1 238.1 255.8 220.3 203.9 224.5 143.5 198.4 186.4 151.4 107.6 98.6
76.7 78.0 49.0 58.3 42.3 49.5 38.1 23.1 27.5 19.5 22.7 29.4
2023 24587.6 22027.9 14329.3 13258.0 12694.1 10118.7 9124.0 5283.7 4217.5 3366.9 2947.3 2907.3 1790.7
1942.0 1942.2 1931.9 1240.0 1371.7 990.4 1473.4 1313.1 984.8 1171.6 1137.7 1050.2 967.3 711.4 417.7
427.0 608.9 418.5 261.5 253.1 234.0 252.4 218.0 200.0 223.4 139.5 194.6 183.4 145.5 104.6 95.7
73.9 76.9 47.7 57.1 41.5 49.0 37.5 22.3 26.8 18.7 22.2 29.2
2024 24471.3 21898.6 14178.7 13157.1 12655.4 10029.9 9086.5 5257.4 4204.9 3340.1 2893.5 2903.1 1734.4
1926.0 1920.5 1906.4 1191.2 1357.6 942.2 1456.0 1302.0 947.0 1151.4 1130.9 1047.6 958.4 695.6 397.4
418.2 605.1 415.0 253.8 244.1 226.2 250.3 213.7 195.8 221.4 136.2 189.7 182.1 139.5 99.7 92.4
69.4 75.7 46.9 56.1 40.8 48.7 37.0 21.5 25.9 18.0 21.7 28.7
2025 24182.5 21664.0 14022.7 12994.1 12612.5 9935.7 9050.4 5230.0 4197.3 3295.8 2865.5 2891.9 1699.2
1892.1 1897.3 1881.3 1158.2 1334.3 897.4 1445.7 1282.9 917.6 1142.9 1124.5 1045.0 952.7 686.5 388.0
407.1 601.6 410.2 247.0 237.5 221.1 247.0 210.4 193.5 218.0 132.2 188.2 178.5 134.7 97.3 89.8
65.2 75.0 45.5 55.5 39.9 48.4 36.3 21.5 25.5 17.3 21.4 28.4
2026 24041.1 21462.2 13746.2 12837.4 12572.2 9840.4 9014.0 5204.3 4182.8 3251.7 2820.7 2881.9 1668.2
1865.5 1870.1 1843.0 1127.3 1310.6 866.6 1429.8 1273.7 885.8 1127.1 1115.9 1041.6 941.6 674.5 374.2
398.3 596.4 404.5 239.7 230.4 214.9 243.9 205.7 185.9 214.7 128.8 182.3 176.6 132.4 96.7 85.2
61.9 73.5 44.3 53.4 39.2 47.3 35.8 21.3 24.5 17.1 20.5 28.1
2027 23822.1 21271.4 13679.6 12702.0 12518.5 9765.1 8968.8 5168.0 4169.0 3214.0 2772.7 2885.5 1630.2
1871.1 1848.0 1820.5 1097.8 1290.9 851.1 1413.1 1251.3 857.8 1110.9 1108.9 1038.8 932.3 663.0 359.4
389.5 591.7 400.1 231.2 225.1 208.8 240.7 201.8 181.2 211.8 125.5 178.2 172.6 131.5 94.0 83.1
60.0 72.2 43.4 53.1 38.8 47.0 35.6 21.5 23.8 17.0 19.9 27.7
2028 23624.9 21085.7 13503.4 12559.6 12475.5 9664.1 8935.9 5140.6 4152.6 3174.4 2725.0 2881.6 1593.4
1863.0 1824.7 1792.4 1069.1 1269.5 817.1 1397.6 1240.6 828.7 1093.8 1102.7 1036.3 920.2 650.9 344.6
380.3 587.7 395.2 224.0 219.0 202.5 237.9 198.0 177.5 208.7 122.0 175.6 170.9 129.2 92.5 79.8
55.7 70.6 42.8 51.6 38.4 46.2 35.1 21.3 23.3 16.6 19.4 27.4
2029 23462.1 20897.3 13284.8 12431.0 12414.9 9574.9 8882.5 5103.2 4136.8 3140.0 2670.2 2870.2 1550.4

1832.2 1800.9 1759.6 1037.1 1251.6 788.4 1378.6 1223.8 799.0 1074.5 1096.0 1033.9 910.3 641.9 328.8
369.8 583.3 390.7 217.6 213.6 197.8 234.6 195.4 172.1 206.1 118.1 171.5 168.1 125.2 89.6 77.6
52.4 69.2 41.3 50.4 37.4 45.5 34.6 20.7 22.6 16.0 18.8 27.0
2030 23227.6 20703.5 13103.8 12289.5 12382.3 9455.3 8855.1 5084.1 4127.2 3100.1 2635.3 2861.8 1515.3
1808.4 1775.5 1729.2 1009.6 1230.9 757.7 1366.5 1216.5 771.5 1061.5 1087.6 1030.1 902.6 628.3 317.9
361.3 577.8 385.6 210.1 207.6 191.2 231.6 190.7 168.1 203.0 115.0 167.3 166.8 122.0 87.1 76.7
49.3 68.1 41.0 48.8 37.1 45.3 34.2 20.6 21.8 15.4 18.3 26.5
2031 23052.6 20519.8 12931.6 12159.2 12326.1 9365.4 8800.9 5045.0 4109.9 3066.4 2581.8 2854.3 1480.3
1791.7 1753.5 1702.9 981.0 1213.2 738.3 1347.8 1199.5 743.4 1041.6 1082.2 1027.7 891.3 620.4 301.4
353.5 574.6 381.6 204.2 202.4 186.8 228.8 188.4 163.5 200.7 112.0 164.0 163.8 119.4 85.4 73.8
47.0 66.8 39.5 47.6 36.2 44.7 34.0 20.5 21.2 15.2 17.7 26.2
2032 22766.2 20274.5 12773.4 11971.7 12264.1 9250.9 8753.6 5006.7 4096.0 3016.0 2536.7 2842.0 1452.6
1759.0 1728.0 1670.8 963.9 1186.4 704.8 1331.0 1184.8 718.6 1028.5 1075.8 1024.8 879.7 610.7 290.4
345.0 570.3 375.5 198.7 198.2 182.2 226.1 184.9 162.1 196.6 108.9 160.6 161.5 115.7 84.5 72.9
43.6 65.3 38.5 46.8 35.5 44.5 33.5 20.4 20.7 14.8 17.5 25.7
2033 22520.5 20048.8 12548.7 11808.1 12216.1 9121.4 8712.9 4978.1 4080.8 2971.9 2491.3 2839.7 1422.6
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338.3 565.2 370.2 191.3 192.7 176.4 223.5 181.1 156.6 193.1 106.3 157.8 159.0 114.1 82.4 70.4
40.7 63.8 37.8 45.5 35.3 44.4 32.9 20.0 20.1 14.4 16.8 25.3
2034 22338.1 19880.3 12443.7 11694.5 12153.4 9031.6 8662.3 4945.1 4062.1 2940.4 2438.0 2823.8 1383.8
1712.5 1681.7 1616.6 912.9 1147.4 655.6 1297.4 1162.6 667.1 994.6 1061.8 1018.3 855.6 587.5 264.7
328.7 561.2 366.5 183.7 188.4 170.3 220.5 177.1 155.0 190.9 102.6 155.3 158.1 111.5 80.2 68.4
38.5 62.2 37.3 44.8 34.7 43.9 32.5 19.6 19.8 13.9 16.6 24.7
2035 22134.0 19697.0 12264.3 11562.8 12109.1 8929.1 8624.7 4916.0 4050.2 2906.2 2394.2 2819.1 1335.2
1696.2 1658.7 1585.5 871.1 1129.6 626.1 1281.5 1135.9 640.8 978.1 1054.5 1014.4 848.2 579.6 251.6
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36.2 61.1 35.5 43.7 33.7 43.9 32.0 19.0 19.1 13.4 16.1 24.4
2036 21901.4 19516.9 12094.3 11438.6 12073.0 8777.9 8591.7 4892.5 4039.0 2874.3 2359.2 2814.2 1303.4
1687.3 1636.7 1560.6 844.9 1113.4 611.2 1268.8 1125.4 619.2 966.4 1048.4 1010.8 839.4 568.7 243.6
312.8 553.1 358.1 171.8 175.7 160.7 215.1 171.2 147.8 186.0 96.8 150.0 152.1 106.8 74.1 63.6
34.4 60.0 34.9 42.6 33.3 43.1 31.7 19.2 18.8 13.3 15.8 23.9
2037 21759.5 19356.4 11956.3 11320.3 12008.0 8685.2 8547.8 4858.7 4022.0 2842.6 2322.6 2800.0 1269.4
1654.2 1614.5 1539.5 815.2 1097.6 581.1 1253.7 1105.7 595.5 953.8 1042.4 1007.3 829.6 555.4 234.8
307.9 549.7 354.8 163.7 170.3 154.5 213.3 166.1 143.2 183.7 95.1 147.1 148.7 102.6 72.4 62.1
32.3 58.5 33.4 42.1 32.4 42.0 31.2 18.6 18.3 12.7 15.2 23.4
2038 21604.1 19164.0 11820.9 11180.8 11947.7 8602.0 8501.1 4823.1 4004.3 2804.5 2283.4 2800.0 1252.2
1648.6 1593.5 1513.1 802.2 1077.1 572.4 1239.0 1093.0 580.4 940.4 1035.2 1003.7 814.7 543.6 225.9
299.4 545.2 350.2 158.0 167.1 149.3 210.5 162.5 139.3 180.8 91.9 144.1 145.9 103.5 72.2 59.0
30.8 56.5 32.4 41.1 31.9 40.4 31.0 18.9 17.7 12.6 14.7 23.0
2039 21389.6 18919.8 11654.8 11008.2 11895.4 8511.4 8453.9 4788.5 3991.2 2758.4 2238.9 2794.7 1210.9
1637.7 1571.0 1486.0 776.7 1053.2 555.2 1222.6 1082.8 557.0 923.1 1028.7 1000.1 807.9 535.5 212.5
292.6 541.3 345.0 153.3 162.6 145.6 208.3 159.8 136.6 177.1 89.5 140.3 144.4 101.2 69.2 57.0
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284.8 537.2 341.9 149.0 159.3 141.4 205.2 156.9 132.7 176.0 86.8 138.0 141.9 99.8 68.3 56.1
27.4 54.3 31.0 38.9 30.9 38.5 30.3 18.9 16.5 12.0 13.9 22.1
2041 21143.3 18657.7 11395.4 10832.6 11803.5 8294.8 8381.3 4742.7 3959.7 2713.5 2180.1 2770.4 1160.4
1582.6 1533.8 1441.3 736.9 1030.7 525.2 1199.8 1059.1 521.6 904.0 1015.0 992.4 786.3 511.6 201.0
278.9 533.2 338.5 141.1 154.6 134.6 203.1 151.4 129.3 174.0 84.6 133.9 140.1 96.9 66.8 55.6
26.1 52.8 30.3 38.3 30.5 38.1 29.9 18.5 15.7 11.7 13.6 21.4
2042 20990.9 18460.5 11291.2 10684.9 11769.0 8233.6 8354.5 4724.5 3950.5 2673.9 2151.0 2763.3 1131.4
1563.0 1513.3 1422.6 716.0 1010.6 503.2 1189.3 1051.3 507.1 892.9 1008.1 988.3 778.9 507.4 193.2
274.0 529.1 334.6 138.5 150.9 132.8 200.9 150.1 124.7 171.0 83.0 129.8 138.5 93.9 65.2 52.4

24.4 51.9 29.5 38.3 29.9 37.1 29.5 18.6 15.0 11.3 13.1 21.3
2043 20849.7 18311.8 11143.0 10580.7 11742.7 8125.5 8329.4 4708.7 3937.7 2647.5 2126.0 2758.6 1114.6
1556.6 1492.2 1397.2 702.2 997.7 500.8 1179.8 1041.5 492.9 884.6 1000.5 983.3 770.5 496.5 189.1
266.2 524.5 330.7 133.6 147.8 128.0 198.2 146.2 122.5 169.3 80.2 127.9 136.7 94.5 64.9 51.3
23.7 50.8 29.3 37.0 29.9 36.2 29.3 18.6 14.7 11.1 12.8 20.8
2044 20661.4 18160.5 11095.0 10474.2 11681.1 8041.3 8278.8 4676.4 3914.2 2620.6 2082.2 2746.9 1084.4
1528.7 1479.8 1385.9 680.7 983.4 486.1 1163.9 1026.1 477.3 871.0 994.4 979.2 756.8 486.5 181.3
262.2 520.4 328.2 129.4 144.2 123.8 196.8 143.1 120.7 167.3 79.0 126.0 134.1 92.8 63.1 50.5
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2045 20529.6 18037.7 10959.1 10394.4 11637.6 7972.4 8242.7 4648.3 3906.3 2600.1 2044.3 2742.7 1052.5
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255.8 514.3 325.0 125.2 140.9 120.2 194.1 140.1 115.8 165.8 76.6 122.4 133.3 89.7 60.6 49.9
20.7 48.2 28.3 36.1 29.5 36.3 28.3 17.8 13.8 10.2 12.0 19.9
2046 20351.1 17847.9 10854.9 10250.0 11556.2 7946.3 8187.0 4616.1 3881.2 2563.1 2019.0 2732.8 1041.0
1504.0 1443.0 1341.7 648.5 955.1 460.4 1139.0 1013.5 447.7 848.7 979.3 969.7 736.5 469.7 168.3
250.2 511.1 320.6 121.8 137.7 116.6 191.6 137.1 112.9 163.1 74.7 118.0 131.2 91.3 60.5 48.9
19.8 46.5 27.6 35.4 29.0 35.5 28.2 18.2 13.0 10.3 11.7 19.3
2047 20147.2 17686.0 10688.4 10140.3 11534.0 7822.2 8166.8 4603.1 3870.1 2535.4 2003.1 2728.3 1020.7
1500.0 1423.3 1317.2 634.4 941.5 453.4 1132.3 1001.7 436.3 842.5 971.2 964.7 730.3 462.7 165.4
245.1 506.0 316.9 117.5 135.2 113.4 189.5 135.0 107.3 161.0 72.8 115.4 130.2 90.5 59.4 47.9
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2048 19928.5 17508.9 10549.4 10022.3 11477.5 7749.6 8126.3 4576.9 3858.2 2505.6 1975.6 2711.1 992.8
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2049 19774.9 17333.8 10381.5 9892.2 11453.5 7681.2 8110.3 4563.1 3849.5 2473.6 1956.6 2706.0 969.2 1465.8
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308.7 112.7 128.5 108.8 185.5 131.4 101.5 156.7 69.7 109.1 125.7 89.0 56.7 46.2 17.5 44.3
26.6 32.7 28.2 33.9 27.3 18.1 11.8 9.7 10.4 18.2
2050 19684.9 17202.1 10261.1 9799.2 11396.1 7599.0 8071.8 4535.1 3835.1 2448.6 1934.8 2700.5 958.6 1459.6
1365.0 1249.1 588.4 899.5 431.0 1104.1 960.7 399.7 817.5 949.7 950.9 711.6 443.9 152.4 232.1 492.3
305.9 109.1 126.0 106.0 183.7 128.4 98.3 155.0 68.2 108.0 122.5 89.1 56.9 44.5 16.9 43.5 25.6
32.2 27.7 33.9 27.0 18.1 11.5 9.6 10.0 17.8
2051 19496.9 17048.9 10227.6 9705.8 11355.9 7533.2 8042.4 4514.7 3824.0 2423.7 1902.6 2688.3 940.3 1437.2
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303.9 106.1 123.6 103.8 181.2 126.7 95.6 153.3 66.2 103.6 121.7 87.2 55.7 44.3 16.0 42.8 25.4
32.7 27.5 33.5 26.5 17.7 10.9 9.1 9.7 17.5
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300.3 105.3 120.4 103.2 178.7 126.3 91.9 151.3 64.6 100.6 119.0 87.7 55.4 43.2 15.3 42.5 24.7
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2053 19152.2 16711.8 10025.2 9467.7 11316.2 7461.2 8006.3 4492.0 3807.8 2363.8 1869.5 2666.2 905.5 1403.6
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296.5 101.6 117.8 99.6 177.0 124.0 87.9 148.8 63.1 98.3 118.4 87.6 53.8 42.8 15.1 41.8 24.2
31.4 26.7 32.8 26.2 18.1 10.1 8.8 8.9 16.9
2054 18935.4 16504.0 9874.8 9323.8 11295.4 7382.2 7987.4 4471.8 3802.3 2326.9 1842.3 2662.4 886.8 1398.8
1299.4 1183.7 534.0 839.4 394.5 1069.6 931.7 358.9 782.6 923.2 934.5 694.4 425.0 135.4 213.8 475.1
292.7 100.7 116.1 98.7 175.5 123.1 84.4 146.2 61.9 95.2 117.1 85.5 52.8 41.9 14.0 41.3 24.1
31.1 26.7 32.6 26.0 17.6 9.7 8.6 8.6 16.7
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2077 16528.2 14267.4 8348.0 7823.2 10459.6 6262.9 7384.4 3991.8 3514.9 1956.1 1402.5 2511.1 581.6 1212.0
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2081 16224.8 14020.9 8221.9 7667.7 10372.4 6113.2 7312.4 3939.2 3481.1 1921.5 1354.1 2495.0 548.9 1202.0
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995.5 855.7 262.0 632.4 341.1 793.4 755.3 161.6 529.0 733.0 799.8 490.5 309.6 56.0 132.3 343.1
236.1 57.3 64.4 65.0 131.6 84.4 28.4 113.6 36.4 39.0 83.8 82.9 32.7 35.8 7.8 19.6 19.9
24.8 23.9 25.9 19.9 17.8 3.3 7.0 2.6 6.7
2096 15279.1 13272.6 7856.7 7212.4 9982.2 5847.6 7041.4 3719.0 3351.9 1817.5 1175.4 2431.8 450.7 1161.1
994.1 853.4 254.3 632.5 339.6 788.0 751.7 157.7 521.0 728.6 796.1 489.3 310.5 54.4 131.5 339.6
236.3 57.5 63.1 65.5 131.2 85.0 27.7 113.6 36.1 38.0 83.3 82.7 31.5 35.8 7.7 19.4 19.9

25.0 24.0 26.0 19.9 17.5 3.3 6.9 2.5 6.6
2097 15152.2 13207.0 7831.5 7175.3 9939.0 5827.0 7015.3 3696.3 3338.3 1808.2 1164.8 2427.0 446.6 1156.9
990.2 849.9 251.5 628.5 340.1 783.2 751.9 155.9 517.9 726.7 794.3 483.9 309.5 53.7 130.9 338.5
235.3 57.3 62.4 65.3 130.6 84.2 27.2 112.8 36.0 36.7 83.1 82.3 31.7 35.4 7.7 19.0 19.8
25.1 23.9 26.1 19.7 17.7 3.1 6.9 2.5 6.5
2098 15176.2 13203.3 7797.8 7172.1 9901.5 5834.8 6997.4 3680.9 3329.4 1807.6 1149.0 2423.8 440.4 1155.2
989.5 847.1 248.8 629.8 339.3 776.6 752.1 154.2 510.9 722.9 790.8 481.4 310.0 52.7 129.8 335.6
235.7 57.7 61.8 65.7 130.0 84.7 27.5 113.0 35.7 37.1 83.2 82.7 31.1 35.4 7.6 18.8 20.0
25.1 24.0 26.6 19.6 17.7 3.2 6.8 2.5 6.3
2099 15099.5 13169.5 7781.5 7153.7 9878.5 5796.6 6981.0 3665.6 3320.1 1803.9 1141.5 2417.6 439.5 1154.8
987.1 843.7 249.9 628.8 339.6 772.2 746.6 153.6 507.6 718.9 787.4 478.7 309.0 52.4 129.3 332.7
235.2 57.3 61.7 65.4 129.6 84.2 27.2 112.7 35.5 35.8 82.0 82.7 31.4 35.4 7.6 18.7 19.8
25.2 23.9 26.6 19.6 17.5 3.1 6.7 2.4 6.2
2100 15040.9 12202.3 6617.7 6515.4 9852.1 3663.6 6276.7 3654.9 3315.2 1802.7 1002.0 2416.4 439.0 1156.7
916.7 757.7 248.7 628.5 339.6 769.7 748.6 102.9 447.6 717.5 786.0 477.3 308.1 40.2 128.6 331.9
218.5 56.8 61.4 65.2 129.2 83.8 26.1 112.6 35.4 35.5 82.3 82.7 31.1 35.4 7.6 18.6 20.0
25.0 24.1 26.7 19.6 17.5 3.0 6.7 2.3 6.2

Computed glacier area (in km^2) for the 56 macroscale drainage basins over the period 1980 to 2100 for RCP4.5. Areas refer to multi-model means of 14 GCMs.
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Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year GlacierArea (km^2)
1980 27009.1 24647.4 16610.0 15177.0 13021.7 11212.8 9472.8 5495.5 4301.4 3943.6 3470.2 3026.3 2494.0 2371.0 2317.0 2295.5 1877.4 1677.2 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 739.9 682.9 485.7 408.4 374.4 347.1 315.9 284.8 269.3 267.9 248.4 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 46.4 45.9 40.6 37.9 33.3 32.1 31.9
1981 27011.9 24704.8 16636.5 15222.0 13021.7 11213.7 9472.8 5495.5 4301.4 3958.8 3470.2 3026.3 2494.0 2371.0 2321.2 2301.7 1877.4 1685.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 734.9 682.9 487.2 408.4 374.4 347.1 315.6 284.8 269.3 269.1 246.8 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 46.6 45.9 40.6 37.9 33.3 32.1 31.9
1982 27010.0 24672.4 16621.6 15194.5 13021.7 11213.2 9472.8 5495.5 4301.4 3948.4 3470.2 3026.3 2494.0 2371.0 2318.8 2297.6 1877.4 1680.0 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 732.1 682.9 486.2 408.4 374.4 347.1 315.2 284.8 269.3 268.3 245.9 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 46.7 45.9 40.6 37.9 33.3 32.1 31.9
1983 27013.3 24749.6 16659.8 15256.1 13021.7 11214.4 9472.8 5495.5 4301.4 3968.5 3470.2 3026.3 2494.0 2371.0 2324.9 2305.6 1877.4 1691.0 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 729.6 682.9 488.3 408.4 374.4 347.1 314.9 284.8 269.3 269.8 245.1 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 47.5 45.9 40.6 37.9 33.3 32.1 31.9
1984 27013.2 24754.5 16661.0 15256.8 13021.7 11214.6 9472.8 5495.5 4301.4 3968.3 3470.2 3026.3 2494.0 2371.0 2325.4 2305.4 1877.4 1690.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 726.4 682.9 488.4 408.4 374.4 347.1 314.7 284.8 269.3 269.9 244.1 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 47.9 45.9 40.6 37.9 33.3 32.1 31.9
1985 27015.3 24807.1 16685.8 15300.0 13021.7 11215.4 9472.8 5495.5 4301.4 3981.6 3470.2 3026.3 2494.0 2371.0 2330.0 2310.5 1877.4 1697.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 724.4 682.9 489.8 408.4 374.4 347.1 314.4 284.8 269.3 270.9 243.5 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 48.6 45.9 40.6 37.9 33.3 32.1 31.9
1986 27014.9 24803.9 16683.6 15294.4 13021.7 11215.4 9472.8 5495.5 4301.4 3980.1 3470.2 3026.3 2494.0 2371.0 2329.6 2309.6 1877.4 1696.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 719.6 682.9 489.7 408.4 374.4 347.1 314.0 284.8 269.3 270.8 241.9 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 49.3 45.9 40.6 37.9 33.3 32.1 31.9
1987 27015.3 24818.8 16688.7 15304.9 13021.7 11215.5 9472.8 5495.5 4301.4 3983.5 3470.2 3026.3 2494.0 2371.0 2330.9 2310.3 1877.4 1698.3 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 718.6 682.9 489.8 408.4 374.4 347.1 314.0 284.8 269.3 270.9 241.5 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 49.9 45.9 40.6 37.9 33.3 32.1 31.9
1988 27015.5 24823.5 16692.8 15308.4 13021.7 11215.7 9472.8 5495.5 4301.4 3983.7 3470.2 3026.3 2494.0 2371.0 2331.6 2310.8 1877.4 1698.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 711.9 682.9 490.0 408.4 374.4 347.1 313.2 284.8 269.3 271.1 239.4 247.1 237.8 199.1 159.5 145.7

134.5 86.4 76.1 71.2 64.1 50.0 45.9 40.6 37.9 33.3 32.1 31.9
1989 27015.6 24835.6 16698.6 15316.4 13021.7 11215.8 9472.8 5495.5 4301.4 3985.5 3470.2 3026.3 2494.0
2371.0 2332.3 2311.5 1877.4 1699.4 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
708.8 682.9 490.3 408.4 374.4 347.1 312.7 284.8 269.3 271.3 238.3 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.3 45.9 40.6 37.9 33.3 32.1 31.9
1990 27014.4 24813.5 16686.4 15297.5 13021.7 11215.6 9472.8 5495.5 4301.4 3979.0 3470.2 3026.3 2494.0
2371.0 2330.7 2308.9 1877.4 1695.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
703.0 682.9 489.6 408.4 374.4 347.1 311.6 284.8 269.3 270.8 236.3 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.2 45.9 40.6 37.9 33.3 32.1 31.9
1991 27013.4 24789.6 16673.8 15276.9 13021.7 11215.1 9472.8 5495.5 4301.4 3972.2 3470.2 3026.3 2494.0
2371.0 2328.7 2306.3 1877.4 1692.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
697.1 682.9 488.9 408.4 374.4 347.1 310.4 284.8 269.3 270.4 234.4 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.6 45.9 40.6 37.9 33.3 32.1 31.9
1992 27013.3 24789.2 16673.9 15277.0 13021.7 11215.1 9472.8 5495.5 4301.4 3971.8 3470.2 3026.3 2494.0
2371.0 2328.7 2306.3 1877.4 1692.3 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
692.9 682.9 488.8 408.4 374.4 347.1 309.8 284.8 269.3 270.3 232.9 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.5 45.9 40.6 37.9 33.3 32.1 31.9
1993 27012.5 24786.8 16670.6 15272.2 13021.7 11215.1 9472.8 5495.5 4301.4 3968.9 3470.2 3026.3 2494.0
2371.0 2328.6 2305.0 1877.4 1690.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
691.1 682.9 488.6 408.4 374.4 347.1 309.8 284.8 269.3 270.1 232.4 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.9 45.9 40.6 37.9 33.3 32.1 31.9
1994 27014.0 24815.1 16684.0 15295.2 13021.7 11215.5 9472.8 5495.5 4301.4 3977.1 3470.2 3026.3 2494.0
2371.0 2330.8 2308.2 1877.4 1695.2 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
687.0 682.9 489.4 408.4 374.4 347.1 309.2 284.8 269.3 270.9 231.1 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.4 45.9 40.6 37.9 33.3 32.1 31.9
1995 27012.8 24802.5 16676.8 15282.5 13021.7 11215.4 9472.8 5495.5 4301.4 3971.7 3470.2 3026.3 2494.0
2371.0 2329.4 2305.7 1877.4 1691.9 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
682.8 682.9 488.8 408.4 374.4 347.1 308.4 284.8 269.3 270.4 229.6 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.9 45.9 40.6 37.9 33.3 32.1 31.9
1996 27010.2 24737.4 16645.3 15231.0 13021.7 11214.4 9472.8 5495.5 4301.4 3955.1 3470.2 3026.3 2494.0
2371.0 2324.6 2299.3 1877.4 1682.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
677.1 682.9 487.3 408.4 374.4 347.1 307.6 284.8 269.3 269.3 227.7 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.9 45.9 40.6 37.9 33.3 32.1 31.9
1997 27009.3 24734.0 16642.5 15224.6 13021.7 11214.1 9472.8 5495.5 4301.4 3952.1 3470.2 3026.3 2494.0
2371.0 2324.1 2297.9 1877.4 1680.9 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
672.2 682.9 486.8 408.4 374.4 347.1 306.5 284.8 269.3 268.9 226.1 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.8 45.9 40.6 37.9 33.3 32.1 31.9
1998 27007.5 24687.4 16618.8 15186.9 13021.7 11213.4 9472.8 5495.5 4301.4 3939.3 3470.2 3026.3 2494.0
2371.0 2320.4 2293.0 1877.4 1674.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
664.3 682.9 485.6 408.4 374.4 347.1 305.3 284.8 269.3 268.1 223.4 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.4 45.9 40.6 37.9 33.3 32.1 31.9
1999 27003.7 24615.3 16582.5 15128.0 13021.7 11212.2 9472.8 5495.5 4301.4 3919.1 3470.2 3026.3 2494.0
2371.0 2314.8 2284.8 1877.4 1662.9 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
654.0 682.9 483.6 408.4 374.4 347.1 303.8 284.8 269.3 266.5 220.1 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.3 45.9 40.6 37.9 33.3 32.1 31.9
2000 27002.8 24595.9 16571.5 15111.6 13021.7 11211.9 9472.8 5495.5 4301.4 3912.5 3470.2 3026.3 2494.0
2371.0 2313.3 2282.3 1877.4 1660.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
646.7 682.9 483.0 408.4 374.4 347.1 302.5 284.8 269.3 266.0 217.6 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.8 45.9 40.6 37.9 33.3 32.1 31.9
2001 27000.1 24537.6 16541.5 15063.7 13021.7 11210.9 9472.8 5495.5 4301.4 3896.8 3470.2 3026.3 2494.0
2371.0 2308.3 2276.1 1877.4 1651.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
637.4 682.9 481.3 408.4 374.4 347.1 300.9 284.8 269.3 264.8 214.3 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.8 45.9 40.6 37.9 33.3 32.1 31.9
2002 26888.7 24452.4 16465.9 14993.1 13021.7 11153.7 9472.8 5495.5 4301.4 3875.7 3470.2 3021.0 2494.0

2346.2 2295.9 2265.5 1877.4 1640.7 1636.6 1632.9 1577.5 1518.5 1342.7 1246.3 1095.1 1034.8 903.9 741.8
629.0 679.3 479.0 408.4 374.4 347.1 299.3 284.8 269.3 263.2 211.4 247.1 233.7 199.1 159.5 143.5
134.5 86.4 73.9 71.2 62.1 53.2 45.9 40.6 37.9 33.3 32.1 31.9
2003 26862.4 24385.4 16366.9 14940.8 13021.7 11140.0 9472.8 5495.5 4301.4 3859.1 3470.2 3021.7 2494.0
2345.2 2285.1 2252.6 1877.4 1631.8 1636.6 1632.9 1577.9 1518.5 1342.7 1243.5 1093.2 1034.8 903.9 741.8
619.0 677.0 476.8 408.4 374.4 347.1 297.8 284.8 265.9 261.9 208.0 244.9 233.4 199.1 159.5 142.6
134.5 86.4 73.7 70.4 61.9 52.8 45.9 40.6 37.5 33.3 31.6 31.9
2004 26776.6 24313.3 16295.4 14885.6 13021.7 11075.7 9472.8 5495.5 4301.4 3841.5 3470.2 3016.9 2494.0
2329.6 2274.6 2245.0 1877.4 1622.9 1609.8 1632.9 1563.7 1518.5 1342.7 1238.8 1090.2 1034.8 903.9 741.8
609.0 673.6 475.2 408.4 374.4 347.1 296.0 284.8 264.7 260.8 204.7 243.8 230.9 197.0 159.5 141.2
132.6 86.4 72.6 70.4 60.8 52.8 45.5 38.9 37.3 32.0 31.5 31.9
2005 26668.0 24212.6 16207.0 14809.8 13021.7 11038.9 9472.8 5495.5 4301.4 3818.8 3470.2 3017.1 2494.0
2327.4 2259.0 2230.9 1877.4 1610.7 1591.7 1632.9 1557.5 1518.5 1342.7 1234.9 1087.8 1034.8 895.3 741.8
600.7 670.2 472.2 402.1 374.4 341.9 294.9 282.3 261.6 259.0 201.8 241.8 229.3 196.0 159.5 139.5
130.9 86.4 71.5 69.8 59.8 52.7 45.4 38.2 36.8 31.5 31.0 31.9
2006 26652.4 24196.9 16139.1 14799.2 13021.7 11015.2 9470.0 5495.5 4301.4 3816.1 3470.1 3016.7 2455.2
2319.3 2249.6 2226.4 1842.1 1609.8 1563.1 1632.9 1546.6 1491.1 1342.6 1231.5 1085.6 1034.8 888.7 721.2
588.9 668.0 471.8 397.6 367.9 338.1 292.7 279.7 259.3 258.8 197.6 240.0 227.3 194.0 155.8 137.0
128.6 86.4 70.9 69.4 59.1 52.4 45.0 36.9 36.5 30.2 30.6 31.9
2007 26588.0 24125.9 16058.0 14741.6 13021.7 10999.8 9468.3 5495.5 4301.4 3799.2 3470.0 3012.9 2443.9
2305.5 2236.6 2213.3 1830.5 1600.9 1536.8 1632.9 1532.4 1476.5 1342.4 1227.7 1083.3 1034.8 884.1 712.6
580.3 665.4 469.4 393.1 365.5 335.0 291.1 278.7 258.4 257.5 194.7 239.7 224.5 191.3 155.3 134.8
126.3 86.4 69.0 68.8 57.6 52.0 44.7 35.5 36.4 29.1 30.4 31.9
2008 26435.8 23991.0 15937.6 14639.2 13021.7 10930.5 9466.2 5495.5 4301.4 3769.2 3469.9 3011.7 2415.1
2299.3 2219.8 2198.0 1798.6 1585.0 1519.1 1632.9 1524.6 1453.5 1342.3 1223.9 1081.7 1034.8 871.8 700.8
571.8 662.4 466.1 386.0 359.2 328.2 289.7 274.0 255.8 255.3 191.7 237.4 222.6 191.5 153.0 132.6
124.7 86.4 68.7 68.4 57.1 52.0 44.5 34.5 35.9 28.2 30.0 31.9
2009 26378.5 23946.6 15872.1 14604.5 13021.7 10895.6 9464.7 5495.5 4301.4 3759.2 3469.8 3009.2 2393.7
2291.0 2209.2 2191.1 1779.6 1580.0 1497.5 1632.9 1505.2 1438.5 1342.2 1218.8 1079.1 1034.8 866.0 689.5
563.5 658.5 464.9 380.2 355.6 324.3 287.9 272.0 254.0 254.7 188.7 236.9 219.8 190.0 151.1 130.3
123.1 86.4 67.5 68.1 56.0 52.1 44.4 33.5 35.7 27.7 29.7 31.9
2010 26291.2 23823.9 15749.7 14509.5 13021.7 10849.5 9462.0 5495.5 4301.4 3730.3 3469.6 3005.8 2365.8
2272.0 2193.0 2173.3 1748.9 1564.8 1464.7 1632.9 1500.8 1411.6 1342.0 1213.3 1076.4 1034.8 858.4 672.8
558.0 654.8 461.6 374.5 349.0 319.8 287.1 269.3 250.0 252.5 186.8 233.8 217.9 187.9 149.3 127.8
120.5 86.4 66.3 67.6 54.9 51.9 44.0 32.1 35.1 26.7 29.1 31.9
2011 26188.4 23714.5 15654.9 14430.0 12995.7 10809.1 9436.6 5479.3 4294.1 3707.4 3428.4 3000.1 2330.3
2252.3 2175.6 2156.9 1717.7 1552.5 1432.9 1620.2 1478.8 1387.8 1328.5 1208.7 1075.1 1029.0 853.8 656.0
547.0 651.2 458.5 370.5 343.5 316.8 284.6 268.2 246.8 250.7 182.8 231.4 214.5 185.3 145.6 125.0
117.6 85.7 64.6 66.7 53.4 52.1 43.6 30.6 34.6 25.3 28.6 31.6
2012 26032.6 23539.3 15542.9 14295.4 12983.5 10782.4 9420.5 5466.0 4291.0 3669.3 3398.6 2981.9 2298.6
2199.8 2155.5 2138.3 1683.0 1532.0 1384.3 1611.1 1467.5 1357.6 1319.8 1204.3 1073.6 1026.9 836.9 635.3
534.7 648.1 454.5 358.4 336.3 307.0 282.2 261.6 243.9 247.8 178.4 228.6 212.4 180.5 144.2 122.8
113.3 85.4 63.2 66.5 51.9 51.9 42.9 28.8 34.0 24.1 28.1 31.6
2013 25951.0 23481.5 15463.8 14253.4 12950.4 10723.3 9393.0 5451.3 4281.2 3655.4 3373.2 2987.1 2261.3
2209.9 2142.8 2125.0 1652.6 1525.0 1359.4 1601.8 1446.3 1331.5 1310.1 1199.7 1072.1 1019.9 823.1 617.7
523.3 645.0 452.5 348.3 330.4 299.0 279.8 256.9 240.6 246.7 174.2 227.3 208.6 180.1 140.3 121.0
110.6 84.5 60.9 65.4 50.5 51.6 42.7 28.1 33.6 23.6 27.6 31.4
2014 25848.8 23347.5 15373.6 14152.8 12943.5 10717.8 9376.1 5431.3 4278.8 3627.4 3333.5 2981.6 2216.5
2185.1 2122.3 2108.2 1609.7 1510.0 1323.2 1589.9 1435.2 1298.5 1297.7 1194.6 1070.7 1016.9 816.9 595.6
514.7 641.5 449.1 341.7 322.9 294.6 277.9 254.4 237.5 244.6 170.9 223.4 206.5 175.2 136.8 118.1
107.2 84.1 60.4 65.2 49.8 51.4 42.3 26.9 32.9 22.7 27.2 31.3
2015 25758.9 23236.8 15218.4 14075.4 12903.7 10635.7 9344.7 5414.4 4267.6 3603.2 3291.2 2973.8 2174.0
2154.3 2104.9 2089.2 1573.7 1497.6 1276.8 1576.2 1420.8 1260.9 1283.2 1189.8 1069.2 1008.7 803.0 572.6
503.1 638.8 446.1 331.7 315.7 286.8 275.3 249.7 234.7 242.8 166.8 222.0 204.4 172.1 134.1 114.9

102.5 83.1 58.9 63.9 48.6 51.6 41.5 25.9 32.5 21.9 26.8 31.0
2016 25609.1 23130.5 15113.3 13997.0 12908.1 10560.5 9334.6 5405.9 4267.7 3582.4 3258.4 2964.3 2120.0
2122.0 2085.6 2070.4 1527.2 1486.8 1239.7 1566.7 1396.9 1225.1 1272.5 1184.5 1067.2 1008.3 786.8 552.4
494.9 635.6 443.1 321.2 307.2 278.1 273.1 244.6 229.6 241.3 163.7 218.6 200.1 169.4 129.3 111.8
98.9 83.0 56.8 62.8 47.1 50.9 41.1 25.1 31.9 21.2 26.1 30.9
2017 25447.1 22995.1 15031.2 13893.2 12855.1 10489.3 9292.1 5376.3 4255.2 3551.8 3200.9 2958.2 2083.2
2102.6 2067.1 2054.3 1503.8 1470.6 1199.5 1550.1 1386.2 1188.7 1253.7 1177.7 1064.7 1000.7 773.7 528.9
484.7 631.3 439.8 311.5 302.4 270.7 271.0 239.8 226.1 239.0 160.0 216.9 198.2 166.6 128.2 109.5
94.8 82.0 55.8 62.5 46.4 50.5 40.5 24.9 31.4 20.7 25.5 30.6
2018 25328.9 22851.0 14882.0 13795.4 12852.4 10480.6 9277.6 5366.9 4250.7 3523.9 3172.2 2948.0 2038.1
2070.1 2045.7 2030.7 1453.8 1456.3 1156.5 1540.3 1374.1 1149.7 1244.6 1173.4 1063.4 997.0 762.6 515.1
476.9 628.6 436.0 302.3 292.3 264.0 268.4 236.0 222.1 236.9 157.2 213.5 195.3 160.6 124.7 106.5
91.4 81.6 54.5 61.2 45.6 50.2 40.1 23.9 30.7 19.8 25.0 30.5
2019 25207.5 22720.1 14758.2 13691.4 12801.4 10419.7 9237.7 5338.8 4239.1 3493.8 3122.6 2944.7 1995.8
2051.8 2028.8 2010.5 1415.8 1440.7 1133.2 1524.4 1363.8 1116.9 1228.8 1169.9 1062.4 989.6 749.5 497.0
467.0 626.3 432.5 294.6 285.1 256.8 266.1 232.0 220.8 234.8 153.5 212.1 193.4 160.2 122.0 102.7
88.3 80.6 52.9 60.6 44.4 49.9 39.9 24.1 30.4 19.7 24.7 30.2
2020 25118.9 22560.3 14648.4 13572.0 12803.5 10370.4 9226.0 5332.6 4238.9 3456.7 3094.9 2934.1 1956.6
2028.9 2007.4 1987.8 1375.4 1421.4 1094.9 1515.3 1354.5 1083.6 1218.9 1162.2 1059.3 987.4 739.0 485.2
457.8 621.3 428.0 287.1 277.3 251.2 263.4 228.0 215.0 232.0 150.3 208.8 191.7 156.4 119.3 97.9
84.1 80.2 52.4 59.7 44.0 49.5 39.2 23.8 29.7 19.2 24.0 29.9
2021 24897.1 22371.9 14488.5 13418.4 12770.8 10298.2 9191.9 5311.6 4229.5 3415.5 3059.0 2931.1 1923.3
2012.6 1985.6 1963.1 1346.5 1399.8 1068.4 1502.7 1332.2 1052.1 1206.6 1156.1 1057.1 982.5 725.8 470.0
449.6 617.4 423.3 278.0 271.1 243.7 261.2 223.2 213.4 228.9 147.1 205.5 187.6 155.8 117.0 96.3
81.1 79.6 50.1 58.8 42.5 49.4 38.9 23.6 29.0 19.0 23.8 29.7
2022 24728.4 22182.0 14345.1 13298.1 12728.4 10226.8 9151.8 5276.9 4221.4 3380.0 2987.4 2921.0 1865.8
1977.8 1963.0 1937.7 1301.6 1382.0 1027.2 1482.0 1322.3 1010.6 1180.9 1149.8 1054.8 976.1 716.5 441.8
438.7 613.5 418.8 269.5 262.7 237.8 258.5 219.0 208.4 226.4 143.0 202.0 185.8 151.2 113.4 94.4
76.9 78.7 48.9 57.7 41.7 49.4 38.3 23.1 28.4 18.4 23.1 29.3
2023 24501.9 22005.6 14236.2 13165.0 12694.8 10150.3 9125.9 5259.5 4212.3 3344.4 2954.9 2913.5 1827.2
1959.7 1941.8 1915.5 1271.7 1363.6 983.9 1470.4 1301.3 979.6 1170.0 1144.1 1052.8 970.4 698.8 427.7
431.0 609.7 414.7 259.3 256.6 228.7 256.2 213.0 205.7 223.6 140.1 197.7 182.7 145.4 110.9 92.1
73.0 77.7 47.5 57.0 40.7 49.3 37.7 22.4 27.6 17.8 22.8 29.1
2024 24381.2 21855.5 14100.1 13066.0 12651.1 10066.7 9079.8 5228.7 4199.7 3315.0 2894.6 2905.3 1774.4
1925.7 1919.5 1893.6 1227.7 1349.1 951.6 1451.1 1283.9 940.7 1149.7 1137.0 1050.0 960.9 691.2 407.6
418.9 605.6 410.9 254.3 248.9 224.3 253.2 210.4 200.8 221.7 135.7 194.3 179.1 141.5 106.7 90.5
69.9 76.7 45.7 56.1 39.6 48.7 37.1 22.3 26.9 17.3 22.2 28.5
2025 24095.3 21643.4 13913.8 12909.2 12602.7 9908.6 9041.1 5203.4 4187.5 3273.4 2852.6 2897.3 1739.1
1907.5 1893.2 1860.8 1205.1 1327.7 918.3 1437.0 1274.4 913.3 1134.3 1129.8 1047.2 952.1 675.4 390.6
410.9 601.5 405.4 243.8 244.2 216.2 251.0 204.7 196.2 218.4 132.7 189.3 177.5 138.8 105.3 88.0
66.4 75.4 44.6 54.3 39.0 47.9 36.7 22.1 25.9 17.1 21.7 28.2
2026 23943.8 21430.3 13754.5 12759.3 12557.7 9838.3 8996.6 5170.1 4173.9 3231.4 2794.8 2882.8 1682.0
1859.9 1867.0 1835.1 1155.4 1306.4 884.9 1418.3 1257.6 875.1 1115.5 1122.5 1044.4 942.0 667.1 372.4
402.7 597.2 400.6 237.6 234.9 211.3 248.3 201.4 191.9 215.4 129.7 185.4 174.3 134.6 100.5 87.4
63.6 74.2 43.2 53.4 37.9 47.1 36.0 21.7 25.1 16.4 21.2 27.7
2027 23710.6 21200.9 13551.6 12594.5 12513.7 9702.5 8965.3 5149.3 4162.8 3184.5 2765.5 2875.5 1655.9
1839.9 1839.7 1798.0 1128.0 1282.5 852.2 1406.5 1242.0 849.8 1106.6 1116.3 1041.8 933.3 649.7 364.9
389.7 593.1 394.8 227.0 229.1 202.5 244.2 196.6 186.9 211.8 125.0 181.5 171.5 130.4 99.8 84.5
60.4 72.8 41.9 51.9 37.2 47.0 35.6 21.3 24.3 16.0 20.5 27.5
2028 23415.0 20942.0 13305.6 12403.4 12478.6 9615.5 8926.4 5126.2 4148.7 3132.7 2707.6 2865.4 1601.2
1815.1 1809.9 1763.3 1087.7 1255.7 817.3 1387.9 1227.7 817.4 1086.8 1108.9 1038.7 924.0 642.1 348.1
384.9 588.9 388.3 221.3 221.8 198.5 242.3 194.3 181.7 208.0 123.1 177.3 169.5 127.8 95.5 82.3
56.9 71.7 41.6 50.1 36.9 46.2 35.0 20.8 23.5 15.6 19.9 27.1
2029 23222.8 20770.2 13140.1 12278.9 12428.1 9501.3 8879.0 5095.1 4136.7 3098.9 2656.6 2862.5 1568.3

1803.1 1783.1 1731.1 1062.1 1238.8 789.1 1370.6 1209.2 787.7 1069.6 1101.5 1035.7 916.2 634.9 332.8
377.3 584.2 383.4 215.7 217.0 194.6 239.9 191.3 176.3 205.5 120.3 172.2 165.6 124.9 93.8 79.9
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2030 23067.7 20594.3 12931.5 12157.7 12390.4 9405.4 8844.6 5061.1 4127.6 3065.2 2610.1 2850.4 1513.8
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366.1 579.1 378.8 203.1 208.8 183.7 236.0 183.9 170.7 203.2 116.2 168.5 163.4 122.5 89.6 77.5
50.2 69.5 38.9 47.1 35.3 44.3 34.0 20.4 21.9 15.1 18.6 26.2
2031 22904.7 20423.5 12800.2 12031.8 12340.5 9333.7 8797.4 5031.8 4116.6 3032.0 2557.4 2846.5 1471.1
1760.8 1738.3 1676.1 984.9 1204.9 737.5 1337.7 1172.7 726.8 1034.7 1086.1 1028.2 900.2 606.3 303.1
360.3 574.9 374.8 197.6 202.7 180.0 234.6 181.5 166.5 200.8 114.1 164.4 159.6 121.4 86.6 75.1
47.3 68.4 37.8 46.2 34.6 43.1 33.7 20.5 21.3 14.7 18.1 25.7
2032 22710.0 20251.9 12636.7 11912.4 12292.2 9182.6 8754.0 4993.7 4103.6 3000.4 2502.9 2837.6 1427.9
1737.6 1716.9 1651.5 954.0 1189.0 702.8 1319.3 1158.4 699.9 1015.1 1078.7 1024.7 890.2 596.8 287.6
352.4 569.8 370.8 191.2 197.1 175.1 231.7 178.0 162.0 198.3 111.1 160.2 157.1 116.4 83.5 73.2
44.2 66.9 37.0 45.7 34.2 42.7 33.0 19.7 20.6 14.2 17.5 25.4
2033 22543.4 20026.5 12417.1 11742.0 12238.3 9118.9 8705.2 4965.1 4086.2 2953.9 2466.6 2830.0 1386.2
1714.2 1690.5 1617.8 921.9 1165.7 681.4 1306.3 1143.1 677.1 1002.1 1070.4 1020.1 878.4 583.7 276.8
344.7 565.5 365.0 184.2 191.7 168.9 229.0 174.4 157.3 195.1 108.1 157.4 154.1 114.2 81.4 70.4
41.8 65.6 35.6 44.1 33.3 42.4 32.6 19.6 20.0 13.7 16.8 24.8
2034 22326.5 19845.9 12275.9 11618.2 12189.7 8973.9 8664.2 4934.3 4076.2 2921.4 2424.5 2817.6 1334.7
1689.0 1666.2 1593.7 882.5 1149.1 646.0 1291.1 1123.0 647.5 985.3 1063.2 1016.3 870.6 573.5 263.4
335.5 560.8 360.9 178.6 184.3 164.1 225.8 171.3 153.7 192.8 104.7 152.7 150.7 110.2 76.8 69.6
38.5 64.3 34.3 43.3 32.5 41.7 32.0 19.1 19.3 13.1 16.4 24.3
2035 22076.6 19581.7 12101.9 11422.3 12155.4 8850.2 8627.0 4913.6 4061.8 2868.1 2387.4 2809.8 1301.2
1665.3 1641.1 1565.9 854.2 1122.1 623.1 1278.7 1104.2 623.3 973.4 1056.3 1012.0 860.6 556.4 253.6
327.1 557.5 355.1 169.2 178.9 156.0 223.1 166.0 148.7 188.9 101.5 149.6 147.8 107.9 75.1 66.1
36.3 63.1 33.0 42.7 31.8 41.6 31.6 18.9 18.7 12.7 15.9 23.8
2036 21816.3 19347.0 11926.1 11243.8 12087.9 8727.9 8576.7 4878.6 4047.6 2822.5 2338.9 2797.5 1259.6
1636.1 1610.5 1532.6 826.0 1098.4 601.6 1261.5 1086.3 598.5 956.2 1048.6 1008.3 851.7 553.6 241.0
322.4 552.8 348.9 167.5 173.6 154.6 220.7 164.8 145.2 185.8 99.5 145.6 144.2 105.8 72.0 64.2
34.1 61.9 31.7 41.5 31.0 40.5 31.3 18.9 18.1 12.5 15.4 23.3
2037 21582.0 19067.6 11715.1 11029.2 12037.5 8697.2 8530.4 4843.2 4030.7 2765.2 2291.3 2787.7 1229.2
1608.9 1583.5 1498.6 800.4 1069.2 581.3 1246.2 1068.9 575.9 940.1 1040.4 1003.1 840.7 538.5 229.7
313.3 548.3 342.3 158.9 168.7 147.6 217.6 160.0 140.9 181.3 96.4 141.4 141.5 104.0 70.5 62.5
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2038 21431.5 18961.4 11585.1 10973.7 11982.4 8537.1 8480.6 4805.7 4012.0 2751.1 2237.3 2772.3 1178.5
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2039 21166.9 18656.8 11364.3 10746.2 11946.3 8491.7 8451.5 4793.0 3998.1 2689.0 2219.9 2757.1 1168.5
1540.8 1530.0 1440.4 751.6 1031.9 529.9 1219.9 1044.7 535.5 915.2 1023.6 993.6 822.4 517.4 212.8
297.1 537.9 332.0 147.8 159.5 138.0 212.1 153.3 130.0 175.8 90.5 130.8 137.6 96.5 65.0 57.9
27.7 58.2 28.2 38.5 28.8 38.8 29.5 17.7 15.7 10.8 13.8 21.9
2040 20885.2 18440.5 11231.9 10595.9 11879.1 8379.7 8402.1 4767.7 3977.8 2652.4 2179.1 2748.9 1132.0
1520.2 1504.6 1414.4 726.8 1013.2 514.2 1206.1 1030.1 515.0 899.6 1013.8 988.1 809.3 506.0 202.1
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26.0 56.7 26.9 37.5 28.2 38.1 29.3 18.1 15.1 10.5 13.0 21.3
2041 20627.2 18156.0 11043.2 10380.2 11829.8 8239.5 8353.8 4731.5 3959.5 2594.8 2133.9 2739.6 1105.8
1501.3 1476.3 1380.3 706.4 984.3 490.0 1190.2 1017.8 494.2 885.4 1005.9 983.2 798.2 497.4 192.3
280.3 526.6 320.5 138.1 151.0 129.3 206.2 147.0 119.7 169.1 84.5 122.8 133.2 91.8 61.1 56.5
24.2 55.2 26.8 36.7 28.1 37.2 28.6 17.7 14.4 10.1 12.5 20.8
2042 20346.8 17955.8 10911.4 10247.7 11796.3 8138.2 8325.7 4713.0 3949.1 2563.9 2104.6 2731.0 1069.2
1482.3 1456.4 1360.7 679.2 968.9 470.3 1180.0 1000.7 477.4 874.0 997.2 977.8 790.8 484.4 185.3
274.6 522.2 316.6 131.3 146.3 123.4 203.8 142.7 114.7 167.0 82.4 118.3 130.0 89.2 59.0 54.3

22.4 54.3 25.4 36.2 27.3 36.5 28.1 17.5 13.6 9.6 11.9 20.4
2043 20155.8 17760.4 10729.9 10106.0 11726.4 8005.8 8273.3 4681.8 3927.2 2527.3 2069.2 2727.2 1046.3
1477.9 1432.6 1332.9 659.8 951.1 452.1 1166.0 984.2 460.6 863.7 989.4 972.9 778.6 473.5 179.0
267.6 517.2 311.7 125.9 142.5 119.0 201.0 139.4 110.4 164.3 79.9 113.6 127.7 86.7 57.7 53.1
20.8 52.8 24.9 35.0 27.2 35.6 27.6 17.2 12.8 9.3 11.4 19.9
2044 19930.7 17549.4 10564.9 9960.4 11690.0 7872.0 8244.2 4660.2 3917.2 2490.4 2048.0 2710.0 1016.9
1444.3 1407.7 1308.5 637.4 933.6 440.2 1157.7 970.7 445.8 854.9 981.0 967.5 772.5 463.0 174.1
260.5 512.5 307.4 121.9 138.3 114.9 198.2 135.9 106.3 161.8 77.4 109.5 125.3 85.3 55.6 51.6
19.8 52.0 24.1 34.3 26.6 35.0 27.3 17.1 12.1 9.0 11.0 19.5
2045 19776.0 17435.2 10419.6 9888.8 11610.2 7735.5 8185.1 4616.4 3890.6 2472.9 1998.7 2696.5 976.1 1420.2
1386.9 1287.9 610.5 925.6 415.0 1140.2 961.5 425.3 838.0 973.3 962.5 755.8 454.3 163.8 254.8 507.8
304.5 117.5 133.5 111.1 195.8 133.1 103.4 160.5 75.4 106.4 123.8 81.7 53.1 49.9 18.1 49.8
23.5 33.3 26.2 34.4 26.5 16.6 11.6 8.5 10.6 18.9
2046 19525.1 17206.4 10268.5 9732.4 11538.0 7619.1 8133.6 4582.2 3869.5 2434.0 1963.6 2683.2 952.9 1402.1
1363.9 1265.5 592.6 906.8 399.3 1126.1 948.1 408.8 825.5 965.0 957.3 745.9 447.3 157.6 247.5 502.7
299.9 115.0 130.2 108.5 193.2 131.6 100.6 157.9 73.0 103.4 121.7 80.6 52.2 48.8 16.7 48.8
23.0 32.6 25.9 33.9 25.9 16.7 11.2 8.2 10.3 18.2
2047 19267.2 16963.9 10037.1 9555.5 11512.9 7503.8 8106.4 4564.0 3860.5 2390.8 1939.5 2680.3 931.6 1397.7
1334.7 1231.0 577.4 885.5 390.5 1117.3 935.2 394.8 817.6 956.9 951.9 740.1 436.8 153.4 240.4 497.8
293.9 110.0 126.9 104.2 190.3 127.9 95.9 154.8 70.5 97.9 119.8 80.5 50.9 48.3 15.9 48.1 22.9
31.1 25.9 33.4 25.4 16.6 10.3 8.1 9.8 18.0
2048 19031.7 16735.4 9931.1 9400.7 11443.8 7469.4 8061.8 4533.0 3838.3 2351.0 1912.7 2668.8 909.6 1378.4
1312.2 1209.4 562.1 866.4 379.3 1106.6 916.9 384.2 807.3 948.8 947.0 728.3 428.5 148.8 233.6 492.8
289.5 106.5 124.2 100.9 187.4 125.6 93.5 152.3 68.2 94.6 117.1 79.6 50.2 46.8 14.8 46.9 22.2
30.8 25.4 32.4 25.1 16.6 9.9 8.1 9.5 17.4
2049 18727.8 16444.1 9718.6 9192.2 11394.1 7331.9 8018.6 4503.5 3821.2 2297.6 1874.6 2664.0 884.2 1372.4
1281.8 1177.1 542.0 840.1 367.8 1091.8 896.8 367.5 794.6 940.4 941.7 718.3 420.7 142.9 228.2 486.7
282.6 102.1 120.4 97.8 185.3 122.7 89.6 148.2 66.4 91.7 114.4 77.7 48.7 45.3 14.0 45.5 21.6
29.6 25.1 32.2 24.7 16.5 9.5 7.8 9.1 17.0
2050 18458.0 16226.4 9568.4 9040.2 11333.1 7194.2 7975.9 4467.5 3803.5 2259.1 1837.1 2651.9 858.2 1350.2
1258.9 1152.3 526.7 822.4 352.5 1078.7 884.8 356.6 781.4 932.0 936.4 709.2 412.1 136.3 221.3 481.2
278.2 99.3 117.6 95.1 182.3 120.3 85.2 145.5 64.1 86.9 112.2 76.1 47.5 44.9 12.8 44.6 20.7
29.1 24.5 31.0 24.2 16.1 8.8 7.4 8.7 16.5
2051 18202.2 15986.4 9420.1 8877.8 11264.8 7113.3 7927.7 4435.9 3782.4 2219.3 1805.5 2641.1 833.1 1333.6
1236.8 1129.4 507.5 802.7 342.1 1065.4 869.9 341.4 770.0 924.1 931.4 697.6 403.4 130.8 214.7 476.4
273.1 95.1 114.1 91.6 179.8 117.6 81.8 142.6 62.0 85.2 110.0 74.5 46.1 43.3 12.0 43.1 20.2
28.3 24.2 30.2 23.6 15.9 8.7 7.0 8.3 15.9
2052 17976.0 15774.2 9269.6 8732.7 11200.0 7013.2 7881.2 4398.7 3755.1 2181.0 1766.7 2635.6 802.8 1326.1
1214.6 1106.8 490.0 785.4 327.8 1052.3 856.6 330.2 756.2 915.8 926.3 680.2 390.9 123.0 207.2 470.7
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2053 17750.1 15572.0 9148.5 8593.1 11139.1 6914.1 7838.0 4367.8 3736.4 2148.1 1729.3 2622.4 775.0 1306.5
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2056 17102.3 14964.3 8726.0 8181.9 10965.3 6575.3 7711.1 4269.7 3679.6 2045.8 1630.7 2593.2 702.7 1264.7

1136.4 1024.4 426.0 722.6 277.9 1002.5 808.7 286.0 707.0 886.3 907.2 642.1 360.7 99.2 185.4 450.7
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2079 12574.8 10776.4 6129.9 5498.1 9796.8 4543.4 6918.4 3639.9 3309.9 1364.0 1098.5 2374.5 369.5 1009.6
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2093 10635.1 9023.8 5131.6 4508.3 9116.3 3866.6 6499.9 3297.1 3106.2 1110.5 873.9 2240.2 264.7 893.7
624.2 523.6 145.0 351.0 143.3 686.4 511.1 97.1 389.1 642.5 723.0 400.2 179.4 25.8 79.3 291.9
143.8 24.3 39.2 33.8 108.0 46.6 21.1 72.6 22.5 18.4 52.4 43.0 17.5 18.5 1.8 14.0 8.7
16.4 15.7 13.1 9.0 11.4 1.5 1.7 2.0 4.2
2094 10454.4 8888.8 5063.4 4432.2 9048.3 3796.2 6461.2 3267.5 3080.6 1091.9 863.9 2229.4 265.5 886.2
615.3 515.5 145.2 344.4 141.4 681.0 504.7 96.2 384.9 636.5 717.9 391.9 177.2 25.7 77.9 288.6
142.0 23.9 39.0 33.5 107.0 45.8 20.5 71.7 22.2 17.8 51.0 42.6 17.7 18.5 1.7 13.4 8.4
16.3 15.5 13.2 8.7 11.5 1.5 1.7 1.9 4.0
2095 10345.8 8790.0 5005.5 4376.6 9006.0 3776.3 6437.7 3248.5 3072.8 1078.4 852.9 2218.1 261.1 876.5
609.3 509.0 141.9 339.9 142.9 675.9 503.2 94.1 379.5 630.9 712.7 388.8 173.2 25.1 76.6 284.9
140.3 23.3 38.0 32.8 106.0 44.1 20.5 70.8 21.8 17.2 50.7 43.1 17.5 18.0 1.7 13.0 8.2
16.4 15.3 12.9 8.7 11.5 1.4 1.7 1.9 3.9
2096 10246.0 8710.6 4968.8 4337.4 8968.1 3739.7 6413.8 3229.0 3059.4 1067.5 844.4 2213.1 258.7 874.8
601.9 503.0 140.8 337.1 142.3 671.3 496.5 93.0 375.7 624.7 707.0 384.6 171.7 25.0 75.3 280.8
139.3 23.2 37.6 32.6 105.3 43.7 19.6 70.3 21.5 17.1 49.3 43.2 17.4 18.3 1.7 12.7 8.1

16.2 15.3 12.6 8.5 11.7 1.4 1.6 1.8 3.8
2097 10166.6 8631.3 4921.8 4289.5 8906.1 3717.9 6377.4 3201.7 3043.3 1056.7 828.2 2200.7 252.2 866.9
595.5 498.1 137.4 333.3 139.0 664.4 493.3 90.4 368.0 620.0 702.1 378.6 166.6 24.0 74.0 277.7
138.1 22.3 36.6 31.7 104.5 41.9 19.7 69.6 21.1 16.6 48.7 42.3 17.1 18.1 1.6 12.3 7.9
16.2 15.1 12.6 8.4 11.6 1.4 1.6 1.8 3.7
2098 10046.7 8527.0 4862.8 4231.5 8870.9 3706.7 6355.0 3181.6 3032.2 1042.6 816.0 2193.8 244.8 863.2
585.9 489.5 132.7 329.0 140.7 659.4 484.8 88.4 361.7 615.3 697.7 376.2 165.3 23.5 73.8 274.5
136.5 22.1 35.7 31.6 104.2 41.6 19.0 68.8 21.1 16.2 46.9 42.4 16.7 18.1 1.6 12.1 7.6
16.0 14.8 12.4 8.4 11.6 1.3 1.6 1.7 3.6
2099 9896.0 8413.0 4807.6 4170.0 8795.5 3635.7 6318.3 3147.5 3016.7 1026.7 797.0 2182.1 240.4 855.6
581.0 484.6 131.0 323.6 138.5 650.9 483.8 86.3 353.0 609.8 692.8 371.2 164.6 22.4 72.5 270.8
135.2 21.8 34.9 31.7 103.3 41.3 19.0 67.9 20.8 15.8 47.1 41.8 16.6 17.9 1.6 11.7 7.7
16.2 14.9 12.3 8.3 11.6 1.4 1.6 1.7 3.5
2100 9016.4 8182.8 3872.7 4121.7 8773.5 2296.6 5748.5 3138.7 3012.1 1020.7 704.1 2176.5 239.3 853.5
512.9 418.5 130.4 321.7 138.5 649.2 480.6 43.1 310.9 607.9 690.8 369.9 162.5 10.2 71.6 269.3
118.7 21.5 34.8 31.3 102.7 40.6 18.9 67.7 20.6 15.4 46.4 41.8 16.4 17.7 1.6 11.6 7.6
16.1 14.9 12.1 8.3 11.6 1.3 1.6 1.8 3.4

Computed glacier area (in km^2) for the 56 macroscale drainage basins over the period 1980 to 2100 for RCP8.5. Areas refer to multi-model means of 14 GCMs.
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Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year GlacierArea (km^2)
1980 27009.2 24647.6 16609.9 15176.1 13021.7 11212.8 9472.8 5495.5 4301.4 3943.4 3470.2 3026.3 2494.0 2371.0 2317.0 2295.6 1877.4 1677.2 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 740.1 682.9 485.7 408.4 374.4 347.1 315.2 284.8 269.3 267.9 248.4 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 46.4 45.9 40.6 37.9 33.3 32.1 31.9
1981 27011.7 24703.1 16635.5 15219.2 13021.7 11213.5 9472.8 5495.5 4301.4 3958.2 3470.2 3026.3 2494.0 2371.0 2321.6 2301.2 1877.4 1685.3 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 735.7 682.9 487.2 408.4 374.4 347.1 314.9 284.8 269.3 268.9 247.1 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 46.6 45.9 40.6 37.9 33.3 32.1 31.9
1982 27009.7 24669.1 16620.3 15190.4 13021.7 11213.0 9472.8 5495.5 4301.4 3947.6 3470.2 3026.3 2494.0 2371.0 2319.0 2296.9 1877.4 1679.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 733.1 682.9 486.3 408.4 374.4 347.1 314.6 284.8 269.3 268.2 246.2 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 46.8 45.9 40.6 37.9 33.3 32.1 31.9
1983 27013.2 24746.7 16658.4 15251.7 13021.7 11214.0 9472.8 5495.5 4301.4 3968.0 3470.2 3026.3 2494.0 2371.0 2325.2 2305.2 1877.4 1690.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 731.1 682.9 488.3 408.4 374.4 347.1 314.4 284.8 269.3 269.9 245.5 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 47.7 45.9 40.6 37.9 33.3 32.1 31.9
1984 27012.7 24746.9 16658.5 15249.0 13021.7 11214.1 9472.8 5495.5 4301.4 3966.6 3470.2 3026.3 2494.0 2371.0 2325.4 2304.3 1877.4 1689.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 728.5 682.9 488.2 408.4 374.4 347.1 314.2 284.8 269.3 269.8 244.6 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 48.0 45.9 40.6 37.9 33.3 32.1 31.9
1985 27014.9 24799.4 16682.7 15290.4 13021.7 11214.9 9472.8 5495.5 4301.4 3979.7 3470.2 3026.3 2494.0 2371.0 2329.7 2309.5 1877.4 1696.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 726.9 682.9 489.5 408.4 374.4 347.1 314.0 284.8 269.3 270.8 244.1 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 48.8 45.9 40.6 37.9 33.3 32.1 31.9
1986 27014.3 24793.1 16679.7 15282.7 13021.7 11214.8 9472.8 5495.5 4301.4 3977.7 3470.2 3026.3 2494.0 2371.0 2329.1 2307.9 1877.4 1695.1 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 722.8 682.9 489.4 408.4 374.4 347.1 313.7 284.8 269.3 270.5 242.7 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 49.5 45.9 40.6 37.9 33.3 32.1 31.9
1987 27014.8 24807.2 16683.9 15291.9 13021.7 11214.8 9472.8 5495.5 4301.4 3980.6 3470.2 3026.3 2494.0 2371.0 2330.2 2308.8 1877.4 1697.0 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 722.0 682.9 489.7 408.4 374.4 347.1 313.6 284.8 269.3 270.8 242.3 247.1 237.8 199.1 159.5 145.7 134.5 86.4 76.1 71.2 64.1 50.1 45.9 40.6 37.9 33.3 32.1 31.9
1988 27014.7 24809.2 16687.6 15292.9 13021.7 11215.0 9472.8 5495.5 4301.4 3980.6 3470.2 3026.3 2494.0 2371.0 2330.9 2308.7 1877.4 1696.7 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8 715.9 682.9 489.6 408.4 374.4 347.1 312.9 284.8 269.3 270.8 240.3 247.1 237.8 199.1 159.5 145.7

134.5 86.4 76.1 71.2 64.1 50.2 45.9 40.6 37.9 33.3 32.1 31.9
1989 27014.8 24819.9 16693.6 15300.3 13021.7 11215.2 9472.8 5495.5 4301.4 3982.3 3470.2 3026.3 2494.0
2371.0 2331.7 2309.1 1877.4 1697.4 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
713.1 682.9 489.9 408.4 374.4 347.1 312.4 284.8 269.3 271.0 239.4 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.6 45.9 40.6 37.9 33.3 32.1 31.9
1990 27013.6 24795.4 16680.2 15279.4 13021.7 11214.7 9472.8 5495.5 4301.4 3975.6 3470.2 3026.3 2494.0
2371.0 2329.9 2306.3 1877.4 1693.5 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
707.8 682.9 489.1 408.4 374.4 347.1 311.4 284.8 269.3 270.4 237.5 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.5 45.9 40.6 37.9 33.3 32.1 31.9
1991 27012.8 24773.6 16668.4 15260.8 13021.7 11214.2 9472.8 5495.5 4301.4 3969.6 3470.2 3026.3 2494.0
2371.0 2328.3 2303.6 1877.4 1690.7 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
702.6 682.9 488.4 408.4 374.4 347.1 310.4 284.8 269.3 270.0 235.7 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.9 45.9 40.6 37.9 33.3 32.1 31.9
1992 27012.5 24770.0 16667.3 15257.5 13021.7 11214.2 9472.8 5495.5 4301.4 3968.4 3470.2 3026.3 2494.0
2371.0 2328.4 2303.2 1877.4 1689.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
698.9 682.9 488.2 408.4 374.4 347.1 309.9 284.8 269.3 269.9 234.4 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 50.8 45.9 40.6 37.9 33.3 32.1 31.9
1993 27011.7 24765.6 16662.9 15252.4 13021.7 11214.0 9472.8 5495.5 4301.4 3965.7 3470.2 3026.3 2494.0
2371.0 2328.2 2301.6 1877.4 1688.3 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
697.5 682.9 487.9 408.4 374.4 347.1 309.9 284.8 269.3 269.7 234.1 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.2 45.9 40.6 37.9 33.3 32.1 31.9
1994 27013.3 24796.5 16677.3 15275.6 13021.7 11214.6 9472.8 5495.5 4301.4 3974.4 3470.2 3026.3 2494.0
2371.0 2330.5 2305.0 1877.4 1692.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
694.0 682.9 488.7 408.4 374.4 347.1 309.4 284.8 269.3 270.3 232.8 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 51.7 45.9 40.6 37.9 33.3 32.1 31.9
1995 27012.1 24782.2 16669.7 15262.2 13021.7 11214.4 9472.8 5495.5 4301.4 3969.0 3470.2 3026.3 2494.0
2371.0 2329.1 2302.4 1877.4 1689.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
690.0 682.9 488.1 408.4 374.4 347.1 308.6 284.8 269.3 269.9 231.5 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.2 45.9 40.6 37.9 33.3 32.1 31.9
1996 27009.3 24714.1 16637.1 15207.3 13021.7 11213.3 9472.8 5495.5 4301.4 3951.4 3470.2 3026.3 2494.0
2371.0 2323.9 2295.4 1877.4 1680.1 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
684.7 682.9 486.4 408.4 374.4 347.1 307.9 284.8 269.3 268.5 229.7 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.2 45.9 40.6 37.9 33.3 32.1 31.9
1997 27008.6 24709.6 16634.6 15202.0 13021.7 11213.1 9472.8 5495.5 4301.4 3948.6 3470.2 3026.3 2494.0
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680.5 682.9 485.9 408.4 374.4 347.1 306.9 284.8 269.3 268.3 228.1 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.1 45.9 40.6 37.9 33.3 32.1 31.9
1998 27006.6 24660.5 16609.2 15161.8 13021.7 11212.3 9472.8 5495.5 4301.4 3935.3 3470.2 3026.3 2494.0
2371.0 2319.9 2288.5 1877.4 1671.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
673.3 682.9 484.6 408.4 374.4 347.1 305.8 284.8 269.3 267.4 225.7 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.8 45.9 40.6 37.9 33.3 32.1 31.9
1999 27002.9 24584.9 16572.8 15100.8 13021.7 11211.1 9472.8 5495.5 4301.4 3914.5 3470.2 3026.3 2494.0
2371.0 2314.0 2279.6 1877.4 1659.6 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
663.8 682.9 482.5 408.4 374.4 347.1 304.3 284.8 269.3 265.8 222.5 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 52.6 45.9 40.6 37.9 33.3 32.1 31.9
2000 27002.1 24563.9 16561.2 15083.2 13021.7 11210.6 9472.8 5495.5 4301.4 3908.0 3470.2 3026.3 2494.0
2371.0 2312.4 2277.3 1877.4 1656.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
657.0 682.9 481.9 408.4 374.4 347.1 303.1 284.8 269.3 265.4 220.1 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 53.2 45.9 40.6 37.9 33.3 32.1 31.9
2001 26999.5 24506.3 16531.5 15035.1 13021.7 11209.5 9472.8 5495.5 4301.4 3892.2 3470.2 3026.3 2494.0
2371.0 2307.4 2270.6 1877.4 1647.8 1636.6 1632.9 1599.5 1518.5 1342.7 1251.5 1098.2 1034.8 903.9 741.8
647.9 682.9 480.3 408.4 374.4 347.1 301.7 284.8 269.3 264.0 216.9 247.1 237.8 199.1 159.5 145.7
134.5 86.4 76.1 71.2 64.1 53.3 45.9 40.6 37.9 33.3 32.1 31.9
2002 26884.5 24412.4 16450.1 14958.1 13021.7 11152.9 9472.8 5495.5 4301.4 3869.5 3470.2 3020.8 2494.0

2345.0 2294.0 2259.0 1877.4 1636.0 1636.6 1632.9 1577.6 1518.5 1342.7 1246.2 1095.0 1034.8 903.9 741.8
639.9 679.3 477.7 408.4 374.4 347.1 300.0 284.8 269.3 262.4 214.1 247.1 233.7 199.1 159.5 143.4
134.5 86.4 73.9 71.2 62.1 53.8 45.9 40.6 37.9 33.3 32.1 31.9
2003 26856.8 24341.8 16348.8 14902.6 13021.7 11139.2 9472.8 5495.5 4301.4 3852.1 3470.2 3021.3 2494.0
2343.8 2283.3 2245.5 1877.4 1626.6 1636.6 1632.9 1577.6 1518.5 1342.7 1243.3 1092.9 1034.8 903.9 741.8
630.4 677.0 475.5 408.4 374.4 347.1 298.5 284.8 266.0 261.1 211.0 244.9 233.3 199.1 159.5 142.4
134.5 86.4 73.7 70.4 61.9 53.4 45.9 40.6 37.4 33.3 31.6 31.9
2004 26769.0 24266.3 16273.9 14845.5 13021.7 11075.9 9472.8 5495.5 4301.4 3834.8 3470.2 3016.8 2494.0
2328.3 2272.6 2237.5 1877.4 1617.4 1610.0 1632.9 1563.6 1518.5 1342.7 1238.3 1089.8 1034.8 903.9 741.8
620.9 673.5 473.8 408.4 374.4 347.1 296.8 284.8 264.7 259.7 207.6 243.6 230.8 196.9 159.5 140.9
132.6 86.4 72.5 70.4 60.7 53.4 45.5 39.0 37.3 32.0 31.4 31.9
2005 26656.1 24165.0 16181.5 14770.1 13021.7 11038.5 9472.8 5495.5 4301.4 3811.9 3470.2 3017.0 2494.0
2326.7 2257.2 2223.0 1877.4 1605.0 1592.5 1632.9 1557.7 1518.5 1342.7 1234.4 1087.4 1034.8 895.8 741.8
612.7 670.2 470.8 402.1 374.4 342.1 295.6 282.4 261.8 258.1 204.8 241.6 229.2 196.0 159.5 139.1
131.1 86.4 71.4 69.8 59.7 53.4 45.4 38.3 36.8 31.6 31.0 31.9
2006 26637.0 24145.2 16109.9 14756.3 13021.7 11014.0 9470.1 5495.5 4301.4 3808.8 3470.1 3016.3 2457.0
2317.7 2247.9 2218.3 1843.4 1603.7 1564.1 1632.9 1546.6 1492.1 1342.6 1230.8 1085.0 1034.8 889.6 722.2
600.8 667.9 470.5 397.8 368.1 338.4 293.3 280.1 259.3 257.7 200.7 239.8 227.2 193.9 156.0 136.7
128.9 86.4 70.8 69.4 59.0 53.2 45.0 36.9 36.5 30.2 30.6 31.9
2007 26545.0 24044.5 16026.1 14681.5 13021.7 10957.9 9469.0 5495.5 4301.4 3786.6 3470.0 3014.2 2445.2
2307.1 2232.6 2202.7 1831.0 1591.8 1539.2 1632.9 1531.3 1480.3 1342.5 1225.5 1082.1 1034.8 879.7 716.7
591.6 664.2 467.4 391.5 365.4 333.1 291.5 276.3 256.4 256.2 197.6 238.9 224.1 191.4 154.9 136.0
126.8 86.4 68.9 68.9 57.5 52.7 44.8 35.6 36.3 29.1 30.1 31.9
2008 26469.9 23963.5 15959.8 14618.0 13021.7 10940.3 9466.5 5495.5 4301.4 3768.2 3469.8 3010.1 2408.7
2288.7 2220.7 2193.0 1800.6 1581.7 1510.4 1632.9 1515.6 1453.4 1342.3 1221.3 1080.1 1034.8 871.6 699.3
579.8 661.1 465.6 386.4 359.5 328.4 289.1 274.7 254.0 254.9 193.6 236.6 221.1 189.8 152.3 132.3
124.4 86.4 67.4 68.6 56.2 52.7 44.6 34.5 35.7 28.0 29.8 31.9
2009 26367.5 23866.6 15861.1 14548.4 13021.7 10898.9 9464.1 5495.5 4301.4 3747.7 3469.7 3007.4 2382.4
2273.9 2206.8 2177.4 1774.6 1571.0 1486.8 1632.9 1502.3 1430.8 1342.1 1217.4 1078.8 1034.8 859.9 684.3
568.5 658.3 462.8 377.6 354.5 322.2 286.9 270.3 252.9 253.2 189.7 235.7 218.5 188.3 150.6 129.8
122.2 86.4 65.6 67.6 54.8 52.3 44.2 33.2 35.4 27.1 29.6 31.9
2010 26269.1 23837.0 15807.2 14530.3 13021.7 10819.9 9461.2 5495.5 4301.4 3744.8 3469.5 3002.8 2339.1
2267.6 2196.6 2172.7 1735.5 1569.5 1448.0 1632.9 1487.8 1401.6 1341.9 1210.9 1075.5 1034.8 853.8 662.4
561.0 653.8 462.4 373.8 347.4 318.4 285.3 268.7 249.6 253.1 187.1 233.5 216.5 185.4 147.1 129.2
118.8 86.4 65.3 67.7 54.3 52.3 43.6 31.6 34.9 25.9 29.0 31.9
2011 26198.7 23695.5 15676.0 14416.8 13002.6 10785.1 9437.3 5482.1 4293.1 3710.7 3429.5 2991.2 2301.9
2228.9 2179.3 2151.5 1700.8 1551.0 1412.6 1620.5 1487.6 1374.2 1328.1 1206.4 1074.0 1028.4 841.3 645.5
548.7 650.1 458.4 363.7 341.1 310.9 282.4 264.1 245.3 250.5 182.7 230.7 215.7 183.8 143.8 126.1
115.5 85.7 64.4 66.8 53.3 51.9 43.1 29.8 34.4 24.9 28.4 31.7
2012 26167.2 23612.3 15577.4 14359.4 13003.1 10771.2 9429.2 5484.4 4294.6 3693.0 3419.6 2991.6 2275.2
2224.4 2161.8 2135.1 1671.5 1542.2 1365.8 1616.7 1467.9 1349.6 1325.2 1201.5 1072.3 1028.5 830.8 632.3
540.8 647.4 455.9 357.1 335.4 304.7 280.3 261.2 243.0 249.2 179.7 227.7 213.1 180.6 141.4 124.0
110.7 85.6 63.6 65.8 52.6 51.9 42.5 28.4 33.8 23.7 28.0 31.6
2013 25996.7 23428.1 15492.4 14213.6 12980.5 10735.3 9411.6 5466.4 4286.2 3650.2 3385.8 2985.3 2249.2
2201.7 2140.4 2114.1 1644.5 1519.0 1344.8 1605.4 1455.7 1321.5 1316.0 1194.1 1069.4 1022.4 822.6 617.4
530.3 642.5 451.3 350.3 328.4 299.8 277.9 258.1 238.5 245.9 176.1 225.0 210.2 180.2 141.5 122.2
108.2 84.9 61.6 65.5 51.1 51.7 42.3 28.0 33.1 23.5 27.4 31.4
2014 25986.9 23389.8 15431.6 14194.6 12956.8 10684.8 9392.3 5457.6 4280.6 3643.6 3371.7 2979.7 2215.2
2181.3 2130.2 2102.7 1608.0 1515.3 1315.7 1600.5 1437.3 1294.1 1310.9 1189.7 1068.0 1018.2 812.0 603.4
519.6 639.5 450.0 341.1 321.5 293.1 275.3 254.1 235.3 245.4 172.1 222.9 206.9 177.2 138.9 118.6
105.5 84.3 60.0 64.5 49.9 51.6 41.8 27.2 32.7 22.8 26.9 31.2
2015 25789.8 23204.8 15301.4 14053.0 12939.7 10643.1 9372.1 5442.5 4276.8 3604.4 3336.5 2974.9 2171.6
2160.0 2106.8 2082.1 1566.3 1493.9 1272.7 1588.9 1416.6 1260.0 1301.0 1183.7 1066.1 1015.8 798.6 584.7
511.6 636.2 445.6 330.5 313.7 285.3 273.4 249.9 230.5 242.3 169.2 220.0 203.7 174.4 136.1 115.7

101.6 84.0 58.3 64.1 48.5 51.4 41.3 26.2 32.1 21.9 26.2 31.0
2016 25658.1 23003.6 15122.2 13895.1 12931.4 10549.8 9351.9 5435.3 4272.4 3555.6 3301.3 2970.3 2120.9
2139.2 2082.5 2052.6 1524.8 1468.1 1234.0 1578.1 1400.6 1224.5 1288.7 1178.9 1064.5 1011.8 789.4 564.8
500.3 632.8 440.1 322.1 306.3 279.3 270.9 246.4 227.5 238.5 165.1 215.5 200.5 169.8 131.2 112.9
98.2 83.6 56.4 63.1 47.3 51.2 41.0 25.7 31.2 21.3 25.8 30.8
2017 25521.8 22880.0 15037.2 13814.8 12886.5 10518.1 9315.8 5409.4 4262.7 3534.0 3260.9 2962.4 2078.5
2111.7 2062.7 2038.1 1485.0 1456.5 1190.4 1565.8 1390.4 1187.3 1275.8 1173.0 1062.5 1005.4 774.2 543.1
490.2 629.6 437.4 311.5 298.6 270.7 268.1 240.0 222.0 236.8 161.4 213.2 198.8 166.6 127.9 109.8
93.7 82.8 55.4 62.6 46.5 51.0 40.4 25.0 30.5 20.8 25.0 30.5
2018 25343.0 22657.0 14885.5 13647.9 12855.0 10436.0 9286.5 5384.3 4253.6 3485.3 3206.9 2957.0 2026.9
2085.0 2040.2 2013.5 1439.0 1430.6 1145.9 1548.1 1370.4 1148.6 1258.2 1168.4 1060.8 998.7 765.4 521.4
480.5 627.1 431.8 303.2 290.0 265.2 265.4 236.6 218.8 233.1 157.7 209.8 194.5 160.0 124.8 107.3
89.7 81.9 52.8 61.9 44.9 51.3 39.7 23.9 29.8 19.8 24.5 30.3
2019 25159.3 22513.5 14774.4 13544.8 12823.4 10381.9 9259.3 5367.3 4242.5 3456.7 3177.1 2947.2 2004.7
2053.2 2018.5 1990.6 1413.0 1415.9 1115.4 1538.7 1359.7 1124.5 1249.1 1162.1 1058.5 991.3 753.6 508.0
469.7 623.1 428.1 295.9 284.4 258.6 262.8 232.9 215.4 230.9 153.7 207.3 192.5 159.2 123.2 103.5
86.4 80.9 51.7 60.6 44.0 50.7 39.3 23.5 29.3 19.3 24.1 30.0
2020 25061.6 22398.1 14612.6 13466.0 12799.5 10295.1 9222.9 5340.4 4235.1 3434.7 3112.5 2940.8 1947.1
2032.2 1997.7 1969.9 1365.6 1404.5 1065.6 1519.1 1343.5 1082.0 1229.4 1156.2 1056.5 984.1 741.5 483.3
459.1 619.8 425.0 283.2 275.9 250.8 259.7 227.0 211.1 229.3 149.7 203.4 189.6 153.7 119.5 100.1
81.5 79.9 50.1 59.4 43.1 50.5 38.6 22.9 28.6 18.5 23.5 29.6
2021 24849.5 22184.0 14483.2 13304.5 12776.1 10222.2 9204.7 5326.5 4229.9 3389.7 3093.2 2931.5 1919.6
2004.1 1972.6 1941.3 1332.2 1380.4 1038.0 1511.7 1334.1 1051.9 1221.8 1150.7 1054.8 979.1 716.3 474.1
449.2 616.1 419.8 268.0 268.6 238.0 256.5 218.2 207.1 225.8 146.1 200.6 187.3 151.8 117.3 98.8
78.7 79.1 49.4 58.4 42.5 50.2 38.1 22.8 27.9 18.4 23.1 29.4
2022 24719.8 22060.9 14389.2 13214.6 12753.0 10173.1 9174.1 5307.4 4223.4 3365.5 3051.0 2928.3 1880.0
1988.4 1951.3 1922.4 1302.2 1367.9 992.6 1498.2 1313.3 1023.8 1208.9 1143.8 1052.1 974.0 705.1 459.2
438.6 612.3 416.5 258.1 263.5 231.2 253.3 213.5 203.3 224.1 142.0 197.4 184.0 146.6 113.4 96.3
74.3 78.4 48.1 57.8 41.6 49.9 37.4 22.3 27.3 17.7 22.6 29.0
2023 24552.8 21894.3 14179.4 13100.9 12724.3 10025.6 9145.2 5282.1 4216.1 3334.4 3001.4 2921.3 1829.8
1964.8 1928.3 1892.1 1252.0 1352.0 958.6 1483.5 1303.4 986.4 1190.9 1136.7 1049.4 966.7 693.1 440.0
429.6 608.1 412.4 251.0 254.3 225.1 250.6 210.0 197.2 221.8 138.6 193.0 182.3 143.3 110.8 92.7
70.9 77.3 46.8 56.0 40.7 49.5 36.9 21.9 26.4 17.0 21.9 28.8
2024 24316.5 21667.5 13972.2 12926.6 12694.6 9897.4 9114.8 5265.1 4204.3 3287.0 2962.7 2910.4 1779.9
1930.6 1901.5 1858.6 1212.1 1326.6 912.8 1471.6 1284.6 954.3 1176.7 1130.5 1046.8 958.3 674.7 422.8
420.5 604.5 406.5 239.4 246.7 215.4 247.9 203.1 193.8 218.0 135.3 189.9 178.9 138.1 106.0 91.1
66.7 76.2 45.3 54.7 39.8 49.7 36.4 21.3 25.8 16.6 21.3 28.4
2025 24103.0 21456.8 13788.6 12781.4 12646.7 9820.2 9085.8 5244.9 4191.2 3248.6 2931.0 2901.5 1740.0
1911.6 1874.6 1827.8 1177.6 1306.7 886.5 1461.1 1273.3 928.5 1165.5 1123.2 1044.4 948.6 669.9 409.2
410.0 599.5 401.7 235.4 239.6 212.6 244.8 202.0 188.2 215.4 131.4 184.9 176.8 135.7 103.9 87.5
63.9 74.8 44.0 53.3 39.0 49.3 36.1 21.4 24.9 16.3 20.6 28.1
2026 23874.6 21254.0 13651.7 12632.9 12607.0 9760.7 9044.9 5218.2 4182.2 3206.1 2877.7 2899.4 1697.6
1895.5 1854.4 1801.5 1142.8 1284.4 851.3 1443.7 1248.2 896.4 1146.2 1115.6 1041.2 941.0 651.1 391.6
399.6 594.5 396.6 224.2 232.6 202.9 241.6 195.4 182.2 212.3 127.3 181.9 172.6 133.6 100.9 86.2
60.5 73.8 42.2 52.1 37.9 48.5 35.6 21.0 24.2 16.0 19.8 27.7
2027 23735.0 21128.0 13502.3 12556.9 12547.7 9632.2 8990.5 5176.0 4166.6 3188.0 2809.0 2886.8 1631.3
1863.8 1832.3 1781.1 1093.6 1275.2 804.2 1422.7 1234.2 853.6 1123.2 1108.5 1038.3 929.7 644.3 368.5
387.5 590.3 394.0 218.7 224.1 199.1 237.6 193.3 177.7 211.1 122.9 178.5 170.8 126.0 95.5 82.8
56.6 72.4 41.4 51.2 37.3 48.2 34.8 20.4 23.6 15.1 19.2 27.2
2028 23596.6 20938.6 13373.0 12421.8 12499.0 9595.3 8946.8 5139.5 4153.2 3149.5 2750.9 2873.7 1585.5
1820.8 1810.1 1754.8 1058.3 1255.0 750.8 1403.5 1218.0 825.7 1102.8 1100.0 1034.9 920.2 635.3 350.6
379.6 585.0 389.4 212.5 217.5 194.2 234.9 190.5 172.7 208.3 120.0 173.2 168.4 119.3 92.5 79.9
52.0 70.9 40.0 50.1 36.5 47.8 34.1 19.2 22.5 14.1 18.6 26.8
2029 23175.5 20663.7 13144.7 12227.1 12456.8 9383.3 8908.7 5110.9 4140.6 3100.1 2706.2 2866.1 1537.0

1804.9 1779.0 1722.5 1017.6 1229.6 719.9 1387.9 1195.6 792.4 1088.5 1093.8 1032.4 910.1 619.2 337.2
369.1 581.0 383.3 201.6 209.8 185.7 231.2 185.4 168.0 204.5 116.0 169.2 164.9 116.7 87.9 77.0
48.8 69.5 38.3 49.2 35.5 47.3 33.6 19.3 21.9 13.7 18.0 26.4
2030 22986.8 20444.1 13015.4 12064.6 12426.1 9331.7 8880.2 5090.0 4133.9 3055.5 2656.9 2856.5 1488.7
1780.7 1754.2 1693.9 982.4 1205.7 697.9 1373.2 1183.6 764.0 1070.0 1086.5 1028.9 903.5 611.7 321.7
360.9 576.4 377.9 196.8 203.2 181.8 228.5 182.7 163.9 201.1 112.9 164.8 162.6 115.5 85.8 74.8
46.3 68.4 37.1 48.4 34.6 46.0 33.3 19.2 21.1 13.5 17.6 26.1
2031 22808.9 20206.9 12821.0 11901.1 12397.9 9282.6 8851.7 5063.4 4124.7 3011.4 2622.7 2852.3 1455.8
1763.4 1726.5 1662.6 956.5 1183.5 663.6 1361.2 1163.2 742.1 1057.5 1077.9 1024.6 895.2 601.6 310.3
350.6 571.4 372.4 190.6 197.7 176.7 224.7 179.0 158.9 197.9 108.8 161.4 159.0 110.6 83.7 71.1
43.5 67.2 36.0 47.3 34.0 45.6 32.6 19.0 20.5 12.9 17.0 25.8
2032 22504.5 19920.6 12573.7 11680.0 12352.2 9134.3 8813.8 5045.3 4112.5 2952.8 2586.0 2844.2 1407.2
1747.8 1697.5 1622.0 922.0 1153.4 645.7 1349.0 1145.4 710.0 1043.7 1068.8 1020.0 886.3 591.2 298.0
343.8 566.3 364.9 185.0 191.5 171.5 222.3 175.4 153.6 193.7 106.3 154.8 156.4 109.6 80.6 68.9
40.7 66.1 34.8 45.7 33.3 44.8 32.3 19.0 19.4 12.7 16.4 25.4
2033 22310.4 19700.9 12429.3 11525.5 12307.1 9081.3 8773.6 5011.5 4097.4 2911.4 2534.1 2833.5 1372.7
1719.5 1670.6 1593.8 892.6 1132.0 619.5 1332.8 1128.4 683.0 1026.0 1060.9 1015.8 874.6 576.5 285.6
333.7 561.7 359.9 176.2 185.5 164.7 218.6 171.0 148.3 190.6 102.5 150.6 153.8 105.7 78.3 67.0
37.8 64.6 33.8 44.9 32.6 44.1 31.8 18.7 18.7 12.4 15.8 25.1
2034 22054.7 19462.6 12173.6 11356.1 12242.3 8897.3 8716.7 4978.4 4080.2 2866.5 2481.3 2819.2 1328.8
1686.0 1643.6 1559.7 862.1 1109.2 586.6 1314.6 1106.7 654.8 1008.1 1052.9 1011.4 862.6 564.4 272.2
324.6 557.0 354.1 170.1 180.1 158.9 215.6 167.7 144.4 187.3 99.2 146.6 150.6 102.3 74.5 64.1
34.5 63.0 32.7 43.6 31.9 43.8 31.1 18.3 18.0 11.7 15.4 24.4
2035 21824.7 19210.1 11972.7 11180.0 12193.6 8760.7 8674.2 4949.8 4066.8 2820.6 2444.9 2810.3 1306.4
1655.5 1613.2 1524.4 838.1 1085.2 556.0 1300.1 1096.4 632.5 995.9 1044.0 1006.1 853.2 551.9 262.7
315.4 551.8 348.0 163.3 174.8 153.0 212.3 163.3 140.2 184.0 95.8 142.8 148.0 98.7 73.6 61.3
31.4 61.7 31.3 42.5 31.2 42.1 30.5 18.1 17.3 11.3 14.9 24.1
2036 21513.3 18936.4 11806.2 10973.0 12129.3 8675.0 8623.9 4910.1 4046.8 2766.7 2379.7 2802.1 1251.3
1637.5 1583.1 1489.7 797.3 1057.4 538.2 1280.2 1069.0 604.7 972.7 1035.4 1001.2 838.9 539.7 247.1
306.1 546.0 341.0 157.1 167.7 147.6 208.8 160.2 133.6 180.0 92.4 138.0 144.2 97.0 69.3 59.2
29.2 59.9 30.4 41.6 30.4 41.5 30.0 17.9 16.5 10.9 14.2 23.6
2037 21294.0 18698.2 11606.2 10804.3 12060.1 8558.4 8569.2 4872.2 4031.2 2724.0 2321.8 2789.0 1212.7
1607.2 1554.0 1458.1 777.2 1035.0 505.0 1260.8 1056.7 580.4 953.8 1025.4 995.6 829.7 526.6 232.3
298.4 539.8 335.2 151.5 164.1 141.9 205.9 155.8 129.7 176.9 89.6 133.9 142.0 92.2 67.0 56.2
26.5 58.6 29.7 40.5 30.0 40.8 29.5 17.4 15.8 10.5 13.7 23.1
2038 21113.9 18518.4 11439.2 10691.3 12017.8 8423.9 8528.0 4847.3 4013.3 2693.4 2276.8 2776.6 1169.5
1585.0 1529.6 1432.1 739.3 1021.0 473.2 1246.5 1034.5 556.3 938.1 1017.4 991.1 816.6 512.7 221.5
289.2 534.9 330.9 142.7 157.4 135.1 202.2 151.1 126.5 174.8 86.4 129.8 138.6 88.3 63.4 53.8
23.8 56.9 28.6 39.5 29.3 40.1 28.7 16.7 15.2 9.7 13.4 22.6
2039 20749.4 18208.5 11216.5 10466.4 11948.6 8192.5 8480.6 4810.6 3996.8 2637.1 2231.8 2766.8 1130.4
1550.8 1498.9 1398.2 713.3 991.0 455.6 1229.9 1016.0 531.4 922.5 1008.4 985.9 805.7 500.3 211.1
281.9 529.1 323.9 136.0 152.2 129.5 199.4 146.7 121.6 170.5 83.8 125.2 135.3 86.5 61.4 51.8
22.1 55.3 27.2 38.5 28.4 39.0 28.2 16.7 14.5 9.4 12.8 22.2
2040 20463.0 17888.0 10982.7 10246.7 11914.8 8104.3 8441.6 4790.2 3979.8 2577.6 2199.0 2742.7 1097.7
1499.6 1461.0 1357.2 686.9 961.4 423.2 1218.8 996.7 513.3 911.1 997.7 979.5 794.6 490.5 203.9
274.3 521.8 316.1 130.6 147.3 125.1 195.9 143.5 115.1 166.3 81.1 119.9 132.3 81.6 58.6 48.9
19.8 54.2 25.8 36.9 27.4 38.0 27.3 15.9 13.8 8.7 12.2 21.5
2041 20139.3 17597.5 10765.0 10025.6 11861.3 7901.2 8404.0 4755.8 3969.5 2521.0 2161.8 2738.3 1071.3
1490.1 1431.7 1324.8 662.7 931.9 409.4 1205.7 976.4 495.0 898.5 989.4 974.2 788.5 478.0 195.8
265.7 517.0 309.7 125.5 142.3 120.0 192.2 139.0 113.3 162.1 78.1 118.2 129.0 80.1 57.6 46.0
18.3 53.3 25.1 36.0 27.0 36.9 27.0 16.1 13.5 8.4 11.9 21.2
2042 19901.5 17308.9 10500.3 9829.1 11805.0 7770.7 8355.6 4716.5 3954.6 2468.9 2110.9 2727.4 1016.5
1470.4 1397.8 1282.4 628.4 906.4 387.6 1188.1 962.4 468.9 878.7 979.7 968.2 778.4 463.9 181.6
257.8 510.9 302.7 119.4 136.1 114.5 189.0 135.3 106.6 158.3 75.2 112.3 126.6 76.8 53.5 44.5

16.7 51.9 24.6 34.6 26.7 36.0 26.3 15.7 12.6 8.0 11.3 20.6
2043 19606.9 17073.6 10325.8 9665.0 11757.8 7630.6 8313.2 4693.0 3939.9 2428.0 2074.1 2709.7 986.3 1438.2
1371.1 1257.9 603.9 886.0 362.5 1175.2 952.6 450.9 866.1 971.0 962.7 768.3 453.1 173.9 251.5 505.6
297.6 115.1 131.9 110.1 186.5 131.9 103.2 155.4 73.0 107.8 125.0 73.2 51.1 41.9 14.8 50.7
24.1 33.8 26.2 35.4 25.6 15.1 11.9 7.4 10.9 20.1
2044 19405.6 16825.1 10085.6 9497.6 11681.0 7485.1 8259.3 4652.9 3917.9 2385.1 2038.1 2700.6 953.5 1417.0
1342.4 1222.3 577.7 865.1 346.8 1159.7 934.7 430.7 852.9 963.6 957.4 755.8 438.1 166.1 243.2 501.3
291.5 107.9 126.9 104.0 183.0 127.2 99.5 152.4 70.2 104.7 122.0 71.3 49.9 40.3 13.5 49.1 22.8
32.5 25.5 34.1 24.9 15.1 11.4 7.0 10.5 19.5
2045 19072.0 16538.1 9890.7 9296.2 11589.6 7344.5 8187.6 4595.5 3892.3 2335.6 1972.3 2686.0 918.0 1391.1
1313.5 1190.9 556.9 841.0 329.1 1137.0 915.5 410.2 831.1 952.4 950.4 739.5 426.9 153.9 236.1 494.4
285.6 102.6 123.4 99.6 180.3 123.1 94.3 148.7 67.7 100.4 119.1 68.6 47.2 39.0 12.3 47.2 21.8
31.7 24.8 32.9 24.3 14.6 10.8 6.6 9.9 18.8
2046 18797.8 16226.7 9669.6 9078.5 11524.9 7167.4 8137.5 4560.4 3874.1 2278.7 1931.7 2679.7 884.0 1377.4
1283.8 1159.0 533.1 813.0 310.7 1121.6 903.3 392.3 817.1 943.2 943.6 728.6 415.3 146.1 227.9 488.7
278.5 97.8 119.1 95.2 176.6 119.6 91.4 144.9 64.8 96.6 117.0 65.8 45.4 36.8 11.0 46.0 21.0
30.9 24.4 32.2 23.5 14.4 10.4 6.1 9.6 18.3
2047 18421.0 15930.8 9457.2 8869.2 11468.6 7037.5 8097.7 4529.0 3859.1 2228.2 1894.7 2665.1 850.9 1356.3
1250.7 1123.1 512.8 788.3 296.7 1107.8 885.4 377.3 803.4 933.1 937.5 720.1 405.1 138.5 220.0 482.3
271.6 93.2 115.5 91.2 173.0 116.3 87.0 141.2 62.0 92.0 114.5 64.4 43.7 34.9 10.0 44.9 20.3
29.6 23.9 31.4 22.8 14.3 9.7 5.7 9.0 17.8
2048 18170.9 15661.3 9245.9 8689.8 11404.3 6843.6 8051.5 4496.4 3841.7 2182.7 1855.4 2657.1 821.2 1335.9
1222.7 1095.6 495.3 766.6 284.4 1094.3 860.9 363.1 789.4 922.2 930.4 708.7 397.4 130.8 213.8 475.3
266.4 90.4 112.2 88.5 169.8 114.2 82.4 137.9 60.0 87.2 110.9 62.6 42.2 34.1 9.2 43.5 19.1
29.0 23.0 30.2 22.1 14.2 9.0 5.5 8.6 17.4
2049 17852.9 15397.3 9017.9 8513.1 11311.9 6682.0 7986.3 4445.3 3813.8 2139.6 1799.4 2645.6 783.0 1318.5
1193.2 1061.1 468.8 746.4 273.6 1074.6 847.7 344.7 770.2 913.1 924.3 692.8 382.9 121.3 206.2 468.8
260.2 85.8 107.6 83.2 166.4 109.8 78.6 134.9 57.4 83.7 108.6 61.2 40.2 32.6 8.4 41.8 18.7
27.6 22.9 29.4 21.4 14.0 8.6 5.2 8.1 16.7
2050 17635.3 15126.5 8829.0 8320.8 11262.8 6540.7 7948.4 4420.4 3798.8 2090.6 1780.5 2632.7 765.2 1297.8
1163.9 1033.3 454.4 723.9 257.3 1065.7 826.7 332.5 762.7 903.9 917.8 685.5 372.6 118.0 198.9 463.2
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2051 17329.6 14814.2 8632.9 8105.3 11179.9 6485.6 7891.0 4374.8 3773.7 2035.6 1735.0 2611.3 736.3 1260.7
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248.0 77.0 101.4 76.5 160.8 102.8 70.8 127.8 52.9 76.1 103.1 57.8 37.8 30.1 6.9 39.4 17.1
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2072 11300.9 9161.6 4823.4 4503.4 9426.3 3692.4 6711.0 3494.3 3235.1 1124.4 1029.0 2291.9 289.3 853.9
617.9 496.2 158.7 320.9 77.5 766.9 461.8 119.8 461.3 694.9 770.9 419.6 171.6 31.2 83.2 333.8
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2073 11067.4 8940.9 4661.6 4378.8 9329.6 3552.9 6649.6 3445.2 3206.2 1091.5 998.1 2267.2 275.2 829.2
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2074 10796.0 8693.1 4540.4 4234.1 9242.6 3513.9 6593.7 3404.5 3179.5 1053.5 970.5 2246.3 260.1 809.7
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2075 10551.9 8465.9 4420.8 4105.4 9129.7 3416.2 6522.9 3351.0 3146.9 1020.4 940.4 2232.0 248.7 796.3
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2076 10272.1 8203.8 4243.5 3956.5 9065.1 3266.8 6486.2 3318.5 3128.3 982.1 919.6 2209.4 235.9 774.7
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2078 9755.5 7731.4 3981.9 3690.5 8870.4 3045.1 6364.6 3226.2 3069.8 915.4 866.1 2168.1 212.9 741.8
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2079 9506.7 7527.5 3878.1 3580.9 8776.1 2966.1 6304.6 3180.2 3042.5 888.2 838.3 2154.9 202.7 728.9
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2080 9303.8 7315.4 3726.3 3461.9 8674.9 2870.0 6247.4 3134.0 3012.9 857.1 810.7 2128.9 195.4 708.5
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2081 9028.1 7091.6 3631.7 3338.5 8612.8 2758.0 6204.9 3097.0 2993.8 827.7 788.9 2112.3 184.3 695.6
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2082 8824.3 6889.7 3478.9 3225.8 8501.4 2666.7 6144.9 3047.3 2961.5 799.4 760.1 2096.7 177.8 682.3
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2085 8107.6 6288.8 3216.1 2907.3 8212.6 2422.8 5983.0 2912.8 2885.6 720.5 687.1 2031.7 154.2 634.7
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2086 7879.0 6088.9 3095.5 2791.5 8132.9 2370.3 5937.3 2878.7 2866.1 693.8 671.8 2017.9 147.2 629.1
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297.5 229.9 58.1 139.4 26.7 560.9 281.3 46.1 246.6 505.0 596.8 262.7 70.7 8.9 37.1 212.9 71.8
7.6 18.2 13.6 68.5 13.8 6.6 37.5 8.1 4.9 23.8 13.8 5.8 4.8 0.1 5.5 1.6 8.8 6.7 4.4
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2092 6621.0 5006.2 2459.1 2223.0 7516.0 1999.6 5585.1 2606.8 2705.5 558.1 545.1 1880.4 113.2 542.7
284.8 220.6 54.1 133.1 25.9 548.6 272.4 43.3 235.8 494.7 584.4 254.5 66.4 7.9 35.3 206.9 69.6
7.1 17.1 13.0 67.0 13.0 6.3 36.0 7.6 4.3 22.8 13.7 5.5 4.5 0.0 5.2 1.5 8.8 6.5 4.3
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2093 6403.1 4842.9 2378.2 2143.6 7427.6 1950.1 5537.4 2575.9 2684.2 539.0 532.9 1858.6 110.5 532.5
273.1 210.7 52.2 127.6 23.9 540.3 267.0 41.5 228.6 485.4 574.5 249.7 62.0 7.8 33.7 201.3 67.4
6.5 16.4 12.3 66.0 12.0 5.6 34.9 7.2 3.8 21.9 13.0 5.4 4.3 0.0 5.0 1.4 8.5 6.3 4.0
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2094 6210.9 4671.8 2294.3 2053.5 7339.4 1904.9 5483.2 2534.8 2660.0 517.6 512.6 1831.7 106.3 519.3
261.3 201.1 49.6 121.8 22.9 529.8 260.4 39.5 218.7 475.9 564.2 243.9 58.5 7.4 32.4 196.0 65.1
6.2 15.7 12.0 64.6 11.0 5.2 33.6 6.8 3.4 21.2 12.6 5.2 4.0 0.0 4.7 1.4 8.3 6.1 4.0
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2095 6002.4 4508.8 2215.7 1969.0 7256.3 1835.3 5436.9 2502.0 2638.0 497.4 498.8 1809.2 103.8 508.7
250.0 192.6 48.3 116.2 22.1 521.2 254.9 38.0 212.0 466.7 554.2 238.2 56.0 7.1 31.0 190.2 62.9
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2096 5862.8 4356.7 2144.8 1890.4 7158.8 1794.4 5380.2 2460.1 2615.0 477.8 481.2 1786.9 98.2 499.3
239.0 185.2 44.7 111.0 20.7 510.9 250.9 36.0 203.4 457.9 544.9 233.3 51.7 6.6 29.7 185.1 61.1
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228.5 176.4 43.4 106.8 20.4 501.5 242.1 34.7 196.6 447.5 533.7 227.0 50.5 6.2 28.8 179.5 59.3
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221.0 168.9 41.0 103.2 18.7 491.4 239.5 33.0 188.9 437.8 522.3 221.1 48.0 5.8 27.8 174.1 57.8
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2099 5341.9 3940.6 1931.0 1684.3 6844.3 1670.8 5204.0 2350.4 2540.4 430.6 436.8 1714.1 86.7 468.6
210.3 162.3 38.6 98.4 17.9 481.2 235.0 31.3 181.5 429.8 512.3 217.6 45.1 5.5 26.7 169.8 56.1
4.2 12.1 10.1 59.5 8.2 3.8 28.0 5.5 1.9 18.2 10.7 4.3 3.1 0.0 3.6 1.1 8.0 5.4 3.0
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2100 4736.9 3763.0 1507.0 1630.6 6800.7 886.3 4661.0 2337.2 2529.3 419.3 352.8 1695.5 86.2 458.4
177.2 139.4 38.2 95.2 17.9 477.0 228.9 13.7 141.6 426.2 508.4 215.7 44.5 2.9 25.8 167.9 46.2
4.1 11.9 10.0 58.6 8.1 3.7 27.4 5.2 1.6 17.6 10.7 4.2 2.8 0.0 3.6 1.1 8.0 5.2 2.9
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Standard deviation of computed glacier area (in km^2) derived from results of 12 GCMs. Results refer to 56 macroscale drainage basins over the period 1980 to 2100 for RCP2.6.
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Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year GlacierArea (km^2)
1980 0.1 7.4 4.2 4.9 0.0 0.1 0.0 0.0 0.0 1.8 0.0 0.0 0.0 0.0 0.5 0.5 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.9 0.0 0.1 0.0 0.0 0.0 1.2 0.0 0.0 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0
1981 4.1 102.0 44.4 72.9 0.0 1.4 0.0 0.0 0.0 26.3 0.0 0.0 0.0 0.0 7.1 9.9 0.0 13.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.1 0.0 2.5 0.0 0.0 0.0 1.7 0.0 0.0 1.9 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0
1982 4.8 114.6 50.2 85.1 0.0 1.6 0.0 0.0 0.0 28.6 0.0 0.0 0.0 0.0 8.2 10.9 0.0 15.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.8 0.0 2.7 0.0 0.0 0.0 1.4 0.0 0.0 2.2 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.7 0.0 0.0 0.0 0.0 0.0 0.0
1983 5.6 137.6 61.0 103.6 0.0 2.2 0.0 0.0 0.0 35.1 0.0 0.0 0.0 0.0 10.0 13.5 0.0 19.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.0 0.0 3.4 0.0 0.0 0.0 1.7 0.0 0.0 2.6 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.1 0.0 0.0 0.0 0.0 0.0 0.0
1984 6.2 142.7 68.3 112.0 0.0 2.4 0.0 0.0 0.0 37.8 0.0 0.0 0.0 0.0 11.1 15.1 0.0 20.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 8.8 0.0 4.1 0.0 0.0 0.0 2.2 0.0 0.0 2.8 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0
1985 5.8 138.0 64.5 107.4 0.0 2.5 0.0 0.0 0.0 35.9 0.0 0.0 0.0 0.0 10.2 14.2 0.0 18.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.3 0.0 3.8 0.0 0.0 0.0 2.5 0.0 0.0 2.6 3.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.7 0.0 0.0 0.0 0.0 0.0 0.0
1986 7.8 191.0 87.2 148.6 0.0 3.3 0.0 0.0 0.0 49.4 0.0 0.0 0.0 0.0 14.2 19.0 0.0 26.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 12.8 0.0 5.1 0.0 0.0 0.0 2.8 0.0 0.0 3.6 4.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0
1987 7.4 184.2 84.0 143.7 0.0 3.0 0.0 0.0 0.0 47.1 0.0 0.0 0.0 0.0 14.0 18.2 0.0 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 13.1 0.0 4.7 0.0 0.0 0.0 2.7 0.0 0.0 3.4 4.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0
1988 9.2 219.9 100.4 175.0 0.0 3.7 0.0 0.0 0.0 57.0 0.0 0.0 0.0 0.0 16.9 22.5 0.0 30.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 15.7 0.0 6.1 0.0 0.0 0.0 3.2 0.0 0.0 4.1 5.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 0.0 0.0 0.0 0.0 0.0 0.0

1989 7.9 194.0 88.3 153.0 0.0 3.3 0.0 0.0 0.0 49.1 0.0 0.0 0.0 0.0 15.2 19.9 0.0
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1990 9.1 222.7 101.4 176.6 0.0 3.9 0.0 0.0 0.0 57.2 0.0 0.0 0.0 0.0 17.1 22.7 0.0
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1991 8.1 218.3 100.5 172.1 0.0 3.9 0.0 0.0 0.0 55.2 0.0 0.0 0.0 0.0 16.7 21.4 0.0
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1995 10.7 277.8 130.6 220.0 0.0 4.8 0.0 0.0 0.0 71.7 0.0 0.0 0.0 0.0 22.3 29.0 0.0
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1996 11.6 282.5 131.6 224.8 0.0 4.6 0.0 0.0 0.0 73.5 0.0 0.0 0.0 0.0 22.7 30.4 0.0
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1997 9.6 257.5 120.4 202.0 0.0 4.5 0.0 0.0 0.0 65.4 0.0 0.0 0.0 0.0 21.7 27.6 0.0
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2014 550.8 443.2 511.8 334.0 75.2 434.0 56.4 44.2 20.7 90.5 49.2 34.5 85.9 97.0 41.4 69.7
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2015 633.8 566.2 485.9 422.8 84.0 367.6 62.8 56.0 22.8 119.5 65.8 26.8 96.4 87.7 43.6 72.3
75.1 61.9 100.9 19.4 55.1 42.3 15.3 33.5 16.6 14.2 33.8 30.4 15.4 20.9 14.6 22.5 12.6
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2016 659.2 615.7 546.6 470.9 104.5 461.3 80.2 66.7 25.9 131.5 80.6 29.3 83.7 85.2 44.4 77.0
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21.7 7.3 17.8 13.8 11.4 6.0 16.6 7.7 12.0 10.5 6.5 11.9 2.3 4.2 8.1 2.6 1.6 1.8
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2017 669.3 661.0 612.3 516.2 115.4 455.1 84.8 75.8 34.3 145.0 97.9 26.9 120.3 85.4 53.4 94.8
99.2 76.2 117.7 29.2 55.9 54.0 24.6 35.8 16.4 22.3 55.0 30.1 23.3 21.6 18.9 30.8 16.9
28.8 7.8 21.4 12.8 12.3 7.2 17.2 8.5 12.6 14.3 8.1 13.1 2.8 4.4 9.2 3.2 2.0 1.9
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2018 745.6 645.9 675.9 498.0 141.2 566.8 95.6 82.4 32.8 138.5 119.9 33.6 108.3 98.8 52.7 95.0
97.5 71.6 114.4 35.3 63.4 54.3 31.3 38.9 17.6 24.0 62.4 36.9 27.4 23.3 18.7 35.1 18.7
32.1 8.3 25.5 12.5 11.5 8.8 18.1 9.7 12.4 13.2 7.2 12.9 3.3 4.7 10.0 3.3 2.0 1.9
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2019 766.9 677.1 715.1 527.8 159.8 614.8 112.8 95.2 39.7 147.2 131.9 37.9 152.1 111.4 57.9
101.7 116.3 77.4 125.0 40.7 61.2 69.4 32.9 37.7 16.4 28.1 62.9 45.6 28.6 22.3 19.3 34.2
19.2 32.0 8.5 26.2 11.6 12.1 9.3 19.6 8.5 13.1 18.0 8.0 13.7 3.8 4.1 10.5 2.7 1.9
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2020 839.2 754.3 747.0 585.5 191.3 617.6 126.1 98.8 44.4 163.6 131.0 43.3 156.6 133.6 64.4
110.5 117.1 85.8 118.6 41.6 71.5 70.9 34.6 38.4 16.7 32.0 62.2 47.8 31.0 21.7 21.9 33.7
21.4 30.9 9.8 26.6 14.0 13.2 10.0 22.2 10.6 13.9 16.6 8.4 13.8 4.2 5.3 10.9 3.6 2.3
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2021 919.9 775.1 797.1 585.4 209.6 703.5 140.5 115.3 44.1 164.1 148.2 43.2 176.9 130.1 71.5
118.5 124.2 85.1 124.1 46.2 65.9 75.8 39.7 38.9 17.0 30.9 63.7 51.3 31.3 21.9 22.2 35.8
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2022 1001.4 792.7 778.3 594.8 228.5 645.6 153.1 116.6 50.9 165.1 163.0 38.1 166.0 125.1 70.5
116.0 117.9 86.4 122.4 50.4 77.4 76.9 47.2 38.7 17.0 34.5 72.6 57.1 35.0 21.1 21.4 39.3
22.3 34.7 11.4 32.3 14.2 13.2 11.6 23.0 11.0 14.2 16.3 10.1 15.0 4.9 5.5 12.0 3.6 3.6
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2023 1087.3 874.6 831.7 656.9 245.5 764.0 158.2 127.6 53.6 184.8 159.7 49.0 186.5 152.3 75.8
121.2 135.0 96.7 119.3 49.1 75.2 82.9 46.4 39.1 17.5 36.4 72.4 53.2 37.0 21.2 22.8 40.4
24.5 35.9 11.8 29.8 13.8 14.5 12.5 24.0 11.1 15.1 18.4 10.3 14.4 5.1 5.4 12.0 3.5 3.6
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2024 1089.9 882.9 867.8 649.8 279.6 729.7 192.1 135.8 68.3 182.1 182.5 46.9 188.3 145.1 78.5
124.9 134.2 95.0 137.4 56.9 83.0 85.7 56.7 41.5 18.8 45.9 79.6 60.8 38.1 22.3 22.7 42.5
24.7 38.4 12.0 34.1 17.3 14.3 12.6 24.5 12.9 16.8 17.8 11.5 15.9 6.0 5.6 13.0 3.9 3.8
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2025 1238.3 968.6 921.1 711.0 283.5 780.6 189.1 157.4 62.4 198.0 188.7 49.3 209.3 154.8 87.4
132.9 153.7 101.7 150.8 56.6 87.0 88.9 57.7 43.2 19.7 43.9 76.2 62.1 39.4 23.1 24.1 41.9
28.1 36.9 12.5 34.7 19.0 15.4 12.7 25.8 13.0 17.6 19.7 14.4 17.0 6.0 6.6 13.3 4.2 3.8
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2026 1247.0 962.7 939.5 714.2 311.4 802.9 220.1 167.6 70.6 197.1 205.5 51.1 207.2 152.9 91.5
143.4 143.8 102.7 146.5 62.2 81.5 91.1 60.9 42.6 19.5 48.1 85.0 61.2 40.2 21.7 24.6 45.8
26.1 40.5 13.5 36.4 16.5 15.3 13.1 26.6 12.5 17.2 19.4 15.3 16.4 6.2 6.2 14.0 4.0 3.7
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2027 1388.1 1054.4 1033.8 775.8 322.2 816.3 220.0 170.4 68.9 216.5 203.5 56.6 203.3 175.4 97.4
155.2 146.7 111.2 148.7 62.8 87.3 91.0 66.1 42.8 20.1 49.1 85.2 65.2 43.3 20.8 26.5 48.6
27.6 41.6 14.2 39.4 18.8 16.7 14.2 26.7 13.0 17.8 18.4 14.4 16.4 6.7 6.8 15.3 4.4 3.7
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2028 1385.6 1115.0 1034.9 827.3 332.4 876.2 230.8 181.5 74.8 228.7 195.9 52.5 208.0 166.9 102.9
157.9 143.4 118.4 148.7 61.9 89.6 90.3 61.9 43.1 20.5 52.2 90.0 61.8 45.0 21.1 27.1 49.3
26.8 43.6 15.4 38.9 19.8 17.9 15.0 27.5 13.7 18.5 18.5 14.2 14.4 6.8 7.1 15.2 4.6 3.8
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2029 1485.9 1230.6 1134.8 908.0 359.0 920.2 250.7 194.6 81.8 250.9 220.8 60.2 222.0 182.5 109.4
174.0 158.8 129.4 130.1 68.6 103.5 99.9 71.5 46.5 22.3 56.8 91.7 67.2 46.1 23.7 30.3 49.1

29.9 44.1 15.7 40.3 22.0 19.6 15.6 29.6 15.1 15.8 18.4 14.0 12.5 7.6 7.0 16.4 4.8 4.6
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2030 1489.4 1211.9 1118.0 879.4 382.0 914.5 274.7 209.2 93.1 242.4 231.3 58.3 228.2 174.3 109.0
171.3 153.3 126.7 138.6 72.8 100.9 96.2 73.6 49.8 24.3 61.6 95.5 66.6 49.8 26.0 29.4 50.5
28.4 44.8 17.2 41.6 21.7 18.8 16.9 30.5 14.8 16.2 19.9 15.5 12.1 7.8 7.1 16.3 4.6 5.4
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2031 1622.3 1298.7 1220.3 946.9 416.8 972.5 296.0 230.2 96.2 258.4 256.0 62.8 231.2 178.3 116.8
185.3 155.4 133.5 137.8 81.0 109.9 99.5 82.8 52.4 26.1 65.5 89.5 70.9 52.2 27.8 31.6 48.6
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2032 1631.0 1326.5 1253.3 980.6 427.6 960.0 308.7 234.4 103.3 266.8 248.5 63.0 232.2 169.0 120.5
194.6 162.8 137.3 132.5 79.0 114.8 97.0 78.8 56.2 27.9 70.4 95.2 63.3 53.9 29.6 33.2 49.2
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2033 1709.5 1363.7 1307.9 997.2 454.1 1023.9 317.6 242.1 106.7 270.7 252.7 67.3 237.0 183.1 125.8
198.6 161.3 139.1 138.5 80.9 110.9 100.9 80.1 57.4 29.6 71.9 96.6 61.8 54.3 29.7 33.5 51.1
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2034 1684.6 1302.2 1287.1 942.2 484.8 1036.4 346.9 260.9 118.9 254.1 261.2 66.7 268.8 178.8 119.4
193.2 180.1 130.5 152.7 87.1 115.9 108.0 82.6 60.3 31.9 79.1 95.1 63.0 55.7 30.9 32.3 48.9
32.2 43.5 19.8 42.0 29.2 20.2 18.9 36.9 16.0 18.6 22.7 16.8 12.6 9.1 7.0 18.7 4.3 6.2
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2035 1718.5 1337.9 1321.2 968.8 534.4 1052.3 379.6 276.1 127.5 259.7 277.5 70.7 262.5 183.9 125.8
202.3 171.4 132.7 149.5 90.7 115.9 105.5 88.2 61.6 33.8 85.0 92.8 64.3 53.6 31.6 33.1 47.0
31.1 41.4 19.9 42.2 29.6 20.8 18.2 35.9 15.8 18.9 21.9 18.2 12.6 9.9 7.0 18.8 4.7 6.5
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2036 1812.8 1383.8 1393.4 1009.8 554.8 1092.0 401.1 286.7 142.1 270.2 303.4 78.6 270.1 202.7 129.2
209.3 177.8 139.4 156.4 101.0 121.5 110.4 96.1 64.5 36.6 92.7 94.2 67.8 54.0 33.0 34.6 47.8
31.7 42.1 21.2 41.9 31.1 21.6 18.5 38.5 16.3 19.7 22.4 17.8 12.6 10.6 7.3 19.1 4.9 6.4
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2037 1831.3 1461.1 1412.7 1059.9 580.4 1115.4 421.9 302.4 145.6 280.3 308.5 77.7 264.4 192.9 136.1
216.4 171.4 144.2 134.5 102.8 127.2 110.7 99.6 67.7 38.7 93.6 94.9 69.3 54.4 35.1 36.0 44.6
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2038 1845.4 1467.1 1396.9 1070.5 604.7 1136.5 431.6 317.6 143.7 283.8 306.2 88.3 259.0 222.8 138.6
213.1 171.8 147.1 144.3 103.4 128.1 110.3 96.0 70.2 40.9 91.6 104.4 65.0 56.9 36.7 35.8 48.4
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2039 1828.5 1506.8 1447.0 1099.7 614.9 1192.5 429.4 317.6 148.0 291.5 293.0 82.3 238.3 207.2 142.4
220.1 156.3 150.8 138.5 100.1 131.1 104.0 91.7 72.8 42.6 93.0 101.4 59.7 56.7 38.2 37.3 46.0
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2040 1893.9 1563.7 1449.7 1131.7 643.6 1185.4 453.5 331.7 157.5 297.3 294.4 89.0 232.6 214.4 143.1
220.0 160.9 154.4 143.9 102.9 135.8 103.9 92.2 76.0 44.9 100.1 102.5 58.5 58.8 40.7 37.1 45.4
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2041 1910.8 1597.7 1451.9 1155.9 667.4 1243.5 471.0 349.3 159.4 303.1 309.8 85.7 250.1 195.4 146.2
218.8 164.2 157.0 142.6 107.9 136.1 107.4 97.1 78.7 46.8 100.4 102.8 61.4 59.6 41.4 38.1 44.0
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2042 2063.4 1666.7 1500.8 1203.5 691.0 1232.1 481.8 350.4 169.4 314.6 310.1 86.1 252.6 197.1 152.9
225.2 168.3 163.4 135.5 108.8 137.7 107.9 94.7 81.8 49.2 102.8 106.7 57.3 60.4 43.6 39.3 45.2
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2043 2043.7 1681.9 1471.6 1222.7 697.4 1282.5 488.3 366.1 169.0 318.0 317.1 91.7 262.0 205.4 153.7
220.5 171.5 164.2 134.5 111.7 151.2 106.8 96.5 83.4 51.2 103.2 106.7 58.3 58.7 44.8 39.4 44.3
31.0 41.9 24.9 47.1 37.5 25.8 19.4 43.2 20.4 17.5 21.6 16.8 10.8 11.6 8.7 19.2 5.7 10.1
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2044 2161.0 1721.9 1478.6 1222.2 750.6 1293.6 523.2 382.6 190.1 316.4 340.4 91.6 261.8 214.2 151.9
223.0 170.2 162.0 134.5 119.8 145.7 108.5 105.3 87.2 54.1 113.4 105.9 62.2 60.8 47.3 38.8
43.7 30.5 40.9 26.5 48.1 37.6 25.8 20.4 43.6 19.5 16.9 21.7 16.5 10.9 12.4 8.3 19.4 5.4
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2045 2091.2 1758.0 1492.6 1256.2 766.4 1310.4 538.4 401.2 197.0 328.3 348.8 93.3 250.2 208.6 157.2
222.4 163.0 168.7 137.4 123.0 152.0 106.0 105.3 88.2 55.4 117.8 105.8 60.1 59.5 48.0 40.0
42.9 29.6 40.4 26.0 48.3 38.0 26.5 19.5 44.8 20.3 18.4 20.4 17.4 10.6 12.7 8.5 19.0 5.5
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2046 2210.0 1829.3 1509.8 1309.5 793.0 1371.4 559.0 410.6 200.1 339.0 341.9 91.6 251.9 211.1 162.4
226.2 160.6 174.6 137.6 122.1 153.6 106.6 103.1 91.2 57.6 115.3 107.1 59.0 62.3 50.0 41.4
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2047 2177.7 1854.2 1583.4 1319.5 824.6 1449.9 581.7 424.6 209.9 345.7 360.1 88.9 247.0 201.8 162.7
228.8 156.8 178.9 130.9 130.6 150.2 110.0 109.9 92.7 59.3 121.4 104.8 61.9 63.1 51.4 42.9
42.1 28.5 39.2 28.6 47.7 40.1 27.9 20.7 47.1 20.2 17.8 19.8 16.5 10.3 12.9 8.4 19.6 5.4
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2048 2269.9 1905.6 1585.3 1345.4 868.8 1454.0 611.4 450.6 217.6 351.4 377.5 92.9 250.8 209.5 167.2
226.6 156.3 180.6 132.8 136.4 159.2 109.5 114.4 96.4 61.8 124.9 107.2 62.6 64.1 53.6 43.6
41.8 28.2 39.6 29.1 49.3 41.0 28.1 20.9 47.6 21.4 18.3 20.4 16.2 10.1 13.2 8.6 19.1 5.6
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2049 2363.8 1932.8 1663.5 1378.7 892.4 1501.0 623.4 459.4 225.9 357.7 382.5 102.5 247.9 221.8 171.8
238.9 156.8 183.9 131.5 139.2 162.6 110.5 116.3 98.3 63.7 129.6 107.5 61.8 65.5 55.8 45.2
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2050 2358.0 1946.4 1664.0 1374.9 913.2 1506.9 635.4 464.7 230.1 357.6 392.0 104.9 256.2 223.9 173.9
238.7 162.0 183.3 138.9 141.2 167.9 110.4 119.6 99.1 65.2 130.2 108.1 61.7 66.7 55.8 45.2
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2051 2339.7 1936.1 1692.1 1359.7 917.0 1514.7 635.0 466.9 230.9 353.4 392.3 109.8 253.7 229.7 172.6
242.9 161.8 180.9 140.5 141.6 165.6 110.5 120.5 102.3 67.6 129.9 106.1 59.8 66.3 57.8 45.2
41.0 28.3 38.5 30.6 47.5 42.5 28.2 21.4 50.2 22.3 19.6 19.5 14.9 10.0 14.0 8.5 20.4 5.4
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2052 2393.9 2035.7 1726.3 1429.7 948.4 1553.6 652.2 482.1 238.4 373.7 389.8 116.0 257.8 242.5 181.9
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2053 2428.2 2025.2 1752.4 1429.0 990.6 1496.5 675.8 500.1 245.5 371.1 399.8 115.3 253.0 234.0 183.2
249.4 157.2 189.5 143.3 145.8 168.5 109.7 121.8 106.7 72.2 133.7 105.7 58.8 67.1 60.2 47.9
41.0 27.5 37.8 31.6 48.5 43.0 29.4 21.7 52.1 22.6 19.8 19.0 14.3 9.8 14.2 8.3 20.7 5.4
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2054 2541.7 2121.5 1805.9 1504.8 1007.8 1523.9 684.8 516.7 248.7 390.5 409.6 112.8 259.2 234.5
187.1 258.1 158.0 200.3 121.2 150.0 174.1 109.5 125.6 108.9 73.9 135.7 107.1 59.1 68.4 62.1
49.9 40.4 27.5 37.4 32.3 49.2 43.2 30.6 22.2 52.3 23.0 16.7 19.4 13.6 8.8 14.3 8.1 20.7
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2055 2554.9 2127.7 1778.3 1509.2 1041.9 1562.9 704.3 527.5 253.6 391.0 410.8 117.5 253.6 238.0
187.5 250.4 155.7 199.0 126.0 150.4 172.2 106.9 126.1 111.6 76.6 135.3 105.5 58.4 68.4 63.6
49.5 40.2 26.9 37.3 32.5 48.2 42.7 30.7 22.2 51.5 22.8 18.1 19.2 14.5 8.8 14.3 8.5 20.0
5.3 10.9 5.8 2.9 7.1 4.8 4.6 6.8
2056 2630.0 2176.7 1804.4 1541.1 1052.5 1598.3 708.0 524.7 258.6 397.7 414.2 115.0 271.1 235.6
191.9 252.8 165.2 202.2 129.0 151.9 180.2 108.7 127.7 115.8 79.4 136.1 105.9 58.1 69.0 66.3

50.0 39.8 28.1 36.6 32.5 49.3 42.6 31.2 22.3 51.4 24.0 17.7 20.2 13.9 9.0 14.2 8.5 20.6
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2057 2704.5 2258.0 1854.8 1598.8 1050.5 1655.9 707.5 531.3 253.9 411.1 413.7 124.7 263.3 243.0
196.2 252.9 160.4 208.5 131.3 152.8 174.4 105.2 126.9 117.9 81.7 133.3 108.1 56.4 69.3 67.8
51.7 40.9 27.6 37.3 33.6 50.2 42.3 32.1 22.4 51.1 22.8 18.5 19.1 14.4 9.0 14.0 8.2 20.1
5.0 10.7 5.9 2.7 6.9 4.6 4.6 6.8
2058 2714.7 2283.4 1820.5 1621.1 1091.4 1637.8 730.0 542.0 265.8 415.4 416.8 126.7 260.3 243.6
197.9 252.3 159.9 210.1 129.3 153.9 179.9 103.2 129.1 120.3 83.5 136.1 108.7 55.8 69.1 69.7
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52.7 40.8 27.7 37.0 33.6 51.4 43.0 32.0 21.8 52.0 23.3 17.5 19.6 15.3 8.5 13.4 7.9 21.1
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202.4 258.0 164.1 207.9 127.6 154.9 181.3 101.0 131.5 127.4 88.2 132.8 111.4 54.7 68.4 73.4
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214.1 267.7 146.4 204.0 122.2 160.6 181.2 84.9 143.4 158.3 114.1 132.4 113.5 48.5 67.1 91.0
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218.0 267.7 138.7 206.5 122.7 158.7 181.7 81.3 142.2 161.0 115.9 132.6 109.9 47.4 66.7 92.5
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218.5 271.9 144.0 208.1 125.5 156.9 178.4 82.9 139.9 163.4 118.0 131.1 110.0 45.6 65.7 93.6
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221.8 270.9 143.0 209.9 123.2 155.2 181.4 80.0 138.4 165.4 119.5 132.1 109.0 43.9 65.6 95.1
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2079 3279.6 2644.8 2052.0 1800.7 1309.6 1810.6 807.8 594.4 314.2 457.1 382.4 151.9 239.7 239.2
224.4 271.7 143.8 210.3 121.6 152.6 188.4 77.1 137.3 173.5 125.8 127.3 107.4 41.9 65.5 98.1
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230.3 277.6 143.5 214.0 125.0 151.4 190.3 75.6 137.3 179.8 130.6 125.3 110.7 40.7 64.1 102.3
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235.1 279.8 143.5 218.4 122.0 149.5 188.8 72.0 134.0 185.1 137.1 132.9 114.0 36.2 64.4 107.3
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2089 3471.1 2853.7 2083.8 1938.3 1432.4 1810.9 847.7 629.7 337.0 495.0 348.9 165.7 228.4 247.0
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2097 3505.0 2933.8 2067.3 1970.0 1547.4 1855.5 906.2 677.0 374.4 509.5 361.9 168.4 218.8 242.0
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2100 3525.4 4090.8 2464.3 2717.1 1600.7 2852.2 2143.5 705.2 385.4 518.0 464.6 174.5 224.5 247.2
284.8 239.5 132.1 224.9 133.1 151.6 200.5 93.7 191.3 195.7 154.5 145.6 114.6 40.1 63.7 116.3
68.4 35.8 26.7 26.5 38.4 50.7 31.9 37.2 19.0 39.7 24.4 23.9 15.8 15.8 5.5 11.9 8.4 27.9
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Standard deviation of computed glacier area (in km^2) derived from results of 14 GCMs. Results refer to 56 macroscale drainage basins over the period 1980 to 2100 for RCP4.5.
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Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year GlacierArea (km^2)
1980 0.2 7.9 4.8 5.5 0.0 0.1 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.5 0.5 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.7 0.0 0.1 0.0 0.0 0.0 1.1 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0
1981 4.8 113.2 50.9 85.2 0.0 1.6 0.0 0.0 0.0 29.4 0.0 0.0 0.0 0.0 7.9 10.9 0.0 15.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.9 0.0 3.1 0.0 0.0 0.0 1.8 0.0 0.0 2.1 2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0
1982 4.9 114.5 51.3 85.5 0.0 1.4 0.0 0.0 0.0 29.4 0.0 0.0 0.0 0.0 8.4 10.8 0.0 15.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.6 0.0 3.0 0.0 0.0 0.0 1.5 0.0 0.0 2.2 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.7 0.0 0.0 0.0 0.0 0.0 0.0
1983 5.9 131.2 59.3 100.6 0.0 1.9 0.0 0.0 0.0 35.0 0.0 0.0 0.0 0.0 9.8 12.7 0.0 18.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.2 0.0 3.6 0.0 0.0 0.0 1.9 0.0 0.0 2.7 2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.1 0.0 0.0 0.0 0.0 0.0 0.0
1984 7.2 150.8 71.7 116.8 0.0 2.4 0.0 0.0 0.0 40.8 0.0 0.0 0.0 0.0 11.6 15.5 0.0 21.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.1 0.0 4.4 0.0 0.0 0.0 2.4 0.0 0.0 3.1 3.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0
1985 8.3 167.3 80.3 129.7 0.0 2.4 0.0 0.0 0.0 45.6 0.0 0.0 0.0 0.0 13.0 17.1 0.0 23.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.6 0.0 4.7 0.0 0.0 0.0 2.7 0.0 0.0 3.4 3.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.7 0.0 0.0 0.0 0.0 0.0 0.0
1986 9.6 208.4 97.9 160.7 0.0 3.0 0.0 0.0 0.0 55.8 0.0 0.0 0.0 0.0 16.2 20.7 0.0 29.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 13.3 0.0 5.6 0.0 0.0 0.0 3.2 0.0 0.0 4.2 4.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 0.0 0.0 0.0 0.0 0.0 0.0
1987 9.0 202.2 94.8 157.2 0.0 2.6 0.0 0.0 0.0 53.6 0.0 0.0 0.0 0.0 15.1 19.7 0.0 28.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 13.7 0.0 5.2 0.0 0.0 0.0 3.0 0.0 0.0 4.1 4.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0
1988 11.7 258.5 122.1 201.8 0.0 3.7 0.0 0.0 0.0 68.4 0.0 0.0 0.0 0.0 20.3 25.8 0.0 36.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 18.5 0.0 6.8 0.0 0.0 0.0 4.1 0.0 0.0 5.2 6.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.8 0.0 0.0 0.0 0.0 0.0 0.0

1989 11.1 244.5 115.8 191.7 0.0 3.4 0.0 0.0 0.0 64.4 0.0 0.0 0.0 0.0 19.5 23.8 0.0
34.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 15.3 0.0 6.5 0.0 0.0 0.0 3.8 0.0
0.0 5.0 5.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0
0.0
1990 12.5 277.1 131.1 215.7 0.0 3.7 0.0 0.0 0.0 73.6 0.0 0.0 0.0 0.0 22.1 27.2 0.0
38.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 19.6 0.0 7.3 0.0 0.0 0.0 4.5 0.0
0.0 5.5 6.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.9 0.0 0.0 0.0 0.0 0.0
0.0
1991 11.9 270.5 131.1 210.5 0.0 3.5 0.0 0.0 0.0 72.1 0.0 0.0 0.0 0.0 21.5 26.0 0.0
36.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 17.7 0.0 6.9 0.0 0.0 0.0 4.8 0.0
0.0 5.5 6.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.2 0.0 0.0 0.0 0.0 0.0
0.0
1992 15.0 323.6 157.0 252.9 0.0 4.4 0.0 0.0 0.0 87.0 0.0 0.0 0.0 0.0 26.2 32.3 0.0
45.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 19.4 0.0 8.6 0.0 0.0 0.0 5.2 0.0
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0.0
1993 14.3 318.6 154.6 249.4 0.0 4.6 0.0 0.0 0.0 85.3 0.0 0.0 0.0 0.0 25.7 31.4 0.0
44.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 18.7 0.0 8.3 0.0 0.0 0.0 5.1 0.0
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1994 16.5 366.3 178.3 286.6 0.0 5.1 0.0 0.0 0.0 97.9 0.0 0.0 0.0 0.0 29.8 36.6 0.0
50.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.3 0.0 9.6 0.0 0.0 0.0 5.5 0.0
0.0 7.4 7.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.3 0.0 0.0 0.0 0.0 0.0
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1995 17.7 382.8 189.9 303.9 0.0 5.3 0.0 0.0 0.0 104.7 0.0 0.0 0.0 0.0 31.8 40.2 0.0
54.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 19.4 0.0 10.4 0.0 0.0 0.0 5.4 0.0
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1996 19.4 410.9 202.3 323.7 0.0 5.5 0.0 0.0 0.0 111.2 0.0 0.0 0.0 0.0 33.8 42.9 0.0
58.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21.7 0.0 11.0 0.0 0.0 0.0 5.5 0.0
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1997 18.5 383.7 191.4 306.4 0.0 5.4 0.0 0.0 0.0 104.9 0.0 0.0 0.0 0.0 32.5 41.2 0.0
55.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 22.8 0.0 10.5 0.0 0.0 0.0 5.6 0.0
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1998 17.6 369.9 185.2 295.4 0.0 5.1 0.0 0.0 0.0 100.6 0.0 0.0 0.0 0.0 30.5 39.2 0.0
53.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.2 0.0 9.8 0.0 0.0 0.0 6.0 0.0
0.0 8.1 8.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.1 0.0 0.0 0.0 0.0 0.0
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1999 19.2 392.2 196.1 311.0 0.0 5.1 0.0 0.0 0.0 107.5 0.0 0.0 0.0 0.0 33.0 42.4 0.0
57.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 25.6 0.0 10.4 0.0 0.0 0.0 6.7 0.0
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2000 18.2 374.0 189.2 297.2 0.0 4.7 0.0 0.0 0.0 103.6 0.0 0.0 0.0 0.0 31.3 40.1 0.0
53.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 23.4 0.0 9.7 0.0 0.0 0.0 6.4 0.0
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2001 21.0 429.0 216.6 341.9 0.0 5.6 0.0 0.0 0.0 118.9 0.0 0.0 0.0 0.0 36.3 47.4 0.0
62.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 23.6 0.0 11.4 0.0 0.0 0.0 6.4 0.0
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2002 120.5 389.7 199.9 310.5 0.0 65.7 0.0 0.0 0.0 109.3 0.0 11.0 0.0 28.5 30.4 39.5 0.0
57.0 0.0 0.0 12.8 0.0 0.0 3.3 2.5 0.0 0.0 0.0 21.2 2.1 9.7 0.0 0.0 0.0 6.1 0.0

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2003 112.6 423.0 170.5 342.4 0.0 108.5 0.0 0.0 0.0 119.2 0.0 10.4 0.0 24.1 31.7 40.2
0.0 62.5 0.0 0.0 13.6 0.0 0.0 3.7 3.1 0.0 0.0 0.0 18.4 2.6 10.8 0.0 0.0 0.0 5.9
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0.3 0.0
2004 187.2 422.8 239.8 336.1 0.0 137.8 0.0 0.0 0.0 119.8 0.0 12.1 0.0 32.4 32.2 43.7
0.0 62.8 17.8 0.0 24.1 0.0 0.0 5.4 4.5 0.0 0.0 0.0 18.4 3.1 10.5 0.0 0.0 0.0 5.7
0.0 2.3 9.7 7.2 2.7 3.2 2.4 0.0 3.3 1.9 0.0 1.6 2.2 1.3 1.8 0.4 0.5 0.5 0.7
0.3 0.0
2005 227.8 427.7 258.5 345.7 0.0 184.2 0.0 0.0 0.0 120.6 0.0 8.0 0.0 28.4 33.3 46.1 0.0
63.6 25.7 0.0 19.1 0.0 0.0 7.6 6.6 0.0 6.1 0.0 17.2 4.5 11.1 3.7 0.0 3.1 5.6 2.6
4.5 10.0 6.7 3.9 2.5 3.4 0.0 3.3 2.2 0.0 2.0 2.8 1.6 1.5 0.5 1.1 0.7 1.1 0.5
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2006 265.0 441.1 262.6 350.9 0.0 220.7 1.2 0.0 0.0 122.7 0.1 12.2 19.3 36.6 28.2 43.2
19.1 65.1 24.4 0.0 29.3 9.0 0.1 9.7 7.9 0.0 10.3 11.8 16.4 5.7 10.7 6.3 3.4 5.4
5.9 4.6 5.2 10.5 7.0 5.2 3.8 3.7 1.9 4.3 2.1 0.0 2.1 3.5 1.6 1.7 0.4 1.2 1.0
1.1 0.7 0.0
2007 305.9 362.2 244.0 287.8 0.0 237.5 1.3 0.0 0.0 104.1 0.1 13.1 21.3 41.7 21.3 34.7
18.5 54.7 52.9 0.0 26.7 9.8 0.1 12.5 9.9 0.0 10.8 13.1 12.6 7.4 8.1 7.9 3.1 5.9
5.6 4.8 5.5 8.8 5.6 7.1 3.5 6.7 2.6 4.2 4.6 0.0 2.8 3.4 2.0 1.8 0.7 2.2 1.3
2.2 0.7 0.0
2008 397.4 404.7 267.4 317.0 0.0 250.6 1.7 0.0 0.0 111.2 0.1 15.5 32.2 39.8 25.3 42.0
25.3 59.2 40.3 0.0 33.6 13.8 0.1 13.2 9.8 0.0 13.9 15.1 12.9 8.0 9.8 8.4 4.9 7.3
5.2 6.5 4.3 9.5 6.3 6.0 5.3 4.7 4.5 3.3 3.8 0.0 2.5 4.1 1.8 2.0 0.7 1.6 1.1
2.2 0.6 0.0
2009 441.7 385.2 289.4 296.7 0.0 282.9 2.2 0.0 0.0 106.7 0.1 19.3 35.6 52.8 25.5 42.5
30.6 55.9 48.9 0.0 32.0 19.7 0.2 15.7 10.7 0.0 12.3 14.1 10.3 9.6 9.4 9.6 5.1 7.0
5.1 5.7 6.0 8.8 4.6 7.5 4.8 5.5 4.1 5.5 4.8 0.0 3.2 4.8 2.1 2.0 0.7 1.2 1.4
1.6 0.8 0.0
2010 427.6 414.8 334.3 322.2 0.0 334.4 2.9 0.0 0.0 114.2 0.2 14.1 36.0 49.1 25.2 47.9
31.3 60.9 61.3 0.0 35.8 23.4 0.3 16.8 11.0 0.0 17.6 23.8 9.1 9.9 10.0 13.0 6.1 10.5
4.7 6.7 7.3 9.6 4.4 8.7 5.0 5.6 4.8 5.8 6.4 0.0 3.0 5.4 1.8 2.0 1.0 1.8 1.6
1.8 1.0 0.0
2011 537.2 427.4 373.4 320.1 47.3 344.8 29.8 29.1 12.7 112.8 47.3 18.8 55.4 55.4 29.7 52.7
51.2 61.0 82.7 13.4 34.5 38.4 15.7 20.0 12.3 6.9 20.0 34.2 8.8 11.9 10.1 13.5 9.1 10.7
4.1 7.8 9.0 9.8 4.5 9.5 5.3 7.9 6.5 5.3 8.3 0.8 2.9 5.8 1.5 1.4 1.1 2.2 1.8
2.2 1.3 0.2
2012 548.2 475.0 389.2 342.9 54.2 374.3 40.2 33.7 16.0 117.7 52.1 18.7 72.7 56.9 29.4 51.9
63.1 65.8 77.5 14.9 46.6 44.7 18.2 22.0 13.0 9.6 27.8 43.5 13.8 12.9 10.5 17.6 10.7 14.0
5.2 11.9 9.9 10.8 6.0 11.3 6.5 7.5 8.9 6.8 8.4 1.2 3.2 6.4 1.7 1.3 1.1 2.3 2.1
2.2 1.5 0.3
2013 557.0 470.0 350.1 352.0 76.3 343.4 52.7 45.5 20.8 123.0 56.0 21.0 62.0 58.1 27.8 49.9
60.2 66.6 100.6 16.8 44.7 47.6 18.0 24.3 13.7 11.3 27.7 37.8 16.5 14.1 10.1 17.6 11.2
13.2 5.5 12.7 13.2 10.7 6.4 12.2 6.2 7.2 8.9 6.6 11.3 1.3 3.7 6.5 2.0 1.7 1.3 2.0
2.1 1.9 1.9 0.4
2014 671.8 510.2 452.4 367.9 98.3 416.3 70.3 60.9 25.5 123.8 54.9 22.2 79.4 63.9 32.8 61.2
69.6 69.7 98.4 17.7 52.0 50.3 18.1 26.4 14.4 15.2 32.1 41.9 20.9 15.2 11.0 21.9 11.7
16.7 7.1 15.7 14.3 11.5 7.2 14.0 7.9 7.6 10.7 8.7 11.1 1.8 4.4 7.8 2.3 1.7 1.4 1.6
2.4 1.9 2.0 0.5
2015 647.5 492.6 451.1 375.4 142.7 398.5 96.8 81.0 36.7 128.8 90.0 21.7 89.8 71.9 35.3 65.2
83.0 70.1 113.2 28.0 55.8 63.9 30.5 29.9 15.6 22.6 28.8 56.8 22.4 17.0 11.5 19.4 14.5
13.4 7.2 15.5 15.4 11.4 8.0 14.5 7.7 9.6 9.9 9.5 12.4 2.8 4.0 8.2 1.8 1.5 1.5 2.1
2.6 2.1 2.3 0.5

2016 735.5 546.0 484.3 387.4 139.4 485.5 97.3 84.1 34.6 130.5 101.5 28.8 87.6 85.2 39.4 69.4
83.5 72.5 115.2 31.5 61.4 60.4 32.1 32.0 15.9 20.5 35.3 58.4 24.3 18.0 11.5 19.7 15.3
15.5 7.7 17.1 16.5 11.8 8.7 15.6 8.7 9.4 10.9 11.3 12.7 2.3 5.3 9.0 2.7 2.0 1.6
1.9 2.7 2.2 2.4 0.6
2017 751.4 567.0 502.3 416.5 155.5 457.8 107.1 93.9 40.5 139.6 119.6 30.6 101.5 93.5 43.6
75.6 86.7 77.6 142.3 35.7 71.7 67.3 40.2 34.9 16.7 25.1 41.0 65.7 27.1 19.8 13.0 24.7
14.3 18.7 8.1 20.0 17.3 12.2 9.5 16.5 9.8 13.1 12.2 11.1 15.1 3.0 5.4 8.9 2.7 2.5
2.0 2.3 3.0 3.0 2.6 0.7
2018 826.7 558.7 547.0 393.3 159.7 555.0 108.7 101.1 40.5 129.9 123.4 39.5 105.1 114.1 45.3
82.6 90.3 72.7 145.7 37.3 74.3 66.5 40.7 36.9 17.4 25.1 39.3 62.3 27.4 20.5 12.6 23.8
15.3 17.1 8.4 20.5 18.6 11.8 9.6 18.1 10.7 12.3 13.9 13.3 15.6 3.1 6.1 10.3 3.0 2.8
2.1 2.2 3.3 2.7 2.7 0.8
2019 812.4 558.7 615.3 411.7 188.7 608.2 126.3 107.1 43.5 138.3 128.3 43.5 117.3 123.0 50.7
88.3 102.1 75.7 146.5 38.8 75.5 69.1 43.6 38.2 18.0 27.8 40.7 63.3 30.9 21.4 13.9 24.4
17.3 17.6 9.6 21.5 19.6 12.0 10.4 18.3 11.1 13.7 14.8 13.1 15.4 3.6 6.0 10.6 3.1 3.3
2.1 2.3 3.3 2.9 2.8 0.8
2020 839.2 547.0 577.5 403.0 207.7 580.9 138.2 127.8 49.2 133.9 150.9 38.5 139.5 115.5 52.0
89.4 116.5 73.5 162.0 45.3 76.3 77.0 51.7 39.2 18.1 32.6 47.5 69.2 34.1 21.6 13.5 26.1
19.2 20.6 10.5 23.9 20.5 11.9 11.7 20.6 11.8 16.2 16.8 15.7 16.5 4.3 6.6 10.8 3.3 3.4
2.2 2.3 3.7 2.8 2.8 1.0
2021 879.7 535.2 610.2 389.8 241.6 660.1 162.4 144.6 55.3 137.2 165.3 43.7 148.7 131.8 49.1
90.8 120.8 74.4 170.8 52.1 77.4 78.8 55.4 41.7 19.1 36.5 51.4 70.9 38.1 23.0 13.3 29.5
19.1 22.7 11.2 26.3 23.0 12.3 12.9 21.9 11.5 16.3 17.9 15.5 17.6 4.8 6.1 11.0 3.1 3.6
2.3 2.2 4.0 3.1 3.0 1.1
2022 928.7 566.6 637.5 419.3 251.7 642.5 174.2 157.1 59.9 142.7 171.4 41.4 139.9 127.8 51.9
97.5 100.3 77.0 169.5 54.8 79.9 82.3 60.0 42.9 19.4 40.5 51.1 72.0 37.8 24.2 14.8 29.8
16.4 22.4 11.4 26.2 24.5 12.5 12.8 24.0 12.2 16.0 15.6 13.9 17.4 5.4 6.3 11.4 3.1 3.6
2.4 2.1 4.2 3.1 3.1 1.4
2023 945.8 592.6 672.3 431.8 265.9 694.9 182.5 166.8 64.9 148.9 186.5 46.2 163.3 140.8 57.1
103.7 119.8 78.7 178.8 58.1 87.2 90.6 64.1 44.7 20.1 44.9 54.9 75.3 41.5 25.0 15.9 31.4
19.5 24.1 12.6 28.8 25.3 13.0 14.0 26.2 12.6 17.5 17.3 15.3 17.9 6.2 7.1 12.0 3.4 3.5
2.5 2.1 4.6 3.5 3.2 1.5
2024 963.5 597.7 714.4 451.7 287.2 686.3 205.7 187.4 71.8 151.6 201.8 45.7 159.2 139.6 61.7
109.9 115.2 79.1 185.1 64.6 92.7 97.9 68.7 47.3 21.6 49.3 59.8 75.3 41.8 26.3 16.7 31.6
20.2 25.8 12.4 29.4 28.2 13.3 14.3 28.7 13.9 17.9 16.6 14.3 18.5 6.6 7.4 13.0 3.3 4.1
2.7 2.1 4.9 3.6 3.4 1.8
2025 1098.7 600.7 775.5 433.4 304.0 785.6 216.8 194.0 75.4 142.4 193.2 48.4 174.8 140.2 67.1
115.0 128.7 74.8 184.5 63.1 93.3 98.7 65.7 50.5 23.2 53.5 64.4 71.5 45.1 27.9 17.2 33.0
21.8 27.9 13.4 31.1 31.0 12.6 15.4 32.8 13.7 18.8 17.8 15.6 18.2 7.3 7.2 12.9 3.3 4.2
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2026 1138.6 717.7 823.8 520.2 332.5 738.6 238.6 209.9 87.0 169.4 212.5 47.2 167.3 143.4 72.1
125.5 122.8 87.1 196.5 70.4 100.4 101.6 71.1 52.6 24.5 61.1 66.6 73.1 47.1 29.0 19.5 33.1
21.7 28.2 14.0 32.1 30.5 14.5 16.2 33.7 14.9 20.9 15.8 15.0 18.9 8.1 7.9 14.0 3.6 4.7
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2027 1239.6 794.4 865.4 574.8 346.5 774.1 246.8 220.0 92.2 183.5 226.8 45.7 189.2 133.8 82.2
137.6 134.4 95.3 194.1 74.1 104.1 105.0 77.3 55.3 26.2 65.8 73.5 80.6 50.1 30.3 22.1 36.7
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2028 1234.1 850.8 939.3 640.7 383.1 869.4 277.8 239.9 102.5 202.8 254.2 53.5 192.9 150.3 87.9
146.4 133.3 105.2 185.1 83.5 105.2 111.5 87.1 59.1 28.4 72.8 73.9 85.2 53.1 32.2 23.9 38.5
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157.9 140.5 109.1 187.5 81.1 108.9 113.5 85.3 61.6 30.0 74.2 83.4 82.3 54.9 33.3 25.5 42.4

24.7 35.8 17.5 37.3 36.5 17.8 18.9 40.2 15.4 20.1 19.1 16.8 16.5 9.9 8.4 15.5 4.0 5.4
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2031 1444.6 971.3 1094.2 711.9 453.5 991.5 320.6 274.0 113.6 219.0 268.2 56.3 204.7 162.5 106.0
174.2 142.3 112.9 183.4 87.0 111.1 109.2 90.4 68.0 35.1 80.8 86.6 83.1 57.8 35.9 27.7 41.6
25.0 36.1 19.0 39.0 37.7 18.2 19.9 42.5 15.0 19.1 19.8 19.0 15.7 10.9 8.7 16.8 4.1 6.3
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194.7 149.7 129.4 184.1 101.3 121.9 117.3 105.6 73.7 40.8 93.7 94.8 92.9 62.5 38.7 32.7 42.1
25.7 38.4 20.9 40.8 40.0 20.6 21.5 44.9 16.4 21.6 21.9 19.7 15.1 12.8 9.1 17.8 4.3 6.9
3.3 2.9 7.2 5.0 4.8 3.8
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194.9 150.1 127.3 184.1 102.5 118.8 116.8 107.4 77.6 43.3 97.3 94.6 91.9 65.6 41.1 32.6 42.4
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197.8 153.3 133.0 191.2 105.2 125.6 119.0 108.0 79.5 45.3 97.5 97.3 89.6 65.2 41.8 33.3 41.2
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3.8 3.3 7.3 5.2 4.9 4.2
2036 1759.6 1315.8 1365.7 943.8 613.4 1176.3 434.1 359.0 153.9 270.4 330.5 76.2 218.6 198.7 138.7
209.7 147.1 139.8 185.0 107.7 123.5 115.0 108.2 80.9 47.2 106.4 99.2 86.3 66.0 42.2 35.4 42.3
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2037 1746.4 1365.8 1403.0 1000.6 629.5 1227.8 450.1 363.5 154.9 285.8 329.8 76.3 225.4 207.2 144.4
214.4 150.6 146.2 181.9 108.9 130.9 117.5 107.7 85.2 50.8 105.7 100.4 84.0 68.0 44.5 37.0
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9.0 3.7 2.6 7.4 4.9 5.1 4.9
2038 1830.7 1428.8 1448.6 1017.2 664.5 1318.7 473.0 372.5 171.2 293.9 343.0 77.3 230.2 195.4 147.6
223.0 156.1 150.3 191.9 114.6 131.3 121.2 112.2 87.2 52.9 114.8 97.2 81.9 68.9 45.7 38.2 38.0
27.7 37.1 24.1 44.2 45.3 23.8 23.2 50.7 17.3 23.6 19.9 18.7 14.6 15.0 8.4 19.4 3.9 9.6
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232.0 155.6 151.5 187.0 116.4 127.8 120.6 114.2 90.2 55.8 117.3 99.6 82.7 68.8 47.3 40.0 37.8
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2040 1947.7 1503.2 1541.8 1083.0 729.9 1391.8 515.9 401.2 193.4 304.7 351.6 80.2 222.1 201.5 162.4
237.2 149.1 154.6 188.9 119.1 133.3 115.7 114.1 91.9 57.7 125.4 99.7 79.3 69.5 48.1 40.9 38.1
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237.5 151.7 150.1 182.1 119.5 129.0 115.1 114.0 95.9 60.5 127.3 101.6 76.6 67.9 50.6 40.9
38.2 26.4 37.7 24.5 46.6 45.7 24.0 23.0 51.4 17.3 21.6 18.9 18.4 14.3 15.9 8.1 19.9 4.1
10.0 4.2 2.6 7.4 4.8 5.3 5.6
2042 1985.8 1556.6 1638.6 1136.1 762.6 1476.2 538.6 407.7 199.4 313.4 353.2 82.9 225.6 199.0 173.0
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2043 1955.7 1569.3 1651.5 1144.0 799.7 1451.0 564.9 418.8 213.8 310.2 356.7 85.2 227.3 205.2 176.3
250.5 154.2 156.6 175.7 121.3 130.8 116.7 113.6 101.7 66.0 135.0 106.7 72.0 71.2 53.4 43.7
37.8 27.1 37.6 26.1 48.8 44.4 25.0 24.0 50.7 17.6 19.5 18.5 18.7 13.6 16.6 7.7 20.5 4.1
10.6 4.4 2.7 7.2 4.8 5.2 6.0
2044 1972.7 1673.2 1690.7 1233.6 827.2 1459.6 581.1 427.9 215.4 335.7 372.5 88.4 237.3 207.1 182.1
255.3 160.0 168.4 181.5 126.7 140.2 117.1 120.4 102.4 67.8 134.8 105.7 75.7 72.8 53.8 45.8
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2045 2056.1 1713.3 1707.9 1242.5 873.0 1496.3 606.8 447.4 227.9 336.3 380.5 90.0 243.6 203.2 184.3
256.7 163.7 169.1 171.6 129.2 134.1 117.5 123.8 103.9 69.7 139.0 105.0 75.3 75.7 55.1 46.2
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2046 2072.2 1799.4 1701.1 1326.1 900.3 1449.8 625.2 453.4 237.4 356.1 388.3 89.7 257.3 201.8 192.2
260.9 171.5 179.0 174.9 131.7 143.6 117.7 129.2 106.8 72.4 142.6 104.4 76.1 75.9 57.2 47.8
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281.2 190.8 187.9 160.9 141.8 140.9 119.3 141.5 115.4 81.1 156.4 114.8 76.6 79.6 62.7 52.4
38.0 31.2 36.9 32.2 53.9 46.8 29.0 26.3 50.8 18.1 23.0 23.3 18.5 10.5 18.2 6.7 21.1 4.0
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286.8 188.0 196.3 160.1 141.8 143.7 114.5 143.9 119.3 83.8 156.0 109.5 75.2 78.4 65.2 53.7
35.9 30.5 33.9 32.0 53.2 45.6 30.3 25.7 51.6 18.3 23.0 23.3 17.8 10.1 18.0 6.6 20.9 3.9
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2060 2647.2 2461.7 2096.3 1772.1 1193.1 1740.8 784.0 551.6 317.6 435.1 378.3 119.8 263.8 218.6
245.3 304.6 176.2 204.5 145.9 138.4 171.6 101.8 138.4 141.3 105.7 164.9 110.2 54.0 74.4 78.1
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245.4 306.4 168.7 204.7 135.6 138.3 177.9 97.8 139.5 147.2 110.6 165.4 110.6 51.6 74.0 81.0
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63.1 28.1 27.5 25.0 35.8 52.4 43.6 33.4 21.3 39.9 22.7 21.8 17.3 14.3 5.7 16.2 6.2 22.4
4.3 8.7 6.7 3.6 4.2 2.9 4.7 6.7
2068 3010.2 2750.7 2221.1 1905.5 1320.2 1887.3 835.6 594.3 346.0 460.9 354.0 141.4 250.3 225.0
249.7 306.0 161.1 206.0 126.0 133.9 181.6 85.5 140.5 163.8 126.3 164.1 107.9 42.9 72.3 88.5
63.4 27.4 27.7 24.3 36.5 52.2 42.5 33.6 21.6 38.1 22.7 21.7 17.7 13.3 5.7 16.0 6.0 22.6
4.1 8.7 6.8 3.7 3.9 2.9 4.5 6.7
2069 3072.5 2839.1 2206.0 1955.9 1341.3 1864.9 844.3 593.3 349.2 475.5 350.3 144.6 245.5 223.1
252.1 306.9 156.6 210.8 124.8 133.5 181.6 83.2 139.9 165.2 128.0 162.7 108.2 40.8 70.8 89.0
64.5 27.4 27.4 24.3 36.1 51.4 43.2 34.3 21.1 38.1 22.3 21.9 17.4 13.2 5.5 15.6 5.8 22.4
4.1 8.6 6.9 3.7 4.0 2.8 4.6 6.7

2070 3059.1 2817.1 2201.9 1926.9 1344.6 1866.4 846.6 604.7 348.1 470.0 354.4 141.6 248.7 218.1
250.5 305.8 157.9 206.8 120.1 134.5 183.2 83.4 142.7 167.7 130.7 158.3 109.5 40.2 72.6 89.8
63.8 27.2 27.8 24.3 36.7 52.3 42.4 33.9 21.6 37.0 22.3 21.2 17.3 12.5 5.1 14.9 5.9 22.6
4.1 8.6 6.9 3.7 3.8 2.7 4.5 6.6
2071 3090.1 2860.8 2212.4 1954.8 1376.3 1865.6 862.8 612.8 358.4 479.2 356.0 144.7 245.8 221.2
252.6 303.2 155.5 208.8 120.7 136.2 179.0 82.0 143.5 170.8 133.3 161.1 110.0 39.5 70.1 91.5
64.6 27.1 27.9 24.1 36.2 52.2 42.8 34.1 20.7 36.9 21.7 21.3 17.0 12.0 5.0 15.1 5.9 22.3
4.2 8.7 7.0 4.0 3.9 2.6 4.5 6.7
2072 3173.3 2899.5 2230.7 1968.5 1391.8 1859.9 867.3 619.2 362.7 483.3 360.1 144.9 245.3 217.8
254.3 305.5 153.4 209.1 117.7 137.6 181.6 80.1 145.5 174.6 136.3 161.3 107.5 39.5 70.3 93.2
65.1 25.7 27.6 23.1 36.4 51.5 41.6 34.3 20.6 36.5 22.0 20.8 17.1 11.8 4.8 15.1 5.7 22.6
4.0 8.5 7.0 4.1 3.8 2.5 4.4 6.7
2073 3223.5 2931.4 2218.7 1984.2 1418.7 1855.8 877.3 624.0 361.6 487.7 358.8 145.3 247.6 215.9
255.5 302.3 154.0 210.0 114.4 137.9 187.1 80.2 146.8 179.7 140.0 159.2 108.9 38.8 69.0 96.3
65.4 25.5 28.2 23.3 36.3 50.4 42.3 34.2 20.0 35.4 22.4 19.7 16.7 11.9 4.8 14.8 5.9 22.3
4.2 8.3 6.8 4.0 3.7 2.4 4.5 6.5
2074 3266.9 2944.8 2216.2 1986.9 1431.8 1832.7 883.8 630.9 365.9 491.3 356.9 152.5 238.1 211.9
255.0 302.4 147.2 209.6 114.9 137.2 186.0 77.7 147.4 182.9 142.9 160.2 107.8 37.5 69.6 98.5
65.3 25.4 27.7 22.7 36.7 51.1 41.9 34.4 20.2 34.5 22.3 20.6 16.3 11.1 4.5 14.9 5.6 22.5
4.1 8.4 6.9 4.2 3.7 2.3 4.4 6.5
2075 3249.3 2963.8 2194.0 1987.8 1442.9 1850.8 885.7 634.8 366.3 490.8 359.8 152.3 245.7 217.0
254.1 298.9 150.8 208.6 110.2 137.8 185.5 78.7 149.9 186.8 146.2 158.7 106.6 38.2 69.2 100.3
65.2 24.4 28.6 22.2 36.9 50.4 42.1 34.1 19.8 34.2 22.6 20.0 16.6 11.4 4.2 14.7 5.6 22.4
4.1 8.4 6.9 4.2 3.6 2.1 4.4 6.4
2076 3307.8 2979.0 2230.7 2001.5 1464.1 1865.4 899.5 646.0 371.6 494.7 363.2 149.8 245.4 206.7
253.5 301.3 149.9 209.4 111.1 139.9 189.0 77.4 153.0 188.7 148.8 157.9 103.8 38.3 69.5 101.4
65.6 23.2 28.5 20.8 37.3 49.4 41.3 34.4 19.8 34.3 23.1 20.5 16.8 11.2 4.2 14.6 5.7 22.8
4.1 8.7 6.7 4.1 3.8 2.1 4.3 6.3
2077 3280.4 2976.8 2261.3 1975.2 1475.7 1916.3 901.7 654.4 372.4 491.6 368.2 153.1 246.3 210.6
254.2 299.9 146.8 205.8 109.5 140.7 185.3 76.4 155.5 190.8 151.2 159.5 104.7 38.1 68.0 102.4
65.5 23.1 28.4 20.9 36.9 49.3 40.9 33.8 19.2 33.2 22.8 19.9 16.9 11.1 4.2 14.7 5.7 22.7
4.1 8.6 6.7 4.1 3.6 2.0 4.2 6.1
2078 3373.1 3027.6 2270.7 2000.9 1500.5 1906.6 917.5 665.9 382.0 499.4 366.7 153.0 242.1 204.1
254.4 302.4 145.2 207.8 111.4 140.4 189.2 75.3 156.6 193.5 153.6 159.3 102.6 36.6 66.8 103.6
65.5 22.2 28.6 20.0 36.8 49.0 41.8 34.2 18.7 33.5 22.9 20.6 16.7 11.2 4.2 14.3 5.6 23.0
4.1 8.4 6.7 4.2 3.7 1.9 4.3 6.2
2079 3329.3 3024.3 2267.2 1977.4 1497.8 1918.5 915.2 669.5 381.5 496.4 367.7 157.7 241.2 212.0
253.0 298.3 143.4 204.7 107.5 140.9 190.7 74.3 157.5 195.1 155.9 157.5 105.1 36.1 66.8 104.9
65.3 22.3 28.7 20.2 36.9 50.1 41.3 33.7 18.6 33.5 23.0 20.2 16.6 11.2 3.9 14.2 5.7 23.0
4.2 8.4 6.6 4.2 3.7 1.9 4.2 6.1
2080 3421.9 3061.5 2296.7 1987.8 1505.8 1982.7 916.6 671.4 378.1 498.4 351.0 157.9 234.5 208.8
252.3 297.7 139.1 204.7 106.5 136.0 193.4 71.4 152.8 198.0 159.1 154.7 104.2 33.2 65.7 106.7
65.2 21.8 28.4 19.9 36.7 49.9 41.1 33.8 18.3 33.1 23.5 20.2 16.2 11.2 3.8 13.8 5.9 23.2
4.5 8.4 6.5 4.1 3.7 1.8 4.2 6.0
2081 3353.8 3048.9 2271.8 1967.0 1534.7 1941.8 931.1 688.7 384.3 498.6 358.0 163.7 233.9 214.0
250.7 292.2 139.0 203.1 107.4 138.3 192.3 71.2 156.0 200.3 161.7 154.6 106.2 33.0 65.2 108.7
64.9 21.8 28.9 20.2 36.7 50.3 39.9 33.4 17.9 33.0 23.3 20.6 16.2 10.7 3.9 13.7 5.8 23.2
4.4 8.2 6.5 4.3 3.7 1.8 4.1 5.8
2082 3446.6 3099.5 2306.0 1992.0 1521.4 1953.8 920.5 688.0 381.8 505.1 352.0 166.8 228.7 214.0
252.2 293.4 135.7 204.9 106.2 136.7 194.0 69.2 154.6 204.3 165.1 152.9 102.1 32.4 65.6 111.1
65.8 20.4 28.7 18.8 37.0 47.9 41.2 33.9 18.1 33.2 23.6 20.2 15.9 10.7 3.7 13.5 5.9 23.1
4.5 8.0 6.4 4.3 3.8 1.7 4.2 5.7
2083 3425.3 3103.4 2275.9 1981.9 1541.7 1918.2 930.8 695.1 386.8 504.5 347.7 165.3 223.7 210.0
251.6 288.5 133.3 204.8 104.7 135.5 195.4 67.8 153.8 206.5 168.1 154.1 104.4 30.8 65.5 112.4

65.3 21.0 28.8 19.5 37.0 49.0 40.4 33.6 18.0 33.1 23.5 19.8 15.6 10.6 3.8 13.6 5.7 23.2
4.5 7.8 6.4 4.3 3.8 1.6 4.1 5.6
2084 3463.5 3092.3 2242.7 1981.9 1548.4 1907.6 927.7 698.9 381.4 502.6 347.2 169.5 218.4 211.3
249.5 286.1 130.3 203.8 102.0 135.4 198.9 65.8 153.0 208.7 171.3 148.6 102.6 29.9 63.1 113.2
64.8 20.0 28.7 18.8 36.3 48.2 40.9 33.4 17.3 33.0 23.8 19.2 15.1 10.8 3.6 13.0 5.6 22.9
4.5 7.7 6.4 4.2 3.8 1.5 4.2 5.5
2085 3451.5 3096.3 2251.9 1968.2 1576.7 1936.2 940.2 701.2 390.0 502.5 350.2 167.7 219.3 204.7
250.3 282.4 131.0 202.2 99.7 136.0 197.8 66.4 155.6 210.7 173.7 148.6 103.1 29.7 62.4 114.4
64.7 19.4 29.2 18.6 36.0 48.3 40.9 33.2 16.9 32.8 23.6 19.8 15.1 10.8 3.4 12.7 5.7 23.2
4.6 7.4 6.4 4.1 3.8 1.5 4.2 5.3
2086 3509.9 3116.3 2249.6 1971.1 1588.6 1920.8 944.4 708.2 394.2 502.1 349.7 172.3 214.1 201.5
247.8 282.9 128.1 201.6 94.6 136.0 202.9 64.6 155.3 213.3 176.5 150.2 100.5 29.3 60.5 116.3
64.5 18.4 29.0 17.7 35.6 47.1 41.3 33.0 16.2 33.0 24.0 18.5 14.7 11.1 3.1 12.8 5.7 23.4
4.5 7.1 6.2 3.9 3.8 1.5 4.2 5.1
2087 3466.8 3067.7 2201.5 1931.9 1607.8 1893.8 956.2 714.0 395.9 493.9 355.2 176.5 214.0 203.9
243.9 275.8 126.0 197.0 95.7 137.6 202.4 64.2 158.3 215.4 179.4 149.7 101.4 29.4 60.0 117.4
63.3 18.4 28.7 17.9 35.6 47.9 40.1 32.4 16.2 32.6 23.9 18.4 14.7 11.2 3.2 12.6 5.7 23.3
4.6 7.2 6.1 4.0 3.7 1.4 4.1 5.1
2088 3513.9 3110.8 2237.2 1965.1 1613.1 1915.0 951.7 711.6 393.0 502.7 346.3 177.4 204.9 207.7
246.8 280.2 122.9 200.6 94.2 134.0 198.6 62.8 155.5 218.8 182.6 147.5 100.0 27.7 58.6 119.9
64.4 17.8 28.7 17.2 35.3 46.3 39.8 32.9 15.6 32.8 23.4 18.6 13.8 11.3 3.0 12.2 5.7 23.5
4.6 7.2 6.1 4.3 3.8 1.5 4.0 4.9
2089 3491.5 3070.1 2235.6 1915.2 1606.3 1886.2 951.6 708.1 395.4 491.7 346.8 184.2 204.2 212.9
242.8 273.5 122.5 194.2 92.0 133.5 201.1 61.8 156.4 219.4 184.9 147.3 97.6 26.9 58.1 119.6
63.2 17.0 28.6 16.6 35.2 46.0 35.7 32.1 15.5 31.5 23.7 17.9 14.1 11.0 3.0 12.1 5.8 23.4
4.6 6.9 6.0 4.0 3.6 1.4 3.6 4.8
2090 3541.6 3085.0 2240.1 1928.2 1663.6 1924.3 984.3 730.4 409.6 494.6 350.9 183.5 199.3 205.9
244.6 274.7 117.9 195.0 91.5 136.0 204.6 60.4 157.4 222.6 188.5 151.0 99.4 26.2 56.8 121.3
63.8 17.2 28.3 16.9 34.8 46.2 37.0 32.2 14.9 31.4 24.1 17.8 13.6 11.2 3.0 12.1 5.7 23.5
4.6 6.6 5.9 4.1 3.6 1.4 3.7 4.8
2091 3517.2 3059.0 2223.1 1902.8 1659.3 1905.1 982.7 732.0 405.7 489.6 344.4 182.8 195.1 201.0
242.6 270.2 116.2 192.2 90.0 133.9 202.1 58.6 156.2 224.5 190.9 147.1 99.4 24.9 56.3 122.0
63.1 16.6 28.0 16.7 35.0 45.9 36.5 31.6 14.7 30.7 23.8 17.4 13.8 11.0 2.7 11.7 5.8 23.3
4.8 6.6 5.9 4.0 3.5 1.4 3.7 4.7
2092 3601.2 3092.7 2237.9 1926.5 1692.0 1894.5 993.8 746.9 412.7 494.9 346.5 185.2 195.2 203.1
244.1 271.0 115.2 194.0 88.7 134.7 203.1 58.2 157.1 226.6 194.0 150.5 99.2 24.9 55.5 123.4
63.7 16.1 28.0 16.6 34.7 46.4 36.2 31.9 14.4 30.8 23.7 17.5 13.7 11.3 2.7 11.9 5.9 23.7
4.8 6.3 5.7 3.9 3.5 1.3 3.7 4.5
2093 3554.6 3068.5 2245.5 1901.9 1702.6 1906.1 1000.7 750.9 413.2 488.4 343.8 186.8 194.0 200.7
242.2 269.3 114.4 190.7 89.2 134.2 204.3 57.5 157.1 228.3 196.8 149.6 98.2 24.8 54.2 124.4
63.0 15.8 27.9 16.4 34.5 45.0 36.2 31.6 14.0 29.1 23.5 17.5 13.8 11.2 2.7 11.7 5.8 23.7
4.8 6.3 5.8 3.8 3.3 1.3 3.7 4.5
2094 3603.3 3070.8 2240.4 1888.5 1720.8 1897.1 1007.5 758.7 413.6 487.5 347.6 193.0 192.7 206.8
242.0 265.5 113.9 189.1 87.1 136.0 204.3 57.3 159.0 229.6 199.6 148.6 95.2 24.7 53.6 124.9
62.7 15.7 27.9 15.7 34.5 43.7 35.8 31.4 13.7 28.7 23.4 17.2 13.8 11.3 2.6 11.5 5.9 23.9
4.8 6.3 5.6 4.0 3.2 1.3 3.6 4.4
2095 3585.7 3069.3 2228.2 1880.9 1728.7 1931.9 1018.0 760.2 417.7 487.6 344.1 195.9 192.4 207.2
241.2 265.0 112.8 188.2 88.0 135.2 204.4 56.6 159.0 231.2 202.6 147.3 93.4 24.3 52.8 125.9
62.5 15.5 27.7 15.6 34.0 40.2 36.3 31.1 13.3 27.4 23.0 17.2 13.9 10.7 2.6 11.2 5.6 24.2
4.7 6.0 5.7 4.0 3.0 1.4 3.7 4.4
2096 3638.5 3090.2 2239.9 1890.3 1742.7 1941.0 1021.1 765.4 419.0 490.6 346.2 200.9 193.0 206.3
241.6 262.1 114.0 189.7 85.2 135.7 200.9 56.9 161.1 231.5 204.5 147.3 92.9 24.9 53.1 125.8
62.6 15.7 28.0 15.4 34.4 40.5 34.2 31.3 13.4 27.6 22.5 16.8 14.0 11.1 2.5 11.2 5.7 24.3
4.7 6.1 5.6 3.9 3.1 1.3 3.5 4.3

2097 3586.9 3053.7 2192.1 1862.1 1755.7 1874.9 1029.2 774.8 416.3 484.2 341.9 204.4 189.2 205.7
237.8 260.3 113.1 186.9 83.3 133.8 205.0 56.2 160.0 234.9 208.6 143.8 91.1 24.2 52.2 128.1
61.8 14.9 28.0 14.9 33.9 39.3 35.4 30.8 13.1 26.7 22.6 16.2 13.5 10.7 2.5 10.7 5.5 24.7
4.6 6.2 5.6 3.7 3.0 1.3 3.6 4.2
2098 3611.5 3070.0 2213.7 1862.4 1781.0 1941.3 1046.8 792.2 424.1 484.2 344.2 214.6 183.9 213.7
237.7 257.7 109.8 186.6 83.4 136.1 204.7 55.5 161.3 235.7 210.9 146.0 92.6 24.0 52.9 128.4
61.7 15.2 27.8 15.3 34.3 39.9 33.7 30.7 13.2 26.1 22.0 16.2 13.1 11.0 2.4 10.8 5.6 24.8
4.7 6.0 5.6 3.8 2.8 1.3 3.4 4.1
2099 3628.1 3064.9 2214.5 1855.6 1786.8 1908.9 1051.2 795.1 421.3 482.4 339.3 215.8 183.8 211.1
239.0 258.1 110.5 185.5 83.7 133.7 207.0 54.6 160.4 238.5 214.8 143.2 92.4 23.4 52.1 129.6
61.7 14.9 27.8 15.3 34.0 39.5 34.8 30.5 13.0 27.0 22.4 16.2 13.3 10.7 2.5 10.5 5.6 25.0
4.7 5.8 5.5 4.0 3.0 1.3 3.5 4.1
2100 4400.2 2923.2 1760.1 1820.6 1805.6 1907.3 1914.8 808.4 425.7 480.2 376.4 224.2 182.1 216.5
224.9 191.9 109.6 183.8 83.7 135.6 202.8 53.1 174.7 239.2 216.6 145.0 92.6 15.9 52.0 130.1
59.6 14.9 27.7 15.4 33.7 39.7 34.8 30.3 12.9 26.4 22.0 16.2 13.0 10.2 2.5 10.6 5.6 25.0
4.6 5.8 5.5 4.0 2.9 1.3 3.5 4.1

Standard deviation of computed glacier area (in km^2) derived from results of 14 GCMs. Results refer to 56 macroscale drainage basins over the period 1980 to 2100 for RCP8.5.
#
Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year GlacierArea (km^2)
1980 0.2 8.4 4.5 5.9 0.0 0.1 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.5 0.4 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.8 0.0 0.1 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0
1981 4.8 114.0 51.5 86.9 0.0 1.6 0.0 0.0 0.0 28.9 0.0 0.0 0.0 0.0 8.5 11.6 0.0 15.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.3 0.0 3.1 0.0 0.0 0.0 1.7 0.0 0.0 2.1 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0
1982 5.0 116.4 52.0 88.2 0.0 1.7 0.0 0.0 0.0 29.5 0.0 0.0 0.0 0.0 9.1 11.7 0.0 16.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.5 0.0 3.1 0.0 0.0 0.0 1.7 0.0 0.0 2.2 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0
1983 5.4 128.8 58.5 98.3 0.0 2.0 0.0 0.0 0.0 34.5 0.0 0.0 0.0 0.0 10.3 13.0 0.0 18.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.5 0.0 3.6 0.0 0.0 0.0 1.7 0.0 0.0 2.4 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.1 0.0 0.0 0.0 0.0 0.0 0.0
1984 7.2 156.2 73.7 121.4 0.0 2.3 0.0 0.0 0.0 42.4 0.0 0.0 0.0 0.0 11.9 17.1 0.0 22.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 8.3 0.0 4.2 0.0 0.0 0.0 2.5 0.0 0.0 3.0 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0
1985 7.4 162.7 75.9 122.5 0.0 2.6 0.0 0.0 0.0 43.3 0.0 0.0 0.0 0.0 12.4 17.0 0.0 23.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.0 0.0 4.3 0.0 0.0 0.0 2.3 0.0 0.0 3.0 3.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0
1986 9.4 212.4 98.3 164.3 0.0 3.1 0.0 0.0 0.0 57.0 0.0 0.0 0.0 0.0 16.8 22.8 0.0 30.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 12.6 0.0 5.7 0.0 0.0 0.0 3.0 0.0 0.0 4.2 4.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.7 0.0 0.0 0.0 0.0 0.0 0.0
1987 8.6 195.8 91.3 151.2 0.0 2.6 0.0 0.0 0.0 53.4 0.0 0.0 0.0 0.0 15.7 21.1 0.0 27.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 13.4 0.0 5.4 0.0 0.0 0.0 2.8 0.0 0.0 4.0 4.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.0
1988 12.1 261.9 122.5 204.5 0.0 3.7 0.0 0.0 0.0 70.7 0.0 0.0 0.0 0.0 20.5 28.6 0.0 37.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 17.4 0.0 7.1 0.0 0.0 0.0 3.6 0.0 0.0 5.5 6.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0

1989 11.3 245.3 115.6 191.3 0.0 3.7 0.0 0.0 0.0 66.6 0.0 0.0 0.0 0.0 19.5 26.8 0.0
35.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.8 0.0 6.8 0.0 0.0 0.0 3.3 0.0
0.0 5.2 5.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.2 0.0 0.0 0.0 0.0 0.0
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1990 12.8 286.8 133.4 222.4 0.0 4.2 0.0 0.0 0.0 77.7 0.0 0.0 0.0 0.0 22.7 31.0 0.0
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1991 11.4 267.0 124.6 205.9 0.0 4.0 0.0 0.0 0.0 71.8 0.0 0.0 0.0 0.0 21.6 27.8 0.0
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1992 14.7 320.7 150.7 248.6 0.0 4.9 0.0 0.0 0.0 87.1 0.0 0.0 0.0 0.0 25.4 34.8 0.0
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1993 14.0 317.4 150.0 245.9 0.0 5.0 0.0 0.0 0.0 86.4 0.0 0.0 0.0 0.0 25.8 33.4 0.0
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1994 16.3 362.7 172.4 281.5 0.0 5.8 0.0 0.0 0.0 98.6 0.0 0.0 0.0 0.0 29.5 38.7 0.0
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1996 19.3 407.3 196.9 318.4 0.0 6.4 0.0 0.0 0.0 113.0 0.0 0.0 0.0 0.0 33.5 45.1 0.0
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2002 124.5 397.4 204.6 315.4 0.0 66.8 0.0 0.0 0.0 117.5 0.0 11.3 0.0 28.7 32.3 41.7 0.0
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2003 113.4 431.8 167.4 347.0 0.0 107.5 0.0 0.0 0.0 126.6 0.0 11.3 0.0 25.2 32.6 41.2
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2004 200.7 440.5 237.5 352.9 0.0 141.2 0.0 0.0 0.0 131.9 0.0 11.8 0.0 32.3 34.8 45.8
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2005 234.7 424.5 244.1 344.0 0.0 183.4 0.0 0.0 0.0 127.0 0.0 7.6 0.0 25.7 33.0 43.8 0.0
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2006 281.4 452.2 270.3 367.1 0.0 229.4 1.3 0.0 0.0 135.8 0.1 13.0 20.2 37.9 31.9 46.6
19.0 72.0 24.6 0.0 31.2 9.5 0.1 9.6 8.0 0.0 10.1 11.6 10.1 5.5 13.1 6.3 3.3 5.4
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2007 293.6 424.9 284.8 345.8 0.0 214.4 0.9 0.0 0.0 130.5 0.1 13.2 26.0 41.1 31.5 44.7
12.9 68.9 47.3 0.0 22.3 7.3 0.1 12.4 10.0 0.0 15.9 13.1 10.2 7.8 12.9 8.5 1.6 7.9
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2008 408.7 462.7 321.9 375.0 0.0 250.8 1.7 0.0 0.0 136.4 0.1 14.5 33.2 51.2 34.1 47.5
21.8 72.6 44.2 0.0 36.7 14.7 0.2 15.1 10.7 0.0 15.9 17.6 10.4 9.1 13.3 9.8 4.1 8.4
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2009 355.6 465.6 342.3 381.2 0.0 248.6 1.7 0.0 0.0 138.5 0.1 16.2 38.0 58.2 36.0 51.3
29.0 74.3 49.5 0.0 36.1 19.6 0.2 16.2 11.0 0.0 26.6 23.7 11.8 9.3 14.1 13.5 5.2 12.9
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2010 377.7 453.5 349.4 366.9 0.0 282.3 2.6 0.0 0.0 135.1 0.1 18.6 33.9 62.2 32.1 44.1
24.5 72.5 68.7 0.0 34.3 20.1 0.2 18.6 11.8 0.0 17.6 23.4 11.4 10.2 13.0 10.7 4.7 8.9
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2011 322.0 376.2 358.5 309.5 41.4 316.6 27.8 26.2 11.6 115.2 35.3 24.0 61.5 73.3 29.9 46.7
50.2 62.2 80.7 10.1 35.3 30.1 11.7 22.9 13.8 7.2 24.6 29.4 13.6 13.3 12.9 11.4 7.7 11.2
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2012 330.5 419.4 358.0 345.2 58.0 346.9 40.6 38.7 16.0 129.6 45.9 23.2 59.7 78.1 29.1 45.0
46.4 69.2 105.6 13.9 43.4 32.3 15.2 24.8 14.5 8.3 19.7 31.3 16.7 13.8 13.6 9.3 7.7 9.3
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2013 348.0 489.1 408.3 394.6 77.7 355.7 46.3 48.0 21.8 144.2 54.2 27.4 78.6 88.9 31.6 51.3
58.0 78.3 110.0 16.2 46.4 38.3 17.9 27.6 15.3 13.1 26.9 38.7 20.0 14.5 15.3 9.9 8.3 11.4
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2014 470.6 529.4 471.6 420.3 95.7 403.1 63.1 56.3 24.6 153.0 58.8 35.7 74.5 102.8 36.6 60.4
51.0 83.7 128.6 18.2 54.2 44.2 19.8 29.8 16.3 14.7 30.4 41.0 21.1 15.8 16.5 11.2 7.1
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2015 633.1 580.5 450.8 441.8 98.5 450.4 57.6 66.8 27.9 156.1 73.7 34.2 79.7 95.1 39.4 58.4
56.8 86.4 118.6 22.2 54.9 39.0 23.3 33.1 17.3 16.9 34.5 45.0 22.0 17.5 16.0 15.1 8.6
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2016 576.5 606.4 526.5 478.7 130.2 462.5 80.0 81.3 33.2 171.9 96.5 39.8 80.9 107.3 43.4 69.1
63.8 93.8 122.5 27.6 65.7 43.0 31.5 34.2 17.3 20.3 40.3 53.0 24.8 18.3 18.7 19.4 9.6
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2017 670.4 664.4 558.3 515.4 165.5 489.8 104.4 98.5 44.5 179.7 113.6 37.8 94.1 115.2 54.4
78.6 65.5 98.9 134.1 33.5 63.0 53.4 36.9 37.6 18.9 26.3 51.1 57.5 29.5 20.1 18.9 24.8
10.6 23.5 10.1 21.3 17.5 14.8 8.7 16.7 10.3 12.7 11.9 11.6 14.0 3.2 6.0 8.8 3.9 2.8
1.9 2.8 3.1 2.8 2.4 1.0
2018 764.7 697.4 563.9 541.8 156.3 502.1 97.2 86.6 42.1 187.7 117.3 42.2 112.5 122.8 53.8
81.8 83.5 103.1 137.8 32.5 71.6 55.8 42.3 37.9 18.7 26.5 50.1 62.0 33.7 19.7 20.5 21.7
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2019 794.0 634.2 630.9 474.6 191.9 565.3 124.4 109.5 51.4 171.8 142.1 50.6 125.1 138.3 53.3
81.6 85.2 93.6 152.5 38.9 76.0 64.9 49.9 39.6 19.6 31.0 59.8 68.1 35.9 20.0 18.7 29.6
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2020 833.1 700.3 579.3 524.9 180.8 554.9 123.8 100.1 53.0 184.3 135.5 47.1 117.7 131.3 58.0
85.8 85.4 100.9 146.1 38.8 93.0 71.5 48.7 42.1 20.5 33.1 58.9 62.9 38.8 21.2 20.7 28.9
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2021 846.0 717.9 632.0 533.6 192.2 624.6 127.5 111.1 54.8 187.3 158.7 50.7 152.4 137.0 56.1
87.4 103.1 101.7 153.4 43.2 94.6 76.2 59.8 44.5 21.6 36.1 74.6 75.7 43.5 23.1 20.4 38.0
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2022 962.6 814.6 650.6 614.7 207.0 672.3 151.0 121.5 59.4 208.9 170.5 54.5 144.0 141.0 67.3
97.4 105.5 114.3 168.7 48.8 100.3 75.0 60.9 48.9 23.7 38.8 71.4 72.2 43.7 25.8 23.7 34.4
17.1 31.6 13.9 29.8 26.2 17.6 13.7 27.0 16.0 18.1 16.6 13.9 16.6 5.1 10.2 11.2 5.5 4.7
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2023 957.7 772.1 676.0 570.6 210.4 664.4 150.1 128.4 63.0 201.3 183.7 58.7 161.4 150.3 62.4
94.6 114.0 109.4 163.1 52.8 98.2 77.2 68.8 51.3 25.3 43.4 80.7 77.5 47.8 26.9 22.0 39.1
17.7 36.0 15.1 33.5 31.1 16.9 15.3 29.6 15.6 18.2 17.4 14.3 16.3 5.8 9.5 12.5 5.0 5.2
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2024 964.1 813.3 731.4 604.1 246.7 734.3 173.6 146.6 67.9 212.7 181.3 64.4 172.2 163.2 72.0
102.9 126.7 116.4 178.3 52.4 106.7 82.4 70.1 54.6 26.7 45.8 77.8 75.2 48.9 28.4 23.7 36.4
21.3 33.7 16.1 31.9 29.8 17.8 15.8 30.5 17.2 21.1 17.9 15.7 17.0 6.1 9.3 13.0 5.0 5.0
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2025 1101.1 924.1 846.3 683.9 286.7 775.7 198.1 158.9 78.0 229.0 185.9 64.8 188.2 169.5 79.4
122.7 130.1 125.8 177.0 55.4 103.4 77.4 71.0 56.3 27.8 52.9 76.8 76.9 51.1 30.1 25.9 37.4
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2026 935.2 912.2 819.6 685.3 346.9 797.6 241.1 191.8 86.3 234.5 216.6 68.0 196.4 176.7 82.1
120.4 137.5 128.7 179.5 65.5 108.2 90.0 79.6 59.9 30.0 57.5 79.8 81.1 55.8 32.3 26.3 37.8
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2027 1119.3 1086.7 975.1 808.5 397.4 841.3 283.9 221.8 104.3 257.8 225.1 67.6 200.0 176.0 99.7
143.7 136.4 142.4 183.3 70.4 112.1 97.7 82.7 62.1 31.4 69.4 82.7 81.4 57.9 34.3 29.8 39.8
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2028 1054.0 1037.8 968.9 786.6 401.7 862.4 292.3 223.4 105.2 252.7 249.7 71.0 210.2 190.9 98.4
147.8 137.0 139.9 188.4 76.0 116.7 107.3 93.0 66.4 33.8 69.7 77.9 88.0 57.9 36.9 29.1 37.0
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2029 1204.9 1147.3 1059.4 852.2 453.4 879.5 326.2 257.1 119.2 263.9 251.5 70.2 206.4 193.1 106.9
157.4 136.0 146.6 182.8 78.8 120.0 106.5 93.3 70.1 35.8 77.1 78.5 84.1 60.1 39.2 30.6 38.1

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2030 1219.8 1152.2 1004.5 880.7 459.2 863.2 324.3 247.3 116.7 270.7 245.4 73.0 223.6 203.9 103.8
158.9 146.0 150.6 180.4 77.6 120.4 112.7 94.4 72.5 37.8 77.2 78.3 81.5 61.3 40.5 31.5 38.7
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2031 1416.4 1247.5 1127.4 927.6 490.2 898.4 350.9 268.9 127.5 278.9 264.5 72.6 232.1 199.5 108.9
169.8 147.8 154.6 178.4 84.4 114.2 117.2 99.8 75.3 40.1 84.0 85.8 84.5 64.8 41.8 33.0 40.2
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2032 1357.0 1203.5 1158.3 901.0 518.8 916.8 364.3 270.5 135.2 266.3 249.5 77.6 233.4 209.5 110.8
174.5 147.4 147.8 179.4 80.4 123.9 115.3 94.1 78.5 42.6 88.4 84.4 77.5 65.6 43.8 32.5 38.7
24.5 34.7 23.3 37.6 46.4 21.6 22.1 45.3 16.9 19.7 22.3 20.5 16.9 11.3 8.3 17.0 4.5 6.5
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2033 1411.9 1229.5 1176.7 928.4 533.3 927.5 370.6 286.5 140.6 276.3 280.0 87.1 263.1 229.6 114.7
180.5 166.1 152.4 184.0 90.2 127.9 116.4 104.9 80.5 44.9 92.3 90.9 86.6 67.0 44.8 32.9 40.9
26.5 37.1 24.5 39.4 49.0 22.7 22.7 47.7 17.1 20.1 23.5 19.9 16.1 12.1 8.1 17.1 4.6 6.9
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2034 1445.7 1273.7 1225.3 961.5 540.9 1022.5 370.7 291.9 142.1 283.3 266.5 84.5 250.8 215.5 120.9
186.1 166.7 155.0 184.0 87.5 129.2 114.8 98.9 84.4 48.1 94.5 89.5 80.2 66.8 46.8 34.1 39.7
27.3 36.5 24.9 39.1 50.3 22.9 22.7 48.8 17.3 20.5 22.4 19.9 15.3 12.4 7.7 17.6 4.4 7.0
3.2 3.0 7.7 4.4 5.9 4.2
2035 1574.2 1409.0 1310.1 1066.9 587.7 1025.3 407.1 308.5 155.1 309.6 273.9 79.6 246.5 212.6 131.8
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209.0 240.0 94.9 156.3 39.5 144.0 192.4 58.2 163.5 229.2 189.1 140.8 89.9 23.4 45.1 127.7
57.9 14.2 25.5 14.4 34.5 30.8 30.7 26.0 10.5 22.1 20.7 9.8 8.1 6.4 0.6 10.5 3.4 22.6
3.7 5.0 3.5 3.3 2.6 0.4 3.1 3.6
2079 3707.3 2787.5 2061.8 1701.0 1712.4 1831.9 1047.9 844.2 404.2 405.6 351.7 217.9 150.1 182.4
205.4 234.5 91.2 155.5 36.9 143.1 189.5 56.2 163.6 230.1 192.4 141.0 88.3 22.7 44.3 127.7
57.1 14.1 25.2 14.3 34.5 29.1 26.6 26.0 10.3 20.3 19.9 9.9 7.6 6.0 0.5 10.3 3.2 22.5
3.6 4.6 3.3 3.3 2.2 0.4 2.7 3.5
2080 3716.0 2760.7 2041.2 1679.5 1745.2 1816.2 1064.3 861.9 403.3 400.5 357.9 221.0 149.5 180.8
202.4 225.2 90.0 151.6 36.6 145.1 190.6 55.6 166.3 231.7 195.8 136.2 85.8 22.0 43.1 128.2
57.0 13.4 24.9 13.7 34.3 28.4 26.2 25.6 9.9 19.4 19.6 9.3 7.8 5.6 0.5 9.5 3.0 22.5
3.6 4.2 3.1 3.3 2.1 0.4 2.7 3.4
2081 3717.6 2743.4 2003.8 1660.1 1760.1 1767.6 1067.5 861.7 406.7 395.5 356.5 226.5 146.0 178.4
199.0 216.3 87.8 148.7 35.5 145.0 183.3 54.3 167.6 234.6 200.0 137.4 82.9 20.9 42.4 130.2
56.4 12.7 24.8 12.9 34.4 27.0 25.1 25.4 9.6 18.5 18.6 9.9 7.5 5.7 0.4 9.4 2.7 22.1
3.3 4.1 2.9 3.6 2.0 0.4 2.5 3.2
2082 3778.5 2739.3 1974.3 1642.7 1767.4 1792.7 1074.9 863.2 404.8 389.7 347.5 233.8 143.4 177.3
195.2 208.8 86.4 144.6 33.0 142.5 187.8 52.8 165.2 236.1 203.6 132.5 82.3 19.1 41.3 130.3
55.5 12.1 24.6 12.7 34.1 26.2 24.2 25.0 9.4 17.7 18.8 9.3 7.8 5.6 0.3 8.8 2.6 21.7
3.2 3.6 2.6 3.3 1.9 0.3 2.4 3.1
2083 3748.7 2727.0 1947.5 1621.6 1778.2 1763.3 1080.1 869.6 408.0 385.9 347.4 237.2 138.6 174.1
194.7 204.4 83.8 142.0 31.1 142.5 182.5 51.4 165.4 237.6 207.4 133.2 82.3 18.0 40.2 130.9

55.3 12.0 24.3 12.7 33.8 26.2 22.7 24.7 9.0 16.6 18.1 8.9 7.2 5.6 0.3 8.8 2.5 21.8
3.2 3.3 2.4 3.1 1.8 0.3 2.3 3.0
2084 3788.0 2714.0 1944.1 1608.5 1816.3 1775.7 1095.7 888.5 413.7 381.5 349.9 238.4 137.2 170.2
192.6 198.5 82.6 138.6 30.8 144.4 183.1 50.5 166.4 240.0 212.2 133.5 79.6 17.8 38.3 132.3
54.7 11.6 24.1 12.4 33.5 24.3 22.1 24.4 8.5 14.9 18.1 9.2 7.4 5.7 0.3 8.7 2.4 21.7
3.2 3.4 2.2 3.1 1.5 0.3 2.3 2.9
2085 3749.0 2678.0 1936.5 1575.7 1839.6 1744.8 1109.6 898.3 417.1 373.8 341.8 241.4 132.6 165.1
188.0 198.6 80.4 135.2 28.2 143.0 179.6 48.8 164.7 242.1 217.6 130.7 78.4 16.4 37.1 133.5
54.5 11.0 23.7 12.0 33.2 24.2 20.7 24.0 8.1 14.4 17.5 8.5 7.1 5.6 0.2 8.2 2.4 22.2
3.3 3.1 2.0 3.1 1.5 0.3 2.1 2.8
2086 3738.6 2623.9 1891.5 1530.4 1877.8 1732.4 1125.9 915.0 423.8 362.6 346.4 248.9 128.4 168.7
182.2 185.8 76.0 129.3 28.1 145.9 182.3 47.5 166.3 246.3 224.1 132.0 75.3 16.6 35.9 136.4
53.3 10.6 22.9 11.5 32.8 22.0 20.8 23.4 7.8 13.3 17.4 8.6 6.7 5.8 0.2 8.3 2.2 21.8
3.2 3.0 1.9 3.2 1.3 0.3 2.1 2.8
2087 3678.2 2575.6 1820.5 1491.9 1906.0 1690.0 1136.6 924.7 425.3 354.8 340.5 251.4 123.4 162.9
178.0 176.5 72.6 125.1 28.2 146.0 180.9 45.8 165.2 247.6 229.4 131.5 75.3 15.3 34.6 136.4
52.3 10.2 22.3 11.4 32.5 22.0 19.1 22.9 7.5 13.3 16.6 8.7 6.5 5.8 0.2 8.1 2.0 21.8
3.1 2.9 1.8 3.4 1.4 0.3 1.9 2.5
2088 3744.6 2568.4 1817.8 1487.6 1951.2 1685.4 1159.3 939.6 433.9 351.9 340.9 257.9 120.4 158.6
175.7 175.0 71.7 123.1 27.6 147.6 178.9 45.0 166.2 250.0 235.3 132.2 72.5 15.2 33.7 137.5
52.7 9.5 22.0 10.7 32.2 21.0 18.4 22.5 7.2 12.9 16.0 8.5 6.4 5.4 0.2 8.0 1.9 22.3
3.1 3.0 1.6 3.4 1.3 0.3 1.9 2.5
2089 3731.5 2565.7 1743.9 1475.2 1972.1 1666.3 1169.7 952.2 434.4 350.8 340.2 260.6 117.6 156.4
174.5 164.8 69.2 121.2 27.3 149.5 180.0 43.4 167.1 251.8 240.9 129.7 68.7 14.7 32.5 138.4
51.9 8.9 21.4 10.3 31.6 18.4 17.1 22.3 6.8 12.0 15.8 8.4 6.3 5.2 0.2 7.6 1.7 21.6
3.1 2.9 1.4 3.3 1.3 0.3 1.7 2.4
2090 3747.3 2537.7 1706.6 1458.2 1999.2 1653.3 1182.5 955.3 439.0 345.8 336.7 267.3 114.3 149.1
170.5 161.4 67.8 118.7 25.6 149.5 177.0 42.2 167.2 252.4 247.6 131.3 68.2 14.3 31.5 137.9
52.0 8.7 21.0 9.9 31.2 18.5 15.7 21.8 6.5 10.3 15.1 7.9 6.2 4.7 0.1 7.6 1.6 21.8
3.0 2.9 1.2 3.3 1.0 0.2 1.6 2.4
2091 3744.6 2519.4 1622.0 1438.8 1999.1 1628.0 1186.1 960.2 435.0 341.8 334.7 269.5 112.8 146.7
167.3 150.4 66.5 115.7 24.6 150.5 178.5 41.4 166.8 252.9 252.7 126.7 66.6 13.8 30.4 137.8
51.1 8.4 20.6 9.9 31.1 17.4 14.0 21.5 6.3 10.0 14.8 7.6 6.1 4.5 0.1 7.2 1.5 20.8
3.0 2.8 1.1 3.2 1.1 0.2 1.4 2.3
2092 3726.8 2484.2 1604.8 1410.9 2011.3 1626.0 1192.8 959.3 434.0 333.5 327.5 279.6 105.9 146.0
163.7 146.3 62.5 112.3 24.5 148.9 176.8 39.5 164.1 254.0 260.0 124.1 63.9 12.3 28.8 137.1
51.1 8.0 19.7 9.2 30.4 16.8 13.4 21.1 5.8 8.5 14.3 7.8 5.7 4.4 0.1 6.8 1.5 21.1
3.0 2.9 1.1 3.2 0.9 0.2 1.4 2.2
2093 3726.1 2460.4 1556.4 1393.8 2035.0 1625.1 1209.8 970.5 437.1 329.6 328.8 285.1 106.9 144.7
159.6 139.1 62.3 109.6 21.5 150.8 176.7 39.0 165.2 254.7 263.6 124.3 61.5 12.7 27.6 137.0
50.8 7.7 19.4 9.1 30.1 15.6 12.1 20.9 5.5 7.6 13.9 7.0 5.8 4.3 0.1 6.7 1.5 20.4
3.1 2.5 0.9 3.0 0.8 0.2 1.3 2.1
2094 3714.0 2426.6 1538.7 1370.4 2061.2 1617.8 1224.0 975.5 442.1 323.9 327.5 292.2 104.9 142.5
155.6 135.4 60.2 106.6 21.5 152.0 178.2 38.2 165.0 255.3 266.6 122.9 58.8 12.4 27.0 136.5
50.4 7.5 18.9 8.7 30.1 13.9 11.3 20.6 5.3 7.1 13.7 7.0 5.7 4.1 0.1 6.4 1.5 20.7
3.1 2.6 0.9 2.8 0.8 0.2 1.1 2.0
2095 3712.0 2404.3 1529.9 1345.7 2076.0 1602.8 1234.0 983.3 441.3 316.9 324.3 298.0 103.6 139.4
152.6 134.0 60.1 103.4 20.7 152.6 177.4 37.8 164.3 256.4 270.4 120.1 57.3 12.0 26.0 136.8
50.3 7.1 18.7 8.4 29.5 13.6 10.8 20.2 5.0 6.2 13.3 7.0 5.7 3.9 0.1 6.1 1.4 21.1
3.0 2.5 0.8 2.9 0.6 0.2 1.1 1.9
2096 3688.7 2362.4 1507.7 1319.8 2125.2 1597.6 1259.0 993.5 456.1 310.5 322.9 307.4 97.0 140.7
147.7 131.1 55.0 100.3 19.8 154.3 178.9 35.8 163.1 257.3 274.0 122.5 54.0 11.7 25.0 136.7
49.9 6.7 17.7 7.8 29.1 12.3 10.1 20.0 4.8 5.2 13.2 6.8 5.4 3.5 0.1 6.2 1.4 21.4
3.1 2.4 0.7 2.7 0.5 0.1 1.0 1.9

2097 3679.9 2339.5 1450.8 1303.6 2154.7 1572.8 1274.9 999.2 455.3 305.9 317.9 310.4 95.8 136.0
144.6 126.4 55.1 97.9 19.7 154.9 175.2 35.4 161.5 257.8 278.3 119.1 54.9 11.1 24.4 136.3 49.5
6.7 17.5 8.1 29.1 12.5 9.9 19.7 4.6 5.2 12.8 6.9 5.4 3.4 0.1 5.9 1.4 21.2 3.0 2.3
0.7 2.9 0.5 0.1 1.0 1.8
2098 3652.9 2306.6 1394.0 1278.8 2185.1 1559.0 1290.5 1002.5 459.8 298.7 311.9 316.2 91.9 133.6
141.7 120.3 52.1 95.2 18.2 155.2 173.6 33.9 159.1 259.2 283.3 117.1 53.1 10.5 23.8 136.0 48.9
6.3 16.9 7.7 28.7 11.8 9.4 19.5 4.4 4.1 12.5 6.7 5.2 3.5 0.1 5.6 1.4 21.0 3.1 2.2
0.6 2.6 0.4 0.1 1.0 1.7
2099 3577.0 2250.6 1395.2 1239.9 2243.3 1555.9 1318.1 1021.8 468.5 288.8 310.9 317.9 86.5 132.6
136.7 118.4 49.9 91.6 17.5 158.2 177.7 32.9 158.4 261.2 288.0 118.4 50.7 10.3 22.8 136.7 48.4
5.9 16.2 7.3 28.8 10.9 9.3 19.1 4.3 4.0 12.5 6.1 5.0 3.4 0.1 5.6 1.3 21.5 3.0 2.0
0.6 2.5 0.4 0.1 0.9 1.7
2100 3763.0 2174.8 1011.2 1211.7 2279.2 858.4 1792.8 1028.3 473.3 282.0 261.6 314.9 85.3 126.7
116.2 95.6 49.1 88.9 17.5 158.8 176.5 25.5 130.0 262.8 290.4 118.0 50.7 8.5 22.0 137.5 40.2
5.8 16.0 7.4 28.0 10.9 9.5 18.7 4.0 3.1 12.3 6.1 4.9 3.1 0.1 5.6 1.3 21.5 3.0 1.8
0.6 2.5 0.3 0.1 1.0 1.6

Computed monthly glacier runoff (in 10^6 m^3 per month) for 56 macroscale drainage basins over the period 1980 to 2100 for RCP2.6. Runoff refers to multi-model means of 12 GCMs.
Glacier runoff is defined as runoff from the initially glacierized area (i.e. including runoff from precipitation and snow melt in the growing deglacierized portions, see Methods).
Glacier runoff from each glacier basin (initially glacierized by 100%) is computed individually and then the runoff from all glaciers within the same macroscale drainage basin is summed up.
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Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year Month Glacier_runoff (mio. m^3 per month)
1980 1 0.0 0.1 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.0 2556.5 0.0 2013.7 0.0 0.0 0.0 0.0 782.2 0.0 873.5 0.0 0.0 0.3 2.1 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 156.7 38.4 0.0 0.0 48.7 0.0 62.5 0.0 54.5 44.6 3.8 25.4 0.0 12.9 0.0 0.0
1980 2 0.0 0.3 1.8 0.2 19.6 0.0 0.0 0.0 0.0 0.4 0.4 1796.6 0.0 1551.2 0.0 0.1 0.0 0.0 808.5 0.0 494.1 0.0 0.0 3.2 2.3 0.0 0.1 0.0 0.0 0.7 0.2 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 97.2 34.8 0.0 0.0 52.4 0.0 64.1 0.0 50.1 37.9 3.1 25.9 0.0 11.4 0.0 0.0
1980 3 0.3 3.8 17.1 2.6 9.8 0.1 0.0 1.0 0.0 2.0 1.2 1852.8 0.0 1929.0 1.5 1.2 0.0 0.1 661.5 0.3 714.9 0.0 0.1 2.0 6.6 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 126.9 41.2 0.0 0.0 47.6 0.0 47.5 0.0 40.2 39.3 8.1 33.5 0.0 17.7 0.0 0.0
1980 4 92.2 131.5 389.1 106.0 438.5 36.6 73.8 412.3 106.2 31.4 132.6 205.5 122.3 140.9 18.2 15.2 74.1 9.3 390.4 54.7 5.2 35.2 39.6 84.1 122.2 10.4 4.2 30.6 3.1 36.6 6.8 0.6 11.5 1.7 0.5 1.1 0.5 1.8 0.9 2.4 6.1 36.9 22.7 2.9 24.2 1.7 7.1 1.6 5.0 18.4 1.7 36.6 0.2 17.1 0.1 0.0
1980 5 992.4 908.2 2669.0 674.4 1553.6 606.1 608.2 1170.3 514.3 198.3 955.0 433.0 858.4 304.8 131.2 178.5 659.7 64.4 149.6 387.5 0.8 249.4 446.6 244.5 204.8 54.5 32.8 248.6 41.7 176.5 41.7 11.8 80.7 12.4 7.0 22.9 47.0 10.9 12.0 15.6 0.8 27.5 59.7 30.7 5.5 6.0 3.7 29.1 4.0 5.6 0.3 28.0 1.6 17.8 10.6 0.1
1980 6 5857.9 4814.7 11789.1 3996.2 5299.0 6929.2 2870.4 3073.4 1732.7 1081.5 2519.2 135.2 1437.5 82.9 921.1 1224.3 1163.2 437.8 86.4 1082.1 0.1 970.1 940.1 544.0 488.6 356.2 163.6 534.3 206.9 345.3 204.5 100.4 225.5 72.4 57.0 74.8 210.4 69.1 67.2 202.3 0.1 25.5 84.1 72.9 1.0 32.4 0.7 104.8 1.4 0.6 0.1 20.2 30.5 15.1 28.6 6.5
1980 7 16502.7 10941.3 14951.4 8248.5 8233.8 11588.8 4686.1 4211.7 2873.4 2130.8 2912.6 246.3 1834.5 215.8 1505.8 1714.5 1406.0 884.5 43.3 1356.7 2.1 1358.0 1063.1 657.4 532.6 761.8 294.2 593.1 459.2 453.5 330.2 187.5 253.1 135.6 179.6 138.2 262.9 143.0 152.0 241.8 1.1 16.7 124.6 145.2 0.1 67.5 0.6 122.7 1.6 0.1 0.0 9.9 36.2 8.3 34.9 17.3
1980 8 15376.8 10902.8 14378.9 8340.2 7110.2 10508.9 3534.8 4063.1 2205.7 2097.6 2913.6 126.2 1864.4 86.0 1620.7 1659.7 1328.6 868.4 77.6 1327.9 2.5 968.2 1138.5 818.9 669.9 524.9 527.4 704.7 391.8 574.5 314.3 289.1 198.9 214.9 167.5 182.6 277.0 139.6 128.2 307.9 0.3 23.6 118.3 110.3 0.9 46.4 2.5 90.3 3.2 0.5 0.0 14.1 42.9 9.1 35.9 6.0
1980 9 4368.6 2563.7 8028.5 2115.4 3067.4 4120.5 676.1 2288.5 620.4 521.1 1903.3 176.2 1481.3 75.3

592.6 721.5 949.9 183.4 144.9 647.9 0.2 222.3 869.9 491.6 432.0 90.1 360.0 581.3 90.6 326.5
117.1 171.3 111.3 141.1 42.5 124.2 128.6 32.2 29.6 123.8 0.0 25.8 117.9 56.7 7.8 13.7 0.5
62.7 1.5 3.7 0.7 14.0 12.3 6.4 21.5 0.0
1980 10 305.8 244.9 767.8 198.9 1293.7 150.4 226.7 1651.9 52.9 53.2 869.6 348.6 469.1 244.3 28.4
37.2 227.2 12.8 348.3 265.1 6.9 74.8 291.9 18.2 100.9 3.8 28.3 244.5 9.5 8.5 14.0 6.5
34.0 8.4 3.6 11.5 0.7 2.9 2.8 3.0 5.7 39.5 52.3 13.9 24.6 1.3 5.6 5.2 6.0 10.9 5.0
19.8 0.2 12.5 0.1 0.0
1980 11 1.9 4.1 22.5 2.9 100.9 1.7 0.0 48.7 0.4 1.9 35.7 900.3 0.4 786.5 1.6 1.2 0.4
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1980 12 0.0 0.2 4.4 0.2 0.0 0.0 0.0 0.0 0.0 0.4 0.0 1713.1 0.0 1565.9 0.1 0.2 0.0
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1981 1 0.0 0.1 0.5 0.1 204.9 0.0 3.3 116.3 2.1 0.2 15.2 2166.2 0.4 1788.3 0.0 0.0
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1981 2 0.0 0.3 3.2 0.2 6.3 0.0 0.0 0.0 0.0 0.3 0.1 2311.2 0.0 1715.3 0.3 0.2 0.0
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1981 3 1.0 3.1 16.0 2.1 63.8 0.4 0.4 40.9 5.0 2.0 16.5 1165.0 2.7 1242.3 0.9 0.9 0.6
0.0 774.7 4.7 289.2 0.3 2.4 0.0 0.0 0.2 1.9 1.6 0.0 0.0 0.8 0.0 0.1 0.7 0.0 1.0
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1981 4 45.9 170.3 227.9 132.8 74.2 35.0 6.6 67.2 29.8 43.3 26.8 817.6 17.4 654.4 20.4 17.2
12.1 13.7 381.9 10.3 44.8 3.2 11.2 66.1 114.2 3.0 22.6 10.1 2.8 39.1 6.3 6.2 1.0 8.5
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1981 5 1149.1 909.1 2807.0 701.8 3002.7 595.6 1225.7 1950.8 914.7 202.4 1361.8 328.8 663.8 191.0
136.4 199.4 436.7 68.8 184.7 570.6 3.2 369.5 566.4 119.1 101.3 156.1 55.5 306.0 41.4 102.9
46.0 23.8 53.7 22.5 6.5 36.7 48.8 11.4 11.1 33.2 3.5 27.5 48.8 9.3 10.3 20.2 7.4 31.6
7.2 5.9 0.1 24.7 3.5 12.3 8.7 0.0
1981 6 3192.9 4491.1 10386.2 3612.0 4910.1 4731.1 2492.0 2547.7 2175.2 1080.8 1756.6 151.4 759.5 119.8
996.9 1160.5 542.7 428.7 63.0 825.5 0.1 477.9 659.3 274.9 235.1 514.7 263.6 354.3 209.0 268.5
193.8 162.8 69.4 122.2 56.0 110.7 97.0 67.8 66.8 54.2 0.1 19.0 80.3 97.1 0.4 42.2 0.8
84.0 2.5 0.6 0.0 18.8 6.8 7.4 18.4 2.8
1981 7 16340.4 11683.2 16126.4 8510.3 7817.5 13873.8 4062.9 4232.1 2700.8 2243.9 3053.6 116.8 1933.1
62.9 1655.9 1829.0 1525.3 932.8 53.5 1336.9 0.1 1192.4 1169.7 488.9 426.3 630.4 388.1 668.0 457.6
368.5 342.2 256.5 294.3 171.4 174.0 160.2 186.7 149.2 152.6 225.7 0.2 20.1 120.4 132.4 0.3
55.6 0.4 109.5 0.9 0.1 0.0 14.2 34.4 13.7 24.9 9.7
1981 8 14492.2 11103.9 14610.6 7871.8 10919.7 10751.2 4362.9 5783.1 2839.9 2157.8 3592.2 195.1 2569.2
158.2 1719.1 1665.8 1862.0 890.2 103.3 1592.3 0.5 1434.6 1333.8 862.7 765.2 692.3 471.8 785.5 390.9
535.5 296.9 255.6 356.3 188.6 171.4 163.0 138.8 143.2 130.8 163.2 0.0 32.1 161.3 120.9 0.6
59.9 1.4 79.6 2.1 0.3 0.1 17.5 23.0 13.1 18.2 3.2
1981 9 3891.7 2865.7 7862.6 2328.9 3164.0 3604.0 724.0 2906.8 637.9 616.3 2629.3 342.4 1490.9 214.9
650.9 808.4 1052.8 223.9 157.2 946.4 1.4 350.6 1003.6 379.1 375.0 97.2 353.1 586.8 79.7 211.0
114.5 183.2 160.9 148.7 32.4 143.0 101.5 38.4 26.0 60.7 1.1 45.2 117.8 81.8 2.4 13.6 1.8
56.7 3.6 1.6 0.4 20.3 6.6 13.4 19.1 0.0
1981 10 201.3 230.9 1454.1 187.4 879.2 172.6 126.9 905.8 31.7 50.6 324.8 725.0 182.2 482.3 73.8
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15.4 4.8 19.6 2.7 2.9 3.5 5.4 5.9 64.3 27.7 41.1 26.9 1.2 8.6 11.3 7.1 13.9 4.2

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118.5 1373.5 1536.6 1458.8 805.5 62.2 1593.2 2.1 1077.9 1227.1 530.8 466.7 606.1 463.0 692.1 372.3
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1982 10 167.2 166.0 943.6 138.8 219.7 129.0 35.5 461.6 0.0 38.6 387.8 782.0 251.3 491.8 51.4
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1983 5 471.2 873.7 2247.6 711.3 1626.9 445.2 565.9 1419.0 531.7 208.4 1333.9 456.7 854.3 475.9
189.5 181.8 476.1 71.3 353.6 486.8 0.4 164.0 551.7 110.5 81.0 66.1 26.1 319.9 48.5 75.5 36.1
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1983 6 3083.0 4266.3 8761.2 3492.7 5254.2 2622.0 2865.9 3224.8 1891.5 1018.0 2639.0 202.6 1391.2 77.9
944.0 854.4 1025.2 398.3 99.4 1197.9 0.1 821.7 945.8 406.8 352.4 462.2 323.9 504.0 218.6 308.2
147.1 175.6 157.5 134.2 63.9 123.1 100.1 62.6 69.3 118.4 0.0 28.5 95.4 66.8 0.9 40.7 0.1
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1983 7 11193.6 10082.5 14362.6 7928.0 8712.3 10860.8 5289.5 4655.0 2976.6 2109.3 3346.6 5.1 1885.4 3.3
1633.9 1567.4 1444.2 876.2 48.8 1525.5 0.5 1206.5 1198.4 637.0 551.5 668.8 896.4 686.0 430.0 392.6
289.2 390.9 253.0 339.7 172.7 285.7 190.4 140.0 141.4 213.4 0.5 12.1 129.6 130.5 0.7 57.1 0.7
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1983 8 20416.2 11353.4 14331.8 8011.7 7869.0 12310.3 3527.7 4792.6 2735.8 1905.3 3879.4 99.9 2309.5
71.8 1324.7 1545.9 2031.6 791.6 100.4 1653.2 1.9 1228.2 1450.0 686.4 600.1 668.5 593.8 850.9 349.3
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1983 9 8374.1 3288.5 8592.1 2399.2 2204.6 6292.8 296.2 1775.8 388.5 540.6 1412.6 123.2 688.5 145.0
687.7 817.1 433.7 188.5 185.9 503.1 1.5 113.8 638.4 165.6 161.4 58.3 355.6 440.1 58.8 111.6
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1983 10 125.2 173.4 1763.9 145.1 631.2 240.6 59.4 631.1 11.6 35.4 389.2 548.1 172.5 334.1 121.8
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1984 5 915.6 859.0 3512.1 641.7 1475.5 965.4 426.0 1171.1 379.3 186.0 680.7 46.7 165.6 43.5
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1984 6 9186.1 5130.4 10463.1 3950.9 4978.4 9398.1 2878.7 2921.3 2261.6 1069.6 1842.5 18.3 1153.7 8.0
895.6 1125.2 885.8 437.0 62.5 899.7 0.0 688.6 687.2 667.3 586.0 559.7 205.1 377.9 208.1 420.9
188.5 111.3 125.3 90.1 66.2 85.6 112.2 67.6 66.2 149.7 0.0 14.9 80.4 64.9 1.2 47.4 0.0
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1984 7 17033.6 11393.9 14256.4 8271.5 7078.2 12664.4 3920.0 3893.5 2915.6 2135.6 2710.9 190.9 1772.6
89.9 1612.7 1638.5 1353.5 888.6 88.3 1224.0 0.0 1053.7 967.0 926.0 796.3 698.5 446.1 544.4 429.0
575.1 309.5 227.1 232.9 182.5 177.9 161.2 168.1 144.2 143.0 185.7 0.0 25.3 121.4 136.6 0.9
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1984 8 26327.9 12296.2 14581.5 8696.3 7792.6 14508.7 3494.8 4716.9 2502.4 2048.4 3430.1 264.2 1881.8
92.1 1358.2 1557.4 1626.2 849.8 129.9 1583.8 0.6 1221.4 1164.8 997.7 837.3 646.6 404.2 607.9 376.1
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1984 9 4040.7 3094.2 8094.6 2589.2 3468.8 2922.3 835.8 2514.7 955.9 680.2 1597.0 223.4 562.6 97.1
545.9 660.6 371.7 253.9 164.1 659.8 0.3 98.0 536.6 450.3 414.8 192.7 148.6 275.5 81.2 252.1
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1984 10 235.5 186.2 1820.5 153.6 394.4 278.1 40.7 286.6 21.1 42.6 157.3 456.4 40.2 344.9 43.5
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1985 3 11.3 3.3 39.5 2.0 3.9 2.9 0.0 1.9 0.0 1.6 1.9 1515.9 0.0 1273.5 0.3 2.2 0.0

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0.0 0.1 0.0 0.0 58.6 21.0 0.0 0.0 40.1 0.0 33.7 0.0 24.6 38.7 2.3 19.4 0.0 13.3 0.0
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1985 4 82.3 135.0 342.3 101.4 35.7 74.9 3.5 65.4 0.8 31.5 41.9 896.2 20.9 672.2 14.8 15.1
14.6 8.3 308.8 16.7 19.8 2.4 12.2 44.4 68.9 0.0 13.9 8.9 3.0 28.3 6.5 2.6 1.2 5.0
0.6 4.4 0.0 1.5 0.8 0.1 9.7 29.6 9.5 6.1 20.2 0.0 4.3 1.8 6.2 16.2 2.0 19.9 0.0
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1985 5 427.0 832.2 2803.3 656.4 956.7 456.3 212.4 750.9 247.3 183.5 536.2 377.3 642.4 292.1
198.8 185.7 436.2 67.3 133.9 172.4 1.8 127.3 291.7 197.5 165.1 11.0 37.0 192.4 42.3 127.3
37.6 29.4 53.5 18.0 7.4 28.6 45.6 11.0 12.1 9.4 1.3 19.9 52.4 51.7 11.0 1.4 1.8 25.0
3.4 3.4 0.3 10.5 1.1 7.6 7.1 0.0
1985 6 3228.1 4114.5 9444.4 3354.2 2633.4 5291.7 1408.0 1926.9 1199.3 967.8 1545.7 163.4 1085.2 163.5
856.6 970.2 777.4 381.3 29.3 601.7 0.6 514.6 649.9 373.8 324.2 226.0 179.7 361.9 196.0 295.0
173.9 86.8 92.8 76.4 58.0 74.8 154.3 62.2 62.9 161.7 0.6 9.9 87.2 74.8 0.7 22.4 3.3
79.1 4.5 0.6 0.0 4.6 22.8 3.2 23.5 4.3
1985 7 17755.5 11214.5 15895.9 8428.3 7018.9 13145.2 4342.0 3587.2 2839.0 2183.1 3111.0 21.9 2248.0
18.1 1490.3 1781.1 1735.6 906.3 27.4 1285.3 0.1 1166.5 1166.7 614.1 556.9 738.1 574.0 687.8 450.7
375.6 305.0 336.7 330.8 240.1 178.4 203.5 210.8 146.9 151.3 242.4 0.2 9.1 163.4 81.6 0.2 63.9
0.3 89.1 0.2 0.1 0.0 6.6 36.3 3.5 26.7 15.4
1985 8 17168.2 11540.6 12985.8 7947.1 6108.3 11630.3 2813.5 3150.2 2491.7 2036.4 2349.9 53.0 2111.5
21.7 1474.4 1520.5 1695.7 824.3 48.0 1038.9 0.3 1030.1 910.4 661.1 568.9 636.8 397.8 537.1 407.5
445.2 289.6 312.6 284.8 183.8 181.9 146.9 190.1 135.6 133.8 297.2 0.0 18.0 129.6 140.9 0.3
55.2 0.3 80.5 0.6 0.3 0.0 10.1 41.7 7.0 26.0 16.6
1985 9 5931.2 2950.4 8930.0 2533.2 2962.6 4649.1 573.0 2102.8 664.6 600.5 1630.0 313.5 719.2 232.6
575.3 780.9 276.0 218.2 97.0 604.9 1.5 138.1 683.7 212.1 207.6 110.3 387.6 395.7 72.4 155.8
128.9 231.5 23.9 170.3 35.0 131.1 15.4 39.0 23.4 73.0 0.8 28.7 94.5 52.4 3.1 18.0 3.6
74.0 4.3 1.3 0.2 9.5 7.2 5.9 3.3 0.2
1985 10 96.9 198.4 1192.7 173.9 149.8 238.6 23.6 222.8 0.7 44.9 134.6 649.7 85.3 399.0 43.1
57.3 30.8 8.6 446.7 39.3 12.9 4.4 42.2 470.8 522.4 0.0 78.5 41.8 7.1 199.8 16.3 33.0 1.2
32.2 2.5 34.0 18.1 2.9 1.8 16.8 10.1 53.5 24.6 10.3 34.3 0.1 5.9 10.6 5.4 7.9 3.1
15.5 1.0 9.0 2.8 0.0
1985 11 0.3 4.4 22.6 3.7 0.0 1.2 0.1 0.0 0.0 2.5 0.1 1456.1 0.0 1112.9 0.5 1.0 0.0
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1985 12 0.0 0.3 3.3 0.2 46.8 0.0 0.0 2.3 0.0 0.5 0.9 2816.2 0.0 2197.1 0.1 0.1 0.0
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1986 1 0.0 0.1 1.9 0.2 23.1 0.0 0.0 35.3 0.0 0.3 3.9 2542.5 0.2 1941.1 0.0 0.0 0.0
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1986 2 0.1 1.2 5.6 0.9 0.0 0.1 0.0 0.0 0.0 0.8 0.0 2052.1 0.0 1544.9 0.0 0.2 0.0
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1986 3 0.3 4.7 22.3 3.7 1.8 0.2 0.0 4.2 0.0 2.4 30.3 1369.7 2.9 1176.4 0.7 1.2 1.1
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1986 4 68.3 195.9 229.4 150.9 38.4 21.5 2.2 38.6 0.5 43.1 31.3 562.5 16.1 325.4 17.6 18.2
8.8 13.3 297.1 9.1 27.5 1.9 13.0 57.1 82.9 0.0 2.2 10.4 1.4 28.9 6.4 1.3 0.7 1.3
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1986 5 234.6 776.8 2179.8 635.7 1043.7 246.8 218.8 817.9 313.4 180.5 512.0 396.7 383.7 290.4
170.3 170.3 311.1 60.7 85.6 189.0 1.1 76.3 194.5 84.1 63.6 26.7 123.7 94.1 23.4 59.4 31.9
104.2 40.8 61.3 4.2 68.2 36.9 10.4 6.1 51.4 1.2 17.7 50.9 8.5 3.8 2.9 2.7 17.9 3.7
3.2 0.0 14.4 4.5 12.1 3.9 0.0
1986 6 4453.6 4598.8 10531.0 3681.7 3875.3 6109.8 2081.4 2664.1 1594.2 1057.5 2164.0 143.0 1431.1 61.3
948.1 1127.5 1229.1 419.8 39.5 920.9 0.1 673.1 823.6 542.8 477.8 393.7 306.0 463.8 195.9 315.8
178.6 166.8 195.9 131.6 54.7 122.9 182.0 67.1 62.8 163.6 0.0 12.3 105.0 86.2 0.6 32.1 0.6
78.3 1.4 0.5 0.0 8.0 23.4 7.4 24.5 7.9
1986 7 17031.2 12185.0 15536.0 8608.1 8150.9 12065.5 5099.2 4080.9 3329.3 2226.7 2967.8 294.6 1594.5
159.5 1514.5 1786.1 1126.7 920.9 16.4 1376.2 0.3 1111.9 1066.1 606.9 516.7 753.3 517.8 591.5 456.1
425.8 317.9 252.5 197.9 204.4 182.8 179.3 176.0 149.9 153.6 204.6 0.2 6.6 95.7 127.1 0.0 57.5
0.8 97.5 1.4 0.1 0.0 3.3 30.9 4.5 23.4 16.8
1986 8 16009.2 11697.8 14063.9 7739.8 6363.5 11001.5 2842.3 3803.0 2350.3 2016.7 2877.5 270.6 2258.8
113.7 1404.3 1551.9 1693.1 821.3 43.5 1204.2 1.0 1113.2 1091.9 742.2 574.9 641.7 508.2 647.6 370.3
462.2 280.5 309.3 336.2 215.7 162.3 177.3 150.7 134.3 122.0 127.5 0.1 13.8 163.6 145.9 0.8
56.4 0.6 84.2 1.5 0.3 0.1 5.9 17.8 5.1 21.2 6.7
1986 9 3750.7 2860.5 8708.2 2430.3 3387.6 3679.0 938.8 2002.7 1000.7 628.9 1838.9 314.3 886.4 183.4
532.4 830.3 464.6 229.2 144.9 702.0 2.3 208.0 745.3 337.0 298.3 186.3 308.4 472.1 84.5 231.5
127.0 163.9 47.3 139.1 39.3 116.8 6.2 38.9 26.8 26.7 2.1 41.2 94.2 115.2 5.1 24.7 2.6
80.4 3.7 1.1 0.5 10.2 2.9 7.8 1.7 0.4
1986 10 349.4 259.3 741.1 229.3 1130.7 127.1 198.2 1181.2 37.4 55.8 1290.3 623.1 606.2 387.7
32.4 35.6 242.1 13.9 334.7 354.6 6.6 75.9 643.4 40.2 122.4 4.6 124.3 456.1 10.7 15.7 10.8
42.7 27.1 46.1 4.1 46.2 4.8 2.7 3.0 15.3 6.3 35.7 66.7 17.8 25.2 2.1 5.7 3.0 6.4
7.9 1.5 13.8 1.0 9.6 1.0 0.0
1986 11 1.4 2.9 22.1 2.7 14.3 1.7 0.1 0.0 0.0 1.4 2.2 1552.0 0.1 1393.5 1.0 0.7 0.2
0.1 323.9 0.0 125.5 0.0 0.2 1.7 8.5 0.0 1.5 0.4 0.1 0.0 0.5 0.0 0.0 0.6 0.0 0.6
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1986 12 0.0 0.2 1.4 0.1 125.3 0.0 2.5 22.8 0.0 0.3 3.5 1891.8 0.0 1455.7 0.2 0.1 0.0
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1987 1 0.0 0.1 0.8 0.1 15.3 0.0 0.2 19.4 0.0 0.1 0.5 2295.4 0.0 2060.7 0.0 0.0 0.0
0.0 790.7 0.5 973.5 0.0 0.1 15.1 31.2 0.0 0.0 0.3 0.0 11.5 0.2 0.0 0.0 0.0 0.0 0.0
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1987 2 0.0 0.3 3.5 0.2 4.0 0.0 0.0 0.8 0.0 0.3 2.0 2251.3 0.0 1810.1 0.4 0.3 0.0
0.0 505.6 0.5 1103.1 0.0 0.3 1.6 1.1 0.0 0.0 0.2 0.0 0.3 0.4 0.0 0.0 0.0 0.0 0.0
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1987 3 4.3 5.6 23.1 3.4 0.8 0.7 0.0 0.1 0.0 2.6 0.7 1717.1 1.6 1546.1 2.0 1.2 0.1
0.0 489.9 0.3 522.4 0.0 0.1 1.1 3.3 0.0 0.0 0.2 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0
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1987 4 48.9 159.3 267.2 115.5 186.9 45.0 32.5 309.5 52.5 37.9 108.0 1471.7 86.4 1210.6 18.1
15.8 49.5 10.2 411.1 46.4 39.6 18.1 34.2 58.7 95.9 2.8 23.6 30.4 4.3 27.3 6.5 6.2 6.5
8.6 0.8 7.0 1.6 1.9 1.1 0.6 19.4 49.4 25.6 1.4 24.4 0.6 15.1 1.1 14.0 20.3 3.2 34.9
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1987 5 165.6 862.9 2158.5 671.6 1665.8 194.3 471.6 1201.5 415.3 206.5 656.1 440.5 636.6 226.5
170.4 146.7 442.6 68.2 159.7 282.8 0.2 174.7 291.1 232.0 204.2 37.4 20.3 154.4 43.2 145.7
33.1 7.1 53.5 8.3 7.6 14.5 10.9 10.5 12.1 10.8 0.2 29.6 73.4 31.3 5.9 4.5 0.9 16.7
1.7 6.0 0.3 22.5 1.4 17.0 2.3 0.0
1987 6 2516.1 4390.0 10343.9 3469.8 3508.5 4931.5 1700.4 2366.6 1484.0 1057.4 1995.7 364.4 1572.4

303.6 1025.8 1130.7 1195.2 417.1 59.0 821.1 0.3 752.6 811.3 409.8 333.5 347.3 190.5 473.1 227.7
321.2 177.5 98.2 201.1 79.0 64.7 81.4 94.3 65.5 74.2 140.3 0.3 20.7 104.1 90.8 0.5 33.9
0.8 82.7 2.4 0.4 0.0 15.7 20.7 14.1 16.2 8.3
1987 7 8649.3 10542.7 16250.9 7928.3 7647.3 10683.9 4928.6 4159.2 3041.6 2247.2 3501.7 165.3 2068.9
81.0 1668.5 1771.7 1724.6 930.1 22.8 1604.7 1.9 1338.4 1247.9 748.4 648.4 770.3 535.2 702.2 467.6
493.2 321.3 344.3 372.6 230.3 186.2 192.4 157.0 149.7 155.7 166.5 1.2 10.5 125.2 140.4 0.0
62.7 1.2 98.5 1.5 0.1 0.0 5.2 23.8 5.4 20.9 18.4
1987 8 14035.5 11268.8 16118.7 8084.3 7605.7 13284.0 4120.6 4212.5 2535.0 2153.3 3277.0 143.9 1992.4
41.9 1546.5 1770.9 1566.2 883.5 70.5 1518.2 1.8 1188.8 1229.4 668.7 549.6 652.0 539.9 668.4 378.0
491.8 310.7 243.9 247.3 215.3 174.9 179.0 120.2 141.0 122.2 123.2 0.2 29.0 129.5 110.2 0.6
59.8 1.3 96.2 1.2 0.3 0.0 9.5 16.2 11.5 18.4 15.6
1987 9 5114.1 3371.2 10547.9 2653.9 3992.9 5374.3 833.9 3206.4 687.1 697.4 2686.7 141.8 2125.4 68.1
520.3 1115.2 1701.7 262.6 119.2 918.4 0.7 575.4 1260.0 491.9 463.5 97.0 600.8 799.0 80.8 278.5
154.0 290.8 274.6 240.1 30.0 199.5 19.6 44.1 25.9 53.0 0.6 40.9 158.5 35.6 3.0 10.1 1.7
103.8 2.9 2.4 0.4 14.9 6.5 11.4 3.7 0.1
1987 10 124.7 231.3 1123.8 191.1 1185.5 178.4 188.5 1430.7 58.1 51.9 622.8 718.2 529.8 480.9
50.2 55.3 214.7 11.6 291.3 218.2 19.3 64.7 212.5 76.9 174.7 3.9 145.6 193.1 12.6 20.4 15.5
40.0 28.9 45.2 5.2 51.5 11.5 2.8 4.1 59.1 15.6 49.3 73.0 6.4 12.3 1.8 22.9 8.6 15.5
12.0 1.6 13.4 6.2 7.7 2.1 0.0
1987 11 0.5 3.5 40.3 3.2 119.0 2.4 0.0 160.1 0.0 1.5 41.3 839.4 2.3 547.9 1.6 1.5
0.3 0.1 390.2 9.4 21.6 0.0 7.3 75.8 108.2 0.0 0.6 11.0 0.0 22.1 1.5 0.0 0.0 0.2 0.0
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1987 12 0.1 0.2 3.7 0.3 1.8 0.1 0.0 0.1 0.0 0.3 2.2 1607.2 0.0 1266.6 0.0 0.2 0.0
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1988 1 0.0 0.1 1.8 0.1 1.2 0.0 0.0 0.4 0.0 0.2 0.0 2130.2 0.0 1681.1 0.1 0.1 0.0
0.0 865.6 0.0 689.6 0.0 0.0 0.0 0.0 0.0 0.2 0.0 0.0 0.0 0.2 0.0 0.0 0.1 0.0 0.1
0.0 0.0 0.0 0.0 110.6 58.7 0.0 0.0 65.5 0.0 44.1 0.0 37.1 45.0 8.6 21.5 0.0 10.0
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1988 2 0.0 0.6 6.9 0.6 3.3 0.1 0.0 0.0 0.0 0.7 0.5 2231.9 0.0 1970.7 0.2 0.3 0.0
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1988 3 0.6 3.7 26.6 3.1 42.8 0.4 0.2 42.7 0.0 2.0 23.2 1816.1 0.3 1554.4 0.9 1.3 0.1
0.1 741.4 8.8 397.8 0.1 2.7 0.0 0.0 0.0 0.0 0.8 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0
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1988 4 72.3 186.3 303.0 138.1 257.3 36.4 45.3 340.0 27.5 43.2 133.4 689.3 102.3 531.9 16.3
18.8 42.7 13.7 561.8 63.6 37.0 23.1 55.7 2.3 7.5 1.6 20.0 39.4 4.4 2.0 7.2 6.3 6.0
7.5 0.8 6.5 0.0 2.1 1.2 0.1 18.1 46.1 18.6 4.5 36.2 0.4 16.8 0.9 13.2 17.1 4.6 29.9
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1988 5 737.8 865.2 2915.1 677.0 1679.3 634.0 632.7 1279.9 636.8 196.4 946.7 619.4 538.1 232.1
184.1 159.4 384.2 67.8 190.3 389.8 0.9 198.8 384.6 233.0 183.9 74.5 100.9 186.8 56.1 185.9
43.4 58.7 51.8 42.6 9.1 59.0 48.4 10.9 15.6 19.2 0.9 36.1 49.5 13.2 8.5 9.2 1.2 26.0
2.0 6.0 0.5 25.1 2.1 13.2 6.5 0.0
1988 6 4902.5 4422.3 9227.8 3488.6 4981.7 5325.5 2772.0 2811.6 2243.2 1012.1 1960.5 348.3 1277.5 206.1
890.3 991.4 1184.7 397.3 44.8 892.0 0.3 814.1 703.2 595.3 540.3 537.2 248.8 377.1 207.0 365.8
161.4 123.1 213.8 103.3 58.5 97.1 196.5 64.8 65.2 139.8 0.1 12.5 83.6 94.4 0.6 40.2 0.3
69.2 1.1 0.6 0.0 9.2 21.2 5.2 27.9 9.4
1988 7 19749.2 11870.8 16606.9 8555.0 8004.4 15526.3 5116.7 3686.2 3529.4 2222.8 2647.2 141.2 1795.3
74.6 1675.0 1868.7 1431.5 920.1 60.9 1134.2 0.2 1099.7 1018.2 781.7 676.9 911.8 475.0 570.6 460.0
445.8 332.2 306.3 280.8 206.2 189.2 169.5 241.8 148.9 152.1 273.8 0.2 22.7 125.0 158.8 0.5

73.3 0.9 119.8 2.7 0.2 0.0 11.7 40.8 16.5 33.1 18.2
1988 8 15110.7 11420.6 17631.3 8306.9 7838.0 12220.4 3790.1 4357.5 2626.7 2193.7 3087.8 100.8 2199.0
49.1 1640.7 1883.6 1901.6 900.1 107.7 1323.2 0.8 1309.5 1156.5 1087.0 958.0 702.1 572.5 655.8 412.4
599.3 341.2 334.9 387.7 237.2 182.8 190.6 244.7 144.1 133.6 273.3 0.0 36.7 124.0 122.9 1.3
60.4 0.5 130.7 0.8 0.4 0.1 13.7 39.6 13.9 31.2 15.3
1988 9 5114.5 3271.3 10524.0 2790.7 2689.9 5221.7 568.8 1822.0 753.3 714.3 1662.0 185.9 1299.8 83.1
727.9 947.9 981.5 268.1 267.5 592.8 0.5 269.2 713.9 397.6 369.4 132.8 244.2 507.9 92.8 239.2
149.1 130.1 123.9 101.0 40.3 92.4 129.8 44.7 30.0 155.9 0.4 66.9 126.5 46.6 8.0 14.7 1.0
88.4 2.3 4.8 1.1 17.1 16.2 17.0 19.8 0.2
1988 10 150.6 267.9 1893.3 226.7 866.9 255.1 135.8 1114.6 3.1 61.6 690.6 775.6 566.5 613.9 140.8
120.3 360.5 13.7 490.1 182.8 10.3 68.7 265.7 164.3 254.2 0.1 117.9 262.3 10.0 63.5 35.7 53.1
44.4 45.6 3.8 48.3 3.2 3.2 2.9 10.4 9.0 70.2 102.8 20.9 27.9 0.3 13.2 30.2 11.0 8.9
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1989 6 2396.0 4599.3 10652.0 3683.1 5159.8 5478.9 2548.3 3013.8 1863.4 1102.5 2418.9 170.2 1555.2
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1989 8 10403.6 11012.6 13962.9 8379.3 10844.2 10880.8 6210.6 6142.9 3364.8 2320.8 5029.4 91.4 2624.2
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1989 9 3825.4 3097.7 10291.0 2466.3 6080.6 5402.8 1655.2 4138.6 1439.7 671.2 3295.7 353.2 1868.9 143.4

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1990 5 1125.4 1113.7 2956.8 915.5 2329.1 1450.3 838.3 1651.2 603.9 260.2 1314.5 444.7 575.3 291.9
114.8 173.0 258.6 90.8 201.2 508.7 1.4 160.8 533.7 313.1 233.8 73.6 170.4 268.1 48.1 211.6
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1990 6 7572.5 5522.9 12627.4 4391.9 5865.1 8530.1 3103.9 3211.3 2243.4 1208.8 2386.2 330.9 1423.8
190.4 883.6 1148.6 1064.9 495.4 61.0 1027.1 0.3 708.2 872.7 437.0 386.9 519.9 253.4 494.5 250.4
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1990 7 16270.0 12720.5 16208.5 9279.3 9214.5 14576.8 5444.4 5319.2 3174.3 2464.8 3699.9 190.8 2285.2
89.9 1637.3 1775.2 1610.0 1020.8 17.1 1697.4 0.5 1220.8 1321.1 724.6 644.0 814.1 560.7 748.9 494.0
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1990 8 21482.8 13417.0 15157.4 9795.5 10115.2 12644.9 5654.8 6019.5 3422.1 2443.1 4273.1 134.4 2579.5
43.2 1578.5 1712.2 1796.0 1024.5 55.6 1987.4 1.0 1522.3 1512.1 974.6 789.4 943.1 756.7 879.8 439.4
630.9 325.7 328.0 345.0 287.7 208.7 237.7 183.3 163.0 146.6 201.0 0.0 21.4 165.5 94.0 0.8
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1990 9 9099.7 3563.4 10233.3 3111.9 5459.3 7235.7 1393.7 4312.4 1070.0 692.1 2827.2 304.5 2267.9 117.6
411.0 642.2 1459.1 257.9 151.3 1221.9 0.4 538.5 1028.2 337.5 306.5 186.4 255.2 657.1 105.4 198.4
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1990 10 260.3 247.2 1095.9 203.3 290.8 216.9 40.3 384.8 6.8 55.6 137.0 689.8 63.1 458.9 39.5
46.3 28.6 13.1 324.3 41.0 10.3 3.4 35.1 275.0 370.9 0.2 153.0 40.3 14.6 88.8 14.6 49.3
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186.5 189.6 293.3 79.8 194.8 399.8 4.7 241.3 408.3 415.3 354.6 36.4 20.9 197.1 39.4 232.8
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1991 6 4601.8 5372.0 11925.9 4310.7 4979.2 6920.5 2828.2 3111.8 1815.7 1219.3 2467.8 119.4 1274.5 55.8
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205.5 111.3 122.5 91.2 68.8 84.7 65.8 76.4 74.3 148.4 0.1 19.4 74.3 92.4 0.9 41.2 0.5
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1991 7 14222.4 11587.7 14380.6 8453.3 7869.5 12890.4 4540.8 4122.9 3206.6 2297.0 2757.9 359.2 1796.2
192.0 1794.4 1680.8 1322.8 939.9 29.9 1209.8 0.3 1140.3 1049.8 972.6 813.6 760.2 609.1 611.9 486.7
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78.7 1700.1 1706.6 1602.1 977.4 59.7 1506.2 2.5 1184.2 1322.4 1016.8 802.2 627.1 780.3 784.8 419.2
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1994 5 439.2 942.7 3739.4 739.4 1496.3 642.7 484.0 1218.9 536.8 219.2 928.0 234.7 726.7 215.9
261.1 269.9 433.5 76.6 189.3 357.5 1.7 204.9 378.0 233.9 194.9 60.5 107.2 202.5 45.2 147.2
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1994 6 6115.0 5031.7 10936.9 3933.7 5084.1 8622.4 2682.8 3136.9 2059.4 1124.0 2000.9 162.8 1373.8
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1994 7 22795.1 12939.8 15512.3 8861.5 8554.8 15333.5 5095.8 4722.9 2780.9 2268.1 3377.1 241.2 2291.9
79.3 1465.5 1816.0 1643.5 951.8 41.5 1608.7 0.1 1357.8 1252.5 907.2 784.9 709.3 823.0 708.1 477.5
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1994 8 24735.7 14264.8 16178.3 9321.1 11977.3 15171.8 7424.3 6415.5 3054.7 2245.1 4773.4 323.6 2487.8
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1994 9 4747.4 3513.6 9457.1 2637.5 3383.6 5245.9 756.8 3190.1 769.7 718.4 2452.6 426.0 2254.9 201.8
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1996 2 0.0 1.0 3.5 0.4 0.0 0.0 0.0 0.0 0.0 0.6 0.1 2036.5 0.0 1513.7 0.0 0.3 0.0
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1996 3 3.0 5.7 31.7 4.1 3.6 0.5 0.0 0.3 0.0 2.3 1.0 1750.6 0.1 1342.2 1.5 2.0 0.0
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1996 4 52.8 263.7 347.2 187.3 146.9 26.2 22.6 150.3 38.9 61.6 70.3 754.0 53.9 471.5 27.8
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7.8 0.4 7.3 0.9 2.9 0.8 0.8 6.6 41.7 15.5 3.3 33.3 0.8 5.8 1.9 5.5 19.9 5.1 16.0
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1996 5 419.6 1041.8 3125.2 783.8 1600.4 488.6 411.7 1195.2 473.1 240.6 652.7 936.0 191.4 630.9
195.3 207.8 88.4 81.6 204.8 319.4 1.7 39.7 214.5 221.4 170.2 85.3 65.7 88.2 44.0 157.1 51.4
32.8 7.9 28.5 7.4 38.2 9.5 12.9 11.9 5.1 1.4 29.5 27.7 49.9 10.2 13.3 1.3 35.9 2.7
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1996 6 5941.1 5651.9 10196.0 4368.8 4489.6 6780.0 2104.1 2860.2 1816.8 1253.0 2171.2 172.7 1010.9 51.6

969.6 1085.2 759.8 508.7 45.4 1067.5 0.2 558.4 777.7 514.5 448.8 503.9 388.4 401.7 239.6 362.6
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1996 7 13166.8 11930.8 16355.6 8731.4 7688.9 13555.8 4261.1 4047.1 3132.5 2404.2 2829.8 34.5 1996.1
15.0 1785.7 1861.8 1389.4 991.5 64.5 1326.4 0.0 1157.8 1034.7 865.9 721.5 802.0 494.4 589.6 493.1
510.4 346.5 254.3 231.8 195.9 218.3 180.0 147.8 159.8 164.5 188.9 0.0 22.5 153.4 147.4 0.6
63.8 0.0 111.2 0.1 0.1 0.0 7.5 30.2 4.4 20.4 15.7
1996 8 15641.8 12544.6 15092.5 8808.6 7940.9 11933.3 3299.2 4806.2 2628.4 2324.8 2918.0 38.4 1990.8
14.3 1603.5 1791.8 1414.9 991.3 133.5 1492.0 0.4 1029.2 1082.7 950.0 772.9 781.8 526.0 611.3 409.7
585.5 352.8 327.0 268.3 229.3 208.1 217.0 257.3 164.4 139.5 245.1 0.0 42.2 145.9 144.4 3.3
74.5 0.1 103.2 0.2 0.4 0.5 9.0 34.4 4.7 37.0 3.7
1996 9 5626.0 3597.8 8538.9 2997.4 2453.6 4652.5 412.1 2052.4 514.4 737.7 1348.1 226.4 784.5 76.8
658.0 796.3 429.7 279.9 209.2 573.2 1.0 145.3 518.3 1191.6 978.8 59.3 105.9 303.4 95.0 691.6
137.1 32.6 69.5 36.0 41.9 51.4 45.8 46.9 30.9 60.1 0.8 50.2 87.5 72.8 11.1 6.9 1.3 65.2
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1996 10 36.3 263.4 1574.6 229.7 117.0 232.9 12.8 122.8 0.0 57.0 153.6 614.3 65.6 364.0 73.3
77.4 36.1 15.8 477.7 31.1 7.7 5.9 38.6 214.0 323.0 0.0 52.6 44.3 11.5 67.4 22.2 15.0 4.1
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1996 11 0.3 5.2 30.4 4.3 2.2 1.8 0.1 0.0 0.0 2.3 0.0 1024.4 0.0 640.8 1.7 1.6 0.1
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1997 4 46.9 188.9 209.4 146.0 201.1 23.9 17.0 286.7 18.8 46.2 80.5 845.8 26.4 790.8 17.4
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1997 5 398.0 830.9 2766.5 647.4 1645.7 238.4 418.4 1341.8 443.3 190.4 1223.0 257.0 813.0 219.2
163.0 183.8 342.5 59.5 130.2 405.2 5.5 120.0 502.2 118.0 89.7 76.2 128.4 297.5 52.6 84.3 41.6
43.9 32.6 47.9 9.1 61.5 8.1 10.1 14.8 8.9 4.8 32.9 81.8 42.0 3.9 12.2 7.8 29.2 5.4
5.5 0.3 15.7 1.4 8.5 2.0 0.0
1997 6 4161.1 5063.3 11597.4 4013.1 6047.1 5044.9 2731.5 3564.4 1981.6 1151.8 2443.0 175.0 1359.1 91.3
924.7 1085.0 940.9 466.5 57.3 1150.9 0.1 752.8 911.6 300.7 273.3 604.0 319.9 522.2 255.7 240.4
176.5 155.4 151.8 127.7 86.3 128.2 154.5 75.0 83.9 138.5 0.0 17.9 94.3 88.0 1.1 52.5 1.0
67.4 2.2 0.7 0.0 9.5 20.9 6.2 22.5 8.3
1997 7 17879.4 12722.8 16615.6 9061.8 10307.9 15306.0 6099.9 5052.1 3958.1 2379.9 3259.3 216.4 1996.7
94.6 1541.7 1896.1 1378.8 990.5 28.0 1579.3 0.8 1261.2 1134.9 789.7 679.7 999.0 478.8 626.4 496.8
526.5 355.8 238.7 226.1 188.0 202.6 164.4 257.9 157.0 166.9 256.6 0.6 13.3 131.7 121.5 0.0

82.5 0.8 124.0 1.1 0.1 0.0 4.0 38.5 1.2 33.1 17.3
1997 8 15935.0 12310.6 14890.4 9297.1 11554.9 11835.0 5763.5 6220.3 3793.8 2417.4 4423.0 139.5 2107.5
42.7 1538.5 1733.7 1381.1 1019.3 79.9 2016.3 0.8 1481.1 1534.0 976.2 879.2 1057.4 850.8 842.0 408.4
568.3 349.9 363.4 284.1 318.8 191.9 253.3 285.7 163.3 137.1 185.5 0.1 28.9 149.0 127.1 1.9
103.6 1.0 97.0 1.8 0.4 0.2 6.2 26.5 3.8 35.6 19.6
1997 9 5678.3 3370.2 8216.5 2835.0 5990.5 4517.9 1632.5 4103.1 1452.5 707.4 3198.2 439.4 1918.9 192.3
398.0 655.3 1220.9 267.2 147.8 1249.1 1.2 577.8 1134.8 565.0 491.1 384.7 468.2 672.3 91.6 365.1
125.2 258.3 204.4 213.9 41.3 173.3 96.0 43.7 30.1 121.6 1.0 49.0 136.9 29.4 3.1 49.6 1.8
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1997 10 290.7 236.4 579.5 199.7 391.6 71.1 29.9 244.8 0.7 54.2 280.4 528.9 126.1 330.4 35.2
35.0 64.4 11.5 446.7 57.5 11.8 10.5 92.0 297.7 370.4 0.0 65.4 99.2 13.1 118.8 10.5 23.2
7.0 25.0 5.1 28.1 1.4 2.5 3.8 4.4 9.6 51.1 30.1 25.9 28.0 0.0 8.1 4.3 8.2 10.9 3.9
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1998 2 0.1 1.4 4.2 0.7 30.2 0.1 0.0 0.4 0.0 1.1 1.9 3316.6 0.0 2255.8 0.1 0.3 0.0
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1998 3 0.4 10.6 22.0 9.3 24.2 0.4 0.0 0.8 0.2 3.8 2.5 2154.2 0.6 1641.3 2.2 1.7 0.0
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1998 4 98.8 184.4 335.8 148.0 229.9 46.7 21.3 242.3 47.1 43.4 62.2 999.0 61.7 807.1 29.7
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1998 5 935.8 1203.7 4459.3 921.5 1345.7 887.1 421.6 1305.1 327.0 267.3 1409.2 766.8 1264.0 836.5
295.4 299.6 857.4 99.1 230.5 463.9 3.2 595.6 618.4 306.9 262.4 22.0 147.1 384.6 59.3 181.2
56.1 55.3 131.9 56.2 10.6 68.5 17.5 15.7 16.8 9.0 2.9 44.0 79.1 48.1 4.8 1.4 7.9 43.8
9.5 5.9 0.5 28.0 1.2 14.4 4.8 0.0
1998 6 4560.1 6489.2 13680.1 4881.4 4498.2 7474.9 2312.2 2938.1 1501.4 1468.1 2784.0 316.9 1637.6
265.1 1281.3 1323.1 1079.4 622.6 89.6 1144.5 0.4 964.6 1105.2 322.7 268.1 372.3 371.6 626.5 272.7
294.3 244.1 238.3 179.1 163.5 81.6 144.2 128.6 94.4 88.5 133.7 0.3 31.4 104.1 124.2 0.9 34.5
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1998 7 16195.6 14017.8 17524.7 10078.7 7766.4 13822.8 4636.6 4476.5 2937.4 2678.4 3732.9 63.2 2805.6
64.3 2054.1 1948.1 2031.5 1130.8 50.0 1615.3 1.1 1997.6 1406.1 637.3 538.2 745.7 613.0 872.8 491.7
432.4 377.5 331.2 423.1 247.5 205.8 190.4 164.0 179.8 163.6 247.1 0.7 18.3 170.6 147.7 0.7
59.6 0.9 117.0 1.6 0.1 0.0 6.3 38.1 5.6 21.8 23.2
1998 8 17624.7 14224.1 19980.5 9685.3 6847.1 13596.6 3278.7 4524.1 2099.4 2618.0 4292.6 111.5 3327.8
35.7 2036.8 2222.5 2848.9 1113.7 71.4 1753.8 1.9 1631.7 1605.9 1062.3 815.9 498.2 707.4 972.7 460.6
690.9 397.3 444.9 506.4 326.0 203.1 242.6 141.6 179.0 153.4 172.0 0.2 30.5 176.3 184.3 0.5
43.4 1.3 140.3 1.5 0.4 0.1 11.5 27.5 9.0 19.8 9.2
1998 9 7484.6 4242.4 9807.4 3097.8 3241.8 5918.9 854.9 2280.2 935.0 817.9 2148.5 228.8 2392.9 82.5

669.3 935.9 1900.3 319.3 335.7 768.1 1.2 502.7 868.0 473.3 424.7 172.4 352.8 561.3 107.8 304.3
151.4 120.2 297.2 129.8 47.1 138.0 124.9 52.3 35.1 92.5 0.8 56.9 189.8 108.7 19.0 19.4 1.6
87.4 2.5 3.8 2.2 18.7 10.2 13.3 19.9 0.7
1998 10 416.2 324.8 3233.4 276.4 519.5 647.5 53.4 542.3 27.1 72.9 507.1 516.1 332.6 335.0 103.9
180.1 137.7 19.0 670.2 124.9 2.6 36.6 176.0 80.4 184.5 2.6 59.7 153.5 14.3 22.2 38.7 15.5
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1999 4 106.6 236.6 1169.9 175.7 154.9 113.5 19.1 198.1 22.7 56.3 58.5 831.7 38.8 399.4 48.3
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1999 5 565.1 1284.6 5478.6 962.9 1037.8 1255.5 222.5 861.2 340.9 310.6 401.7 432.9 226.8 256.1
224.7 380.7 136.2 107.9 126.3 206.1 2.5 57.8 120.0 232.3 201.4 27.7 222.2 45.9 56.2 147.5
75.8 91.0 18.4 85.6 9.7 99.3 10.5 18.3 15.8 8.0 3.4 20.3 27.9 14.3 3.7 2.5 4.3 69.9
2.8 5.2 0.2 10.0 1.1 5.1 2.9 0.0
1999 6 4004.3 5687.8 11300.0 4475.2 5288.5 6178.0 2948.8 3196.7 2017.4 1332.1 2153.6 109.6 1106.6 43.1
1193.1 1227.5 723.4 542.7 50.0 1033.6 0.1 699.1 755.9 501.9 438.3 524.4 260.5 407.6 268.7 346.2
217.9 131.5 91.2 108.7 82.2 95.9 153.9 86.5 87.2 177.0 0.4 16.5 76.4 101.5 0.5 39.1 0.6
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1999 7 15354.8 13962.8 16818.6 10088.0 8501.9 15402.0 5014.7 4404.9 3273.1 2749.2 2988.0 580.7 1797.8
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1999 8 16226.3 12955.5 16602.4 9251.9 9714.2 14199.3 5295.8 5551.2 2954.7 2449.6 3872.5 356.9 2221.6
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2017 9 7451.5 5041.3 10198.1 3914.3 4201.0 6212.1 1015.7 3130.4 841.0 995.6 2536.5 283.7 1432.5 157.6
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2017 10 355.7 397.3 1803.4 345.7 796.2 327.5 119.5 905.5 53.9 85.3 525.4 683.4 373.7 482.5 83.8
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2018 9 6890.6 4497.0 9914.6 3470.6 4635.7 6425.2 1221.7 3529.8 1081.1 866.2 2769.0 309.2 1710.5 181.9
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2019 4 139.5 350.0 672.2 266.5 346.7 94.8 67.9 358.8 90.9 82.7 137.8 936.9 79.6 656.3 36.0
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2019 5 1284.6 1934.6 4250.9 1459.4 2155.8 1012.3 801.0 1631.5 651.7 451.4 1117.3 440.3 811.3 274.8
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68.2 66.4 64.7 55.4 16.1 66.2 42.7 26.5 25.5 38.1 2.2 38.3 66.9 30.3 14.7 14.0 3.9 33.6
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2019 6 6228.8 6984.1 12207.8 5355.4 5896.9 7026.3 3254.1 3503.6 2293.5 1547.3 2586.7 149.8 1521.4
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2019 7 16371.4 15665.4 17810.5 11119.9 9786.5 13579.7 5953.2 4970.7 3493.2 3006.4 3404.3 247.6 2161.3
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74.0 1.3 96.1 1.3 0.9 0.2 5.8 30.7 5.8 27.1 16.3
2019 9 6195.0 4450.2 10183.4 3496.8 5164.6 5332.9 1481.1 3601.8 1392.3 892.5 2527.3 353.5 1292.5 222.6
791.3 1012.7 746.2 337.6 290.7 1040.4 1.8 315.4 1003.8 599.3 532.2 326.3 376.4 461.3 86.8 362.8
158.7 147.7 106.0 135.8 48.3 131.5 88.7 55.2 28.5 123.6 1.4 50.1 104.6 82.5 16.9 37.6 2.5
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2019 10 377.6 390.9 1798.2 335.5 826.3 328.3 151.7 1071.4 56.6 85.8 659.5 843.8 299.3 598.3 80.8
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67.1 65.3 52.6 48.0 16.5 51.6 48.8 24.4 24.8 41.3 1.9 36.5 62.7 38.1 12.4 14.7 3.3 35.8
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2021 4 171.2 394.7 567.8 308.5 439.1 90.1 88.1 497.3 115.0 93.9 236.5 808.2 154.0 551.2 42.6
41.5 58.7 34.6 517.5 90.8 45.6 29.1 86.0 100.1 121.5 8.2 22.2 68.5 7.1 48.3 12.5 7.1 6.5
8.4 1.2 7.9 1.6 5.5 2.0 2.5 20.1 55.4 27.2 12.5 34.9 1.7 12.5 2.8 8.9 28.2 5.0 21.9
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2021 5 1586.7 2090.9 4858.2 1626.3 2314.2 1209.7 864.0 1717.8 674.0 474.7 1301.0 426.7 899.4 247.9
325.3 366.1 510.9 189.5 196.7 539.9 2.2 277.8 559.3 237.3 187.2 106.7 148.4 318.1 85.7 149.6
77.5 77.4 60.6 62.4 16.6 71.1 43.2 29.8 25.0 41.5 2.1 38.8 74.5 33.8 10.2 13.8 3.5 42.2
2.8 10.3 0.6 15.7 4.9 10.9 6.9 0.4
2021 6 6298.1 6978.3 12425.7 5381.7 6706.5 7194.7 3798.1 3928.3 2553.6 1532.8 2876.9 168.1 1693.5
101.8 1171.5 1341.6 1174.9 636.5 81.2 1295.2 0.3 835.5 1077.5 554.7 483.9 652.4 381.0 567.6 299.7
365.3 230.6 208.9 186.4 160.8 104.0 135.7 161.8 98.7 100.2 172.6 0.3 24.1 108.5 94.4 2.4 52.5
1.2 87.5 1.8 0.8 0.1 8.0 25.2 6.6 22.4 12.4
2021 7 18924.8 16233.3 17082.1 11401.9 10593.7 14610.6 6545.6 5488.1 3784.2 3005.3 3673.4 150.4 2073.1
100.0 1831.9 2023.5 1523.0 1258.9 52.7 1736.0 0.7 1238.8 1340.1 864.4 794.9 936.0 667.7 661.1 458.5
482.8 399.9 318.0 275.3 249.5 202.1 207.0 217.5 203.2 152.7 250.1 0.4 17.8 133.0 134.8 1.2
74.7 0.8 104.3 1.1 0.3 0.0 4.4 37.6 4.8 28.4 24.0
2021 8 20425.6 15708.8 16436.0 10683.5 10688.0 14470.4 5768.1 5739.8 3462.2 2730.1 3934.5 209.2 2271.4
107.5 1759.3 1906.0 1568.1 1122.6 124.6 1826.0 2.1 1234.8 1489.4 1035.0 896.9 950.0 698.2 657.9
359.9 581.2 376.1 334.5 290.8 259.9 201.5 204.6 214.3 181.7 117.7 236.0 0.3 31.6 139.8 143.3
5.2 83.3 1.5 92.9 1.4 0.8 0.4 6.2 33.9 5.8 26.8 19.4
2021 9 6349.4 4440.6 9949.6 3506.7 5337.5 5357.4 1529.6 3985.5 1193.7 877.9 2876.1 259.2 1605.5 134.7
763.6 1012.4 965.4 328.0 275.5 1204.0 0.9 420.9 1159.2 817.7 757.2 286.7 387.1 520.3 84.9 453.5
165.4 143.7 149.4 134.6 50.5 135.6 129.2 54.4 28.5 151.3 0.7 49.3 116.5 83.1 17.8 38.2 1.6
76.8 2.2 3.6 1.9 7.7 16.6 5.9 17.6 0.8
2021 10 355.1 369.3 1922.8 315.4 1094.5 334.6 189.5 1349.0 64.9 76.5 756.9 688.2 459.0 430.1
96.5 120.7 159.9 19.3 578.4 239.9 16.7 47.0 287.7 325.2 437.4 8.8 121.2 169.0 13.6 123.4 25.7
29.6 20.1 35.2 5.8 44.1 20.9 4.7 4.0 40.4 11.3 63.4 54.3 22.9 43.4 2.8 11.0 18.1 7.8
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2021 11 5.1 12.8 45.0 9.4 56.6 3.5 1.5 89.6 0.4 3.5 46.0 1305.8 7.3 947.2 1.8 2.4
1.1 0.2 747.6 12.2 86.2 0.0 11.8 76.4 99.1 0.0 8.7 9.7 0.2 16.8 1.4 0.4 0.0 2.2 0.1
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2021 12 0.1 0.8 3.5 0.4 6.5 0.4 0.0 2.2 0.0 0.7 4.3 2094.9 0.0 1516.8 0.1 0.3 0.0
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2022 1 0.0 0.4 1.6 0.1 17.9 0.0 0.1 10.8 0.0 0.3 2.8 2821.7 0.2 1968.5 0.1 0.2 0.0
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2022 2 0.3 1.2 6.1 0.8 11.4 0.3 0.0 2.5 0.0 0.6 2.8 2521.6 0.0 1812.4 0.2 0.3 0.0
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2022 3 13.3 12.5 53.7 9.5 28.0 3.8 0.1 44.4 0.3 4.4 19.2 2076.8 3.6 1603.3 2.3 2.5
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2022 4 170.2 419.7 832.0 315.4 404.1 85.0 84.8 503.5 102.1 98.4 209.1 1044.7 116.3 715.5 43.8
46.0 50.3 33.3 502.7 93.5 39.6 24.8 75.3 95.1 116.3 6.5 21.8 56.9 7.2 42.4 14.0 6.8 6.4
8.6 1.3 6.9 2.0 5.5 2.1 3.1 20.0 56.2 21.6 12.6 33.9 1.1 16.4 3.8 10.3 27.7 4.9

22.1 0.2 11.7 0.3 0.0
2022 5 1111.6 1773.4 4514.7 1335.8 2365.4 860.3 951.1 2009.8 740.2 406.9 1339.4 457.1 860.7 286.6
301.6 328.8 510.2 151.5 237.7 564.9 1.9 282.7 537.8 239.9 191.6 138.6 189.7 314.5 108.3 147.2
63.0 105.9 63.5 81.8 20.7 82.8 43.7 23.2 32.2 44.2 1.8 41.0 69.6 38.7 13.5 15.9 2.7 36.3
2.5 9.2 0.9 19.0 5.0 10.2 7.5 0.2
2022 6 6055.3 7409.9 12906.1 5646.4 6858.0 6823.4 3849.0 3868.0 2384.6 1645.7 2872.7 162.3 1713.4
106.9 1207.9 1359.1 1179.7 674.1 87.4 1307.1 0.2 885.4 1094.5 540.4 464.7 603.7 359.9 591.0 288.3
351.5 243.3 199.3 179.9 152.8 114.8 138.9 178.5 105.1 95.4 192.6 0.2 24.8 113.3 111.8 2.8
49.8 0.9 87.0 1.3 1.0 0.1 9.7 28.7 6.9 25.2 12.1
2022 7 15474.2 15176.9 17481.8 10447.0 11098.6 12021.8 6974.6 5532.1 3735.3 2869.7 3823.0 185.9 2178.8
101.5 1862.9 2061.8 1470.5 1162.1 58.8 1759.0 1.3 1216.1 1425.8 917.1 821.4 937.7 607.8 691.3 469.6
541.0 400.1 314.1 263.3 236.7 224.6 208.8 225.1 187.7 157.2 249.0 0.7 21.7 141.8 156.0 0.9
74.4 1.1 113.9 1.3 0.2 0.0 5.9 37.4 5.3 29.4 22.3
2022 8 19497.9 15385.5 16746.5 10293.4 11159.8 13045.2 6093.4 6334.8 3521.3 2646.9 4420.4 202.0 2315.1
111.0 1776.3 1915.6 1595.4 1075.5 137.0 2015.1 2.4 1207.1 1641.1 1063.7 941.1 945.9 611.6 686.2
363.4 606.4 363.2 297.2 293.4 224.8 210.0 195.0 237.5 174.6 119.4 246.0 0.4 36.2 133.8 139.3
5.0 81.5 1.5 94.9 1.8 0.8 0.5 6.1 33.3 6.6 27.8 18.6
2022 9 6899.9 4791.1 9977.8 3663.9 6093.0 5484.9 1893.0 4241.7 1612.7 941.6 3017.6 327.2 1819.7 196.4
759.4 1017.4 1005.5 349.9 278.3 1257.1 1.8 431.9 1228.7 603.9 571.3 412.0 373.6 542.6 98.7 344.6
162.3 155.6 149.6 135.9 50.7 128.8 88.1 57.6 31.6 121.7 1.4 53.3 120.0 88.3 15.8 45.5 2.5
72.6 2.9 3.8 2.0 8.4 12.7 6.9 13.3 2.3
2022 10 515.9 417.0 1748.7 356.0 1080.6 430.3 194.5 1356.8 77.0 86.4 857.8 777.5 538.5 511.2
80.6 109.9 211.1 22.5 659.4 253.6 18.6 58.3 362.2 260.6 372.7 12.5 106.7 219.9 19.3 93.5 25.8
30.8 27.3 32.8 9.0 40.8 16.3 4.5 5.8 25.4 11.9 67.5 64.3 25.9 50.3 2.9 13.2 15.1 9.3
15.9 5.9 12.0 2.0 10.1 3.1 0.1
2022 11 4.3 11.3 40.4 8.8 49.6 3.7 0.1 15.8 0.5 3.6 15.7 1400.1 16.4 983.6 1.8 2.2
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2022 12 0.1 1.9 5.2 0.8 25.3 0.8 2.0 65.1 0.1 0.9 14.0 2067.9 0.1 1580.9 0.2 0.5 0.0
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2023 1 0.0 0.7 2.0 0.2 10.7 0.1 0.0 7.1 0.0 0.6 1.7 2420.4 0.2 1833.4 0.1 0.3 0.0
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2023 2 0.1 1.6 7.1 0.8 12.5 0.2 0.0 6.1 0.0 1.4 2.4 2211.9 0.0 1634.9 0.5 0.5 0.0
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2023 3 8.8 16.6 59.6 12.6 37.6 3.9 0.3 50.7 0.5 5.2 26.1 1790.9 9.3 1384.1 2.2 2.7
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2023 4 160.3 364.6 729.1 277.4 427.1 87.8 79.0 443.1 103.1 89.2 221.2 1154.0 157.1 770.1 40.1
39.4 77.8 28.6 528.4 90.7 56.5 34.3 89.3 137.2 159.4 9.1 31.3 65.2 8.2 65.3 11.8 10.3
10.2 11.8 1.4 10.6 2.8 4.6 2.5 3.7 23.4 55.6 24.8 7.8 36.2 1.3 17.2 3.1 12.4 23.1
5.1 20.9 0.2 11.7 0.5 0.0
2023 5 1234.7 1821.3 4431.7 1415.8 2522.4 1070.0 1073.4 1994.6 850.1 425.0 1440.4 509.2 865.2 369.6
360.4 342.9 547.6 164.5 211.7 582.8 4.7 328.5 586.6 287.9 231.2 149.3 152.8 318.5 94.7 176.9
66.3 78.0 74.3 61.5 19.1 65.5 59.9 26.2 28.2 63.4 3.7 33.5 72.6 35.6 12.9 16.2 5.5 37.3
5.0 8.0 0.8 15.2 7.5 10.1 8.8 0.2
2023 6 6317.0 7124.7 12589.8 5478.7 6687.3 7716.8 3826.9 3882.2 2437.5 1570.3 2745.8 193.2 1685.6

130.8 1194.5 1290.3 1206.2 657.0 101.3 1267.7 0.3 872.4 1036.1 567.4 496.2 618.7 435.3 556.3 303.7
382.2 226.3 230.4 196.6 178.6 100.8 149.5 158.6 100.8 101.4 181.2 0.2 27.9 113.7 113.1 3.9
50.7 1.2 82.9 1.6 0.8 0.1 9.5 25.6 7.3 22.5 12.4
2023 7 17635.9 16030.9 18240.0 11196.8 11208.4 13396.9 6985.3 5556.0 3776.2 3048.7 3721.0 181.4 2299.6
107.8 1891.9 2050.2 1619.2 1243.3 77.3 1770.6 0.7 1229.0 1415.5 915.1 822.7 900.5 716.7 674.5 480.6
511.7 403.3 325.7 290.2 262.0 219.8 226.4 217.8 197.3 159.7 238.0 0.4 25.1 146.6 143.4 2.5
71.9 0.7 104.1 0.9 0.2 0.1 6.1 33.7 6.2 29.0 25.2
2023 8 18630.7 15079.1 16794.0 10283.8 11530.7 12865.8 5893.7 6179.6 3627.5 2671.8 4038.1 244.4 2235.2
113.0 1778.6 1942.5 1472.1 1073.5 130.3 1900.3 1.8 1117.8 1537.5 1033.6 929.3 973.3 738.7 633.8
378.5 573.3 377.0 322.7 273.6 264.0 210.7 222.2 213.4 175.9 123.6 256.3 0.3 38.6 140.8 136.8
4.8 81.4 1.1 97.8 1.2 0.8 0.4 5.6 34.9 6.0 26.4 17.7
2023 9 6674.8 4359.7 10383.5 3437.1 5414.8 5652.2 1657.1 3979.4 1429.7 882.4 2982.9 331.5 1598.6 189.1
825.2 1073.1 998.4 315.4 297.7 1220.0 2.0 387.5 1205.7 729.4 678.3 351.9 350.5 506.0 98.8 418.7
160.5 130.7 154.1 124.5 58.2 124.0 84.5 53.1 32.6 110.4 1.6 54.8 117.7 97.8 18.9 39.6 2.5
77.8 2.8 5.8 2.0 7.7 11.0 6.9 11.6 1.8
2023 10 400.5 411.8 1744.9 351.0 1185.3 324.5 211.3 1269.1 103.7 88.7 714.6 821.6 416.0 542.6
78.3 103.4 150.8 23.3 633.8 211.8 20.0 40.0 280.2 343.4 455.5 16.9 113.3 160.8 14.5 132.5 23.4
31.2 17.4 35.9 6.6 45.1 17.3 4.8 4.7 25.2 12.2 76.8 57.5 29.7 47.7 3.9 13.0 15.7 9.3
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2023 11 6.1 11.0 39.2 9.8 97.3 3.8 1.2 53.8 1.1 3.8 29.8 1403.0 1.8 982.1 1.3 2.0
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2023 12 0.1 1.5 3.5 0.4 63.1 0.4 1.9 49.3 0.7 0.8 11.8 2179.7 0.0 1669.4 0.1 0.5 0.0
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2024 1 0.1 1.1 2.6 0.3 26.8 0.1 0.8 40.1 0.0 0.6 17.8 2615.7 0.5 1890.6 0.1 0.4 0.0
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2024 3 6.0 15.9 57.0 11.4 14.9 2.2 0.0 15.4 0.0 5.0 20.3 1983.9 3.4 1535.8 2.2 2.7
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2024 4 228.8 473.0 881.3 351.8 366.8 118.1 76.1 435.7 96.7 111.1 211.0 1057.1 116.0 668.9 48.7
53.5 47.9 38.1 451.2 81.3 48.2 22.8 83.2 119.3 133.5 9.2 33.5 63.0 15.3 61.4 16.3 11.3
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20.3 0.4 10.1 0.8 0.0
2024 5 1668.2 2129.2 4155.1 1650.9 2458.6 1032.7 1012.2 2048.3 840.1 483.3 1308.3 393.3 812.4 258.4
336.3 340.0 493.9 194.0 204.6 570.2 1.2 288.6 518.7 280.1 232.6 161.5 134.8 305.5 121.0 183.4
71.1 73.1 64.5 56.1 23.8 64.6 39.0 30.1 35.5 48.6 1.3 33.1 70.5 40.8 13.6 17.4 2.2 33.7
2.6 12.1 0.5 15.1 5.6 10.1 6.7 0.2
2024 6 8726.3 8266.7 13010.8 6314.5 6616.1 8906.5 3846.5 3817.2 2396.4 1754.7 2707.0 177.5 1663.9
116.9 1223.6 1420.1 1215.4 740.9 83.4 1248.3 0.2 895.4 1048.9 556.7 480.6 602.2 402.0 566.9 306.3
354.6 253.3 208.0 186.7 165.7 108.7 140.4 146.9 115.7 102.4 173.8 0.2 21.8 110.4 90.3 3.2
51.0 0.8 90.8 1.2 1.4 0.1 9.5 25.8 6.9 21.2 13.3
2024 7 18783.3 16188.0 16703.2 11128.2 11212.6 15156.4 6827.7 5433.3 3769.7 2952.0 3429.7 164.7 1993.1
87.2 1818.8 1961.0 1370.5 1213.1 60.9 1601.3 0.7 1087.5 1229.0 862.0 794.9 905.3 634.7 635.9 472.7
502.6 392.9 303.8 243.4 239.5 226.2 204.7 206.5 195.2 156.3 234.7 0.4 20.4 138.3 132.5 1.5

72.6 0.6 100.3 0.8 0.3 0.1 5.6 34.0 5.6 28.0 21.7
2024 8 22911.3 16822.6 16376.1 11262.4 11523.6 14244.9 5896.4 6297.6 3483.0 2865.5 3745.2 191.8 2174.7
106.2 1788.6 1926.2 1500.8 1161.5 121.7 1818.8 2.3 1077.9 1400.4 1071.3 949.2 936.1 697.6 611.4
386.8 592.7 386.6 309.5 289.9 250.1 223.5 208.4 209.4 192.3 126.7 205.4 0.3 33.8 132.3 127.1
5.0 80.1 1.2 91.9 1.3 0.6 0.4 5.5 27.8 7.1 25.8 16.7
2024 9 7216.5 4816.5 10231.2 3782.8 5069.9 5945.1 1398.1 3780.8 1232.4 944.5 2598.0 312.9 1460.3 183.8
781.7 1064.9 820.8 355.5 294.1 1057.4 1.9 335.9 1069.9 780.0 738.8 288.3 437.2 455.1 90.4 442.3
175.0 159.4 125.8 152.5 56.6 148.2 88.2 60.3 29.5 112.5 1.4 54.6 104.0 75.3 18.0 35.4 2.6
77.7 2.9 6.4 2.1 7.7 11.5 6.6 12.4 1.1
2024 10 351.4 399.7 1799.7 336.6 1055.6 305.1 180.3 1112.7 99.2 90.0 622.1 656.5 293.3 439.5
73.8 104.7 101.7 21.0 592.7 186.6 23.0 26.7 240.6 262.4 377.4 17.7 105.6 129.1 13.5 95.4 24.9
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2026 9 6802.2 4542.3 9554.7 3493.5 5731.5 5731.8 1609.1 4120.4 1386.7 885.5 2589.5 298.6 1352.8 171.2
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2028 6 7639.4 8603.1 14329.7 6584.1 7259.2 7702.2 4284.0 4012.1 2673.7 1886.9 2688.7 213.7 1591.9
130.3 1297.0 1478.5 1191.6 773.6 78.3 1269.6 0.4 829.9 1027.8 612.7 536.5 638.7 367.3 537.3 337.9
398.9 266.5 209.5 188.7 156.3 124.1 125.7 168.9 119.2 113.1 175.0 0.4 20.4 110.0 101.4 3.5
52.7 1.9 93.0 2.0 1.1 0.1 9.5 25.8 7.3 24.6 14.1
2028 7 17363.6 16032.9 17603.7 11155.5 11291.2 13515.1 7087.3 5482.7 4090.1 2982.7 3443.4 208.7 1965.4
116.9 1824.6 2012.2 1365.2 1210.6 60.2 1660.4 1.1 1029.6 1269.2 909.1 801.7 950.7 698.7 585.1 457.2
530.4 402.0 321.9 230.9 257.9 218.3 224.5 213.6 193.7 150.6 227.3 0.7 18.4 133.7 140.9 1.5
73.6 0.9 106.5 1.2 0.3 0.1 5.9 32.9 5.3 27.9 21.9
2028 8 20202.8 16223.0 16795.9 10865.0 11558.8 13746.2 5945.0 6299.8 3618.8 2799.3 3870.8 203.5 2015.7
101.6 1800.8 1966.0 1355.2 1131.8 121.2 1841.6 1.9 932.7 1450.2 1044.1 921.0 961.0 698.1 544.8
329.9 615.6 379.8 294.8 253.8 238.6 201.9 210.9 216.3 185.0 107.6 220.1 0.3 30.6 128.7 117.0
5.8 82.0 1.1 91.2 1.3 0.9 0.5 6.3 28.3 6.5 26.2 16.3
2028 9 6505.8 4457.7 10016.7 3381.4 5584.8 6134.7 1612.1 4073.8 1392.8 853.4 2716.2 285.9 1418.9 152.6
769.7 998.4 767.0 305.4 310.8 1173.2 2.1 299.6 1104.8 843.1 782.7 327.1 314.7 409.8 96.0 500.4
157.7 125.7 110.9 110.4 56.8 117.3 99.0 52.7 30.5 119.2 1.5 51.5 100.0 80.0 19.5 39.5 2.7
67.3 2.9 6.5 1.5 8.3 12.4 7.0 13.7 1.1
2028 10 511.2 483.0 2081.7 396.1 1026.0 397.8 188.7 1305.6 73.9 101.1 694.7 818.8 374.4 541.7
93.8 124.4 118.8 25.9 583.1 212.0 18.7 29.4 259.6 440.4 531.6 11.0 120.2 141.6 13.8 185.2 29.4
28.1 13.2 35.7 5.8 45.6 18.6 5.4 4.0 44.9 11.7 63.8 50.5 20.9 46.3 3.2 12.8 17.5 8.5
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2028 11 6.4 13.9 46.7 11.4 73.8 3.8 0.5 80.1 0.8 3.7 56.2 1270.4 6.8 881.9 1.8 2.4
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2028 12 0.1 1.1 2.4 0.3 32.6 0.2 1.5 23.7 0.0 0.6 15.9 1872.0 0.2 1480.6 0.1 0.4 0.0
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2029 4 190.6 502.1 829.5 393.6 594.4 106.9 129.6 638.0 119.4 118.8 375.7 1102.5 192.5 734.7 54.0
57.0 79.9 44.2 410.9 138.0 47.6 46.8 138.8 168.7 181.4 13.2 20.3 100.6 14.5 76.2 16.2 6.4
10.4 7.6 2.7 6.7 2.3 7.7 4.3 2.6 20.1 45.0 28.0 10.0 28.0 3.1 13.0 4.1 9.6 27.4
4.7 19.6 0.1 9.8 0.5 0.0
2029 5 1892.4 2459.1 4951.6 1861.8 2435.8 1059.0 1028.7 2164.4 793.5 538.5 1701.8 435.9 839.4 279.6
380.0 420.5 498.5 218.2 187.9 718.9 2.5 290.1 666.2 334.1 286.0 160.1 162.5 344.6 132.6 198.2
81.6 88.6 58.9 68.2 26.8 69.8 46.9 35.2 40.1 39.7 2.1 30.8 67.1 36.6 12.0 18.1 2.8 41.0
2.6 11.3 0.9 14.6 4.8 10.8 8.0 0.3
2029 6 7074.0 7787.6 12857.8 5897.8 6745.6 7479.7 3762.3 3841.7 2438.1 1687.9 2660.3 197.2 1590.7
123.7 1235.5 1385.2 1151.6 705.2 71.8 1223.1 0.4 873.0 1030.3 643.0 580.6 614.7 452.1 560.2 296.8
403.0 246.5 223.4 178.9 184.4 100.8 151.4 180.7 108.9 97.3 189.9 0.3 18.7 109.6 100.3 3.3
52.3 1.3 84.5 1.4 1.0 0.1 7.7 27.9 5.5 24.4 13.7
2029 7 16922.2 15640.8 17337.3 10957.5 10455.9 13856.1 6347.1 5187.2 3603.4 2951.4 3342.6 217.3 2174.6
110.8 1914.9 2097.3 1525.9 1201.1 53.3 1595.1 0.9 1110.9 1283.0 974.7 882.0 866.1 637.3 631.3 416.2
569.0 410.3 284.3 264.3 231.6 215.0 206.7 198.1 194.2 137.4 230.3 0.6 15.9 145.5 144.4 1.9
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2029 8 20686.8 16391.6 16600.0 10964.7 10911.7 13639.7 5510.5 5958.2 3408.1 2837.8 3509.5 187.6 1985.0
86.5 1758.6 1918.7 1340.4 1121.8 116.4 1721.7 1.7 922.9 1332.9 1115.8 990.3 891.4 650.5 506.6 349.7
647.0 376.1 290.6 251.0 225.3 209.5 203.9 183.3 184.6 114.1 205.0 0.2 27.3 124.0 121.3 6.2
72.4 1.3 89.2 1.2 0.7 0.4 5.8 27.2 6.5 22.6 15.0
2029 9 7719.1 5143.4 10719.5 3845.6 6208.8 7187.7 1785.3 4221.1 1429.0 977.5 2942.5 337.0 1427.6 186.3
796.2 1039.4 760.5 352.0 281.5 1223.1 2.6 333.9 1183.5 712.3 691.1 328.0 462.3 445.6 93.4 416.4
166.0 164.8 117.3 151.6 54.1 152.7 119.9 61.7 30.7 138.6 1.7 49.1 100.4 58.2 18.3 38.1 2.5
70.0 2.8 3.8 1.5 7.8 13.8 6.1 17.5 1.4
2029 10 288.0 394.9 1803.9 326.3 1410.2 341.5 264.1 1570.8 127.7 88.4 861.9 713.8 395.8 453.8
91.2 114.6 135.1 19.5 575.3 276.9 18.0 40.0 344.7 274.6 396.6 18.9 97.1 164.5 16.2 109.7 25.6
25.5 17.4 28.5 7.4 40.5 10.0 4.4 4.4 22.0 11.9 63.4 45.3 21.2 45.8 3.9 11.8 15.5 8.2
15.3 5.3 9.6 1.8 9.3 1.9 0.0
2029 11 4.3 14.8 41.2 12.2 117.5 4.4 1.6 91.6 1.2 4.0 59.7 1445.0 10.5 1028.0 1.7 2.5
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2029 12 0.1 0.7 2.8 0.4 27.6 0.3 0.3 2.7 0.2 0.7 2.4 2028.2 0.0 1535.8 0.1 0.2 0.0
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2030 1 0.0 1.4 5.1 1.0 15.5 0.2 0.4 19.3 0.0 0.9 8.3 2727.9 0.4 1915.3 0.1 0.2 0.0
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2030 3 8.9 15.4 47.3 12.2 45.9 2.8 0.4 56.6 2.0 4.8 32.4 1898.6 27.8 1388.1 2.2 2.3

5.6 0.6 700.6 10.2 415.6 1.6 6.5 33.0 42.1 0.1 1.3 5.1 0.0 11.0 1.4 0.1 0.3 0.4 0.0
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2030 4 250.1 521.7 773.3 405.9 451.1 111.5 87.7 530.4 127.4 124.5 245.3 1174.5 163.4 882.6 52.7
55.0 66.9 47.0 426.0 94.1 41.2 30.4 99.6 135.1 162.4 12.7 29.7 78.7 8.8 62.0 16.6 9.5
8.1 11.1 1.8 10.6 5.7 8.2 2.8 5.7 20.7 48.4 30.1 10.0 29.0 2.3 13.2 3.5 9.7 27.9
4.3 19.3 0.4 12.1 1.0 0.0
2030 5 1764.7 2276.3 5240.6 1767.0 3052.9 1273.2 1339.2 2468.3 877.7 531.3 1836.6 439.6 981.0 287.5
354.8 416.4 598.7 209.5 167.7 810.5 2.8 395.3 742.9 318.3 262.4 182.9 134.4 395.4 106.2 191.1
77.7 85.8 76.4 59.9 23.0 67.4 59.1 33.3 31.8 45.4 2.3 29.9 76.0 45.7 10.2 18.8 3.9 43.0
3.4 7.9 0.8 14.7 5.5 10.0 9.9 0.6
2030 6 7070.6 8162.0 13119.4 6266.8 7239.7 7911.0 4340.8 4056.2 2613.5 1788.6 2902.7 230.5 1600.3
167.3 1285.6 1441.0 1205.9 751.1 74.9 1349.0 0.4 881.4 1111.6 624.8 564.7 647.6 333.7 587.7 310.0
401.6 256.8 198.9 194.8 146.2 110.3 118.9 177.9 115.4 104.1 189.1 0.4 19.5 109.0 106.7 3.0
54.5 1.6 90.8 1.9 1.2 0.1 8.9 28.2 5.8 24.5 14.8
2030 7 18216.1 16056.2 17517.4 11110.4 11376.2 15013.6 6998.6 5623.9 3816.4 2982.3 3601.3 248.9 2024.1
147.4 1855.9 2020.6 1440.4 1202.1 51.4 1723.4 0.9 1035.4 1344.6 853.5 809.9 897.1 713.7 612.9 435.1
479.5 395.8 331.5 247.5 267.4 207.7 233.7 203.9 193.0 146.3 236.6 0.6 16.3 139.5 128.4 1.5
71.5 1.2 101.1 1.2 0.4 0.0 5.1 33.5 5.3 27.3 22.2
2030 8 19717.8 15804.6 15922.8 10534.2 10918.5 13234.7 5420.3 6033.4 3531.6 2706.1 3681.6 186.8 1927.9
111.0 1759.7 1846.2 1296.6 1080.2 117.3 1734.1 1.8 847.7 1433.4 987.5 942.8 943.5 677.3 525.7 344.3
555.5 366.8 292.1 240.9 232.2 211.6 211.8 211.9 176.3 111.9 203.6 0.3 25.1 124.3 111.1 6.4
76.5 1.2 89.4 1.4 1.3 0.4 4.7 27.5 5.5 26.5 13.4
2030 9 6970.8 4776.3 9965.0 3677.0 5436.5 5811.7 1696.3 3950.6 1465.3 922.2 2772.3 319.5 1291.5 175.3
777.0 1006.3 726.6 333.3 281.9 1186.0 2.5 289.0 1108.5 619.6 614.4 342.4 439.0 416.9 89.5 357.5
166.1 154.4 105.1 145.3 51.2 143.1 89.3 57.0 28.2 112.0 1.8 45.1 90.8 61.3 21.0 37.7 2.8
73.6 3.0 5.4 1.6 7.1 11.0 6.9 13.2 1.4
2030 10 401.7 420.7 1858.8 350.5 1133.0 355.8 188.3 1290.6 59.4 94.5 647.7 678.9 359.0 448.6
75.9 112.6 119.3 21.7 531.9 207.0 20.9 32.0 269.2 349.2 463.1 8.0 147.0 148.1 16.8 145.4 24.7
37.7 14.3 43.9 7.4 55.6 8.1 5.1 4.7 17.8 12.9 53.6 48.8 15.8 42.0 2.1 11.5 17.7 8.2
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2030 11 5.5 9.7 28.0 9.6 38.6 2.8 0.2 39.7 0.3 2.9 35.6 1315.2 1.8 972.2 1.3 1.8 1.1
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2030 12 0.1 0.7 1.9 0.2 24.6 0.1 0.7 11.7 0.1 0.6 4.3 1932.8 0.0 1500.1 0.0 0.2 0.0
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2031 1 0.0 0.6 2.2 0.3 7.9 0.1 0.1 9.9 0.0 0.5 7.3 2722.2 0.5 1965.5 0.1 0.2 0.1
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2031 5 1994.1 1990.6 4762.7 1488.7 2599.6 1471.5 1073.7 2395.2 717.6 438.5 1737.0 514.1 958.7 349.9
341.4 355.3 552.7 169.4 184.6 725.3 1.6 339.3 664.8 326.2 267.1 138.9 196.9 371.3 108.2 193.4
68.7 103.1 67.4 82.2 22.2 89.5 35.2 27.3 32.0 43.6 1.2 32.1 79.3 34.5 12.1 15.4 2.1 36.8
2.6 8.4 0.7 16.4 4.8 9.4 6.1 0.2
2031 6 7750.0 8245.7 12165.8 6386.9 7208.7 7709.9 4088.4 3996.6 2552.8 1795.7 2665.9 251.0 1614.0
185.3 1208.7 1324.2 1189.7 767.9 74.7 1240.3 0.8 864.5 1014.5 564.3 496.5 665.4 420.3 546.9 312.6
374.1 244.5 214.6 190.7 170.2 116.6 141.5 146.8 119.5 103.2 161.5 0.6 17.1 108.2 99.7 3.8
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2031 7 18950.0 16184.3 17338.2 11293.8 11036.6 15899.2 6696.7 5613.9 3628.7 2981.9 3404.8 323.3 1938.5
184.0 1826.2 2039.4 1357.3 1207.0 54.8 1642.4 1.4 1009.8 1250.4 828.0 776.6 886.2 634.5 604.1 439.7
476.4 406.5 302.6 217.1 233.2 207.8 198.5 208.0 196.1 143.2 242.0 0.7 17.6 138.4 149.2 1.8
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2031 8 21084.0 16216.2 16125.3 11060.5 11798.1 13415.3 6283.1 6453.3 3668.1 2811.4 3707.4 219.2 1858.8
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334.7 588.4 373.9 260.0 220.6 194.0 194.8 179.8 166.1 184.1 107.7 203.1 0.4 26.8 127.3 121.3
7.4 78.1 1.8 88.5 1.7 0.7 0.5 5.1 26.4 6.4 20.2 18.3
2031 9 7203.2 4815.7 9636.9 3715.2 6222.6 6569.3 1891.3 4231.0 1611.9 920.1 2593.5 220.5 1283.2 116.3
760.8 962.3 734.2 334.5 306.0 1154.1 1.7 298.4 1051.8 798.7 759.8 391.2 337.7 379.2 71.4 456.3
161.1 120.1 118.2 112.3 39.8 119.1 92.3 57.2 22.6 111.9 1.3 48.6 87.7 66.1 21.6 42.2 2.1
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2031 10 521.3 456.4 1668.1 391.4 1073.6 306.1 184.7 1219.1 80.2 103.0 636.2 682.2 291.6 467.3
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26.7 10.6 29.3 4.6 39.2 17.1 5.3 3.1 32.9 11.7 66.6 39.3 21.4 43.9 2.9 11.3 13.5 8.0
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2031 11 6.3 12.4 39.1 9.8 26.0 3.4 0.1 12.3 0.3 4.2 35.7 1171.9 1.5 855.2 1.5 2.3
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2064 5 1829.4 2477.8 5210.8 1924.6 3131.2 1497.2 1379.8 2462.4 992.3 574.2 1816.6 517.4 1016.0 276.2
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84.8 67.7 74.8 50.3 29.0 55.7 59.2 36.5 38.3 52.5 1.5 22.9 83.1 42.8 9.2 23.6 2.7 41.2
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2065 7 18134.7 14174.6 15339.4 9880.3 10797.5 14933.8 6379.3 5283.1 3798.6 2611.9 2969.8 192.6 1893.6
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2065 8 15661.4 12067.7 13855.3 7625.9 10227.7 10313.6 5217.2 5540.4 3507.0 1977.3 2776.6 212.5 1261.3
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2066 4 313.4 681.0 1028.8 533.4 736.6 135.1 178.7 812.9 181.6 163.6 440.8 1084.8 251.2 580.6
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2066 6 7573.3 8302.2 12457.5 6449.8 7251.7 8026.3 4189.5 4212.4 2500.9 1843.3 2839.8 219.5 1812.1
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2066 7 15656.4 13954.4 16246.4 9726.4 10016.6 12042.7 5907.8 5178.3 3530.9 2634.3 2927.5 242.1 1764.8
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2066 9 5487.3 3559.3 8160.3 2510.7 6008.7 5242.7 1729.1 4080.6 1547.1 653.4 2227.2 329.6 793.6 208.5
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2066 10 377.5 336.1 1283.5 269.4 1255.1 235.3 200.7 1315.9 99.3 71.3 567.7 848.5 233.7 611.4
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2067 6 7975.2 8262.6 14754.7 6420.4 7735.1 9796.2 4411.5 4477.4 2704.5 1786.7 2750.0 206.0 1760.1
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2067 7 17672.3 15015.6 16325.4 10583.5 10507.8 12570.1 6379.7 5271.4 3903.4 2791.8 3066.8 226.7 1875.3
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0.0 0.0 0.0 0.0 104.5 49.7 0.0 0.0 35.7 0.0 52.2 0.0 39.8 44.4 5.1 10.7 0.0 7.8 0.0
0.0
2100 1 0.1 0.8 2.5 0.4 74.1 0.2 1.8 82.6 0.0 0.4 33.7 2308.2 2.0 1546.6 0.1 0.2 0.1
0.0 723.6 7.0 603.6 0.0 3.6 94.9 115.4 0.5 0.1 2.7 0.0 24.8 0.1 0.0 0.0 0.0 0.0 0.0
0.2 0.0 0.0 0.2 102.0 56.9 0.4 0.0 47.7 0.0 47.5 0.0 34.8 45.2 5.9 14.4 0.0 6.6 0.1
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2100 2 0.2 1.4 4.1 0.6 30.9 0.3 0.0 45.7 0.0 0.5 24.2 2372.9 1.3 1287.0 0.3 0.4 0.1
0.0 647.1 5.0 447.7 0.0 4.1 40.9 47.1 0.0 0.1 1.9 0.1 10.5 0.2 0.0 0.0 0.1 0.2 0.1
0.0 0.0 0.0 0.1 68.2 70.1 0.5 0.0 36.7 0.0 32.1 0.0 24.2 39.0 6.9 15.9 0.0 5.3 0.0
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2100 3 5.5 14.5 47.4 11.5 63.8 1.9 1.2 69.7 2.0 3.2 56.9 1875.4 25.9 1128.3 1.8 2.4
17.0 0.4 610.4 19.3 194.9 0.4 16.2 40.3 59.7 0.1 2.1 6.1 0.1 8.1 1.1 0.1 1.4 0.5
0.2 0.7 0.2 0.2 0.0 0.2 36.8 73.1 7.5 0.3 34.4 0.0 20.4 0.1 15.9 28.6 7.4 21.5 0.0
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2100 4 340.1 648.3 761.6 507.6 734.2 117.0 147.8 745.3 154.3 160.5 296.6 0.0 203.0 0.0 61.9
68.1 91.9 68.1 0.0 129.2 0.0 20.5 137.5 205.9 198.9 17.9 32.8 62.1 13.6 88.0 18.2 10.8
10.3 12.0 2.6 11.2 4.8 10.0 4.0 6.2 0.0 0.0 29.9 13.2 0.0 2.5 0.0 4.5 0.0 0.0 0.0
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2100 5 2012.8 2349.2 3788.7 1786.5 2931.3 894.6 1164.0 2405.2 957.9 565.1 1644.6 0.0 906.1 0.0
324.4 371.7 543.1 235.2 0.0 760.8 0.0 190.6 647.8 397.5 297.4 226.9 166.3 268.4 132.0 264.9
74.8 78.1 66.8 65.4 32.1 69.7 75.8 36.0 39.9 68.5 0.0 0.0 73.8 31.3 0.0 23.7 0.0 39.1
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2100 6 7425.4 7405.8 10168.7 5686.1 7070.2 4590.4 3596.8 3966.6 2405.1 1718.2 2638.6 0.0 1723.8 0.0
1075.3 1240.0 1212.5 738.7 0.0 1254.1 0.0 603.6 1014.7 513.1 498.8 637.2 426.3 401.9 318.5 390.2
223.9 228.1 190.3 183.1 124.8 146.7 185.7 115.7 107.9 181.0 0.0 0.0 114.9 101.7 0.0 54.4 0.0
90.0 0.0 0.0 0.0 0.0 26.6 0.0 25.8 12.7
2100 7 15758.8 12356.0 12504.1 8816.1 9267.8 9410.4 5093.4 4503.7 3351.8 2521.2 2723.2 234.9 2061.2
118.1 1385.9 1568.3 1395.5 1032.0 39.9 1330.8 1.2 521.9 1062.3 665.6 725.5 694.1 522.5 472.8 341.4
393.0 316.2 249.5 186.7 197.1 171.1 199.6 193.7 169.7 114.6 225.8 0.7 10.1 151.3 122.2 2.0
57.1 0.9 99.2 1.1 0.4 0.1 4.6 32.0 4.4 26.7 11.8
2100 8 14174.5 9667.8 10921.2 6108.7 9039.3 7010.6 4175.1 4426.4 3036.5 1717.0 2078.9 270.7 1171.9
133.9 1016.0 1141.2 658.8 613.2 107.0 1175.8 2.4 260.4 848.9 725.4 807.2 576.6 368.8 267.4 190.8
384.5 227.8 151.7 100.6 112.1 110.8 125.2 85.8 103.9 59.8 116.0 0.4 18.6 99.4 95.0 7.1 37.5
1.3 76.4 1.4 0.9 0.3 5.3 11.9 5.2 11.7 8.1
2100 9 4493.8 2647.3 5882.0 1894.1 4743.6 2758.2 1395.3 3372.4 1212.2 523.2 1735.6 393.7 623.6 206.1
443.9 545.2 316.0 157.4 305.5 872.9 3.7 96.5 733.0 437.7 534.2 213.2 196.0 176.3 44.8 246.2
96.4 58.1 46.6 59.0 28.1 71.1 43.3 28.4 14.1 69.0 2.8 34.1 52.5 43.6 23.5 19.3 3.3 54.0
3.6 4.8 1.5 6.2 5.5 5.6 7.1 0.4
2100 10 190.9 163.7 560.3 134.1 451.9 62.6 84.4 449.2 45.5 35.5 200.4 795.8 12.6 548.9 19.5
27.6 2.4 6.0 541.1 69.6 26.6 0.2 90.6 89.3 157.4 2.6 40.8 3.0 5.0 30.8 8.0 7.0 0.0
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9.1 0.4 8.2 0.6 0.0
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Computed monthly glacier runoff (in 10^6 m^3 per month) for 56 macroscale drainage basins over the period 1980 to 2100 for RCP4.5. Runoff refers to multi-model means of 14 GCMs.
Glacier runoff is defined as runoff from the initially glacierized area (i.e. including runoff from precipitation and snow melt in the growing deglacierized portions, see Methods).
Glacier runoff from each glacier basin (initially glacierized by 100%) is computed individually and then the runoff from all glaciers within the same macroscale drainage basin is summed up.
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Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year Month Glacier_runoff (mio. m^3 per month)
1980 1 0.0 0.2 0.5 0.1 0.0 0.0 0.0 0.0 0.0 0.2 0.0 2556.5 0.0 2013.7 0.0 0.0 0.0 0.0 782.2 0.0 873.5 0.0 0.0 0.3 2.1 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 156.7 38.4 0.0 0.0 48.7 0.0 62.5 0.0 54.5 43.4 3.8 25.4 0.0 12.9 0.0 0.0
1980 2 0.0 0.3 1.9 0.1 19.6 0.0 0.0 0.0 0.0 0.5 0.4 1796.6 0.0 1551.2 0.0 0.0 0.0 0.0 808.5 0.0 494.1 0.0 0.0 3.2 2.3 0.0 0.1 0.0 0.0 0.7 0.2 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 97.2 34.8 0.0 0.0 52.4 0.0 64.1 0.0 50.1 37.0 3.1 25.9 0.0 11.4 0.0 0.0
1980 3 0.4 3.8 17.2 2.3 9.8 0.1 0.0 1.0 0.0 1.7 1.2 1852.8 0.0 1929.0 1.5 0.8 0.0 0.1 661.5 0.3 714.9 0.0 0.1 2.0 6.6 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.2 0.0 0.0 126.9 41.2 0.0 0.0 47.6 0.0 47.5 0.0 40.2 38.7 8.1 33.5 0.0 17.7 0.0 0.0
1980 4 92.4 133.0 390.8 108.1 438.5 36.2 73.8 412.3 106.2 32.6 132.6 205.5 122.3 140.9 18.3 14.0 74.1 9.4 390.4 54.7 5.2 35.2 39.6 84.1 122.2 10.4 4.2 30.6 3.3 36.6 7.2 0.6 11.5 1.7 0.6 1.1 0.5 1.7 1.0 2.4 6.1 36.9 22.7 2.9 24.2 1.7 7.1 1.6 5.0 19.3 1.7 36.6 0.2 17.1 0.1 0.0
1980 5 991.6 902.9 2674.3 669.3 1553.6 604.6 608.2 1170.3 514.3 194.8 955.0 433.0 858.4 304.8 131.5 168.3 659.7 63.2 149.6 387.5 0.8 249.4 446.6 244.5 204.8 54.5 32.8 248.6 45.6 176.5 41.5 11.8 80.7 12.4 7.9 22.9 47.0 11.3 13.4 15.6 0.8 27.5 59.7 30.7 5.5 6.0 3.7 29.1 4.0 5.2 0.3 28.0 1.6 17.8 10.6 0.1
1980 6 5857.2 4765.6 11776.3 3916.6 5299.0 6922.2 2870.4 3073.4 1732.7 1063.4 2519.2 135.2 1437.5 82.9 930.5 1198.4 1163.2 423.3 86.4 1082.1 0.1 970.1 940.1 544.0 488.6 356.2 163.6 534.3 213.1 345.4 207.1 100.4 225.5 72.4 61.2 74.8 210.4 70.5 70.8 202.3 0.1 25.5 84.1 72.9 1.0 32.4 0.7 104.8 1.4 0.6 0.1 20.2 30.5 15.1 28.6 6.5
1980 7 16503.9 11068.7 14995.4 8347.2 8233.8 11584.5 4686.1 4211.7 2873.4 2154.5 2912.6 246.3 1834.5 215.8 1546.2 1706.3 1406.0 891.2 43.3 1356.7 2.1 1358.0 1063.1 657.4 532.6 761.8 294.2 593.1 481.9 453.5 335.7 187.5 253.1 135.6 187.4 138.2 262.9 142.4 161.7 241.8 1.1 16.7 124.6 145.2 0.1 67.5 0.6 122.7 1.6 0.1 0.0 9.9 36.2 8.3 34.9 17.3
1980 8 15382.6 11074.6 14459.4 8426.4 7110.2 10502.9 3534.8 4063.1 2205.7 2130.8 2913.6 126.2 1864.4 86.0 1651.9 1662.3 1328.6 874.6 77.6 1327.9 2.5 968.2 1138.5 818.9 669.9 524.9 527.4 704.7 392.8 574.5 323.2 289.1 198.9 214.9 171.0 182.6 277.0 140.1 132.5 307.9 0.3 23.6 118.3 110.3 0.9 46.4 2.5 90.3 3.2 0.4 0.0 14.1 42.9 9.1 35.9 6.0
1980 9 4371.8 2582.7 8056.3 2095.2 3067.4 4113.8 676.1 2288.5 620.4 520.2 1903.3 176.2 1481.3 75.3

601.1 706.7 949.9 185.2 144.9 647.9 0.2 222.3 869.9 491.6 432.0 90.1 360.0 581.3 89.1 326.5
119.3 171.3 111.3 141.1 42.3 124.2 128.6 35.0 30.3 123.8 0.0 25.8 117.9 56.7 7.8 13.7 0.5
62.7 1.5 3.6 0.7 14.0 12.3 6.4 21.5 0.0
1980 10 308.1 247.3 769.2 195.0 1293.7 148.6 226.7 1651.9 52.9 51.8 869.6 348.6 469.1 244.3 28.0
33.2 227.2 13.1 348.3 265.1 6.9 74.8 291.9 18.2 100.8 3.8 28.3 244.5 10.5 8.5 14.1 6.5
34.0 8.4 3.5 11.5 0.7 3.5 2.5 3.0 5.7 39.5 52.3 13.9 24.6 1.3 5.6 5.2 6.0 11.3 5.0
19.8 0.2 12.5 0.1 0.0
1980 11 2.2 4.2 22.5 2.8 100.9 1.6 0.0 48.7 0.4 1.5 35.7 900.3 0.4 786.5 1.6 0.8 0.4
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1980 12 0.1 0.4 4.4 0.2 0.0 0.0 0.0 0.0 0.0 0.3 0.0 1713.1 0.0 1565.9 0.1 0.2 0.0
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1981 1 0.0 0.1 0.5 0.1 204.9 0.0 3.3 116.3 2.1 0.1 15.2 2166.2 0.4 1788.3 0.0 0.0
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1981 2 0.0 0.4 3.2 0.1 6.3 0.0 0.0 0.0 0.0 0.3 0.1 2311.2 0.0 1715.3 0.3 0.1 0.0
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1981 3 1.1 3.4 15.8 2.0 63.8 0.3 0.4 40.9 5.0 1.6 16.5 1165.0 2.7 1242.3 0.9 0.6 0.6
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1981 4 45.7 174.6 226.9 132.3 74.2 34.2 6.6 67.2 29.8 45.7 26.8 817.6 17.4 654.4 20.2 15.4
12.1 13.5 381.9 10.3 44.8 3.2 11.2 66.1 114.2 3.0 22.6 10.1 2.6 39.1 6.5 6.2 1.0 8.5
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1981 5 1148.3 934.9 2823.8 728.0 3002.7 592.4 1225.7 1950.8 914.7 205.1 1361.8 328.8 663.8 191.0
138.4 191.8 436.7 70.8 184.7 570.6 3.2 369.5 566.4 119.1 101.3 156.1 55.5 306.0 39.5 102.9
47.1 23.8 53.7 22.5 7.0 36.7 48.8 12.1 11.1 33.2 3.5 27.5 48.8 9.3 10.3 20.2 7.4 31.6
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1981 6 3196.6 4543.7 10409.1 3627.2 4910.1 4724.9 2492.0 2547.7 2175.2 1081.7 1756.6 151.4 759.5 119.8
1016.1 1146.7 542.7 432.3 63.0 825.5 0.1 477.9 659.3 274.9 235.1 514.7 263.6 354.3 211.1 268.5
200.3 162.8 69.4 122.2 57.1 110.7 97.0 70.3 70.6 54.2 0.1 19.0 80.3 97.1 0.4 42.2 0.8
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1981 7 16339.5 11550.2 16047.8 8359.6 7817.5 13864.3 4062.9 4232.1 2700.8 2208.0 3053.6 116.8 1933.1
62.9 1658.5 1795.5 1525.3 913.5 53.5 1336.9 0.1 1192.4 1169.7 488.9 426.3 630.4 388.1 668.0 453.0
368.5 342.5 256.5 294.3 171.4 175.1 160.2 186.7 150.0 154.4 225.7 0.2 20.1 120.4 132.4 0.3
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1981 8 14489.0 10932.6 14565.7 7749.5 10919.7 10743.4 4362.9 5783.1 2839.9 2097.5 3592.2 195.1 2569.2
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1981 9 3893.5 2937.7 7919.0 2356.4 3164.0 3598.6 724.0 2906.8 637.9 622.4 2629.3 342.4 1490.9 214.9
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1982 5 630.7 909.3 2216.0 727.4 757.6 214.7 192.1 660.6 250.2 204.2 396.8 552.3 364.1 454.9
148.7 152.5 186.5 73.8 130.1 168.0 1.5 72.7 181.1 72.0 60.9 13.9 69.9 90.4 37.5 51.6 34.9
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1982 6 3205.3 4228.7 11256.2 3411.2 4750.2 4998.0 2432.1 3130.0 1535.5 973.2 2768.5 53.2 1893.4 10.4
843.3 1096.1 1338.3 391.5 64.9 1117.3 0.0 887.2 1083.1 454.5 361.6 340.7 365.1 632.4 191.4 365.5
198.1 207.2 226.1 156.0 58.7 138.3 91.9 64.9 62.3 46.1 0.0 19.5 119.7 54.3 0.6 32.9 0.3
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1982 7 12142.5 10856.6 14978.7 8104.2 8071.5 12060.9 4977.3 4439.2 2777.7 2213.8 3457.2 251.0 2142.0
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511.5 307.4 338.9 277.9 261.8 181.2 207.5 201.1 147.2 148.6 212.4 0.3 14.9 126.5 142.6 0.0
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1982 8 17276.3 10763.5 13648.4 7396.8 7372.9 12099.4 3777.9 4608.2 2437.7 1887.7 3527.9 225.7 1953.3
118.5 1378.0 1493.6 1458.8 768.2 62.2 1593.2 2.1 1077.9 1227.1 530.8 466.7 606.1 463.0 692.1 359.9
367.4 273.1 280.0 269.0 197.9 168.1 167.6 203.0 127.5 119.7 165.7 0.3 21.4 125.7 96.4 0.4
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1982 9 2327.3 2511.7 9769.1 2051.5 4591.8 3188.6 1282.4 3449.3 1101.0 551.2 2877.5 201.0 1630.0 90.8
705.8 952.5 1010.4 205.6 93.7 1067.9 0.7 473.3 1170.8 167.5 175.7 174.8 522.0 728.9 74.4 94.9
139.6 267.8 144.0 218.8 35.5 172.4 65.5 37.3 24.1 35.1 0.6 31.1 109.9 61.3 1.5 21.9 1.1
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1983 5 469.3 851.9 2239.8 688.3 1626.9 443.5 565.9 1419.0 531.7 197.3 1333.9 456.7 854.3 475.9
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1983 6 3088.3 4337.3 8810.1 3547.5 5254.2 2619.5 2865.9 3224.8 1891.5 1025.5 2639.0 202.6 1391.2 77.9
964.6 844.2 1025.2 402.8 99.4 1197.9 0.1 821.7 945.8 406.8 352.4 462.2 323.9 504.0 213.4 308.2
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1983 7 11195.5 9948.0 14334.9 7845.4 8712.3 10851.1 5289.5 4655.0 2976.6 2081.8 3346.6 5.1 1885.4 3.3
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1983 8 20417.6 11299.6 14318.1 7940.0 7869.0 12297.9 3527.7 4792.6 2735.8 1883.1 3879.4 99.9 2309.5
71.8 1337.8 1521.3 2031.6 772.1 100.4 1653.2 1.9 1228.2 1450.0 686.4 600.1 668.5 593.8 850.9 359.4
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1983 9 8374.6 3284.7 8613.1 2388.3 2204.6 6286.7 296.2 1775.8 388.5 527.1 1412.6 123.2 688.5 145.0
697.3 799.9 433.7 186.9 185.9 503.1 1.5 113.8 638.4 165.6 161.4 58.3 355.6 440.1 64.4 111.6
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1983 10 125.7 178.9 1767.4 143.8 631.2 238.6 59.4 631.1 11.6 35.2 389.2 548.1 172.5 334.1 122.2
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1983 11 0.5 4.1 20.2 2.8 40.1 1.0 0.0 0.1 0.4 1.5 1.7 1234.7 0.3 899.0 0.9 0.7 0.3
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1984 4 76.8 143.5 336.6 109.1 274.3 39.9 34.6 323.4 18.0 34.4 99.0 877.9 22.9 645.4 22.9
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1984 5 914.3 835.4 3509.6 624.7 1475.5 962.2 426.0 1171.1 379.3 176.5 680.7 46.7 165.6 43.5
153.6 168.5 96.6 60.4 174.7 366.8 0.1 66.4 228.2 205.5 178.2 29.1 12.3 81.1 29.9 104.6 39.4
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1984 6 9192.0 5213.2 10490.3 4014.2 4978.4 9391.0 2878.7 2921.3 2261.6 1090.7 1842.5 18.3 1153.7 8.0
923.0 1113.9 885.8 443.4 62.5 899.7 0.0 688.6 687.2 667.3 586.0 559.7 205.1 377.9 196.0 420.9
195.1 111.3 125.3 90.1 62.4 85.6 112.2 71.3 65.1 149.7 0.0 14.9 80.4 64.9 1.2 47.4 0.0
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1984 7 17036.7 11284.5 14214.4 8196.0 7078.2 12650.9 3920.0 3893.5 2915.6 2120.6 2710.9 190.9 1772.6
89.9 1622.9 1611.9 1353.5 876.8 88.3 1224.0 0.0 1053.7 967.0 926.0 796.3 698.5 446.1 544.4 416.6
575.1 316.1 227.1 232.9 182.5 171.1 161.2 168.1 141.1 138.8 185.7 0.0 25.3 121.4 136.6 0.9
58.0 0.1 92.5 0.2 0.1 0.0 13.1 27.9 16.3 24.0 14.1
1984 8 26323.3 12123.1 14548.0 8509.5 7792.6 14498.8 3494.8 4716.9 2502.4 1995.6 3430.1 264.2 1881.8
92.1 1355.6 1526.1 1626.2 818.7 129.9 1583.8 0.6 1221.4 1164.8 997.7 837.3 646.6 404.2 607.9 370.8
533.1 291.8 230.0 326.8 165.1 178.2 142.4 179.3 132.3 124.2 180.4 0.0 40.1 125.2 87.6 4.2
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1984 9 4040.7 3078.9 8119.3 2552.2 3468.8 2914.7 835.8 2514.7 955.9 654.8 1597.0 223.4 562.6 97.1
554.6 641.3 371.7 250.3 164.1 659.8 0.3 98.0 536.6 450.3 414.8 192.7 148.6 275.5 77.4 252.1
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1984 10 236.0 200.0 1830.2 156.4 394.4 276.7 40.7 286.6 21.1 41.2 157.3 456.4 40.2 344.9 44.5
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1985 5 427.8 850.1 2819.2 664.5 956.7 454.6 212.4 751.0 247.3 189.0 536.2 377.3 642.4 292.1
198.0 177.2 436.2 67.1 133.9 172.4 1.8 127.3 291.7 197.5 165.1 11.0 37.0 192.4 43.7 127.3
39.6 29.4 53.5 18.0 7.5 28.6 45.6 11.4 12.9 9.4 1.3 19.9 52.4 51.7 11.0 1.4 1.8 25.0
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1985 6 3223.7 4027.5 9412.2 3289.2 2633.4 5285.1 1408.0 1926.9 1199.3 933.2 1545.7 163.4 1085.2 163.5
863.5 941.9 777.4 372.8 29.3 601.7 0.6 514.6 649.9 373.8 324.2 226.0 179.7 361.9 200.1 295.0
176.7 86.8 92.8 76.4 58.3 74.8 154.3 61.8 65.6 161.7 0.6 9.9 87.2 74.8 0.7 22.4 3.3
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1985 7 17757.1 11147.0 15883.3 8387.8 7018.9 13137.8 4342.0 3587.2 2839.0 2156.7 3111.0 21.9 2248.0
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375.6 310.4 336.7 330.8 240.1 180.7 203.5 210.8 145.4 153.1 242.4 0.2 9.1 163.4 81.6 0.2 63.9
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1985 8 17177.6 11705.0 13073.5 8058.6 6108.3 11627.3 2813.5 3150.2 2491.7 2059.6 2349.9 53.0 2111.5
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1985 9 5937.1 3063.6 8996.8 2606.9 2962.6 4644.8 573.0 2102.8 664.6 614.4 1630.0 313.5 719.2 232.6
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1985 12 0.0 0.5 3.4 0.2 46.8 0.0 0.0 2.3 0.0 0.4 0.9 2816.2 0.0 2197.1 0.1 0.1 0.0
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0.0 0.0 0.0 0.0 59.5 29.7 0.0 0.0 35.9 0.3 40.1 0.0 31.0 39.4 2.0 15.0 0.0 10.4 0.0
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1986 1 0.0 0.2 1.7 0.1 23.1 0.0 0.0 35.3 0.0 0.2 3.9 2542.5 0.2 1941.1 0.0 0.0 0.0
0.0 579.8 1.8 982.3 0.0 0.5 0.3 2.1 0.0 0.0 0.6 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 149.3 36.1 0.0 0.0 50.1 0.0 48.0 0.0 42.6 44.7 3.8 17.4 0.0 5.6 0.0
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1986 2 0.1 1.3 5.1 0.6 0.0 0.0 0.0 0.0 0.0 0.6 0.0 2052.1 0.0 1544.9 0.1 0.1 0.0
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1986 3 0.5 5.3 21.9 3.3 1.8 0.1 0.0 4.2 0.0 2.1 30.3 1369.7 2.9 1176.4 0.7 0.8 1.1
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1986 4 68.6 174.9 220.1 136.3 38.4 20.4 2.2 38.6 0.5 38.3 31.3 562.5 16.1 325.4 16.6 14.5
8.8 12.0 297.1 9.1 27.5 1.9 13.0 57.1 82.9 0.0 2.2 10.4 1.4 28.9 6.2 1.3 0.7 1.3
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1986 5 238.2 863.4 2211.3 688.6 1043.7 243.7 218.8 817.9 313.4 202.4 512.0 396.7 383.7 290.4
177.4 169.7 311.1 69.8 85.6 189.0 1.1 76.3 194.5 84.1 63.6 26.7 123.7 94.1 24.5 59.4 34.9
104.2 40.8 61.3 4.6 68.2 36.9 13.6 6.6 51.4 1.2 17.7 50.9 8.5 3.8 2.9 2.7 17.9 3.7
3.1 0.0 14.4 4.5 12.1 3.9 0.0
1986 6 4455.8 4655.2 10547.0 3683.4 3875.3 6103.6 2081.4 2664.1 1594.2 1061.4 2164.0 143.0 1431.1 61.3
966.1 1114.2 1229.1 418.6 39.5 920.9 0.1 673.1 823.6 542.8 477.8 393.7 306.0 463.8 201.3 315.8
184.5 166.8 195.9 131.6 56.0 122.9 182.0 71.5 66.4 163.6 0.0 12.3 105.0 86.2 0.6 32.1 0.6
78.3 1.4 0.5 0.0 8.0 23.4 7.4 24.5 7.9
1986 7 17036.6 12294.8 15566.0 8664.0 8150.9 12057.3 5099.2 4080.9 3329.3 2241.2 2967.8 294.6 1594.5
159.5 1544.4 1774.3 1126.7 929.4 16.4 1376.2 0.3 1111.9 1066.1 606.9 516.7 753.3 517.8 591.5 461.7
425.8 323.6 252.5 197.9 204.4 185.3 179.3 176.0 152.4 156.0 204.6 0.2 6.6 95.7 127.1 0.0 57.5
0.8 97.5 1.4 0.1 0.0 3.3 30.9 4.5 23.4 16.8
1986 8 16016.1 11806.2 14131.8 7839.3 6363.5 10996.8 2842.3 3803.0 2350.3 2033.4 2877.5 270.6 2258.8
113.7 1438.0 1551.2 1693.1 839.0 43.5 1204.2 1.0 1113.2 1091.9 742.2 574.9 641.7 508.2 647.6 374.4
462.2 290.4 309.3 336.2 215.7 164.1 177.3 150.7 139.5 125.6 127.5 0.1 13.8 163.6 145.9 0.8
56.4 0.6 84.2 1.5 0.3 0.1 5.9 17.8 5.1 21.2 6.7
1986 9 3754.4 2893.6 8749.9 2430.7 3387.6 3674.2 938.8 2002.7 1000.7 621.7 1838.9 314.3 886.4 183.4
549.8 819.2 464.6 232.4 144.9 702.0 2.3 208.0 745.3 337.0 298.3 186.3 308.4 472.1 82.3 231.5
128.3 163.9 47.3 139.1 38.0 116.8 6.2 42.1 27.4 26.7 2.1 41.2 94.2 115.2 5.1 24.7 2.6
80.4 3.7 1.7 0.5 10.2 2.9 7.8 1.7 0.4
1986 10 351.1 278.6 745.5 240.3 1130.7 125.3 198.2 1181.2 37.4 59.6 1290.3 623.1 606.2 387.7
32.9 31.2 242.1 15.7 334.7 354.6 6.6 75.9 643.4 40.2 122.4 4.6 124.3 456.1 9.4 15.7 10.6
42.7 27.1 46.1 4.0 46.2 4.8 4.0 2.9 15.3 6.3 35.7 66.7 17.8 25.2 2.1 5.7 3.0 6.4
9.0 1.5 13.8 1.0 9.6 1.0 0.0
1986 11 1.7 3.7 22.7 2.8 14.3 1.6 0.1 0.0 0.0 1.3 2.2 1552.0 0.1 1393.5 1.0 0.4 0.2
0.1 323.9 0.0 125.5 0.0 0.2 1.7 8.5 0.0 1.5 0.4 0.0 0.0 0.5 0.0 0.0 0.6 0.0 0.6
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1986 12 0.0 0.3 1.5 0.1 125.3 0.0 2.5 22.8 0.0 0.2 3.5 1891.8 0.0 1455.7 0.2 0.0 0.0
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1987 1 0.0 0.2 0.8 0.0 15.3 0.0 0.2 19.4 0.0 0.0 0.5 2295.4 0.0 2060.7 0.0 0.0 0.0
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1987 2 0.0 0.4 3.6 0.1 4.0 0.0 0.0 0.8 0.0 0.2 2.0 2251.3 0.0 1810.1 0.4 0.2 0.0
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1987 3 4.4 5.2 22.5 3.0 0.8 0.5 0.0 0.1 0.0 1.6 0.7 1717.1 1.6 1546.1 2.0 1.0 0.1
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1987 4 50.0 161.5 268.5 117.7 186.9 44.2 32.5 309.5 52.5 38.6 108.0 1471.7 86.4 1210.6 18.4
14.6 49.5 10.9 411.1 46.4 39.6 18.1 34.2 58.7 95.9 2.8 23.6 30.4 3.4 27.3 7.3 6.2 6.5
8.6 0.7 7.0 1.6 2.1 0.9 0.6 19.4 49.4 25.6 1.4 24.4 0.6 15.1 1.1 14.0 19.3 3.2 34.9
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1987 5 167.8 884.1 2181.7 698.3 1665.8 192.2 471.6 1201.5 415.3 208.8 656.1 440.5 636.6 226.5
171.9 139.2 442.6 69.3 159.7 282.8 0.2 174.7 291.1 232.0 204.2 37.4 20.3 154.4 49.7 145.7
33.5 7.1 53.5 8.3 9.0 14.5 10.9 11.8 14.3 10.8 0.2 29.6 73.4 31.3 5.9 4.5 0.9 16.7
1.7 6.9 0.3 22.5 1.4 17.0 2.3 0.0
1987 6 2528.3 4591.8 10432.9 3630.2 3508.5 4928.2 1700.4 2366.6 1484.0 1112.5 1995.7 364.4 1572.4

303.6 1055.4 1131.6 1195.2 442.1 59.0 821.1 0.3 752.6 811.3 409.8 333.5 347.3 190.5 473.1 235.6
321.2 188.3 98.2 201.1 79.0 69.0 81.4 94.3 70.6 78.4 140.3 0.3 20.7 104.1 90.8 0.5 33.9
0.8 82.7 2.4 0.5 0.0 15.7 20.7 14.1 16.2 8.3
1987 7 8653.0 10463.9 16218.1 7856.1 7647.3 10676.5 4928.6 4159.2 3041.6 2234.0 3501.7 165.3 2068.9
81.0 1679.8 1740.6 1724.6 919.2 22.8 1604.7 1.9 1338.4 1247.9 748.4 648.4 770.3 535.2 702.2 470.6
493.2 329.2 344.3 372.6 230.3 189.5 192.4 157.0 146.4 156.9 166.5 1.2 10.5 125.2 140.4 0.0
62.7 1.2 98.5 1.5 0.1 0.0 5.2 23.8 5.4 20.9 18.4
1987 8 14039.0 11266.6 16137.2 8060.9 7605.7 13279.8 4120.6 4212.5 2535.0 2140.9 3277.0 143.9 1992.4
41.9 1568.2 1749.5 1566.2 877.1 70.5 1518.2 1.8 1188.8 1229.4 668.7 549.6 652.0 539.9 668.4 388.0
491.8 315.7 243.9 247.3 215.3 180.5 179.0 120.2 139.9 130.9 123.2 0.2 29.0 129.5 110.2 0.6
59.8 1.3 96.2 1.2 0.2 0.0 9.5 16.2 11.5 18.4 15.6
1987 9 5115.8 3426.3 10609.2 2699.1 3992.9 5369.4 833.9 3206.4 687.1 696.0 2686.7 141.8 2125.4 68.1
535.0 1102.5 1701.7 264.9 119.2 918.4 0.7 575.4 1260.0 491.9 463.5 97.0 600.8 799.0 83.8 278.5
158.7 290.8 274.6 240.1 32.7 199.5 19.6 46.1 27.4 53.0 0.6 40.9 158.5 35.6 3.0 10.1 1.7
103.8 2.9 2.6 0.4 14.9 6.5 11.4 3.7 0.1
1987 10 126.7 238.8 1132.6 190.9 1185.5 176.6 188.5 1430.7 58.1 50.4 622.8 718.2 529.8 480.9
50.4 51.5 214.7 11.9 291.3 218.2 19.3 64.7 212.5 76.9 174.7 3.9 145.6 193.1 11.9 20.4 14.6
40.0 28.9 45.2 4.8 51.5 11.5 3.6 3.3 59.1 15.6 49.3 73.0 6.4 12.3 1.8 22.9 8.6 15.5
11.4 1.6 13.4 6.2 7.7 2.1 0.0
1987 11 0.9 4.1 40.5 2.9 119.0 2.4 0.0 160.1 0.0 1.4 41.3 839.4 2.3 547.9 1.5 1.1
0.3 0.1 390.2 9.4 21.6 0.0 7.3 75.8 108.2 0.0 0.6 11.0 0.0 22.1 1.5 0.0 0.0 0.2 0.0
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1987 12 0.1 0.6 3.9 0.2 1.8 0.1 0.0 0.1 0.0 0.3 2.2 1607.2 0.0 1266.6 0.0 0.2 0.0
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1988 1 0.0 0.4 1.7 0.1 1.2 0.0 0.0 0.4 0.0 0.1 0.0 2130.2 0.0 1681.1 0.0 0.0 0.0
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1988 2 0.1 1.3 6.8 0.5 3.3 0.1 0.0 0.0 0.0 0.6 0.5 2231.9 0.0 1970.7 0.2 0.3 0.0
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1988 3 0.7 5.1 25.9 2.8 42.8 0.3 0.2 42.7 0.0 1.7 23.2 1816.1 0.3 1554.4 0.9 1.0 0.1
0.1 741.4 8.8 397.8 0.1 2.7 0.0 0.0 0.0 0.0 0.8 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0
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1988 4 72.7 163.1 295.9 128.9 257.3 35.6 45.3 340.0 27.5 39.2 133.4 689.3 102.3 531.9 15.5
14.7 42.7 12.0 561.8 63.6 37.0 23.1 55.7 2.3 7.5 1.6 20.0 39.4 3.3 2.0 6.9 6.3 6.0
7.5 0.7 6.5 0.0 2.2 0.9 0.1 18.1 46.1 18.6 4.5 36.2 0.4 16.8 0.9 13.2 17.4 4.6 29.9
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1988 5 738.9 873.4 2924.0 678.3 1679.3 631.9 632.7 1279.9 636.8 197.3 946.7 619.4 538.1 232.1
183.6 151.3 384.2 67.7 190.3 389.8 0.9 198.8 384.6 233.0 183.9 74.5 100.9 186.8 48.6 185.9
43.3 58.7 51.8 42.6 7.7 59.0 48.4 11.5 14.0 19.2 0.9 36.1 49.5 13.2 8.5 9.2 1.2 26.0
2.0 6.7 0.5 25.1 2.1 13.2 6.5 0.0
1988 6 4902.2 4326.9 9199.4 3415.9 4981.7 5319.4 2772.0 2811.6 2243.2 973.2 1960.5 348.3 1277.5 206.1
899.6 968.1 1184.7 385.2 44.8 892.0 0.3 814.1 703.2 595.3 540.3 537.2 248.8 377.1 203.6 365.8
164.0 123.1 213.8 103.3 60.2 97.1 196.5 63.4 67.5 139.8 0.1 12.5 83.6 94.4 0.6 40.2 0.3
69.2 1.1 0.6 0.0 9.2 21.2 5.2 27.9 9.4
1988 7 19755.0 11848.9 16572.9 8536.4 8004.4 15521.4 5116.7 3686.2 3529.4 2223.4 2647.2 141.2 1795.3
74.6 1687.2 1841.6 1431.5 913.1 60.9 1134.2 0.2 1099.7 1018.2 781.7 676.9 911.8 475.0 570.6 459.0
445.8 339.9 306.3 280.8 206.2 191.4 169.5 241.8 147.6 152.6 273.8 0.2 22.7 125.0 158.8 0.5

73.3 0.9 119.8 2.7 0.2 0.0 11.7 40.8 16.5 33.1 18.2
1988 8 15124.2 11482.4 17670.7 8351.3 7838.0 12220.3 3790.1 4357.5 2626.7 2193.7 3087.8 100.8 2199.0
49.1 1661.3 1869.7 1901.6 900.6 107.7 1323.2 0.8 1309.5 1156.5 1087.0 958.0 702.1 572.5 655.8 400.3
599.3 343.6 334.9 387.7 237.2 185.3 190.6 244.7 145.3 135.7 273.3 0.0 36.7 124.0 122.9 1.3
60.4 0.5 130.7 0.8 0.4 0.1 13.7 39.6 13.9 31.2 15.3
1988 9 5121.0 3411.1 10594.0 2882.3 2689.9 5217.7 568.8 1822.0 753.3 751.9 1662.0 185.9 1299.8 83.1
749.0 942.0 981.5 289.7 267.5 592.8 0.5 269.2 713.9 397.6 369.4 132.8 244.2 507.9 91.9 239.2
155.5 130.1 123.9 101.0 41.2 92.4 129.8 48.0 30.6 155.9 0.4 66.9 126.5 46.6 8.0 14.7 1.0
88.4 2.3 4.4 1.1 17.1 16.2 17.0 19.8 0.2
1988 10 152.2 271.1 1885.4 225.5 866.9 253.2 135.8 1114.6 3.1 58.0 690.6 775.6 566.5 613.9 142.0
113.7 360.5 14.4 490.1 182.8 10.3 68.7 265.7 164.3 254.2 0.1 117.9 262.3 9.3 63.5 34.8 53.1
44.4 45.6 4.0 48.3 3.2 4.6 2.7 10.4 9.0 70.2 102.8 20.9 27.9 0.3 13.2 30.2 11.0 9.7
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1988 11 3.0 5.3 29.0 3.6 5.6 1.3 0.0 4.9 0.0 1.9 14.3 1371.8 0.1 1201.6 0.9 1.3 0.2
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1988 12 0.0 0.5 3.5 0.1 2.3 0.0 0.0 0.0 0.0 0.2 0.3 1741.3 0.0 1419.3 0.2 0.0 0.0
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1989 2 0.0 0.6 1.4 0.3 0.0 0.0 0.0 0.0 0.0 0.2 0.0 2149.4 0.0 1754.8 0.0 0.0 0.0
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1989 4 17.6 188.4 221.1 139.0 397.5 15.5 74.8 421.5 47.3 45.5 277.4 1057.4 93.5 831.1 14.9
14.2 30.5 13.2 319.6 100.1 40.7 16.6 101.0 21.0 43.1 0.2 6.3 62.5 4.0 10.2 6.3 1.8 2.3
2.8 0.8 1.7 0.4 2.3 1.1 3.0 22.0 33.5 21.3 17.3 20.8 0.9 13.8 0.3 12.5 21.8 2.9
21.1 0.2 5.9 0.1 0.0
1989 5 359.6 907.6 2822.8 695.7 1945.8 655.6 585.5 1526.7 313.2 206.2 1171.3 620.4 597.6 415.8
164.9 194.9 308.1 68.6 79.4 486.1 0.9 193.7 460.6 126.6 109.7 21.6 160.7 231.5 48.8 63.9 43.1
52.3 33.7 58.3 8.5 73.0 10.2 12.1 14.1 14.7 0.8 17.0 52.3 18.5 4.1 2.5 1.2 27.0 2.0
5.7 0.6 13.4 2.0 5.9 2.8 0.0
1989 6 2401.0 4718.1 10726.7 3758.3 5159.8 5475.5 2548.3 3013.8 1863.4 1121.4 2418.9 170.2 1555.2
127.6 951.4 1090.7 1109.8 455.8 46.5 1020.4 0.3 869.8 922.6 323.2 276.6 428.0 244.5 518.6 216.1
270.2 188.4 102.6 177.4 96.5 68.1 90.4 138.9 73.4 72.1 127.3 0.3 14.4 105.7 77.1 1.7 37.6
1.5 85.2 3.0 0.5 0.0 7.4 18.6 5.0 20.8 7.9
1989 7 12142.6 11437.8 16377.9 8646.1 10212.6 13330.8 6172.7 5642.1 3170.0 2367.8 4066.6 161.0 1962.4
66.0 1600.2 1786.0 1513.1 985.7 35.6 1917.0 0.3 1406.4 1404.7 727.6 636.8 772.7 654.6 756.5 477.7
445.7 346.2 309.8 282.5 251.8 208.5 212.2 175.9 161.5 161.8 164.5 0.2 17.4 124.9 137.6 0.1
65.7 0.1 108.0 0.2 0.2 0.0 4.1 25.4 1.9 23.9 15.8
1989 8 10403.7 10959.3 13941.0 8251.8 10844.2 10873.3 6210.6 6142.9 3364.8 2281.1 5029.4 91.4 2624.2
33.5 1574.8 1555.0 1865.6 940.8 93.7 2173.5 0.5 1964.9 1739.6 616.4 598.9 923.8 692.1 1056.1 429.4
391.6 309.9 282.0 357.7 258.7 214.8 220.7 136.1 152.8 145.2 180.3 0.0 34.8 130.8 144.4 2.8
82.7 0.3 78.3 0.9 0.5 0.2 7.5 24.7 4.4 20.1 19.4
1989 9 3823.6 3026.1 10296.9 2390.1 6080.6 5397.0 1655.2 4138.6 1439.7 639.4 3295.7 353.2 1868.9 143.4

797.6 906.1 1146.9 242.9 174.5 1283.9 0.3 452.6 1289.2 428.8 413.0 351.6 316.7 784.4 86.1 215.9
145.0 127.1 159.6 120.3 46.8 117.1 51.8 42.2 29.4 81.7 0.2 52.8 128.0 71.4 8.4 48.2 0.9
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1989 10 146.5 259.4 1412.5 211.1 583.8 291.7 70.6 628.5 14.1 54.1 345.8 598.0 248.7 312.7 38.0
42.7 106.6 13.5 359.1 85.7 4.7 22.4 140.4 237.1 326.4 0.6 98.2 138.5 9.4 73.2 16.2 29.2
10.7 31.9 3.7 41.1 5.1 3.9 3.0 4.1 4.8 52.7 44.7 15.8 23.7 1.3 4.5 7.7 4.6 13.6
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1989 11 0.5 4.5 18.3 3.3 0.0 1.0 0.0 0.1 0.0 1.8 6.4 1503.9 0.3 1055.6 0.7 0.6 0.3
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1990 5 1126.2 1128.7 2951.8 915.8 2329.1 1447.2 838.3 1651.2 603.9 259.2 1314.5 444.7 575.3 291.9
115.7 161.7 258.6 92.0 201.2 508.7 1.4 160.8 533.7 313.1 233.8 73.6 170.4 268.1 49.4 211.6
42.2 70.9 28.2 65.8 9.3 78.3 47.5 16.2 14.5 8.3 1.4 27.2 43.8 18.8 10.4 8.6 1.2 23.7
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1990 6 7569.1 5391.2 12595.4 4292.3 5865.1 8521.2 3103.9 3211.3 2243.4 1167.4 2386.2 330.9 1423.8
190.4 886.0 1119.4 1064.9 474.9 61.0 1027.1 0.3 708.2 872.7 437.0 386.9 519.9 253.4 494.5 247.7
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1990 7 16272.2 12767.6 16236.0 9333.5 9214.5 14568.9 5444.4 5319.2 3174.3 2474.0 3699.9 190.8 2285.2
89.9 1655.6 1752.4 1610.0 1022.2 17.1 1697.4 0.5 1220.8 1321.1 724.6 644.0 814.1 560.7 748.9 478.5
486.3 346.5 277.5 295.3 218.4 205.4 185.7 184.1 166.1 161.3 231.9 0.2 8.2 156.0 134.3 0.1
64.9 0.2 101.7 0.9 0.2 0.0 3.6 34.4 2.9 24.6 19.9
1990 8 21485.5 13366.0 15159.2 9738.7 10115.2 12638.4 5654.8 6019.5 3422.1 2412.8 4273.1 134.4 2579.5
43.2 1591.1 1689.9 1796.0 999.8 55.6 1987.4 1.0 1522.3 1512.1 974.6 789.4 943.1 756.7 879.8 422.8
630.9 325.6 328.0 345.0 287.7 203.4 237.7 183.3 163.3 142.3 201.0 0.0 21.4 165.5 94.0 0.8
71.1 0.6 80.0 1.0 0.3 0.0 7.4 29.6 6.2 24.4 24.5
1990 9 9098.6 3502.9 10226.2 3036.9 5459.3 7228.6 1393.7 4312.4 1070.0 657.8 2827.2 304.5 2267.9 117.6
419.9 621.5 1459.1 247.6 151.3 1221.9 0.4 538.5 1028.2 337.5 306.5 186.4 255.2 657.1 97.9 198.4
122.7 102.1 243.7 103.6 44.9 104.5 32.0 45.3 32.3 66.5 0.2 35.6 148.9 62.4 5.1 24.0 1.5
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1990 10 262.2 257.1 1106.0 211.5 290.8 215.5 40.3 384.8 6.8 55.3 137.0 689.8 63.1 458.9 41.5
43.8 28.6 14.1 324.3 41.0 10.3 3.4 35.1 275.0 370.9 0.2 153.0 40.3 11.8 88.8 14.6 49.3
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1991 4 45.4 173.1 277.3 132.6 225.9 14.0 36.3 337.9 37.0 42.7 116.5 888.2 57.8 463.4 24.1
17.3 15.2 13.1 331.6 58.2 52.7 6.9 42.8 11.2 25.8 0.3 5.8 31.8 2.8 6.8 8.3 1.6 1.7
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1991 5 458.1 967.1 2720.7 755.4 1467.5 467.7 487.9 1408.9 375.2 220.9 1069.3 346.6 633.2 125.3
185.4 177.8 293.3 76.6 194.8 399.8 4.7 241.3 408.3 415.3 354.6 36.4 20.9 197.1 38.4 232.8
41.8 4.5 30.7 7.7 7.1 14.2 10.9 14.3 11.0 8.2 4.2 25.8 42.3 15.4 11.5 7.5 3.3 25.5
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1991 6 4603.1 5351.4 11921.5 4290.6 4979.2 6916.4 2828.2 3111.8 1815.7 1222.2 2467.8 119.4 1274.5 55.8
1084.7 1268.7 793.0 488.4 66.8 1110.0 0.1 726.8 907.3 368.2 311.7 468.0 211.7 484.7 224.3 294.8
211.8 111.3 122.5 91.2 68.8 84.7 65.8 79.5 74.8 148.4 0.1 19.4 74.3 92.4 0.9 41.2 0.5
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1991 7 14224.0 11439.0 14326.3 8321.8 7869.5 12883.1 4540.8 4122.9 3206.6 2253.8 2757.9 359.2 1796.2
192.0 1802.1 1639.3 1322.8 921.3 29.9 1209.8 0.3 1140.3 1049.8 972.6 813.6 760.2 609.1 611.9 465.4
618.5 315.4 351.1 226.0 251.7 190.3 211.4 249.2 149.5 157.7 212.6 0.2 10.7 125.6 165.7 0.0
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1991 8 15324.4 11423.7 15016.1 8612.8 7415.0 12532.7 3281.7 4972.7 2324.7 2263.5 3515.5 202.1 2483.9
78.7 1704.7 1663.7 1602.1 930.7 59.7 1506.2 2.5 1184.2 1322.4 1016.8 802.2 627.1 780.3 784.8 406.1
649.0 334.5 352.7 305.2 310.7 191.9 232.8 212.2 151.1 135.2 211.1 0.6 23.4 149.7 145.8 0.4
50.7 1.5 93.0 2.2 0.4 0.1 10.1 31.1 7.1 28.6 9.9
1991 9 6303.1 3059.2 8978.7 2578.2 5131.9 5405.2 1399.8 3539.7 1342.2 609.6 2563.2 234.7 1347.6 117.4
627.5 874.1 899.7 224.7 113.8 982.5 0.5 402.4 930.2 460.7 402.8 306.7 684.9 527.6 86.0 292.6
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1991 10 69.9 258.6 1413.4 205.4 334.8 177.6 42.1 285.6 12.9 51.2 137.1 724.5 115.8 331.9 67.8
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1992 5 389.4 864.5 2131.0 670.1 1040.7 323.0 152.0 921.8 177.2 194.0 517.9 180.8 603.0 90.6
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948.6 994.8 1415.6 394.4 84.7 1047.2 0.0 863.5 932.4 430.9 398.0 411.2 228.9 536.7 203.0 283.7
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1993 6 5115.1 4577.1 9909.3 3602.3 5557.6 6760.8 3180.2 3170.2 2202.8 1033.2 2489.2 62.0 1381.2 53.8
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1993 7 14424.5 11244.8 14290.0 8329.9 10140.9 12805.0 6120.1 4824.2 3538.7 2288.1 3424.8 67.4 1735.0
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623.2 745.6 972.8 253.4 104.4 1143.4 1.1 370.0 1093.0 589.9 485.1 160.8 269.6 718.8 82.0 380.8
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1994 7 22795.4 12882.0 15490.9 8827.4 8554.8 15326.3 5095.8 4722.9 2780.9 2253.4 3377.1 241.2 2291.9
79.3 1479.7 1784.1 1643.5 935.9 41.5 1608.7 0.1 1357.8 1252.5 907.2 785.0 709.3 823.0 708.1 462.1
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1994 8 24730.8 14110.7 16107.4 9160.1 11977.3 15164.4 7424.3 6415.5 3054.7 2218.2 4773.4 323.6 2487.8
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1994 9 4746.9 3481.7 9460.1 2583.9 3383.6 5239.8 756.8 3190.1 769.7 707.5 2452.6 426.0 2254.9 201.8
840.4 989.1 1596.6 277.7 127.9 977.2 0.4 447.4 1033.1 223.5 204.3 155.1 327.6 725.8 77.2 188.8
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251.9 350.1 452.8 79.9 143.5 659.1 4.2 351.1 631.0 148.9 109.3 63.5 82.9 351.8 43.6 109.2
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1995 6 5514.0 5463.6 12966.8 4171.4 5258.5 8235.5 2807.9 2982.1 1783.0 1208.9 2457.1 70.3 1546.5 24.7
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1995 7 17940.7 12830.7 14634.8 9362.3 8279.7 15202.5 4813.0 4276.6 2803.1 2474.2 3475.0 118.2 2133.7
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1995 8 17562.8 13265.1 15161.7 9280.3 7175.5 13605.5 3564.0 4407.9 2419.6 2473.6 3655.1 268.2 1598.3
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678.9 801.7 1454.6 274.1 178.1 1764.9 3.6 878.5 1589.4 375.0 322.8 541.0 143.7 1022.8 87.8 290.9
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1996 6 5945.9 5633.0 10199.7 4369.8 4489.6 6774.9 2104.1 2860.2 1816.8 1243.6 2171.2 172.7 1010.9 51.6

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1997 5 402.3 932.6 2815.9 721.6 1645.7 237.5 418.4 1341.8 443.3 212.0 1223.0 257.0 813.0 219.2
170.9 183.9 342.5 72.4 130.2 405.2 5.5 120.0 502.2 118.0 89.7 76.2 128.4 297.5 49.1 84.3 44.0
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1997 6 4170.2 5322.9 11685.5 4182.1 6047.1 5045.2 2731.5 3564.4 1981.6 1202.6 2443.0 175.0 1359.1 91.3
956.3 1079.1 940.9 485.8 57.3 1150.9 0.1 752.8 911.6 300.7 273.3 604.0 319.9 522.2 252.2 240.4
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1997 7 17882.7 12767.6 16634.0 9068.8 10307.9 15302.1 6099.9 5052.1 3958.1 2376.6 3259.3 216.4 1996.7
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1997 8 15943.3 12637.4 15025.4 9510.2 11554.9 11834.7 5763.5 6220.3 3793.8 2494.2 4423.0 139.5 2107.5
42.7 1590.1 1729.2 1381.1 1037.0 79.9 2016.3 0.8 1481.1 1534.0 976.2 879.2 1057.4 850.8 842.0 411.6
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1997 9 5683.8 3443.8 8259.0 2877.6 5990.5 4513.2 1632.5 4103.1 1452.5 723.5 3198.2 439.4 1918.9 192.3
417.0 646.7 1220.9 274.9 147.8 1249.1 1.2 577.8 1134.8 565.0 491.1 384.7 468.2 672.3 85.6 365.1
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1997 10 292.6 249.2 589.3 207.9 391.6 69.5 29.9 244.8 0.7 53.5 280.4 528.9 126.1 330.4 36.6
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1998 5 938.1 1261.0 4513.0 973.5 1345.7 885.7 421.6 1305.1 327.0 280.7 1409.2 766.8 1264.0 836.5
301.2 293.0 857.4 102.7 230.5 463.9 3.2 595.6 618.4 306.9 262.4 22.0 147.1 384.6 57.5 181.2
58.1 55.3 131.9 56.2 9.9 68.5 17.5 17.7 16.4 9.0 2.9 44.0 79.1 48.1 4.8 1.4 7.9 43.8
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1998 6 4554.6 6160.0 13611.2 4667.3 4498.2 7468.6 2312.2 2938.1 1501.4 1385.0 2784.0 316.9 1637.6
265.1 1280.0 1269.5 1079.4 577.9 89.6 1144.5 0.4 964.6 1105.2 322.7 268.1 372.3 371.6 626.5 263.1
294.3 245.1 238.3 179.1 163.5 78.3 144.2 128.6 92.8 86.0 133.7 0.3 31.4 104.1 124.2 0.9 34.5
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1998 7 16204.4 14102.4 17632.4 10151.7 7766.4 13816.5 4636.6 4476.5 2937.4 2714.4 3732.9 63.2 2805.6
64.3 2083.0 1935.5 2031.5 1141.6 50.0 1615.3 1.1 1997.6 1406.1 637.3 538.2 745.7 613.0 872.8 489.6
432.4 390.1 331.2 423.1 247.5 204.1 190.4 164.0 181.0 162.6 247.1 0.7 18.3 170.6 147.7 0.7
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1998 8 17634.8 14515.6 20111.1 9892.6 6847.1 13598.5 3278.7 4524.1 2099.4 2677.9 4292.6 111.5 3327.8
35.7 2070.2 2217.0 2848.9 1128.2 71.4 1753.8 1.9 1631.7 1605.9 1062.3 815.9 498.2 707.4 972.7 467.3
690.9 406.9 444.9 506.4 326.0 205.6 242.6 141.6 178.9 153.2 172.0 0.2 30.5 176.3 184.3 0.5
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1998 9 7486.5 4213.4 9844.1 3064.1 3241.8 5911.6 854.9 2280.2 935.0 806.2 2148.5 228.8 2392.9 82.5

678.4 920.2 1900.3 314.3 335.7 768.1 1.2 502.7 868.0 473.3 424.7 172.4 352.8 561.3 106.5 304.3
152.4 120.2 297.2 129.8 46.8 138.0 124.9 53.2 35.2 92.5 0.8 56.9 189.8 108.7 19.0 19.4 1.6
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1998 10 416.1 326.8 3245.3 275.3 519.5 645.4 53.4 542.3 27.1 73.7 507.1 516.1 332.6 335.0 105.2
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78.2 91.0 18.4 85.6 9.1 99.3 10.5 19.3 14.9 8.0 3.4 20.3 27.9 14.3 3.7 2.5 4.3 69.9
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1999 6 4008.0 5651.0 11297.3 4467.9 5288.5 6171.3 2948.8 3196.7 2017.4 1330.7 2153.6 109.6 1106.6 43.1
1204.3 1205.1 723.4 544.0 50.0 1033.6 0.1 699.1 755.9 501.9 438.3 524.4 260.5 407.6 265.6 346.2
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1999 7 15356.1 13708.7 16725.5 9901.7 8501.9 15396.2 5014.7 4404.9 3273.1 2702.9 2988.0 580.7 1797.8
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1999 8 16227.3 12786.3 16515.2 9098.6 9714.2 14191.5 5295.8 5551.2 2954.7 2420.6 3872.5 356.9 2221.6
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1999 9 8949.3 4169.4 10158.0 3195.0 4418.4 6818.8 986.4 2953.8 1065.6 775.4 1926.7 279.5 1075.8 108.7
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2004 6 6410.9 6082.4 11337.2 4794.0 8654.9 6738.9 5607.9 4480.7 2524.4 1342.4 3128.9 135.1 1733.1 80.2
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2004 7 15313.2 13498.2 17285.1 9617.9 12361.4 13105.0 7895.2 5924.0 3858.7 2591.4 3772.5 174.7 2549.2
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2005 10 309.6 333.6 1404.9 272.8 690.4 283.4 127.1 798.8 76.8 73.2 570.8 609.0 312.1 419.8 84.0
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2006 6 5707.8 6405.9 13770.4 4975.3 5084.3 7106.2 2623.3 3264.8 1743.5 1434.5 2141.3 166.3 1366.0
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274.7 257.0 464.5 122.5 210.0 524.9 2.1 243.1 476.7 251.1 201.7 146.6 131.4 259.3 73.0 151.5
54.5 69.7 55.4 54.7 14.4 58.6 48.3 20.4 21.8 32.9 2.0 36.0 61.2 29.8 12.1 16.1 5.0 29.3
3.8 8.5 0.6 15.4 3.3 9.3 8.4 0.2
2018 6 5587.2 6560.1 12048.6 5161.2 6445.5 7357.8 3664.4 3632.2 2308.0 1472.9 2590.9 196.3 1563.1
146.4 1190.0 1266.8 1145.5 598.5 83.8 1209.1 0.3 858.7 992.1 473.3 402.3 575.3 375.5 542.6 271.4
321.6 232.7 197.8 179.1 154.9 94.5 123.9 147.2 99.9 91.9 153.1 0.3 23.1 110.5 95.9 2.6 47.6
2.1 87.0 2.4 1.3 0.1 8.5 22.2 5.6 21.7 12.1
2018 7 16651.8 14914.1 16952.5 10719.6 10544.8 14460.2 6457.9 5258.1 3501.3 2866.1 3524.6 220.6 2107.7
124.6 1821.5 1945.8 1530.6 1174.9 54.4 1637.6 0.5 1241.7 1258.0 797.9 710.9 864.0 720.1 643.3 469.9
492.8 396.4 343.6 279.8 277.7 214.4 222.7 202.4 191.7 154.7 244.0 0.4 20.1 147.5 141.5 1.1
69.6 0.6 105.4 0.8 0.3 0.0 4.8 36.6 4.9 26.6 20.2
2018 8 18884.3 15103.7 16793.0 10314.3 10897.9 12821.9 5646.2 5932.9 3409.4 2688.6 4005.0 206.9 2240.3
95.9 1747.7 1901.6 1669.6 1090.0 119.9 1814.8 1.6 1212.1 1473.5 975.8 852.2 918.0 749.2 675.5 375.9
557.6 374.4 335.6 322.9 279.2 202.8 227.5 201.4 177.6 123.5 221.1 0.2 35.9 139.9 137.3 4.9
78.4 1.0 96.2 1.2 0.7 0.3 5.9 29.8 5.8 26.7 17.0
2018 9 6120.2 4391.9 10135.9 3459.0 5237.4 5625.0 1608.6 3893.0 1435.0 897.3 2984.9 327.7 1549.1 152.3
753.1 1020.4 972.0 331.1 263.7 1191.9 2.1 387.5 1172.4 517.6 466.1 347.5 390.1 555.5 102.8 302.5
170.5 158.3 143.4 145.2 54.1 134.3 70.1 58.3 33.9 107.7 1.7 50.2 118.5 100.0 15.6 40.1 2.8
77.7 3.1 4.0 1.5 7.4 11.6 5.8 10.8 1.9
2018 10 232.7 349.8 1736.2 294.6 964.2 297.2 174.2 1155.6 59.6 72.7 703.2 677.3 366.9 479.5 76.5
93.9 133.8 18.7 531.1 203.6 18.9 38.6 275.1 217.0 326.1 6.7 118.5 183.1 13.3 75.4 24.2 39.0
16.0 40.0 5.4 48.3 13.3 5.2 4.1 17.7 11.8 63.0 47.5 25.1 39.0 2.0 11.3 16.2 8.9 15.8
4.8 9.4 1.5 8.1 2.9 0.0
2018 11 2.0 11.1 39.7 8.7 80.3 2.8 1.4 51.2 0.5 3.2 17.3 1353.0 1.0 981.7 1.6 1.6
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2019 4 119.5 297.2 515.2 226.0 325.0 87.0 58.0 381.3 68.1 72.8 173.3 1138.7 106.2 774.3 33.4
28.8 53.7 23.5 457.7 68.2 53.3 21.6 64.4 81.9 103.8 3.8 28.3 49.5 8.1 35.9 10.8 8.4 6.5
10.5 1.5 10.0 2.5 4.0 2.4 3.2 23.7 51.5 20.5 12.3 31.4 1.1 14.7 2.3 10.7 23.6 4.9
21.5 0.2 10.7 0.4 0.0
2019 5 1146.5 1698.5 3751.0 1299.0 1882.5 920.3 693.9 1597.6 636.5 402.9 1153.8 552.5 832.7 346.2
277.2 271.5 551.8 153.5 192.9 484.2 2.1 237.9 492.5 323.8 259.8 120.6 152.2 276.5 90.1 201.3
62.4 76.7 70.0 63.1 17.5 68.2 53.8 24.7 26.4 41.3 2.0 34.4 74.9 40.5 11.1 12.4 3.3 30.6
2.8 9.9 0.7 15.5 5.0 9.8 8.7 0.1
2019 6 5792.4 7254.3 11779.8 5621.3 5888.5 6905.3 3325.2 3472.9 2176.5 1623.1 2598.9 189.1 1681.7
146.4 1192.9 1273.8 1224.0 666.3 74.7 1211.2 0.3 913.7 1009.4 603.1 498.9 542.6 397.5 543.9 278.2
385.3 244.7 204.0 196.9 162.5 94.3 133.5 169.2 105.4 91.5 171.2 0.3 22.3 111.5 101.7 2.2 45.5
1.4 83.3 2.2 0.8 0.1 7.8 25.4 5.5 23.8 11.4
2019 7 15090.8 14190.1 16380.3 10062.8 9813.0 12881.2 5959.0 5030.3 3353.5 2732.9 3431.6 163.8 2129.4
105.9 1775.4 1887.0 1551.3 1105.2 52.3 1590.7 0.6 1209.9 1253.5 995.4 871.0 819.3 735.2 646.9 466.7
557.1 386.8 348.9 290.9 275.6 215.6 227.7 209.1 178.7 153.9 237.4 0.5 18.9 138.5 138.9 1.2
66.9 0.9 104.5 1.0 0.3 0.1 5.8 34.6 4.7 27.2 21.7
2019 8 18639.9 15475.0 16259.2 10673.6 9967.7 12617.3 5246.0 5707.6 3244.3 2836.6 3841.2 172.8 2233.3
79.6 1742.4 1864.0 1608.1 1150.4 122.9 1761.9 2.0 1207.8 1435.2 1140.6 978.0 879.3 718.8 646.5 370.7
644.3 384.2 345.9 304.1 271.9 204.3 223.6 228.8 183.4 120.5 213.2 0.3 35.7 135.5 152.6 4.9
76.2 1.4 90.4 1.5 1.0 0.3 6.1 30.3 5.8 28.2 18.4
2019 9 5861.7 4467.6 9735.9 3541.9 4437.7 5474.7 1105.5 3510.9 1010.8 921.1 2551.8 273.3 1340.6 133.7
789.7 977.8 773.8 351.6 275.5 1028.7 1.4 280.1 1015.6 734.8 658.8 216.7 367.0 468.5 105.2 427.1
168.6 143.5 110.0 132.6 55.8 134.4 103.8 61.3 33.5 122.7 1.2 52.3 106.9 90.4 16.8 27.3 2.3
74.8 2.6 4.7 1.4 8.3 13.5 5.8 15.5 1.0
2019 10 397.3 450.8 2048.4 371.1 739.8 410.3 132.1 1022.5 33.9 97.8 610.0 727.8 399.2 491.5 97.0
125.4 155.0 25.7 552.4 176.0 14.7 38.5 234.5 232.1 342.5 4.0 90.4 151.2 17.4 78.8 28.1 26.4
18.9 28.2 7.9 34.5 12.6 6.4 5.0 19.2 10.2 67.6 55.6 32.9 42.3 1.4 11.8 19.9 8.3 15.1
5.6 10.2 1.8 8.5 2.5 0.0
2019 11 4.9 11.6 36.9 10.0 34.9 3.6 0.0 16.0 0.3 3.5 26.5 1229.4 1.8 859.6 1.5 1.6
1.2 0.4 768.2 4.3 70.2 0.0 4.4 56.5 71.9 0.0 3.5 4.0 0.0 9.6 1.6 0.1 0.0 1.0 0.0
1.1 0.0 0.3 0.0 0.0 25.9 54.6 1.5 0.1 60.3 0.0 24.1 0.0 16.0 22.9 6.5 10.2 0.0 9.5
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2019 12 0.1 1.0 3.3 0.6 13.9 0.2 0.0 0.8 0.0 0.7 0.9 1943.3 0.0 1443.6 0.1 0.1 0.0
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2020 2 0.3 2.8 11.1 1.4 11.5 0.2 0.0 5.8 0.0 1.3 2.9 2566.1 0.1 1914.5 0.5 0.4 0.0
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2020 3 7.2 21.9 68.4 17.4 16.1 3.0 0.2 36.4 0.6 5.3 21.0 1692.4 3.7 1251.7 2.9 2.6
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2020 4 140.7 326.6 638.0 259.1 313.2 101.6 58.3 351.2 72.5 76.1 138.0 959.1 109.1 667.2 38.9
35.3 43.9 26.6 461.5 53.1 43.4 18.8 52.0 117.6 139.8 3.5 30.5 49.1 8.1 51.6 12.6 10.8
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4.4 20.5 0.3 11.0 0.5 0.0
2020 5 1449.2 1798.7 4567.3 1428.3 2003.4 1102.8 883.5 1848.5 644.7 416.0 1414.5 515.3 926.5 333.8
320.4 334.7 517.1 162.8 196.9 630.5 2.9 299.6 570.0 280.0 221.5 92.4 115.4 333.8 71.6 165.0
70.8 65.4 60.6 50.5 14.4 57.8 51.0 26.7 21.4 58.2 2.7 36.7 75.2 42.5 10.6 10.4 4.4 39.2
3.8 7.3 0.5 16.0 6.8 9.6 8.9 0.3
2020 6 6321.8 6915.3 13234.7 5443.0 5791.9 8023.1 3304.5 3372.4 2226.9 1549.9 2470.0 177.1 1581.3
111.1 1226.2 1359.4 1156.1 630.8 79.6 1144.8 0.3 849.8 977.2 613.8 536.0 542.7 406.5 543.5 279.3
386.8 245.8 224.6 185.0 172.5 102.3 141.3 160.8 102.4 97.2 178.6 0.3 23.5 106.6 99.9 2.5 45.0
1.2 96.0 1.7 1.1 0.1 8.5 25.3 5.4 22.8 12.0
2020 7 17503.6 15542.6 17498.5 11356.5 9996.5 13405.8 6228.3 5092.5 3502.8 3022.4 3466.4 162.3 2043.8
110.1 1893.6 2016.3 1402.8 1254.5 51.8 1629.4 1.0 1217.5 1304.5 901.1 794.6 858.9 696.7 665.8 475.4
512.0 409.7 313.7 252.4 257.6 217.2 220.8 201.1 199.1 158.2 224.2 0.6 19.0 129.4 140.1 0.9
70.4 1.2 107.1 1.1 0.2 0.0 4.7 33.0 4.5 26.7 21.8
2020 8 21393.8 15989.2 16161.2 10913.6 9813.2 14144.1 5246.4 5715.0 3272.4 2762.9 3860.0 163.6 2191.9
87.4 1800.6 1873.8 1477.1 1126.1 113.8 1798.2 1.7 1143.7 1455.3 1120.0 955.8 827.5 761.1 666.4 361.2
624.2 380.8 346.1 273.9 280.1 202.8 234.5 208.1 187.3 121.4 225.0 0.2 34.2 133.6 129.1 3.9
70.6 1.2 92.7 1.3 0.4 0.2 5.7 32.3 5.2 26.0 15.5
2020 9 6744.8 4801.7 9750.3 3841.7 4612.4 5678.7 1274.0 3458.3 1113.8 975.1 2579.7 317.4 1482.0 208.1
772.1 984.8 891.1 371.6 269.2 997.8 2.4 327.0 1051.6 715.9 641.4 236.5 447.4 492.2 99.9 416.9
176.7 167.6 134.9 158.7 51.4 152.7 80.4 65.7 32.5 113.7 1.7 49.2 118.2 73.1 16.1 27.8 2.9
76.5 3.3 2.7 1.5 7.0 12.4 6.0 12.3 0.8
2020 10 290.0 385.0 1575.6 314.9 927.2 273.7 170.8 1290.0 57.3 85.0 723.2 807.7 293.8 542.9 72.7
91.0 108.7 22.1 550.7 237.9 18.5 31.5 255.3 221.8 322.5 7.8 130.7 143.4 19.1 87.6 22.7 36.6
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5.0 10.3 0.8 9.4 1.3 0.0
2020 11 5.4 8.7 27.2 7.7 36.5 2.9 0.1 18.4 0.4 2.4 16.4 1299.9 1.2 952.4 1.3 1.2 0.7
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2020 12 0.1 0.7 2.2 0.3 4.7 0.2 0.0 0.7 0.0 0.4 2.1 1905.8 0.0 1496.7 0.1 0.1 0.0
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2021 4 137.9 315.4 562.1 245.7 417.1 94.2 83.3 458.4 107.1 75.9 249.4 928.4 169.1 655.0 39.5
31.2 67.8 26.1 430.2 91.1 53.8 33.8 100.0 113.5 129.9 9.5 27.9 73.5 8.4 54.9 11.1 10.2
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20.4 0.2 10.6 0.5 0.0
2021 5 1200.1 1947.5 4107.3 1494.2 2393.6 974.9 970.0 1921.1 773.0 458.4 1515.1 523.9 933.0 345.2
331.8 320.9 570.4 176.4 201.7 622.9 3.1 304.3 631.0 276.5 234.4 145.0 128.1 363.0 98.4 158.4
69.3 76.9 69.0 56.1 18.4 64.0 49.4 28.3 29.7 40.2 2.6 38.1 70.3 35.8 11.5 16.9 3.8 35.7
3.2 6.4 0.7 15.8 4.2 9.5 8.0 0.4
2021 6 6361.0 7395.6 12273.8 5585.7 6407.1 7092.1 3637.7 3747.0 2364.4 1645.2 2746.8 146.9 1621.7 99.3
1195.0 1283.0 1148.8 674.4 80.0 1262.7 0.9 867.8 1051.0 586.8 515.5 583.0 437.1 580.7 305.9 379.6
242.3 220.5 189.6 178.6 105.2 154.7 162.6 108.6 103.8 166.4 0.9 25.9 107.4 100.2 2.3 50.0 4.0
85.7 3.4 1.0 0.1 8.9 24.0 5.9 22.9 12.5
2021 7 17553.9 15876.3 16924.5 10989.6 10822.1 13549.8 6829.0 5597.8 3715.9 2970.0 3848.5 217.7 2257.7
120.6 1832.7 1960.7 1639.9 1197.1 49.3 1776.4 0.8 1279.3 1417.9 830.4 727.5 898.0 652.8 680.8 464.1
478.7 397.0 321.2 298.4 249.9 219.3 211.8 203.5 198.3 155.5 234.9 0.5 17.3 147.6 138.7 1.1
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2021 8 21312.4 16866.3 16449.2 11114.0 11249.7 13388.7 5938.6 6320.9 3445.2 2848.3 4415.0 184.5 2317.9
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615.1 389.9 335.3 304.1 262.8 206.5 227.8 214.6 190.1 123.3 226.4 0.6 35.7 145.7 133.5 4.7
81.2 1.9 95.5 1.5 0.8 0.3 6.0 31.0 5.6 27.3 16.8
2021 9 7056.3 4834.1 10142.6 3775.9 5447.8 6155.0 1507.8 3856.7 1190.2 958.2 2761.8 318.1 1557.3 184.1
793.5 1024.5 933.4 359.1 258.3 1094.3 2.5 338.5 1128.2 757.6 671.4 256.0 391.1 506.0 89.3 451.0
169.7 146.7 137.4 138.7 48.5 141.0 112.7 63.9 29.8 126.6 1.8 49.4 119.9 67.4 16.9 31.7 3.1
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2021 10 426.9 422.6 1431.3 352.7 1185.5 290.8 200.4 1354.2 83.4 93.6 721.0 754.8 341.0 506.2
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2021 11 4.1 10.7 38.3 8.1 80.7 3.8 0.7 43.8 1.0 3.2 18.9 1451.9 0.3 1055.5 1.6 1.5
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2022 1 0.0 0.6 2.1 0.3 7.8 0.0 0.1 11.3 0.0 0.5 4.4 2644.7 0.8 1862.9 0.1 0.1 0.1
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2022 2 0.3 1.8 7.8 1.4 5.4 0.2 0.0 2.7 0.0 0.9 2.9 2643.3 0.3 1851.6 0.3 0.3 0.0
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2022 4 112.0 298.0 571.6 233.6 542.6 81.7 115.4 629.2 133.3 73.0 289.4 1043.8 152.5 733.2 36.9
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2022 5 1401.8 1793.1 4432.7 1384.1 2066.5 1153.8 845.5 1635.0 743.5 421.4 1244.7 569.4 798.1 372.6
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69.6 78.4 54.6 62.6 16.8 62.7 52.1 27.5 26.2 54.4 3.1 39.5 69.1 35.3 10.7 14.6 3.5 39.1
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2022 6 7322.5 7359.1 12760.9 5573.5 6314.4 10052.3 3517.8 3674.9 2315.7 1587.5 2543.5 231.8 1561.9
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2022 7 18355.0 16608.2 17684.9 11741.6 10282.2 14597.6 6178.9 5255.8 3586.0 3115.1 3443.7 194.7 2043.3
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2022 8 21664.5 17178.3 16968.1 11456.3 10583.9 14059.4 5495.3 5744.0 3422.6 2986.6 3782.1 210.0 2121.6
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2022 9 6464.7 4734.4 9919.8 3697.3 6149.2 5820.2 1816.3 4135.5 1515.3 960.9 2854.4 322.8 1708.7 191.4
758.2 977.4 1034.5 352.8 289.1 1165.6 2.8 435.6 1162.0 699.4 634.9 356.0 447.3 524.7 91.8 410.9
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2022 10 456.7 483.8 1624.9 405.8 864.5 309.5 147.4 1040.3 48.7 100.5 600.4 675.9 325.1 427.0
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2023 5 1196.2 1906.5 4328.0 1442.7 2496.9 1017.5 999.4 1976.9 785.9 448.8 1485.0 497.3 950.9 289.6
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72.4 82.9 73.1 66.3 16.6 76.9 59.4 28.0 26.7 43.9 1.4 39.4 72.2 32.8 12.9 16.1 3.0 39.1
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2023 6 6575.3 7685.7 12079.7 5869.0 6302.7 7423.6 3485.1 3642.8 2314.9 1704.9 2675.4 213.1 1512.8

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2023 7 16327.8 15132.5 17089.4 10590.7 10675.5 12515.2 6585.0 5297.0 3706.4 2858.5 3583.2 210.5 2165.2
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2023 8 20927.2 16339.2 16588.9 10940.1 11250.5 13649.5 6085.1 6001.8 3569.9 2836.7 4027.4 233.9 2265.4
109.4 1847.4 1941.0 1589.8 1138.8 115.5 1878.2 1.8 1177.8 1506.8 1062.2 941.3 953.7 685.5 629.1
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2023 9 6572.2 4663.6 10301.5 3614.8 5664.4 6124.0 1634.6 3782.8 1469.0 920.7 2712.1 310.7 1390.9 163.3
777.4 992.5 791.3 341.6 282.5 1119.0 2.5 300.2 1080.9 709.4 651.5 350.5 381.5 460.2 97.1 419.7
170.9 137.2 110.0 133.3 54.3 130.4 103.8 63.7 30.4 121.5 1.9 50.0 114.5 76.2 18.0 39.7 2.6
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2023 10 361.9 401.5 1529.4 332.1 1225.8 322.0 206.1 1273.4 84.1 87.0 695.2 822.1 315.8 580.3
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2023 11 2.5 12.0 40.9 8.9 73.8 3.1 0.5 60.2 0.3 3.6 32.5 1378.1 1.1 1009.1 1.7 1.7
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2024 3 7.6 15.7 56.2 11.4 59.0 2.0 0.9 78.0 1.1 4.0 40.3 1753.9 15.5 1348.5 2.8 2.0
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2024 4 144.8 354.6 626.1 289.3 404.6 93.6 79.2 518.8 72.4 87.1 217.7 1085.5 136.1 709.8 42.7
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2024 5 1539.6 2070.2 4569.8 1611.6 2315.0 978.6 870.0 1822.0 771.6 470.7 1269.5 405.8 859.2 258.2
349.8 360.6 505.3 188.7 228.0 555.9 2.3 251.2 524.3 252.9 216.4 142.6 148.7 293.6 91.3 153.2
75.4 77.2 61.4 61.7 17.9 69.5 57.4 30.9 28.2 61.8 2.3 35.5 72.6 32.4 13.1 16.4 3.7 40.6
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2024 6 7260.9 7717.9 13057.8 5870.5 7193.7 6745.5 4201.7 3945.2 2533.6 1684.4 2740.4 133.7 1664.7 79.9
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2024 7 17693.5 15894.6 17478.1 11139.3 11003.5 12805.6 6829.1 5380.8 3899.7 2963.4 3558.8 207.6 2133.8
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2024 8 22626.5 17403.5 16907.0 11631.9 11779.2 13419.1 6209.9 6229.8 3495.8 2985.7 3940.1 210.2 2107.3
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2024 9 6619.9 4672.0 9367.6 3673.3 5421.3 5910.8 1562.7 3809.7 1343.5 931.1 2755.9 342.1 1435.9 192.4
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168.9 168.8 102.7 147.9 48.2 146.6 94.1 64.7 28.3 122.5 1.3 47.5 105.2 68.3 19.3 38.8 2.7
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2024 10 426.1 415.0 1829.9 345.8 1074.4 389.4 190.1 1331.7 52.6 83.7 769.7 809.6 402.0 534.5
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2025 6 7635.4 7831.3 12503.1 6036.2 6461.5 6871.5 3646.2 3727.6 2405.7 1683.1 2654.8 253.9 1663.4
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2025 8 21391.9 17322.2 17077.2 11454.1 11447.3 13873.1 6242.3 6379.8 3672.2 2931.6 4107.2 167.0 2289.0
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2025 9 6746.3 4822.4 10350.3 3739.7 4954.8 5642.5 1402.2 3588.5 1252.4 941.1 2491.6 326.3 1433.0 194.6

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2025 10 399.2 415.2 1736.2 341.0 1267.7 329.3 227.4 1367.2 109.6 84.6 745.7 702.5 436.2 487.1
77.9 97.9 160.2 22.3 562.7 241.6 18.3 39.9 295.3 215.8 328.7 20.8 105.0 162.3 15.2 77.0 23.9
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2025 12 0.2 1.7 5.1 0.9 14.5 0.4 0.2 2.7 0.3 0.7 1.6 1981.7 0.0 1532.1 0.1 0.2 0.0
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2026 4 222.5 432.3 576.5 340.4 462.0 88.2 100.0 530.9 115.4 107.1 259.6 999.2 162.3 723.2 43.3
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2026 5 1669.2 2179.7 5096.4 1686.7 2460.1 1341.0 1028.5 1797.6 888.5 499.2 1433.0 504.7 836.5 314.4
363.8 394.6 533.9 195.5 210.3 610.3 1.8 282.7 550.8 342.4 288.0 176.3 174.9 309.3 107.3 208.6
79.6 85.6 66.0 71.8 21.4 70.4 48.9 32.0 33.0 55.6 1.8 34.3 65.7 36.7 13.3 18.3 3.6 39.9
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2026 6 6471.8 7983.6 13426.3 6174.8 6616.4 7216.7 3696.4 3804.5 2432.2 1747.3 2649.9 152.8 1660.4
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2026 7 17474.3 16862.1 17451.5 11712.2 10519.5 13678.5 6331.2 5084.3 3692.2 3136.1 3265.4 143.3 2061.2
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2026 8 21700.2 17782.4 17208.3 11562.5 10855.5 13656.4 5363.1 5683.3 3318.0 3006.0 3602.4 191.9 2053.1
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2026 9 7022.0 4908.3 10108.8 3776.7 4888.0 6385.1 1488.4 3628.2 1266.1 938.2 2425.8 360.2 1298.7 196.3
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2026 10 447.0 526.7 1995.8 438.0 954.5 357.4 174.9 1203.3 77.8 104.7 632.7 756.7 325.6 478.6
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2026 11 3.5 14.9 52.8 11.0 63.0 4.4 0.1 20.2 0.4 4.2 20.8 1222.9 3.5 901.5 1.9 2.1
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2026 12 0.2 1.5 4.4 0.6 53.6 0.5 1.7 42.1 0.3 0.9 8.4 2000.0 0.1 1483.3 0.1 0.2 0.0
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2027 4 172.5 416.5 774.7 335.5 460.0 105.2 95.6 484.6 125.0 101.6 267.9 1034.3 153.9 678.1 46.9
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2027 5 2272.5 2490.4 5028.9 1884.7 2526.8 1506.6 992.4 1808.0 784.7 546.6 1424.4 472.9 881.8 265.5
378.1 395.3 535.2 220.3 200.8 632.6 2.0 296.2 583.5 310.9 271.8 160.8 118.0 305.2 73.5 188.2
81.1 63.1 66.8 48.6 15.3 57.1 53.1 36.6 21.9 48.1 1.7 33.8 74.3 39.2 13.9 18.7 3.1 39.3
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2027 6 7815.0 8520.1 14019.1 6423.5 6557.6 9467.5 3605.0 3701.1 2363.5 1811.9 2736.7 161.1 1762.5 98.5
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2027 7 18411.5 16105.4 17428.5 11009.5 10234.5 14087.8 6257.8 5110.7 3644.7 2910.2 3489.2 200.4 2158.5
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2027 8 22658.0 17309.3 16786.1 11434.9 10231.4 14737.8 5294.7 5786.6 3455.1 2869.0 3910.6 181.7 2071.7
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2027 9 6856.6 4662.5 9884.0 3536.4 6328.5 6130.7 2024.4 4342.0 1762.6 881.6 2867.0 380.6 1491.6 224.1
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166.3 160.5 126.0 139.1 56.2 136.2 110.9 60.3 30.6 126.9 2.6 49.8 106.2 69.6 18.4 45.3 3.8
69.7 3.9 5.6 2.2 7.9 12.6 6.2 15.0 2.3
2027 10 337.2 401.7 1744.6 324.1 1056.6 332.7 201.1 1321.4 64.4 90.4 679.1 711.3 284.5 458.9
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2027 11 5.4 13.3 42.9 10.3 68.1 4.7 1.1 92.0 0.3 4.1 28.3 1319.4 3.8 913.6 1.6 1.8
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2027 12 0.1 1.3 4.3 0.8 21.8 0.4 0.3 2.1 0.1 0.9 4.6 2056.3 0.0 1480.1 0.1 0.2 0.0

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2028 4 147.7 350.9 718.9 281.7 506.0 129.0 103.5 475.1 132.3 83.3 258.7 1124.6 187.5 767.2 43.5
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2028 5 2028.1 2084.3 4952.2 1585.0 2420.5 1310.2 1007.0 1972.4 747.7 461.0 1592.0 505.3 951.1 318.0
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2028 6 6952.4 8061.3 12595.0 6264.6 6563.0 8079.7 3780.0 3877.7 2400.6 1783.6 2787.0 186.4 1814.8
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2028 7 18433.9 15482.2 17382.3 10818.1 10447.2 14306.4 6493.3 5278.5 3667.1 2893.2 3569.1 269.6 1975.0
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2028 8 20418.9 15891.0 15522.0 10593.3 11449.1 13127.5 6350.9 6070.4 3717.6 2696.2 3945.2 195.1 1946.7
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2028 9 7861.4 5472.0 10204.6 4242.5 5352.1 6183.0 1634.8 3916.1 1268.1 1062.8 2832.4 366.9 1430.5
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2.7 69.4 2.9 5.1 2.1 7.3 13.0 6.5 14.2 2.2
2028 10 430.5 427.9 1754.4 357.2 1165.8 324.0 201.9 1384.4 92.9 87.4 721.2 683.5 328.3 427.8
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2028 11 5.7 9.3 32.5 7.8 59.9 3.2 0.9 64.1 1.5 2.5 20.0 1402.3 1.2 1002.9 1.3 1.3
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2029 2 0.2 2.3 8.9 1.1 22.5 0.3 0.0 9.7 0.0 1.0 10.1 2543.5 1.1 1698.1 0.3 0.4 0.1
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2029 3 6.9 16.9 57.7 14.0 45.2 3.1 0.5 78.9 0.7 4.2 31.9 1880.1 5.9 1369.8 2.3 2.0
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2029 4 167.2 416.2 669.0 324.2 469.0 110.0 92.8 530.8 104.8 101.3 269.6 996.2 178.5 584.0 47.9
42.0 74.8 36.9 483.4 103.3 29.5 32.0 100.6 134.6 159.3 10.2 34.0 71.4 14.2 62.1 15.3 11.5
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2029 5 1564.2 1814.0 4243.4 1387.1 2547.5 1196.6 997.8 2042.0 768.0 399.0 1611.1 585.1 932.2 338.8
351.9 343.0 630.2 155.9 176.0 681.1 3.0 318.0 625.9 334.9 296.2 150.6 179.0 351.4 99.0 209.9
69.5 92.9 82.5 72.6 20.5 78.4 65.6 25.3 30.3 67.2 2.3 32.2 68.0 36.9 11.0 18.4 3.6 36.5
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2029 6 6202.5 7164.7 12158.5 5436.8 6770.4 7527.8 3838.5 3912.0 2437.4 1569.6 2699.5 172.7 1683.6
132.2 1207.8 1328.9 1219.7 644.9 69.7 1250.1 0.4 918.8 1049.7 602.8 547.7 613.4 442.8 574.9 315.2
374.3 242.7 230.2 193.2 182.4 118.6 150.7 174.3 100.4 105.4 178.5 0.4 17.6 114.9 103.5 2.9
50.2 1.4 91.6 1.9 1.5 0.1 9.1 25.1 5.5 24.7 13.7
2029 7 17655.2 16044.6 16976.3 11143.5 10784.9 14540.3 6576.7 5457.2 3651.9 3001.0 3438.1 231.2 2043.7
130.7 1900.5 1963.1 1424.8 1215.7 51.8 1635.9 0.8 1021.6 1293.3 991.8 918.0 860.4 711.4 592.8 428.2
559.1 404.8 285.8 254.1 245.1 222.6 221.3 214.5 193.7 139.1 234.3 0.5 15.3 144.6 133.3 2.2
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2029 8 19255.5 15871.4 16476.9 10347.9 10658.0 12975.0 5461.2 6196.5 3389.0 2679.3 3793.2 213.3 2145.8
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349.1 653.8 370.2 325.0 275.5 265.4 215.4 238.2 228.1 170.8 114.3 230.6 0.5 28.6 130.3 117.3
6.6 73.8 1.5 90.5 1.5 1.3 0.4 5.6 30.5 5.2 27.2 16.5
2029 9 6757.9 4900.5 9545.2 3708.8 5478.3 5845.9 1581.5 3893.9 1550.1 949.5 2542.5 299.6 1396.8 156.3
753.2 951.6 802.8 341.9 298.6 1132.7 2.7 279.2 1011.0 662.7 644.0 400.2 529.3 382.5 107.4 387.2
168.0 185.3 121.7 172.1 64.5 168.5 89.0 60.8 34.6 103.4 2.0 46.5 99.4 62.7 22.0 45.7 3.1
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2029 10 373.0 420.1 1647.0 347.6 1265.6 313.2 249.4 1408.1 128.6 87.0 767.4 718.2 421.8 525.9
73.3 86.3 140.9 24.0 594.5 243.8 23.9 40.3 319.0 342.2 451.6 26.8 91.9 158.3 15.4 134.9 21.1
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2029 11 3.8 11.7 42.5 8.7 87.4 4.1 1.8 77.2 0.6 2.9 35.6 1433.4 1.8 1065.2 1.3 1.7
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2029 12 0.1 1.0 3.0 0.5 43.9 0.3 0.7 8.1 0.1 0.5 4.4 2180.8 0.1 1610.9 0.1 0.1 0.0
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2030 4 138.8 396.6 769.4 303.9 373.4 117.5 67.5 431.9 71.8 91.5 206.5 1110.5 116.6 725.8 45.2
39.9 51.2 31.2 447.8 83.3 65.2 19.8 77.6 154.5 176.7 5.6 23.1 60.0 8.9 73.2 12.9 7.3 5.9
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2030 5 1468.3 2059.0 4439.3 1603.6 2511.9 1207.8 1002.2 2099.7 772.1 467.9 1591.6 507.8 990.5 338.8
361.8 364.2 615.4 185.7 189.4 645.6 2.3 328.1 600.4 308.9 267.4 153.8 144.5 349.2 101.3 196.3
73.6 72.3 83.6 60.0 20.2 62.4 59.7 31.2 30.5 59.6 1.9 33.4 77.9 42.6 11.8 17.8 2.6 36.6
3.0 13.7 0.7 15.4 7.1 10.2 8.9 0.1
2030 6 7074.8 8125.9 14001.4 6218.0 6908.4 9189.8 3967.1 3845.4 2484.8 1786.4 2752.2 194.6 1649.6
124.5 1287.0 1441.2 1220.1 730.2 73.2 1265.3 0.6 875.2 1051.4 607.9 573.0 633.7 456.7 569.7 326.9
383.3 269.5 230.2 197.3 185.8 110.8 155.2 168.8 115.3 108.4 170.3 0.5 19.6 109.0 89.8 2.9
53.9 1.8 97.2 2.0 1.5 0.1 7.6 24.3 6.0 23.7 13.4
2030 7 17619.1 15820.7 16204.0 10947.1 10975.3 16062.0 6830.5 5356.9 3734.8 2917.6 3420.5 146.6 1987.0
88.8 1836.6 1875.5 1324.1 1182.7 49.3 1613.8 0.6 1012.9 1302.8 937.0 887.1 878.8 633.5 639.7 412.1
521.9 385.1 277.1 222.6 228.8 199.3 210.6 210.1 189.1 135.5 234.9 0.5 14.8 143.7 133.2 2.0
69.4 0.7 93.2 0.9 0.4 0.1 5.2 33.2 4.6 28.0 22.9
2030 8 20869.0 16256.3 15721.3 10897.0 11502.8 13640.0 6114.7 6342.9 3530.3 2794.6 3861.7 249.2 2006.1
126.2 1743.2 1817.1 1319.6 1106.2 110.0 1871.3 2.4 935.2 1471.9 1149.8 1053.6 920.7 652.8 550.0
320.9 624.2 376.4 268.2 247.5 216.1 186.4 194.3 200.5 186.1 103.1 210.2 0.4 26.6 129.6 114.9
5.4 76.0 1.9 86.1 1.8 0.9 0.4 5.7 26.7 6.3 24.7 15.7
2030 9 6069.6 4588.9 9611.6 3597.2 6255.6 5994.5 1812.6 4486.0 1424.7 916.7 2930.2 347.4 1550.8 191.8
808.5 937.0 923.6 328.1 291.3 1270.6 2.8 395.4 1170.9 687.7 666.6 318.9 420.1 425.7 71.9 389.8
164.8 146.8 149.3 138.2 41.8 139.5 86.8 61.6 23.0 119.8 2.0 45.9 103.0 70.1 20.3 34.8 3.3
66.1 3.4 6.8 2.0 7.2 11.1 6.4 12.7 1.4
2030 10 453.2 460.9 1587.2 378.2 1171.4 287.4 201.9 1360.2 61.1 98.5 685.3 655.6 413.6 439.6
86.2 95.1 143.8 26.6 523.9 229.2 21.8 36.0 256.3 314.5 433.8 6.6 120.7 129.4 11.8 121.5 23.7
32.0 17.5 36.0 5.1 48.8 15.8 6.3 3.6 30.2 13.4 53.4 49.4 22.4 40.6 2.6 12.9 13.3 9.2
17.4 6.0 10.1 2.3 9.6 3.2 0.0
2030 11 6.9 11.6 36.7 10.0 87.3 3.3 3.4 135.6 0.7 3.3 50.9 1294.2 11.7 961.7 1.5 1.5
1.9 0.4 659.7 15.9 121.7 0.3 11.2 160.8 197.2 0.0 3.0 13.9 0.1 40.6 1.1 0.1 0.2 0.8
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2030 12 0.1 0.9 3.4 0.5 14.2 0.2 0.4 6.6 0.0 0.6 9.7 1899.2 0.1 1443.4 0.1 0.1 0.0
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2031 2 0.5 3.2 10.5 1.7 25.1 0.7 1.1 71.0 0.0 1.2 16.1 2616.0 3.8 1696.3 0.5 0.4 0.8
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2031 3 18.9 31.1 82.8 26.5 37.0 4.8 0.6 72.9 1.2 8.0 36.6 2020.0 7.6 1387.5 3.1 3.8
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2031 4 160.4 458.7 787.3 355.2 440.7 108.1 86.5 507.5 102.0 113.9 250.5 1046.7 172.7 718.2 48.9
47.0 69.8 40.7 434.9 95.4 39.5 32.6 103.8 115.3 140.4 7.9 27.7 79.0 10.7 55.7 15.2 9.5
8.5 10.5 1.8 10.2 2.5 6.7 3.2 3.1 17.5 47.2 27.5 14.3 30.7 1.8 15.6 3.8 9.7 24.8

5.5 21.3 0.2 10.5 0.4 0.0
2031 5 1866.0 2263.8 5302.4 1722.7 2689.5 1393.3 1070.7 2029.6 813.6 512.0 1477.7 417.8 893.2 244.4
401.6 401.6 548.3 202.6 187.7 651.0 2.3 332.4 607.7 314.0 269.4 156.0 150.4 343.5 89.0 202.5
83.7 87.7 64.7 64.2 17.9 70.1 74.6 33.1 27.1 68.3 2.0 34.8 73.5 38.3 11.4 18.7 3.1 45.6
2.8 8.7 0.8 16.0 8.2 10.1 11.5 0.2
2031 6 7076.1 7868.3 12824.6 5929.1 7118.2 7119.9 4053.1 4086.7 2423.3 1695.1 2825.4 209.1 1664.2
151.6 1260.8 1378.8 1179.2 689.0 74.2 1295.4 0.3 881.1 1092.6 586.8 543.0 620.5 374.2 593.4 331.8
368.5 254.8 212.3 187.2 162.0 116.8 135.2 167.3 109.8 111.4 182.2 0.3 18.6 117.3 97.2 3.5
52.0 1.3 88.8 1.8 1.7 0.1 10.1 25.8 6.0 23.2 13.6
2031 7 16404.3 15499.2 17604.1 10560.1 11205.8 13185.4 7092.7 5540.7 3833.1 2872.6 3542.9 230.0 2073.1
137.9 1802.6 2015.3 1451.6 1137.6 48.2 1689.0 1.4 1084.8 1341.9 921.6 833.4 910.4 663.5 598.6 428.4
534.3 400.8 297.5 248.6 244.8 205.7 216.5 197.3 187.6 139.7 225.0 0.8 16.8 138.6 133.7 1.4
72.9 1.2 114.5 1.3 0.4 0.0 5.1 31.9 4.7 25.0 21.0
2031 8 19714.8 16158.6 15836.0 10719.9 11049.4 13826.6 5779.4 6114.5 3607.6 2790.9 3850.9 203.7 1865.5
111.9 1762.4 1799.9 1238.8 1083.6 125.7 1852.2 2.8 844.3 1479.1 1134.9 1034.4 949.9 700.4 504.3
318.2 646.2 375.0 282.7 234.2 233.8 199.5 212.3 189.9 180.3 101.3 202.1 0.5 31.6 114.1 106.0
5.4 80.5 1.7 86.0 1.6 0.9 0.4 5.9 25.8 5.9 23.4 16.5
2031 9 6908.8 4836.8 9662.8 3645.8 5477.7 6062.4 1544.8 4037.9 1206.8 919.7 2617.5 357.6 1354.4 180.7
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169.5 122.7 123.2 113.6 51.5 122.9 88.2 62.7 26.1 123.9 2.4 48.6 92.2 65.5 21.1 32.7 3.3
64.3 3.3 5.8 1.8 8.0 13.1 7.2 13.1 1.5
2031 10 363.8 429.7 1869.2 340.3 998.1 410.8 178.1 1183.1 76.2 90.9 649.3 735.8 410.5 532.9 80.9
106.9 134.8 21.5 584.4 203.6 22.9 33.6 271.8 263.7 376.2 10.0 115.5 147.5 14.1 106.2 24.3
29.6 15.9 33.6 6.1 48.0 14.8 5.8 4.3 31.5 13.5 65.2 48.8 19.0 45.4 2.4 13.6 15.3 8.8
17.3 6.4 10.2 2.5 10.1 2.5 0.0
2031 11 4.6 11.0 36.5 8.5 170.2 4.0 0.3 83.0 1.4 3.2 45.4 1220.7 5.0 850.0 1.2 1.4
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2032 4 171.8 426.2 814.9 325.5 462.0 116.8 95.9 580.4 117.9 101.2 307.1 1082.9 192.3 674.9 46.8
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2032 5 1865.5 2299.8 5273.3 1758.9 2509.3 1528.0 1053.1 2033.5 920.8 518.8 1547.6 512.6 974.6 349.0
397.1 417.9 612.8 207.0 185.2 662.9 3.7 284.7 603.1 339.5 298.2 205.7 121.5 337.4 114.1 209.9
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2032 6 7212.3 7576.3 12285.6 5715.2 7030.2 7304.2 3989.0 3968.5 2528.5 1624.7 2629.2 193.0 1714.9

145.5 1231.3 1313.5 1206.7 665.0 93.5 1256.4 0.5 888.9 1025.5 673.6 645.1 634.0 457.5 559.5 317.2
409.4 242.0 232.3 194.1 189.6 114.5 155.8 178.9 105.9 107.8 184.7 0.4 21.9 117.6 107.6 4.2
52.0 1.6 82.6 1.9 1.0 0.2 10.1 28.0 6.2 24.9 12.5
2032 7 17650.5 16347.5 18052.8 11130.4 11112.4 14386.4 6722.0 5367.1 3705.9 2977.2 3375.3 246.4 2064.3
132.1 1891.4 2015.3 1444.7 1174.8 52.1 1596.1 1.3 1011.2 1291.5 998.7 941.2 873.6 706.9 576.7 442.1
531.1 413.3 320.1 256.3 251.4 215.0 225.4 219.0 194.7 148.0 246.8 0.7 17.4 142.1 138.4 1.5
69.1 0.9 110.0 1.0 0.4 0.1 6.0 35.2 5.2 28.8 21.4
2032 8 20170.7 16176.0 16174.5 10799.3 11595.4 13277.2 6115.9 6201.1 3616.0 2798.6 3727.2 237.4 1995.1
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2100 5 3362.6 3844.6 6366.8 2956.7 4040.1 1882.1 1891.2 3253.0 1476.8 857.1 2364.6 0.0 1390.4 0.0
555.4 599.6 943.6 361.7 0.0 1085.5 0.0 345.5 942.6 427.7 361.8 391.7 241.1 283.1 172.2 307.6
124.1 132.1 140.6 101.7 46.2 102.2 92.3 57.6 53.5 95.9 0.0 0.0 99.6 60.0 0.0 37.5 0.0
62.0 0.0 0.0 0.0 0.0 12.3 0.0 13.6 1.7
2100 6 8957.3 9999.4 11546.2 7712.6 7998.4 6214.4 4322.5 4219.9 2796.7 2097.8 2537.9 0.0 2017.0 0.0
1248.8 1412.3 1438.5 922.3 0.0 1233.0 0.0 557.9 939.9 533.4 590.9 744.8 539.0 362.7 402.5 359.4
282.5 270.2 202.9 223.2 165.7 193.0 183.3 145.8 137.5 218.6 0.0 0.0 136.2 120.5 0.0 66.3 0.0
99.3 0.0 0.0 0.0 0.0 32.1 0.0 26.8 17.3
2100 7 13662.8 12744.2 13066.5 8458.2 9936.6 9624.2 5599.0 4769.7 3446.7 2262.2 2106.6 371.3 1738.0
186.9 1256.2 1543.8 1045.2 894.8 54.6 1263.7 1.7 302.9 827.8 669.4 801.1 709.2 532.7 240.8 307.9
332.8 293.2 209.3 118.4 182.2 161.2 201.1 141.3 152.2 103.9 185.5 1.0 7.3 160.0 114.4 4.4
58.5 1.3 111.0 1.4 0.8 0.3 5.0 26.9 3.6 20.2 9.8
2100 8 11141.4 9596.3 9314.5 5618.8 9679.9 6531.6 5022.2 4854.0 3200.2 1468.3 1670.8 294.4 752.3 144.2
940.5 988.2 412.1 489.8 130.9 1184.4 5.1 165.4 733.5 802.0 916.5 537.9 292.5 93.1 170.3 412.6
205.9 107.2 81.1 80.2 114.1 95.9 90.0 92.8 55.5 85.9 1.1 13.1 65.5 62.6 12.0 31.0 3.0
78.2 2.3 1.9 0.9 4.5 10.8 4.1 12.0 7.3
2100 9 4149.2 3170.0 5252.7 2091.2 6140.2 2953.8 1975.8 4072.6 1651.7 537.4 1787.0 446.8 467.5 218.6
470.9 494.3 276.3 159.7 281.2 1037.5 5.5 93.8 721.4 584.0 697.5 290.3 155.2 115.2 44.2 297.2
99.0 55.3 47.4 46.2 31.4 53.8 46.2 35.5 14.7 60.6 3.9 28.7 31.9 30.1 24.9 24.0 4.7 52.9
4.1 7.8 2.3 6.0 7.0 6.2 6.4 1.2
2100 10 234.8 241.4 843.9 189.6 508.7 109.4 99.5 503.9 35.7 50.2 317.6 866.0 4.2 624.7 25.5
40.9 0.9 10.5 474.5 105.7 47.9 0.1 144.2 83.1 136.7 1.2 32.0 2.5 8.1 27.2 10.3 3.4 0.0
7.9 3.6 12.1 3.9 3.0 2.8 10.5 22.0 42.4 1.0 8.8 37.2 0.2 20.2 6.9 12.9 21.3 5.1 8.8
0.1 8.4 0.9 0.0
2100 11 9.6 10.7 23.3 9.1 223.7 2.4 10.0 220.6 3.8 2.0 67.5 1453.7 0.0 1063.6 0.7 0.9
0.1 0.3 545.2 18.1 166.3 0.0 18.1 40.4 48.9 0.2 2.5 0.1 1.1 10.6 0.4 0.2 0.0 0.7
0.2 0.8 0.0 0.1 0.3 0.5 46.0 46.3 0.1 0.0 32.3 0.1 33.4 0.0 21.5 30.2 2.7 9.6 0.0
8.4 0.0 0.0
2100 12 1.6 8.9 11.2 7.6 61.3 0.7 1.2 13.9 0.8 1.3 5.5 1960.4 0.0 1414.6 0.3 0.9 0.0
0.2 620.1 0.6 636.5 0.0 0.9 26.4 39.8 0.5 0.1 0.0 0.2 5.7 0.1 0.0 0.0 0.1 0.3 0.1
0.1 0.0 0.1 0.1 112.5 53.7 0.0 0.0 36.5 0.2 50.2 0.0 37.2 43.1 3.9 11.9 0.0 10.2
0.0 0.0

Computed monthly glacier runoff (in 10^6 m^3 per month) for 56 macroscale drainage basins over the period 1980 to 2100 for RCP8.5. Runoff refers to multi-model means of 14 GCMs.
Glacier runoff is defined as runoff from the initially glacierized area (i.e. including runoff from precipitation and snow melt in the growing deglacierized portions, see Methods).
Glacier runoff from each glacier basin (initially glacierized by 100%) is computed individually and then the runoff from all glaciers within the same macroscale drainage basin is summed up.
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Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year Month Glacier_runoff (mio. m^3 per month)
1980 1 0.0 0.1 0.6 0.1 0.0 0.0 0.0 0.0 0.0 0.3 0.0 2556.5 0.0 2013.7 0.0 0.0 0.0 0.0 782.2 0.0 873.5 0.0 0.0 0.3 2.1 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 156.7 38.4 0.0 0.0 48.7 0.0 62.5 0.0 54.5 43.1 3.8 25.4 0.0 12.9 0.0 0.0
1980 2 0.0 0.3 2.0 0.3 19.6 0.0 0.0 0.0 0.0 0.6 0.4 1796.6 0.0 1551.2 0.0 0.0 0.0 0.0 808.5 0.0 494.1 0.0 0.0 3.2 2.3 0.0 0.1 0.0 0.0 0.7 0.2 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 97.2 34.8 0.0 0.0 52.4 0.0 64.1 0.0 50.1 36.8 3.1 25.9 0.0 11.4 0.0 0.0
1980 3 0.4 4.2 17.0 2.5 9.8 0.1 0.0 1.0 0.0 2.5 1.2 1852.8 0.0 1929.0 1.6 0.9 0.0 0.1 661.5 0.3 714.9 0.0 0.1 2.0 6.6 0.0 0.0 0.0 0.0 0.0 1.1 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 126.9 41.2 0.0 0.0 47.6 0.0 47.5 0.0 40.2 38.2 8.1 33.5 0.0 17.7 0.0 0.0
1980 4 92.4 135.1 389.2 107.3 438.5 36.4 73.8 412.3 106.2 32.7 132.6 205.5 122.3 140.9 18.6 14.8 74.1 9.2 390.4 54.7 5.2 35.2 39.6 84.1 122.2 10.4 4.2 30.6 3.5 36.6 7.2 0.6 11.5 1.7 0.5 1.1 0.5 1.7 1.0 2.4 6.1 36.9 22.7 2.9 24.2 1.7 7.1 1.6 5.0 19.0 1.7 36.6 0.2 17.1 0.1 0.0
1980 5 990.7 920.8 2672.9 678.6 1553.6 606.1 608.2 1170.3 514.3 196.2 955.0 433.0 858.4 304.8 134.5 170.6 659.7 63.5 149.6 387.5 0.8 249.4 446.6 244.5 204.8 54.5 32.8 248.6 44.5 176.5 42.6 11.8 80.7 12.4 7.3 22.9 47.0 11.2 12.8 15.6 0.8 27.5 59.7 30.7 5.5 6.0 3.7 29.1 4.0 5.0 0.3 28.0 1.6 17.8 10.6 0.1
1980 6 5856.5 4825.3 11803.0 3907.2 5299.0 6928.5 2870.4 3073.4 1732.7 1072.5 2519.2 135.2 1437.5 82.9 927.8 1200.5 1163.2 429.7 86.4 1082.1 0.1 970.1 940.1 544.0 488.6 356.2 163.6 534.3 209.6 345.4 209.3 100.4 225.5 72.4 58.0 74.8 210.4 68.7 67.9 202.3 0.1 25.5 84.1 72.9 1.0 32.4 0.7 104.8 1.4 0.6 0.1 20.2 30.5 15.1 28.6 6.5
1980 7 16504.8 11096.9 15022.1 8306.9 8233.8 11588.7 4686.1 4211.7 2873.4 2148.7 2912.6 246.3 1834.5 215.8 1535.3 1708.7 1406.0 895.2 43.3 1356.7 2.1 1358.0 1063.1 657.4 532.6 761.8 294.2 593.1 480.6 453.5 338.0 187.5 253.1 135.6 184.5 138.2 262.9 144.2 160.4 241.8 1.1 16.7 124.6 145.2 0.1 67.5 0.6 122.7 1.6 0.1 0.0 9.9 36.2 8.3 34.9 17.3
1980 8 15381.6 11069.2 14466.5 8399.3 7110.2 10510.6 3534.8 4063.1 2205.7 2121.6 2913.6 126.2 1864.4 86.0 1637.7 1665.0 1328.6 879.4 77.6 1327.9 2.5 968.2 1138.5 818.9 669.9 524.9 527.4 704.7 385.2 574.5 325.8 289.1 198.9 214.9 167.0 182.6 277.0 141.6 127.6 307.9 0.3 23.6 118.3 110.3 0.9 46.4 2.5 90.3 3.2 0.5 0.0 14.1 42.9 9.1 35.9 6.0
1980 9 4367.2 2566.1 8024.5 2069.2 3067.4 4118.7 676.1 2288.5 620.4 515.7 1903.3 176.2 1481.3 75.3

595.5 707.4 949.9 181.6 144.9 647.9 0.2 222.3 869.9 491.6 432.0 90.1 360.0 581.3 89.4 326.5
120.4 171.3 111.3 141.1 38.8 124.2 128.6 33.3 28.7 123.8 0.0 25.8 117.9 56.7 7.8 13.7 0.5
62.7 1.5 3.7 0.7 14.0 12.3 6.4 21.5 0.0
1980 10 306.3 249.9 765.6 194.6 1293.7 149.5 226.7 1651.9 52.9 53.9 869.6 348.6 469.1 244.3 27.5
33.6 227.2 12.9 348.3 265.1 6.9 74.8 291.9 18.2 100.8 3.8 28.3 244.5 10.0 8.5 13.6 6.5
34.0 8.4 3.3 11.5 0.7 3.3 2.4 3.0 5.7 39.5 52.3 13.9 24.6 1.3 5.6 5.2 6.0 11.7 5.0
19.8 0.2 12.5 0.1 0.0
1980 11 2.1 4.6 22.3 3.1 100.9 1.6 0.0 48.7 0.4 2.0 35.7 900.3 0.4 786.5 1.6 0.9 0.4
0.1 651.3 7.5 21.3 0.0 7.9 0.3 4.3 0.0 0.0 9.6 0.1 0.3 1.1 0.0 0.0 0.0 0.0 0.1
0.0 0.1 0.0 0.0 13.3 22.3 0.3 0.0 49.7 0.0 25.2 0.0 15.5 19.7 4.2 17.5 0.0 13.1 0.0
0.0
1980 12 0.0 0.3 4.4 0.2 0.0 0.0 0.0 0.0 0.0 0.5 0.0 1713.1 0.0 1565.9 0.1 0.2 0.0
0.0 468.9 0.0 280.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 67.4 13.1 0.0 0.0 35.0 0.0 50.1 0.0 37.4 37.9 2.0 13.9 0.0 9.4 0.0
0.0
1981 1 0.0 0.1 0.5 0.1 204.9 0.0 3.3 116.3 2.1 0.2 15.2 2166.2 0.4 1788.3 0.0 0.0
0.0 0.0 834.5 5.7 504.6 0.0 1.0 0.0 0.0 0.7 0.0 2.2 0.0 0.0 0.1 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 98.2 29.5 0.2 0.0 55.1 0.1 61.2 0.0 41.4 49.5 3.5 24.1 0.0 9.5
0.0 0.0
1981 2 0.0 0.4 3.2 0.2 6.3 0.0 0.0 0.0 0.0 0.4 0.1 2311.2 0.0 1715.3 0.3 0.1 0.0
0.0 603.5 0.0 710.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 125.0 26.6 0.0 0.0 49.1 0.0 42.5 0.0 38.1 36.3 5.4 23.2 0.0 10.2
0.0 0.0
1981 3 1.0 3.7 15.6 2.1 63.8 0.3 0.4 40.9 5.0 2.3 16.5 1165.0 2.7 1242.3 1.0 0.6 0.6
0.1 774.7 4.7 289.2 0.3 2.4 0.0 0.0 0.2 1.9 1.6 0.0 0.0 0.8 0.0 0.1 0.7 0.0 1.0
0.0 0.1 0.0 0.0 74.4 32.6 1.2 0.0 59.9 0.2 40.6 0.0 36.5 38.5 3.4 28.7 0.0 13.2 0.0
0.0
1981 4 45.4 179.1 223.6 133.5 74.2 34.8 6.6 67.2 29.8 45.9 26.8 817.6 17.4 654.4 20.9 16.0
12.1 14.1 381.9 10.3 44.8 3.2 11.2 66.1 114.2 3.0 22.6 10.1 2.8 39.1 6.3 6.2 1.0 8.5
0.4 9.4 0.0 2.2 0.7 0.5 24.0 33.5 5.9 1.5 24.4 1.6 27.2 0.9 22.1 22.4 2.1 36.7 0.0
13.9 0.0 0.0
1981 5 1147.8 963.2 2825.0 737.4 3002.7 595.3 1225.7 1950.8 914.7 211.3 1361.8 328.8 663.8 191.0
141.0 198.2 436.7 74.3 184.7 570.6 3.2 369.5 566.4 119.1 101.3 156.1 55.5 306.0 37.5 102.9
47.0 23.8 53.7 22.5 6.5 36.7 48.8 11.5 10.6 33.2 3.5 27.5 48.8 9.3 10.3 20.2 7.4 31.6
7.2 5.1 0.1 24.7 3.5 12.3 8.7 0.0
1981 6 3193.6 4570.7 10406.0 3620.3 4910.1 4726.6 2492.0 2547.7 2175.2 1082.9 1756.6 151.4 759.5 119.8
1015.7 1153.4 542.7 438.3 63.0 825.5 0.1 477.9 659.3 274.9 235.1 514.7 263.6 354.3 210.5 268.5
198.0 162.8 69.4 122.2 56.2 110.7 97.0 68.9 68.6 54.2 0.1 19.0 80.3 97.1 0.4 42.2 0.8
84.0 2.5 0.6 0.0 18.8 6.8 7.4 18.4 2.8
1981 7 16333.0 11568.6 16055.1 8319.9 7817.5 13866.6 4062.9 4232.1 2700.8 2201.7 3053.6 116.8 1933.1
62.9 1651.4 1803.1 1525.3 920.1 53.5 1336.9 0.1 1192.4 1169.7 488.9 426.3 630.4 388.1 668.0 456.3
368.5 343.8 256.5 294.3 171.4 175.3 160.2 186.7 148.9 153.6 225.7 0.2 20.1 120.4 132.4 0.3
55.6 0.4 109.5 0.9 0.1 0.0 14.2 34.4 13.7 24.9 9.7
1981 8 14485.6 10939.9 14555.2 7697.5 10919.7 10747.8 4362.9 5783.1 2839.9 2083.3 3592.2 195.1 2569.2
158.2 1709.5 1640.8 1862.0 863.5 103.3 1592.3 0.5 1434.6 1333.8 862.7 765.2 692.3 471.8 785.5 379.9
535.5 296.3 255.6 356.3 188.6 168.0 163.0 138.8 139.2 125.7 163.2 0.0 32.1 161.3 120.9 0.6
59.9 1.4 79.6 2.1 0.3 0.1 17.5 23.0 13.1 18.2 3.2
1981 9 3889.6 2902.4 7882.7 2307.5 3164.0 3602.2 724.0 2906.8 637.9 615.3 2629.3 342.4 1490.9 214.9
654.5 797.4 1052.8 228.4 157.2 946.4 1.4 350.6 1003.6 379.1 375.0 97.2 353.1 586.8 78.9 211.0
119.1 183.2 160.9 148.7 30.8 143.0 101.5 40.4 25.6 60.7 1.1 45.2 117.8 81.8 2.4 13.6 1.8
56.7 3.6 1.7 0.4 20.3 6.6 13.4 19.1 0.0
1981 10 201.5 236.4 1454.6 183.0 879.2 171.7 126.9 905.8 31.7 50.4 324.8 725.0 182.2 482.3 73.8
75.8 68.6 12.4 461.5 92.4 6.1 19.9 112.1 13.2 79.2 1.4 51.5 85.6 12.0 7.1 18.3 10.5 7.4
15.4 4.2 19.6 2.7 3.0 3.2 5.4 5.9 64.3 27.7 41.1 26.9 1.2 8.6 11.3 7.1 15.1 4.2

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1981 11 0.4 5.0 20.4 2.9 8.2 0.6 0.0 1.2 0.0 2.3 9.1 744.4 0.6 491.4 0.9 1.2 0.2
0.1 566.7 1.2 16.2 0.0 1.4 0.0 2.1 0.0 0.1 2.7 0.0 0.0 1.4 0.0 0.0 0.1 0.0 0.1
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1981 12 0.0 0.3 1.3 0.2 0.0 0.0 0.0 0.0 0.0 0.5 0.0 1783.7 0.0 1806.0 0.0 0.0 0.0
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1982 1 0.0 0.1 1.2 0.1 0.0 0.0 0.0 0.0 0.0 0.2 0.0 2934.2 0.0 2388.3 0.1 0.0 0.0
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1982 3 2.4 6.4 18.5 4.2 1.6 0.2 0.0 0.6 0.0 3.5 1.2 1530.2 0.0 1254.9 1.9 0.9 0.0
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1982 4 58.1 186.1 310.2 139.1 47.5 27.0 4.6 71.4 7.5 43.6 22.5 892.2 7.5 690.6 15.0 17.3
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2.1 0.1 2.2 0.8 0.9 28.3 37.4 3.4 8.5 20.6 0.1 30.1 1.3 21.6 18.8 1.6 31.9 0.0 15.1
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1982 5 627.7 905.4 2197.4 713.4 757.6 216.9 192.1 660.6 250.2 207.6 396.8 552.3 364.1 454.9
151.6 153.5 186.5 73.5 130.1 168.0 1.5 72.7 181.1 72.0 60.9 13.9 69.9 90.4 38.0 51.6 35.3
29.9 19.2 27.9 6.5 39.6 14.6 11.4 10.6 12.2 1.8 25.1 36.5 33.6 2.3 2.2 9.4 16.9 10.3
4.0 0.0 30.5 1.5 12.0 2.8 0.0
1982 6 3202.0 4220.7 11244.3 3360.2 4750.2 4999.9 2432.1 3130.0 1535.5 980.1 2768.5 53.2 1893.4 10.4
844.1 1097.8 1338.3 394.2 64.9 1117.3 0.0 887.2 1083.1 454.5 361.6 340.7 365.1 632.4 188.6 365.5
195.3 207.2 226.1 156.0 56.8 138.3 91.9 64.2 61.1 46.1 0.0 19.5 119.7 54.3 0.6 32.9 0.3
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1982 7 12137.8 10882.6 15006.7 8071.3 8071.5 12061.6 4977.3 4439.2 2777.7 2215.2 3457.2 251.0 2142.0
149.1 1696.6 1591.1 1514.6 927.4 40.1 1574.0 0.5 1314.8 1290.1 796.4 681.7 658.5 657.2 720.0 449.6
511.5 307.1 338.9 277.9 261.8 177.4 207.5 201.1 146.7 148.2 212.4 0.3 14.9 126.5 142.6 0.0
54.2 0.9 87.4 1.0 0.1 0.0 12.6 30.0 5.6 26.3 20.5
1982 8 17271.9 10729.4 13624.0 7327.5 7372.9 12106.1 3777.9 4608.2 2437.7 1874.3 3527.9 225.7 1953.3
118.5 1366.3 1489.2 1458.8 774.4 62.2 1593.2 2.1 1077.9 1227.1 530.8 466.7 606.1 463.0 692.1 354.1
367.4 276.9 280.0 269.0 197.9 165.0 167.6 203.0 125.2 117.0 165.7 0.3 21.4 125.7 96.4 0.4
51.6 0.9 85.7 1.2 0.3 0.1 14.5 23.2 6.3 26.6 14.5
1982 9 2322.1 2516.2 9752.6 2027.8 4591.8 3193.4 1282.4 3449.3 1101.0 552.5 2877.5 201.0 1630.0 90.8
699.9 955.5 1010.4 204.7 93.7 1067.9 0.7 473.3 1170.8 167.5 175.7 174.8 522.0 728.9 74.6 94.9
142.5 267.8 144.0 218.8 33.2 172.4 65.5 34.9 23.5 35.1 0.6 31.1 109.9 61.3 1.5 21.9 1.1
98.8 1.9 2.6 0.2 19.4 3.0 8.6 13.1 0.8
1982 10 166.2 168.6 939.2 132.5 219.7 128.9 35.5 461.6 0.0 38.2 387.8 782.0 251.3 491.8 51.8
44.4 99.2 7.8 438.1 116.4 5.0 26.8 124.5 230.4 329.4 0.0 39.7 107.4 9.7 60.4 13.0 15.1
13.2 13.7 3.0 17.0 8.9 1.9 2.7 9.7 5.1 55.3 32.6 11.3 26.5 0.1 8.3 7.7 8.1 9.4 2.0
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1982 11 0.4 4.1 16.2 2.7 2.9 1.1 0.0 0.0 0.0 2.1 0.0 906.8 0.0 638.8 0.6 0.6 0.0
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1983 5 467.9 863.3 2233.3 686.3 1626.9 445.1 565.9 1419.0 531.7 199.8 1333.9 456.7 854.3 475.9
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1983 6 3086.9 4370.8 8816.2 3520.5 5254.2 2622.7 2865.9 3224.8 1891.5 1027.2 2639.0 202.6 1391.2 77.9
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1983 7 11191.4 9967.1 14347.8 7787.6 8712.3 10857.1 5289.5 4655.0 2976.6 2081.1 3346.6 5.1 1885.4 3.3
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1983 9 8370.3 3273.3 8587.3 2361.4 2204.6 6291.6 296.2 1775.8 388.5 533.2 1412.6 123.2 688.5 145.0
689.3 803.0 433.7 186.4 185.9 503.1 1.5 113.8 638.4 165.6 161.4 58.3 355.6 440.1 65.4 111.6
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1983 10 125.1 178.7 1763.7 140.6 631.2 240.6 59.4 631.1 11.6 35.3 389.2 548.1 172.5 334.1 121.9
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1984 4 76.7 145.9 334.0 109.1 274.3 40.1 34.6 323.4 18.0 34.2 99.0 877.9 22.9 645.4 24.0
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1984 5 913.8 865.6 3520.2 637.5 1475.5 964.1 426.0 1171.1 379.3 180.5 680.7 46.7 165.6 43.5
158.8 175.5 96.6 62.8 174.7 366.8 0.1 66.4 228.2 205.5 178.2 29.1 12.3 81.1 29.4 104.6 40.5
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1984 6 9193.0 5257.1 10516.9 4009.7 4978.4 9394.1 2878.7 2921.3 2261.6 1092.4 1842.5 18.3 1153.7 8.0
918.5 1112.8 885.8 448.9 62.5 899.7 0.0 688.6 687.2 667.3 586.0 559.7 205.1 377.9 191.1 420.9
195.2 111.3 125.3 90.1 59.7 85.6 112.2 71.3 61.3 149.7 0.0 14.9 80.4 64.9 1.2 47.4 0.0
78.0 0.2 0.4 0.0 11.2 22.2 5.6 18.3 9.6
1984 7 17034.2 11313.1 14236.1 8165.8 7078.2 12656.7 3920.0 3893.5 2915.6 2105.8 2710.9 190.9 1772.6
89.9 1613.9 1614.7 1353.5 886.7 88.3 1224.0 0.0 1053.7 967.0 926.0 796.3 698.5 446.1 544.4 412.8
575.1 316.0 227.1 232.9 182.5 170.6 161.2 168.1 140.8 137.1 185.7 0.0 25.3 121.4 136.6 0.9
58.0 0.1 92.5 0.2 0.1 0.0 13.1 27.9 16.3 24.0 14.1
1984 8 26321.0 12127.8 14545.3 8487.8 7792.6 14503.8 3494.8 4716.9 2502.4 1993.4 3430.1 264.2 1881.8
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533.1 294.1 230.0 326.8 165.1 173.5 142.4 179.3 134.4 120.8 180.4 0.0 40.1 125.2 87.6 4.2
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1984 9 4036.5 3079.4 8089.6 2535.6 3468.8 2920.2 835.8 2514.7 955.9 663.0 1597.0 223.4 562.6 97.1
551.2 645.7 371.7 248.8 164.1 659.8 0.3 98.0 536.6 450.3 414.8 192.7 148.6 275.5 79.8 252.1
123.6 65.6 36.1 58.1 30.8 66.1 35.0 42.4 24.9 49.2 0.2 35.3 75.4 87.8 6.1 25.2 0.6 69.1
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1984 10 235.2 202.3 1824.4 158.5 394.4 277.5 40.7 286.6 21.1 44.7 157.3 456.4 40.2 344.9 43.7
80.5 22.5 8.6 395.4 49.5 15.3 3.0 43.7 126.1 239.0 1.3 45.3 37.7 10.9 27.0 22.6 18.2 1.0
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1984 11 1.2 3.6 12.6 1.9 4.7 0.4 0.0 0.0 0.0 1.9 0.2 1292.7 0.0 884.7 1.1 0.5 0.0
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1985 5 426.2 851.2 2816.7 652.6 956.7 455.9 212.4 751.0 247.3 185.2 536.2 377.3 642.4 292.1
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1985 6 3223.8 4061.3 9422.5 3232.4 2633.4 5290.3 1408.0 1926.9 1199.3 941.8 1545.7 163.4 1085.2 163.5
857.4 948.4 777.4 377.9 29.3 601.7 0.6 514.6 649.9 373.8 324.2 226.0 179.7 361.9 194.2 295.0
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1985 7 17753.7 11154.4 15898.6 8311.6 7018.9 13140.2 4342.0 3587.2 2839.0 2146.0 3111.0 21.9 2248.0
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375.6 311.0 336.7 330.8 240.1 178.6 203.5 210.8 146.5 152.6 242.4 0.2 9.1 163.4 81.6 0.2 63.9
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1985 8 17171.8 11713.6 13072.2 8024.1 6108.3 11631.7 2813.5 3150.2 2491.7 2045.5 2349.9 53.0 2111.5
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1985 9 5932.4 3030.5 8966.0 2555.4 2962.6 4648.3 573.0 2102.8 664.6 612.2 1630.0 313.5 719.2 232.6
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1985 10 97.4 232.5 1211.2 188.9 149.8 238.2 23.6 222.8 0.7 50.4 134.6 649.7 85.3 399.0 43.8
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1986 5 236.8 891.2 2214.4 703.6 1043.7 246.8 218.8 817.9 313.4 207.5 512.0 396.7 383.7 290.4
182.0 172.8 311.1 72.0 85.6 189.0 1.1 76.3 194.5 84.1 63.6 26.7 123.7 94.1 23.4 59.4 34.8
104.2 40.8 61.3 3.9 68.2 36.9 12.0 6.4 51.4 1.2 17.7 50.9 8.5 3.8 2.9 2.7 17.9 3.7
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1986 6 4452.9 4691.8 10555.9 3686.1 3875.3 6108.9 2081.4 2664.1 1594.2 1069.4 2164.0 143.0 1431.1 61.3
970.9 1120.1 1229.1 431.1 39.5 920.9 0.1 673.1 823.6 542.8 477.8 393.7 306.0 463.8 198.9 315.8
183.1 166.8 195.9 131.6 55.4 122.9 182.0 68.9 64.5 163.6 0.0 12.3 105.0 86.2 0.6 32.1 0.6
78.3 1.4 0.5 0.0 8.0 23.4 7.4 24.5 7.9
1986 7 17034.2 12340.5 15583.5 8644.9 8150.9 12063.9 5099.2 4080.9 3329.3 2246.8 2967.8 294.6 1594.5
159.5 1546.6 1774.5 1126.7 934.8 16.4 1376.2 0.3 1111.9 1066.1 606.9 516.7 753.3 517.8 591.5 459.5
425.8 321.7 252.5 197.9 204.4 184.5 179.3 176.0 151.4 155.7 204.6 0.2 6.6 95.7 127.1 0.0 57.5
0.8 97.5 1.4 0.1 0.0 3.3 30.9 4.5 23.4 16.8
1986 8 16011.7 11815.9 14128.6 7808.8 6363.5 11003.1 2842.3 3803.0 2350.3 2029.3 2877.5 270.6 2258.8
113.7 1433.7 1554.3 1693.1 840.5 43.5 1204.2 1.0 1113.2 1091.9 742.2 574.9 641.7 508.2 647.6 370.6
462.2 290.0 309.3 336.2 215.7 162.9 177.3 150.7 137.0 122.2 127.5 0.1 13.8 163.6 145.9 0.8
56.4 0.6 84.2 1.5 0.3 0.1 5.9 17.8 5.1 21.2 6.7
1986 9 3747.8 2862.6 8720.5 2380.4 3387.6 3678.2 938.8 2002.7 1000.7 616.3 1838.9 314.3 886.4 183.4
538.4 821.7 464.6 230.9 144.9 702.0 2.3 208.0 745.3 337.0 298.3 186.3 308.4 472.1 82.9 231.5
130.0 163.9 47.3 139.1 36.5 116.8 6.2 39.1 26.9 26.7 2.1 41.2 94.2 115.2 5.1 24.7 2.6
80.4 3.7 1.7 0.5 10.2 2.9 7.8 1.7 0.4
1986 10 348.8 279.0 742.7 232.8 1130.7 127.3 198.2 1181.2 37.4 59.4 1290.3 623.1 606.2 387.7
33.8 33.0 242.1 15.2 334.7 354.6 6.6 75.9 643.4 40.2 122.4 4.6 124.3 456.1 10.1 15.7 11.1
42.7 27.1 46.1 3.0 46.2 4.8 3.2 3.1 15.3 6.3 35.7 66.7 17.8 25.2 2.1 5.7 3.0 6.4
9.4 1.5 13.8 1.0 9.6 1.0 0.0
1986 11 1.5 4.1 22.5 2.9 14.3 1.6 0.1 0.0 0.0 1.9 2.2 1552.0 0.1 1393.5 1.0 0.4 0.2
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1987 4 48.6 160.5 266.0 114.9 186.9 44.9 32.5 309.5 52.5 38.5 108.0 1471.7 86.4 1210.6 19.1
14.7 49.5 11.3 411.1 46.4 39.6 18.1 34.2 58.7 95.9 2.8 23.6 30.4 3.6 27.3 6.8 6.2 6.5
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1987 5 165.7 907.8 2186.1 704.6 1665.8 193.2 471.6 1201.5 415.3 209.8 656.1 440.5 636.6 226.5
175.5 143.8 442.6 71.2 159.7 282.8 0.2 174.7 291.1 232.0 204.2 37.4 20.3 154.4 47.6 145.7
34.0 7.1 53.5 8.3 8.0 14.5 10.9 10.9 13.8 10.8 0.2 29.6 73.4 31.3 5.9 4.5 0.9 16.7
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1987 6 2525.6 4658.5 10456.9 3625.0 3508.5 4931.8 1700.4 2366.6 1484.0 1117.7 1995.7 364.4 1572.4

303.6 1058.4 1134.5 1195.2 443.7 59.0 821.1 0.3 752.6 811.3 409.8 333.5 347.3 190.5 473.1 234.8
321.2 188.8 98.2 201.1 79.0 67.3 81.4 94.3 70.7 76.2 140.3 0.3 20.7 104.1 90.8 0.5 33.9
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1987 7 8653.3 10517.4 16229.3 7832.6 7647.3 10679.3 4928.6 4159.2 3041.6 2225.4 3501.7 165.3 2068.9
81.0 1670.2 1744.9 1724.6 927.0 22.8 1604.7 1.9 1338.4 1247.9 748.4 648.4 770.3 535.2 702.2 470.7
493.2 329.8 344.3 372.6 230.3 188.2 192.4 157.0 145.6 157.5 166.5 1.2 10.5 125.2 140.4 0.0
62.7 1.2 98.5 1.5 0.1 0.0 5.2 23.8 5.4 20.9 18.4
1987 8 14037.2 11270.0 16123.7 8041.8 7605.7 13284.8 4120.6 4212.5 2535.0 2132.4 3277.0 143.9 1992.4
41.9 1553.9 1754.3 1566.2 885.5 70.5 1518.2 1.8 1188.8 1229.4 668.7 549.6 652.0 539.9 668.4 385.4
491.8 320.7 243.9 247.3 215.3 176.8 179.0 120.2 141.8 127.6 123.2 0.2 29.0 129.5 110.2 0.6
59.8 1.3 96.2 1.2 0.3 0.0 9.5 16.2 11.5 18.4 15.6
1987 9 5111.3 3395.5 10576.2 2646.0 3992.9 5373.1 833.9 3206.4 687.1 687.4 2686.7 141.8 2125.4 68.1
529.2 1108.0 1701.7 264.0 119.2 918.4 0.7 575.4 1260.0 491.9 463.5 97.0 600.8 799.0 85.3 278.5
160.3 290.8 274.6 240.1 31.2 199.5 19.6 43.7 26.3 53.0 0.6 40.9 158.5 35.6 3.0 10.1 1.7
103.8 2.9 2.7 0.4 14.9 6.5 11.4 3.7 0.1
1987 10 124.5 236.6 1127.7 188.5 1185.5 178.1 188.5 1430.7 58.1 51.2 622.8 718.2 529.8 480.9
49.8 53.7 214.7 11.9 291.3 218.2 19.3 64.7 212.5 76.9 174.7 3.9 145.6 193.1 12.3 20.4 15.0
40.0 28.9 45.2 4.1 51.5 11.5 2.6 2.9 59.1 15.6 49.3 73.0 6.4 12.3 1.8 22.9 8.6 15.5
11.8 1.6 13.4 6.2 7.7 2.1 0.0
1987 11 0.7 4.9 40.4 3.3 119.0 2.4 0.0 160.1 0.0 1.9 41.3 839.4 2.3 547.9 1.6 1.2
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1987 12 0.1 0.6 3.9 0.3 1.8 0.1 0.0 0.1 0.0 0.5 2.2 1607.2 0.0 1266.6 0.0 0.2 0.0
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1988 2 0.0 0.9 6.8 0.7 3.3 0.1 0.0 0.0 0.0 0.9 0.5 2231.9 0.0 1970.7 0.2 0.3 0.0
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1988 3 0.7 5.2 26.0 3.2 42.8 0.5 0.2 42.7 0.0 2.4 23.2 1816.1 0.3 1554.4 0.9 1.1 0.1
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1988 4 72.1 165.3 293.0 125.4 257.3 36.2 45.3 340.0 27.5 40.1 133.4 689.3 102.3 531.9 16.0
15.8 42.7 12.7 561.8 63.6 37.0 23.1 55.7 2.3 7.5 1.6 20.0 39.4 3.6 2.0 7.1 6.3 6.0
7.5 0.7 6.5 0.0 1.9 1.0 0.1 18.1 46.1 18.6 4.5 36.2 0.4 16.8 0.9 13.2 17.3 4.6 29.9
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1988 5 735.6 892.4 2930.0 683.4 1679.3 633.1 632.7 1279.9 636.8 196.6 946.7 619.4 538.1 232.1
187.1 155.1 384.2 68.3 190.3 389.8 0.9 198.8 384.6 233.0 183.9 74.5 100.9 186.8 47.3 185.9
43.4 58.7 51.8 42.6 7.9 59.0 48.4 11.0 13.7 19.2 0.9 36.1 49.5 13.2 8.5 9.2 1.2 26.0
2.0 6.6 0.5 25.1 2.1 13.2 6.5 0.0
1988 6 4897.4 4366.9 9197.4 3367.8 4981.7 5322.0 2772.0 2811.6 2243.2 974.5 1960.5 348.3 1277.5 206.1
890.4 970.9 1184.7 388.2 44.8 892.0 0.3 814.1 703.2 595.3 540.3 537.2 248.8 377.1 201.7 365.8
161.7 123.1 213.8 103.3 58.1 97.1 196.5 62.7 65.6 139.8 0.1 12.5 83.6 94.4 0.6 40.2 0.3
69.2 1.1 0.7 0.0 9.2 21.2 5.2 27.9 9.4
1988 7 19752.5 11892.1 16583.4 8498.1 8004.4 15521.8 5116.7 3686.2 3529.4 2201.2 2647.2 141.2 1795.3
74.6 1676.1 1849.8 1431.5 923.5 60.9 1134.2 0.2 1099.7 1018.2 781.7 676.9 911.8 475.0 570.6 453.0
445.8 337.6 306.3 280.8 206.2 191.7 169.5 241.8 148.9 151.1 273.8 0.2 22.7 125.0 158.8 0.5

73.3 0.9 119.8 2.7 0.2 0.0 11.7 40.8 16.5 33.1 18.2
1988 8 15115.1 11449.9 17652.3 8303.4 7838.0 12220.5 3790.1 4357.5 2626.7 2181.9 3087.8 100.8 2199.0
49.1 1641.9 1872.8 1901.6 903.3 107.7 1323.2 0.8 1309.5 1156.5 1087.0 958.0 702.1 572.5 655.8 392.2
599.3 345.2 334.9 387.7 237.2 181.5 190.6 244.7 145.3 130.1 273.3 0.0 36.7 124.0 122.9 1.3
60.4 0.5 130.7 0.8 0.4 0.1 13.7 39.6 13.9 31.2 15.3
1988 9 5115.9 3367.7 10538.8 2828.1 2689.9 5222.3 568.8 1822.0 753.3 740.2 1662.0 185.9 1299.8 83.1
744.6 944.2 981.5 279.6 267.5 592.8 0.5 269.2 713.9 397.6 369.4 132.8 244.2 507.9 92.4 239.2
156.4 130.1 123.9 101.0 39.0 92.4 129.8 47.2 29.5 155.9 0.4 66.9 126.5 46.6 8.0 14.7 1.0
88.4 2.3 4.7 1.1 17.1 16.2 17.0 19.8 0.2
1988 10 150.3 270.4 1881.4 219.4 866.9 254.9 135.8 1114.6 3.1 60.4 690.6 775.6 566.5 613.9 140.9
115.4 360.5 14.4 490.1 182.8 10.3 68.7 265.7 164.3 254.2 0.1 117.9 262.3 9.9 63.5 35.2 53.1
44.4 45.6 3.2 48.3 3.2 3.6 2.6 10.4 9.0 70.2 102.8 20.9 27.9 0.3 13.2 30.2 11.0 10.0
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1988 11 2.9 5.7 29.1 4.0 5.6 1.4 0.0 4.9 0.0 2.5 14.3 1371.8 0.1 1201.6 1.0 1.3 0.2
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1988 12 0.0 0.3 3.5 0.2 2.3 0.0 0.0 0.0 0.0 0.4 0.3 1741.3 0.0 1419.3 0.2 0.0 0.0
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1989 2 0.0 0.6 1.4 0.4 0.0 0.0 0.0 0.0 0.0 0.4 0.0 2149.4 0.0 1754.8 0.0 0.1 0.0
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1989 4 16.7 189.2 218.3 138.5 397.5 15.8 74.8 421.5 47.3 44.8 277.4 1057.4 93.5 831.1 16.5
14.7 30.5 13.1 319.6 100.1 40.7 16.6 101.0 21.0 43.1 0.2 6.3 62.5 3.9 10.2 6.6 1.8 2.3
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1989 5 356.6 927.7 2815.8 696.2 1945.8 657.7 585.5 1526.7 313.2 211.2 1171.3 620.4 597.6 415.8
169.1 200.2 308.1 69.2 79.4 486.1 0.9 193.7 460.6 126.6 109.7 21.6 160.7 231.5 48.2 63.9 43.2
52.3 33.7 58.3 8.0 73.0 10.2 11.6 13.4 14.7 0.8 17.0 52.3 18.5 4.1 2.5 1.2 27.0 2.0
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1989 6 2395.5 4744.5 10715.2 3714.4 5159.8 5477.3 2548.3 3013.8 1863.4 1115.9 2418.9 170.2 1555.2
127.6 947.1 1098.8 1109.8 456.2 46.5 1020.4 0.3 869.8 922.6 323.2 276.6 428.0 244.5 518.6 213.4
270.2 185.7 102.6 177.4 96.5 63.8 90.4 138.9 73.9 69.3 127.3 0.3 14.4 105.7 77.1 1.7 37.6
1.5 85.2 3.0 0.5 0.0 7.4 18.6 5.0 20.8 7.9
1989 7 12140.0 11427.7 16383.0 8567.9 10212.6 13335.1 6172.7 5642.1 3170.0 2353.2 4066.6 161.0 1962.4
66.0 1594.4 1787.4 1513.1 990.3 35.6 1917.0 0.3 1406.4 1404.7 727.6 636.8 772.7 654.6 756.5 481.5
445.7 346.0 309.8 282.5 251.8 205.3 212.2 175.9 159.9 162.5 164.5 0.2 17.4 124.9 137.6 0.1
65.7 0.1 108.0 0.2 0.2 0.0 4.1 25.4 1.9 23.9 15.8
1989 8 10399.0 10957.2 13933.6 8218.8 10844.2 10877.1 6210.6 6142.9 3364.8 2281.1 5029.4 91.4 2624.2
33.5 1564.4 1566.7 1865.6 948.6 93.7 2173.5 0.5 1964.9 1739.6 616.4 598.9 923.8 692.1 1056.1 421.7
391.6 311.6 282.0 357.7 258.7 209.2 220.7 136.1 153.2 141.8 180.3 0.0 34.8 130.8 144.4 2.8
82.7 0.3 78.3 0.9 0.6 0.2 7.5 24.7 4.4 20.1 19.4
1989 9 3818.8 3002.1 10270.0 2354.5 6080.6 5399.4 1655.2 4138.6 1439.7 634.3 3295.7 353.2 1868.9 143.4

789.9 906.6 1146.9 239.5 174.5 1283.9 0.3 452.6 1289.2 428.8 413.0 351.6 316.7 784.4 88.7 215.9
146.4 127.1 159.6 120.3 42.8 117.1 51.8 41.8 29.0 81.7 0.2 52.8 128.0 71.4 8.4 48.2 0.9
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1989 10 145.1 257.0 1404.7 210.7 583.8 292.6 70.6 628.5 14.1 56.7 345.8 598.0 248.7 312.7 36.7
42.4 106.6 12.6 359.1 85.7 4.7 22.4 140.4 237.1 326.4 0.6 98.2 138.5 9.4 73.2 16.3 29.2
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1990 1 0.1 0.1 2.1 0.1 0.1 0.0 0.0 0.4 0.0 0.2 0.2 2192.2 0.0 1766.2 0.0 0.1 0.0
0.0 625.8 0.1 962.6 0.0 0.0 2.3 9.7 0.0 0.0 0.0 0.0 0.7 0.3 0.0 0.0 0.0 0.0 0.0
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1990 2 0.0 0.4 2.3 0.2 0.0 0.0 0.0 0.0 0.0 0.3 0.0 2676.2 0.0 2309.4 0.1 0.0 0.0
0.0 427.7 0.0 750.0 0.0 0.0 0.3 0.0 0.0 1.6 0.0 0.0 0.0 0.2 0.0 0.0 0.7 0.0 0.8
0.0 0.0 0.0 0.0 157.6 18.6 0.0 0.0 29.1 0.0 70.2 0.0 63.7 39.1 0.3 20.6 0.0 7.0 0.0
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1990 3 0.6 5.9 14.8 3.3 15.2 0.2 0.0 21.4 0.0 2.5 11.1 1864.8 0.6 1536.3 0.7 0.5 0.1
0.1 451.2 3.0 190.6 0.0 1.6 0.0 0.0 0.0 0.8 0.3 0.0 0.0 0.6 0.0 0.0 0.5 0.0 0.5
0.0 0.1 0.0 0.0 63.6 31.9 0.4 0.0 34.0 0.0 49.7 0.0 35.7 37.3 1.9 27.7 0.0 10.7 0.0
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1990 4 44.5 176.4 201.8 134.6 374.2 14.8 72.8 461.4 108.4 39.2 172.9 443.1 123.5 234.6 18.9
15.6 35.6 12.9 395.3 79.0 17.6 10.3 64.6 5.0 15.1 2.1 6.2 52.5 2.7 2.3 7.1 1.8 2.9
3.0 0.5 2.1 0.4 2.1 0.8 1.7 12.0 38.0 23.8 3.0 30.2 1.8 10.4 0.3 7.7 19.1 2.4 27.3
0.1 13.3 0.1 0.0
1990 5 1124.1 1138.5 2946.1 907.5 2329.1 1448.5 838.3 1651.2 603.9 260.2 1314.5 444.7 575.3 291.9
119.9 163.6 258.6 90.1 201.2 508.7 1.4 160.8 533.7 313.1 233.8 73.6 170.4 268.1 48.6 211.6
41.7 70.9 28.2 65.8 8.5 78.3 47.5 14.7 13.8 8.3 1.4 27.2 43.8 18.8 10.4 8.6 1.2 23.7
2.5 4.8 0.6 21.8 1.1 10.0 8.6 0.7
1990 6 7565.8 5382.1 12587.0 4238.3 5865.1 8524.5 3103.9 3211.3 2243.4 1157.2 2386.2 330.9 1423.8
190.4 887.2 1122.8 1064.9 476.2 61.0 1027.1 0.3 708.2 872.7 437.0 386.9 519.9 253.4 494.5 245.5
312.5 201.9 131.0 169.1 106.4 82.8 105.3 155.5 73.0 79.5 151.5 0.5 16.3 95.8 69.4 0.7 42.5
0.5 103.5 1.5 0.6 0.0 15.1 21.7 6.1 21.9 9.7
1990 7 16273.0 12806.0 16256.0 9280.3 9214.5 14576.0 5444.4 5319.2 3174.3 2454.7 3699.9 190.8 2285.2
89.9 1648.6 1763.9 1610.0 1024.4 17.1 1697.4 0.5 1220.8 1321.1 724.6 644.0 814.1 560.7 748.9 476.9
486.3 344.9 277.5 295.3 218.4 205.2 185.7 184.1 165.0 158.7 231.9 0.2 8.2 156.0 134.3 0.1
64.9 0.2 101.7 0.9 0.2 0.0 3.6 34.4 2.9 24.6 19.9
1990 8 21477.4 13323.5 15126.4 9656.7 10115.2 12645.9 5654.8 6019.5 3422.1 2388.8 4273.1 134.4 2579.5
43.2 1576.9 1696.9 1796.0 1006.3 55.6 1987.4 1.0 1522.3 1512.1 974.6 789.4 943.1 756.7 879.8 413.9
630.9 324.6 328.0 345.0 287.7 199.0 237.7 183.3 161.7 139.2 201.0 0.0 21.4 165.5 94.0 0.8
71.1 0.6 80.0 1.0 0.3 0.0 7.4 29.6 6.2 24.4 24.5
1990 9 9092.3 3466.9 10187.8 2983.4 5459.3 7233.1 1393.7 4312.4 1070.0 655.4 2827.2 304.5 2267.9 117.6
411.3 623.8 1459.1 247.8 151.3 1221.9 0.4 538.5 1028.2 337.5 306.5 186.4 255.2 657.1 100.5 198.4
122.2 102.1 243.7 103.6 42.3 104.5 32.0 41.7 32.3 66.5 0.2 35.6 148.9 62.4 5.1 24.0 1.5
71.7 2.3 2.0 0.4 11.1 9.1 7.0 4.5 0.1
1990 10 260.2 255.0 1098.9 203.6 290.8 216.6 40.3 384.8 6.8 57.6 137.0 689.8 63.1 458.9 40.6
42.6 28.6 13.5 324.3 41.0 10.3 3.4 35.1 275.0 370.9 0.2 153.0 40.3 13.4 88.8 14.5 49.3
1.5 51.7 5.2 62.3 8.4 3.0 3.1 19.6 8.3 49.6 16.5 16.2 24.8 0.4 11.0 7.2 9.3 11.8

3.2 16.7 2.2 9.2 1.4 0.0
1990 11 0.8 5.5 37.9 3.8 0.0 2.8 0.0 0.0 0.0 2.8 0.0 1480.5 0.0 1054.8 1.5 1.7 0.2
0.2 348.0 0.0 76.2 0.0 0.0 33.7 49.5 0.0 0.3 0.0 0.0 13.2 2.0 0.0 0.0 0.2 0.0 0.2
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1990 12 0.0 0.5 3.5 0.3 0.0 0.0 0.0 0.0 0.0 0.6 0.0 1970.4 0.0 1609.1 0.1 0.1 0.0
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0.0 0.0 0.0 0.0 98.9 13.4 0.0 0.0 51.0 0.0 46.2 0.0 39.6 38.0 0.7 15.7 0.0 10.5 0.0
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1991 1 0.0 0.1 0.4 0.1 0.0 0.0 0.0 0.0 0.0 0.2 0.0 2001.7 0.0 1653.0 0.0 0.0 0.0
0.0 883.1 0.0 991.2 0.0 0.0 6.0 18.3 0.0 0.0 0.0 0.0 1.7 0.1 0.0 0.0 0.0 0.0 0.0
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1991 2 0.0 0.5 4.3 0.3 2.1 0.0 0.0 0.9 0.0 0.5 3.1 2098.0 0.7 1679.0 0.1 0.3 0.0
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1991 3 3.2 5.9 33.9 3.7 1.0 0.3 0.0 1.9 0.0 2.4 0.6 1390.0 0.0 920.8 2.5 1.1 0.0
0.2 838.9 0.7 544.2 0.0 0.0 8.8 21.8 0.0 2.1 0.0 0.0 0.7 1.3 0.1 0.0 0.8 0.0 1.0
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1991 4 44.7 172.6 274.0 132.8 225.9 14.7 36.3 337.9 37.0 42.7 116.5 888.2 57.8 463.4 24.9
17.8 15.2 13.8 331.6 58.2 52.7 6.9 42.8 11.2 25.8 0.3 5.8 31.8 2.8 6.8 8.3 1.6 1.7
2.6 0.4 1.8 0.5 2.1 0.7 1.4 26.5 28.8 9.1 7.8 25.8 0.9 25.0 1.8 14.4 22.6 3.4 23.9
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1991 5 455.3 987.5 2723.9 756.5 1467.5 468.9 487.9 1408.9 375.2 228.3 1069.3 346.6 633.2 125.3
191.4 180.0 293.3 79.9 194.8 399.8 4.7 241.3 408.3 415.3 354.6 36.4 20.9 197.1 37.3 232.8
42.4 4.5 30.7 7.7 6.4 14.2 10.9 12.2 10.2 8.2 4.2 25.8 42.3 15.4 11.5 7.5 3.3 25.5
2.9 7.7 0.4 23.2 1.2 11.0 2.6 0.0
1991 6 4602.0 5381.7 11928.7 4271.5 4979.2 6919.0 2828.2 3111.8 1815.7 1215.2 2467.8 119.4 1274.5 55.8
1081.7 1271.0 793.0 492.3 66.8 1110.0 0.1 726.8 907.3 368.2 311.7 468.0 211.7 484.7 222.0 294.8
209.8 111.3 122.5 91.2 67.0 84.7 65.8 77.9 73.4 148.4 0.1 19.4 74.3 92.4 0.9 41.2 0.5
88.9 0.9 0.8 0.0 18.2 22.1 7.8 12.0 10.8
1991 7 14222.3 11451.5 14332.6 8251.3 7869.5 12880.2 4540.8 4122.9 3206.6 2236.3 2757.9 359.2 1796.2
192.0 1781.5 1647.4 1322.8 927.2 29.9 1209.8 0.3 1140.3 1049.8 972.6 813.6 760.2 609.1 611.9 463.7
618.5 318.4 351.1 226.0 251.7 187.6 211.4 249.2 147.6 156.3 212.6 0.2 10.7 125.6 165.7 0.0
61.3 0.2 86.4 0.9 0.1 0.0 9.3 30.6 4.4 32.7 11.9
1991 8 15322.1 11416.6 15031.8 8575.5 7415.0 12541.3 3281.7 4972.7 2324.7 2243.3 3515.5 202.1 2483.9
78.7 1689.7 1670.6 1602.1 938.8 59.7 1506.2 2.5 1184.2 1322.4 1016.8 802.2 627.1 780.3 784.8 401.5
649.0 336.4 352.7 305.2 310.7 189.6 232.8 212.2 151.4 133.7 211.1 0.6 23.4 149.7 145.8 0.4
50.7 1.5 93.0 2.2 0.4 0.1 10.1 31.1 7.1 28.6 9.9
1991 9 6298.9 3061.3 8950.6 2559.4 5131.9 5408.8 1399.8 3539.7 1342.2 614.5 2563.2 234.7 1347.6 117.4
620.5 876.7 899.7 224.3 113.8 982.5 0.5 402.4 930.2 460.7 402.8 306.7 684.9 527.6 87.2 292.6
141.8 312.8 149.6 290.0 39.6 244.0 57.2 38.6 28.4 31.9 0.4 34.8 100.2 73.7 3.1 40.1 1.4
78.0 2.7 2.5 0.2 15.2 4.2 8.4 11.6 1.3
1991 10 67.3 261.1 1408.0 203.2 334.8 179.1 42.1 285.6 12.9 53.0 137.1 724.5 115.8 331.9 67.6
70.4 45.6 12.5 463.2 50.9 10.7 3.6 35.6 277.0 371.0 1.2 28.3 48.4 11.1 88.0 20.2 11.5
1.6 10.3 3.6 14.2 3.6 3.4 3.8 11.2 8.8 56.4 19.1 43.2 27.4 1.9 9.1 11.4 8.3 12.9
2.7 15.2 0.8 6.8 1.1 0.0
1991 11 0.3 6.3 22.5 4.0 58.2 0.7 0.0 6.7 0.0 2.6 15.6 733.0 0.2 314.9 0.8 0.8 0.2
0.1 623.1 1.5 69.3 0.0 1.0 2.9 9.7 0.0 0.4 1.6 0.1 0.3 0.8 0.0 0.0 0.2 0.0 0.2
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1991 12 0.0 0.3 1.4 0.2 7.3 0.0 0.0 0.5 0.0 0.4 8.5 1612.0 0.0 1267.1 0.0 0.0 0.0

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1992 1 0.0 0.1 0.4 0.1 16.1 0.0 0.0 32.4 0.0 0.2 7.0 2609.8 0.1 1928.9 0.0 0.0 0.0
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1992 2 0.0 0.6 1.3 0.3 0.0 0.0 0.0 0.0 0.0 0.7 0.5 1829.1 0.1 1481.9 0.0 0.0 0.0
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1992 3 0.6 5.2 23.5 3.2 6.0 1.0 0.0 12.0 0.0 3.0 10.8 1817.1 29.0 1792.8 0.7 1.2 5.4
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1992 4 45.8 175.2 286.2 128.0 141.2 40.3 12.0 219.2 10.2 42.4 90.0 1177.4 90.7 838.3 21.6
17.0 31.1 12.7 434.4 36.7 14.8 6.2 30.6 41.6 67.8 0.2 13.3 31.2 3.0 21.0 7.3 3.1 3.2
5.0 0.5 4.3 0.0 2.1 0.7 0.2 10.5 51.8 22.8 1.6 21.8 0.5 6.2 1.4 6.2 21.0 1.5 31.4
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1992 5 386.8 867.3 2121.5 656.5 1040.7 323.8 152.0 921.8 177.2 193.9 517.9 180.8 603.0 90.6
143.0 154.9 342.6 68.1 258.6 194.9 0.1 67.5 197.0 158.2 134.6 9.6 139.8 112.7 39.9 93.7 38.3
67.8 31.5 55.9 7.5 71.3 75.2 10.5 11.2 24.6 0.4 34.4 62.3 12.0 15.6 3.1 1.0 21.9 1.1
5.2 0.3 25.8 3.0 11.1 12.4 0.0
1992 6 3322.9 4314.0 9023.2 3302.1 5005.7 4755.9 2452.3 3322.2 1565.1 974.8 2460.3 54.2 2025.2 32.8
944.6 995.8 1415.6 394.3 84.7 1047.2 0.0 863.5 932.4 430.9 398.0 411.2 228.9 536.7 197.5 283.7
175.2 128.4 232.6 90.5 61.9 102.1 172.2 63.2 62.7 173.6 0.0 22.5 153.4 71.6 2.8 40.3 0.3
86.7 0.4 0.8 0.0 15.3 25.7 9.2 21.1 9.1
1992 7 14111.3 10249.0 13813.7 7514.2 7745.4 11060.4 4698.2 4091.8 3062.5 1981.9 3153.0 75.0 2169.5
34.4 1395.8 1546.3 1511.8 825.3 36.6 1367.0 0.1 1102.5 1181.7 547.5 475.1 771.4 591.8 683.7 414.1
380.8 286.5 313.3 272.0 232.6 163.4 201.3 159.3 131.5 136.2 197.1 0.2 14.3 144.5 104.7 0.1
63.6 0.3 83.1 0.6 0.2 0.0 11.8 27.8 3.7 23.6 16.7
1992 8 16386.8 11031.5 13776.4 7602.1 7694.0 13306.2 3593.1 4280.0 2656.9 1996.4 2825.4 104.6 2548.6
20.4 1347.6 1566.4 1810.1 821.2 60.2 1299.1 0.5 1126.9 1048.9 566.4 552.4 779.9 876.9 652.3 338.2
335.3 292.1 461.3 299.7 343.2 157.7 290.5 156.7 131.5 109.9 143.9 0.0 23.5 187.0 121.1 0.8
73.2 0.3 79.7 0.2 0.4 0.2 10.2 18.8 3.5 23.5 17.0
1992 9 4221.6 2622.3 7358.4 2031.9 788.3 5091.0 62.9 947.1 49.8 542.9 873.7 195.0 859.0 111.2
623.9 654.4 453.4 198.1 120.5 260.2 2.1 80.5 373.7 355.3 372.3 4.8 339.4 305.6 71.2 155.5
107.7 152.9 50.2 137.4 30.1 142.1 90.8 34.8 22.2 76.3 1.5 37.7 112.9 53.2 3.0 1.5 2.0
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1992 10 134.2 259.5 903.1 206.5 160.4 270.2 15.6 148.4 1.6 55.3 132.2 408.1 337.5 208.6 35.1
32.7 126.6 13.9 293.6 33.0 2.7 17.9 39.8 134.7 215.1 0.1 17.9 53.4 10.1 43.8 11.1 4.6
11.7 5.9 3.3 9.3 0.3 3.2 2.8 0.1 3.4 34.7 53.6 18.0 21.1 0.2 4.4 2.7 4.4 9.9 2.1
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1992 11 0.7 5.1 17.7 3.8 58.9 1.7 0.0 17.8 0.0 2.9 11.1 1175.8 0.1 854.1 0.5 0.7 0.0
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1993 4 40.6 188.2 315.7 145.2 541.1 14.8 72.7 517.3 85.7 43.4 249.5 638.8 50.9 542.5 26.1
18.9 24.1 15.6 368.0 93.2 23.7 9.7 80.8 71.5 101.4 1.7 18.5 48.7 1.5 35.4 7.9 5.2 3.2
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1993 5 873.0 931.8 2692.8 667.3 2506.0 601.9 991.3 2090.7 735.9 199.8 2285.9 316.7 1446.6 177.4
178.0 140.2 902.8 65.8 165.2 867.7 0.2 383.8 873.4 137.4 118.3 146.2 108.1 489.0 38.6 78.4
36.2 59.6 118.0 44.5 6.9 59.2 47.5 11.0 11.0 6.5 0.4 23.6 105.5 18.9 7.9 18.3 1.0 21.6
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1993 6 5111.1 4620.2 9915.6 3559.8 5557.6 6762.6 3180.2 3170.2 2202.8 1022.8 2489.2 62.0 1381.2 53.8
848.5 901.6 1036.8 415.0 52.6 1126.7 0.1 835.6 906.5 375.7 314.9 552.1 386.0 512.0 195.4 307.3
169.5 187.8 165.1 160.2 59.8 142.3 74.2 67.6 61.8 73.4 0.1 13.6 100.4 59.0 0.7 44.1 1.0
78.9 1.9 0.5 0.0 16.3 8.4 6.9 13.9 10.6
1993 7 14421.7 11252.7 14309.3 8267.9 10140.9 12803.5 6120.1 4824.2 3538.7 2267.4 3424.8 67.4 1735.0
22.1 1637.1 1532.1 1260.6 943.5 26.9 1596.2 0.0 1122.2 1262.6 367.8 341.6 897.8 475.5 684.2 445.7
292.5 308.4 239.6 214.4 187.4 180.5 176.2 180.3 151.3 148.2 234.3 0.0 11.0 106.0 105.6 0.0
72.2 0.1 80.3 0.1 0.2 0.0 8.8 35.8 3.2 24.5 24.3
1993 8 11903.3 10426.7 14678.7 7484.5 10097.8 12636.7 4799.3 5159.7 3534.8 2040.0 4112.4 141.9 2408.1
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358.4 313.4 330.8 260.1 255.1 165.3 191.3 116.4 136.9 117.6 179.0 0.1 24.3 127.7 117.5 0.1
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1995 7 17939.1 12793.9 14630.3 9287.5 8279.7 15204.0 4813.0 4276.6 2803.1 2451.7 3475.0 118.2 2133.7
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1997 5 399.9 945.8 2809.0 721.7 1645.7 239.2 418.4 1341.8 443.3 217.7 1223.0 257.0 813.0 219.2
172.6 189.2 342.5 72.5 130.2 405.2 5.5 120.0 502.2 118.0 89.7 76.2 128.4 297.5 46.7 84.3 44.4
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1997 6 4164.2 5310.6 11671.9 4142.4 6047.1 5049.3 2731.5 3564.4 1981.6 1203.9 2443.0 175.0 1359.1 91.3
953.1 1083.1 940.9 490.9 57.3 1150.9 0.1 752.8 911.6 300.7 273.3 604.0 319.9 522.2 247.2 240.4
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1997 7 17876.3 12737.2 16629.7 9018.4 10307.9 15305.7 6099.9 5052.1 3958.1 2364.6 3259.3 216.4 1996.7
94.6 1543.3 1872.8 1378.8 978.4 28.0 1579.3 0.8 1261.2 1134.9 789.7 679.7 999.0 478.8 626.4 492.4
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1997 8 15942.6 12628.7 15025.2 9454.9 11554.9 11839.6 5763.5 6220.3 3793.8 2479.7 4423.0 139.5 2107.5
42.7 1573.8 1734.0 1381.1 1042.7 79.9 2016.3 0.8 1481.1 1534.0 976.2 879.2 1057.4 850.8 842.0 406.1
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1997 9 5677.1 3431.0 8226.6 2832.6 5990.5 4519.9 1632.5 4103.1 1452.5 711.2 3198.2 439.4 1918.9 192.3
410.6 647.7 1220.9 271.8 147.8 1249.1 1.2 577.8 1134.8 565.0 491.1 384.7 468.2 672.3 88.5 365.1
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1997 10 290.8 246.9 581.7 204.9 391.6 70.9 29.9 244.8 0.7 55.3 280.4 528.9 126.1 330.4 36.1
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1998 6 4553.8 6185.5 13611.1 4615.1 4498.2 7470.5 2312.2 2938.1 1501.4 1385.1 2784.0 316.9 1637.6
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1998 7 16199.2 14101.4 17591.9 10029.4 7766.4 13818.2 4636.6 4476.5 2937.4 2675.6 3732.9 63.2 2805.6
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1998 8 17634.1 14450.9 20134.0 9845.1 6847.1 13603.2 3278.7 4524.1 2099.4 2656.1 4292.6 111.5 3327.8
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1998 9 7479.4 4224.8 9817.0 3033.1 3241.8 5916.7 854.9 2280.2 935.0 802.1 2148.5 228.8 2392.9 82.5

670.9 924.0 1900.3 312.8 335.7 768.1 1.2 502.7 868.0 473.3 424.7 172.4 352.8 561.3 107.3 304.3
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1998 10 416.0 324.0 3232.9 274.3 519.5 647.0 53.4 542.3 27.1 72.8 507.1 516.1 332.6 335.0 104.6
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230.0 379.7 136.2 116.2 126.3 206.1 2.5 57.8 120.0 232.3 201.4 27.7 222.2 45.9 51.1 147.5
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1999 6 4009.7 5651.2 11298.1 4397.8 5288.5 6174.3 2948.8 3196.7 2017.4 1330.9 2153.6 109.6 1106.6 43.1
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1999 7 15351.6 13666.1 16737.7 9824.9 8501.9 15393.8 5014.7 4404.9 3273.1 2677.3 2988.0 580.7 1797.8
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1999 8 16222.1 12770.8 16495.2 9003.2 9714.2 14193.8 5295.8 5551.2 2954.7 2398.0 3872.5 356.9 2221.6
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1999 9 8944.2 4141.4 10126.3 3155.2 4418.4 6824.7 986.4 2953.8 1065.6 766.1 1926.7 279.5 1075.8 108.7
693.5 1017.0 567.9 292.1 239.2 819.8 0.9 279.9 680.0 685.0 627.2 242.1 708.0 421.6 110.2 404.4
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2000 6 6492.8 5735.1 11967.6 4441.2 5070.3 8995.5 2663.2 3022.4 1825.5 1300.3 2244.1 168.0 1275.7
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2015 5 1545.7 2132.7 4526.9 1662.0 2338.2 1098.9 968.7 1746.1 796.1 485.7 1331.6 457.0 811.9 298.6
312.5 345.7 485.0 196.1 231.5 593.6 2.1 295.5 555.5 216.8 168.7 142.8 123.4 304.5 80.3 141.4
75.2 61.3 56.5 51.6 15.0 55.0 41.0 30.7 24.1 38.0 2.1 41.3 67.4 36.5 12.6 14.9 4.0 34.3
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2015 6 5868.1 6718.7 12023.4 5115.1 6062.5 6978.9 3493.1 3487.8 2323.0 1495.8 2474.8 179.1 1453.7
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356.8 225.5 211.7 169.7 162.9 95.3 133.1 166.8 94.6 100.3 171.4 0.2 23.6 103.0 98.0 2.1 45.2
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2015 7 16865.2 14902.5 17191.9 10714.7 10621.3 14064.9 6673.7 5230.8 3803.2 2857.2 3659.5 196.0 2161.8
106.0 1863.1 1929.1 1521.8 1184.3 64.5 1706.1 0.5 1339.2 1325.2 883.2 770.9 952.2 606.9 684.0 477.0
517.8 386.5 311.4 272.9 240.1 210.1 195.1 209.6 190.8 156.8 250.7 0.3 24.3 145.6 139.6 1.1

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2015 8 19382.3 15747.4 16442.0 10855.9 10162.1 13132.7 5162.4 5970.4 3242.7 2826.2 4115.1 211.5 2520.7
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599.1 384.6 375.5 331.7 293.2 218.0 235.0 225.4 189.0 137.8 260.5 0.4 39.9 157.0 142.2 4.4
73.7 1.7 94.1 1.6 0.6 0.4 6.1 37.0 5.9 29.0 15.4
2015 9 6669.8 4646.7 10277.3 3641.9 3917.8 6148.0 1020.2 3091.6 947.7 935.5 2571.9 347.6 1777.0 203.4
830.5 1042.2 1122.7 370.2 256.1 993.9 1.9 374.9 1045.6 484.7 446.2 209.2 506.2 543.6 99.6 275.8
172.3 224.1 162.4 195.4 49.8 169.7 97.8 61.3 31.7 131.4 1.5 51.8 142.7 87.1 14.5 27.9 2.7
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2015 10 317.7 375.0 1593.7 311.2 837.6 273.1 136.5 963.4 70.3 79.3 568.2 702.6 327.9 466.5 84.1
90.7 111.5 21.3 561.3 169.4 17.9 28.6 207.5 211.1 316.6 10.0 137.5 147.8 10.5 73.8 23.6 45.8
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2016 5 1279.8 1681.0 3847.1 1260.0 2103.5 1037.4 783.9 1777.3 744.8 379.9 1306.2 559.7 953.2 362.6
282.2 289.1 616.0 146.7 216.1 518.7 3.5 273.1 509.8 255.6 206.9 136.3 153.9 298.5 72.6 162.1
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2016 6 6029.5 6992.9 11700.4 5314.4 5952.7 6866.5 3239.8 3496.1 2122.3 1550.0 2632.9 219.0 1748.7
135.1 1162.0 1256.2 1186.4 643.1 82.9 1213.7 0.3 911.1 1039.4 624.9 516.7 527.1 463.2 582.1 298.0
396.3 235.0 241.0 188.3 188.1 102.4 157.2 180.0 99.1 98.7 164.4 0.2 25.6 113.0 99.1 2.0 43.2
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2016 7 17295.4 15661.2 17145.8 10958.3 10860.8 12656.7 6759.2 5469.9 3743.9 2957.7 3774.8 207.0 2191.9
90.9 1916.0 1955.3 1565.7 1225.9 56.9 1722.0 0.7 1389.8 1367.8 941.2 830.9 944.7 749.0 698.0 487.2
536.1 406.7 379.4 289.3 288.9 228.5 240.6 231.4 195.7 161.5 239.1 0.4 22.9 147.2 139.8 0.9
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2016 8 20711.4 16583.0 16979.7 11283.4 11402.6 13290.5 6231.6 6130.8 3528.0 2913.2 4328.3 171.7 2441.6
70.4 1831.2 1984.6 1673.2 1213.0 136.2 1941.2 1.6 1304.3 1614.3 1115.4 955.1 936.7 698.9 805.1 402.8
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81.3 0.9 97.1 1.0 0.8 0.4 6.1 34.6 6.4 28.8 19.8
2016 9 5719.0 4099.3 9673.4 3154.4 4587.2 5265.0 1252.0 3574.7 992.2 816.2 2620.4 282.0 1557.6 149.2

779.8 930.0 961.3 305.9 284.3 1021.7 2.2 324.8 1062.1 649.5 572.4 236.7 394.7 539.2 103.4 388.9
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2016 10 377.1 424.6 1807.8 353.1 981.2 325.4 169.2 1218.9 46.3 89.9 675.4 692.7 335.9 451.9 91.9
102.0 131.6 25.0 638.5 207.2 17.1 33.2 246.9 302.4 402.3 5.6 133.0 158.6 14.6 108.6 26.4 39.1
14.4 42.7 4.7 51.6 28.3 5.8 3.8 45.2 11.2 72.7 54.3 29.5 47.1 2.2 11.2 16.5 8.4 19.7
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2016 11 3.0 10.1 34.6 8.1 34.6 3.2 0.2 15.1 0.3 3.4 27.3 1296.9 2.9 921.1 1.7 1.4
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2017 1 0.0 0.3 0.9 0.1 11.9 0.0 0.2 9.4 0.0 0.3 3.5 2481.3 0.2 1866.0 0.1 0.0 0.0
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2017 4 163.7 314.0 537.5 246.4 442.3 84.3 91.3 483.9 100.9 77.5 233.2 1063.1 137.2 758.2 37.2
32.4 53.8 27.9 570.5 99.6 55.3 25.0 93.0 90.4 113.9 7.6 22.8 66.7 4.6 31.9 11.8 7.1 6.3
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2017 5 2089.2 2133.9 4959.6 1596.9 2444.8 1271.4 959.5 1705.5 738.5 474.1 1344.5 559.9 875.8 329.9
304.4 357.6 559.1 186.4 197.7 580.4 2.3 272.9 537.3 236.0 192.8 137.2 136.9 289.7 85.1 140.6
79.9 68.1 69.4 55.3 15.7 62.7 45.8 28.3 25.8 36.2 2.0 36.4 74.0 36.4 10.5 15.2 5.2 43.0
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2017 6 7176.3 7558.0 12577.3 5713.0 6369.4 8395.3 3406.9 3627.4 2185.4 1630.8 2635.5 208.6 1543.3
127.1 1203.9 1283.3 1118.1 685.1 76.8 1215.6 0.3 853.2 1010.6 599.3 510.7 546.2 415.9 540.7 292.7
389.3 243.4 227.0 182.5 175.0 104.3 146.9 154.3 107.3 97.2 175.6 0.3 22.8 104.8 98.8 2.2 47.0
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2017 7 18081.1 15882.8 17181.3 11204.7 10309.1 14689.1 6380.6 5386.9 3643.5 3004.5 3717.2 203.7 2272.2
104.3 1881.9 2013.5 1671.9 1244.3 63.4 1732.0 0.8 1355.7 1361.8 892.6 801.5 865.6 643.7 682.9 491.7
510.6 412.7 352.7 308.3 256.9 233.5 212.6 235.2 198.0 163.6 251.9 0.5 24.6 141.4 142.9 0.9
69.0 0.8 106.6 1.0 0.3 0.0 6.4 37.0 5.2 30.2 20.8
2017 8 22028.8 16749.3 16502.1 11110.6 10845.2 13908.6 5711.1 6404.5 3407.8 2864.9 4347.2 211.9 2519.1
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555.7 395.6 376.8 329.4 287.5 219.5 232.6 237.5 190.3 125.9 244.1 0.3 39.9 150.0 144.5 3.1
78.4 1.3 96.8 1.3 1.0 0.2 6.6 34.6 6.8 29.5 17.8
2017 9 6084.0 4352.2 10034.6 3353.5 5643.0 5623.3 1772.2 4051.3 1525.3 865.4 3013.1 282.3 1704.9 166.9
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161.6 175.5 144.6 159.2 52.4 149.5 80.0 54.5 34.7 106.0 2.0 55.8 126.3 88.2 15.6 42.4 3.1
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2017 10 282.2 351.9 1516.7 288.2 949.1 249.2 167.2 1171.0 68.4 77.3 781.5 659.1 395.4 470.8 72.5
86.0 172.3 18.8 585.1 235.5 15.8 47.0 305.3 202.5 303.8 11.2 110.8 188.2 15.2 64.4 21.7 37.1
21.3 36.4 4.9 44.3 12.4 4.5 4.7 23.7 10.8 76.6 54.6 27.5 42.4 2.8 12.9 14.3 9.3 12.1

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2018 5 1658.3 1871.7 4856.4 1395.4 2185.5 1181.6 854.3 1670.5 736.5 395.9 1139.2 763.3 758.6 466.3
323.2 330.8 461.0 152.7 254.5 504.6 5.0 241.0 456.7 261.9 206.6 132.1 148.1 266.8 89.5 157.0
68.0 70.3 52.9 60.8 17.0 63.4 30.7 23.8 27.4 30.8 3.8 42.8 64.5 35.8 14.5 14.8 4.9 36.5
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2018 6 6698.5 7450.9 13716.2 5638.0 5925.4 8368.8 3265.7 3452.0 2283.0 1619.0 2475.0 221.4 1399.0
167.4 1206.5 1363.5 1065.6 679.9 73.3 1143.2 0.7 774.0 944.7 589.8 509.5 557.7 393.2 515.9 288.7
381.2 252.8 214.9 172.4 165.8 94.5 143.6 145.7 107.0 95.6 159.4 0.6 21.6 104.2 97.3 2.0 47.3
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2018 7 17580.1 15470.1 17035.3 10886.3 9859.4 14247.6 6151.8 5249.5 3664.8 2891.2 3610.3 168.6 2053.0
93.4 1864.9 2007.3 1464.3 1214.8 61.4 1630.1 1.1 1181.6 1322.9 956.8 837.8 888.8 624.3 681.0 480.7
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2018 8 21444.4 16309.1 16920.5 10927.9 10527.5 14548.1 5452.3 6003.8 3311.7 2801.4 4009.3 230.2 2080.3
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390.0 633.6 388.9 304.4 273.2 233.1 220.1 190.3 212.6 182.8 127.7 214.0 0.2 32.2 135.4 147.5
4.3 82.2 1.3 96.1 1.4 0.8 0.3 6.1 30.1 6.0 26.6 14.5
2018 9 6587.2 4390.4 9767.8 3323.4 4896.2 5640.6 1409.8 3699.5 1175.3 856.5 2786.3 319.9 1420.4 181.4
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2018 10 292.7 357.3 1674.3 292.8 1077.7 311.3 184.1 1251.4 79.9 78.3 743.8 863.8 398.1 565.0
80.5 94.9 150.9 19.2 568.2 233.9 17.2 38.6 273.9 237.5 344.2 13.7 155.1 168.1 14.8 81.0 22.7
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2018 11 3.3 10.7 35.1 8.3 117.3 3.0 0.7 71.8 1.3 3.8 36.5 1534.6 28.5 1124.9 1.7 1.5
9.4 0.3 674.9 9.8 109.0 0.9 6.6 45.3 59.8 0.0 2.6 7.2 0.0 9.0 1.3 0.1 1.3 0.7 0.0
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2018 12 0.1 0.8 2.7 0.4 51.6 0.2 1.2 22.6 0.1 0.7 14.5 2041.6 0.2 1594.7 0.1 0.1 0.0

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0.1 0.0 0.0 0.3 107.3 52.4 0.0 0.0 59.3 0.2 47.8 0.0 36.7 46.6 6.5 13.2 0.0 10.3
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2019 1 0.1 0.8 2.4 0.4 24.8 0.1 0.2 15.8 0.0 0.7 15.2 2563.0 0.3 1927.3 0.1 0.1 0.0
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2019 2 0.4 2.2 7.6 1.3 6.4 0.2 0.0 0.1 0.0 1.4 1.8 2418.8 0.2 1801.7 0.3 0.4 0.0
0.0 820.5 0.2 790.1 0.0 0.2 2.3 1.4 0.0 0.3 0.3 0.0 0.3 0.4 0.0 0.0 0.1 0.0 0.1
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2019 4 119.5 339.0 534.2 245.3 460.3 73.3 75.7 553.4 74.8 81.8 263.1 991.8 159.2 694.7 37.4
33.1 71.2 26.1 468.6 104.4 48.4 30.5 107.4 136.7 151.4 6.5 27.3 74.4 7.3 60.9 11.5 8.9
9.1 10.5 1.1 8.7 4.4 4.2 2.0 5.1 21.2 54.9 25.4 7.7 34.2 1.6 11.9 2.7 9.8 21.0 6.0
21.0 0.3 10.5 0.6 0.0
2019 5 1067.2 1602.0 4163.3 1215.4 2231.9 840.7 903.5 1797.8 797.4 357.7 1453.9 479.4 877.9 306.3
320.7 329.9 539.3 132.2 244.4 588.7 2.6 290.7 557.0 264.0 210.6 164.9 175.7 328.0 92.6 162.5
66.4 100.9 64.6 75.8 17.5 79.6 54.7 21.4 28.1 51.5 2.3 40.7 69.1 37.7 15.1 16.8 3.7 37.5
3.2 6.6 0.8 15.4 5.7 9.8 8.5 0.1
2019 6 6550.7 7207.1 12525.3 5409.6 6288.3 7240.0 3604.6 3722.9 2296.3 1572.5 2793.4 154.8 1591.2 93.8
1207.5 1345.0 1156.4 646.7 86.8 1294.7 0.2 905.7 1069.3 634.5 550.2 588.3 440.3 571.5 297.0 398.0
248.6 237.4 190.0 184.0 102.9 152.7 167.7 102.1 99.3 157.7 0.2 24.7 102.4 106.1 2.7 50.0 1.3
97.6 1.8 0.9 0.1 8.6 22.2 5.6 23.3 13.0
2019 7 15662.6 14807.4 17072.6 10334.3 10394.6 14008.3 6485.7 5444.8 3731.9 2818.0 3803.9 189.6 2178.5
120.9 1852.4 1924.4 1518.3 1149.4 60.6 1734.8 0.5 1265.8 1395.9 883.8 770.3 919.8 669.9 709.4 503.6
498.8 384.6 331.8 275.3 258.0 232.0 220.3 221.4 184.1 166.6 233.5 0.4 22.8 138.1 140.1 1.3
72.8 0.6 106.0 1.0 0.3 0.0 5.3 35.5 5.4 29.4 21.0
2019 8 18902.9 15451.4 16682.0 10522.6 10852.4 13247.3 5988.7 6102.1 3555.0 2764.0 4303.7 215.2 2339.6
107.7 1806.7 1945.1 1636.9 1132.4 113.4 1944.7 2.0 1240.5 1568.8 1113.9 962.5 976.0 724.1 727.9
385.5 607.8 386.9 370.6 311.5 280.8 218.6 232.7 220.9 180.6 126.8 225.4 0.2 34.5 147.3 143.5
4.4 83.1 1.3 96.3 1.4 1.0 0.3 5.4 30.4 6.7 27.3 19.8
2019 9 7428.9 4872.7 10376.4 3712.5 5351.8 6476.7 1612.8 3957.6 1451.9 940.1 2811.7 346.9 1563.3 204.3
815.4 1044.9 916.3 360.1 268.3 1150.6 2.4 360.9 1097.5 624.8 571.4 345.2 375.4 519.5 95.8 368.9
174.1 160.6 127.7 137.6 49.6 141.1 104.1 63.5 30.8 125.3 1.7 51.4 120.2 95.1 16.3 42.4 2.8
74.4 3.2 5.2 2.0 7.6 13.6 7.1 14.3 1.8
2019 10 393.7 399.1 1644.6 331.8 1083.9 327.1 211.0 1376.9 77.9 85.5 744.0 729.1 443.2 485.8
73.0 87.2 164.7 22.9 635.8 225.1 13.5 47.8 303.8 255.1 370.1 11.1 193.0 187.0 19.5 88.6 23.2
51.9 19.6 59.8 6.7 71.4 13.3 5.3 5.9 21.1 9.8 73.1 57.1 27.3 45.7 2.5 10.3 13.9 8.2
17.2 6.8 10.3 1.7 9.4 2.6 0.0
2019 11 2.7 8.6 28.9 6.4 93.1 2.5 0.3 89.7 0.5 2.9 47.2 1235.8 2.4 898.2 1.6 1.3 0.7
0.2 737.3 11.0 100.4 0.0 9.5 38.0 58.9 0.0 6.4 8.6 0.2 6.7 1.1 0.3 0.0 1.5 0.1 1.8
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2019 12 0.4 1.0 3.3 0.6 9.8 0.3 0.0 1.6 0.0 0.8 2.3 2048.8 0.0 1543.9 0.1 0.1 0.0
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2020 1 0.0 0.7 2.3 0.4 8.5 0.1 0.1 13.4 0.0 0.7 9.7 2639.3 3.1 1922.6 0.1 0.1 0.3
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2020 2 0.2 1.3 5.2 0.8 17.2 0.1 0.0 1.0 0.0 0.6 2.0 2488.7 0.4 1798.2 0.3 0.3 0.0
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1.9 0.7 768.8 8.6 388.2 0.5 6.0 5.5 10.8 0.0 2.4 3.7 0.0 0.7 1.8 0.2 0.1 0.7 0.0
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2020 4 219.3 474.2 700.9 349.4 371.7 139.8 62.8 412.1 76.9 119.4 203.4 1024.8 114.0 706.2 48.4
46.5 50.0 41.6 482.5 75.3 56.7 21.9 79.8 134.3 145.4 5.3 22.2 61.0 9.8 64.7 14.8 7.2 5.7
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22.7 0.2 9.3 0.5 0.0
2020 5 1046.6 1537.6 4097.3 1134.6 2052.6 918.3 793.4 1747.7 679.6 349.4 1227.0 395.6 732.9 257.3
316.2 298.2 473.0 126.2 244.5 537.7 2.3 270.8 489.6 285.2 236.3 127.9 185.4 262.6 76.3 169.6
60.9 96.1 58.3 77.4 15.8 78.7 53.0 19.9 23.2 51.2 2.1 37.5 64.4 35.3 15.6 13.8 4.2 33.9
2.8 7.0 0.9 15.0 5.7 9.3 8.5 0.2
2020 6 6537.6 7763.9 12776.8 5954.1 6434.0 7774.7 3524.6 3671.3 2271.2 1728.6 2630.4 180.1 1662.6
111.4 1214.4 1400.7 1164.6 723.8 79.6 1213.9 0.5 865.7 1012.8 524.9 446.1 583.1 419.1 580.8 315.5
352.8 254.9 213.3 184.5 170.5 112.2 142.3 175.6 114.4 104.8 187.1 0.5 24.0 110.1 89.2 2.3
48.0 2.0 87.5 2.4 1.1 0.1 8.8 28.4 6.0 24.1 11.3
2020 7 18328.1 15957.0 16684.2 11010.3 9896.1 14230.4 6045.0 5289.4 3466.5 2943.3 3504.7 180.9 2156.0
111.3 1886.7 1945.9 1542.1 1203.7 61.1 1625.3 0.7 1210.3 1283.7 896.4 805.3 857.7 765.1 656.4 468.9
522.2 394.0 363.7 278.9 285.2 229.6 244.0 233.2 193.7 153.8 245.4 0.4 20.3 148.2 142.9 1.3
69.7 0.7 101.0 0.9 0.2 0.0 5.0 35.0 4.8 29.7 22.4
2020 8 20946.2 16858.0 16320.2 11455.4 10360.5 12798.4 5372.2 5807.6 3433.3 2947.6 3836.5 220.0 2196.3
93.9 1869.5 1997.8 1584.7 1230.6 113.3 1785.0 2.5 1198.4 1430.1 1029.2 890.4 942.0 919.1 629.3 374.7
595.0 395.4 395.1 308.0 327.1 229.9 269.2 221.8 197.4 123.9 218.1 0.4 34.2 138.7 126.7 4.4
82.0 1.5 94.6 1.4 0.9 0.3 5.7 30.7 5.6 26.6 17.3
2020 9 6228.1 4701.4 9469.6 3715.4 4459.1 5112.4 1218.4 3234.1 1149.7 962.0 2446.5 298.4 1423.8 153.0
777.1 976.0 873.3 375.2 258.7 976.3 2.5 291.9 1006.4 646.2 576.9 281.0 618.0 465.1 101.7 393.1
170.9 243.9 123.7 218.4 52.3 200.1 96.3 59.8 32.4 124.5 1.9 49.0 109.5 75.1 14.7 35.2 2.8
72.1 2.8 2.6 1.6 6.4 12.8 6.0 14.2 1.5
2020 10 501.6 455.9 1753.9 392.8 1043.2 363.4 175.6 1140.9 68.2 95.2 722.4 886.8 322.4 586.0
81.8 103.7 118.6 29.3 570.9 214.3 28.7 32.3 274.6 286.0 385.7 8.9 145.1 167.6 13.5 112.4 25.4
41.8 13.3 45.1 4.3 52.8 14.0 5.9 4.3 22.0 15.3 62.7 44.8 21.7 42.9 2.7 14.4 16.4 10.4
17.8 5.6 9.8 1.8 8.4 2.6 0.0
2020 11 3.1 11.1 44.5 9.1 148.3 3.8 2.5 106.5 1.2 3.6 40.9 1290.7 4.3 925.1 1.7 1.7
1.4 0.4 645.0 15.6 105.1 0.1 7.9 54.8 76.6 0.0 3.1 7.1 0.0 11.2 1.3 0.0 0.1 0.9 0.0
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2020 12 0.1 0.8 3.0 0.5 38.7 0.3 1.6 21.3 0.0 0.6 13.3 2162.5 0.4 1597.7 0.1 0.1 0.0
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2021 1 0.1 0.9 3.1 0.5 11.0 0.1 0.3 22.0 0.2 0.6 16.2 2422.8 2.3 1800.5 0.1 0.1 0.2
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2021 2 0.3 2.3 10.3 1.2 27.5 0.2 0.7 61.7 0.4 1.5 4.0 2546.1 1.2 1815.3 0.5 0.4 0.1
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2021 4 157.3 342.1 554.8 265.2 438.9 68.4 91.7 491.0 100.9 81.2 215.3 1044.4 118.7 677.7 41.4
35.2 53.0 30.7 462.1 88.9 44.6 24.2 73.8 160.5 170.6 8.2 26.8 54.1 8.3 72.2 11.9 6.4 6.2
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2021 5 1614.5 1953.7 4396.5 1482.8 2146.6 1093.5 830.6 1728.0 692.7 434.6 1323.6 495.5 805.5 342.8
318.5 329.7 509.9 171.7 204.2 545.4 3.4 282.2 520.6 293.6 243.2 126.2 180.6 299.5 96.8 181.5
71.3 97.1 63.2 75.5 19.6 84.9 48.9 26.6 29.9 39.2 3.1 35.0 66.1 37.0 12.8 15.4 5.3 36.4
3.9 7.4 1.0 15.0 4.1 9.9 8.2 0.1
2021 6 5853.1 6733.3 11464.7 5100.6 6363.4 6256.3 3598.8 3596.6 2398.7 1491.6 2518.8 173.5 1512.5
121.4 1161.8 1190.5 1058.6 612.7 92.6 1180.7 0.3 826.3 974.6 624.1 539.9 604.0 442.1 528.6 297.6
392.6 219.4 215.5 160.2 177.0 106.5 149.2 150.2 96.4 98.4 160.9 0.3 24.3 102.7 97.3 3.0 48.5
1.5 76.6 1.8 1.1 0.1 9.7 22.8 6.5 21.7 12.5
2021 7 16916.7 14969.6 17135.6 10726.4 10188.9 14707.6 6361.8 5137.8 3672.2 2830.7 3460.7 204.1 2058.0
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537.6 396.1 335.4 261.4 253.6 231.2 218.8 231.1 187.5 157.7 243.6 0.5 21.9 137.7 134.9 1.1
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2021 8 20271.2 16029.4 16547.6 10796.1 10482.6 13310.7 5554.4 5987.7 3428.4 2834.6 3959.7 234.5 2212.1
122.7 1822.9 1874.8 1522.5 1133.0 110.5 1804.4 2.7 1111.1 1442.7 1089.3 967.7 918.6 782.2 651.9
379.9 583.4 384.1 352.4 283.4 282.4 222.6 236.4 216.0 181.2 123.1 215.3 0.5 32.7 142.5 122.0
4.6 78.1 1.6 90.4 1.5 0.7 0.4 5.5 30.0 5.8 26.9 17.0
2021 9 6436.5 4452.0 9486.5 3426.1 5111.3 5631.4 1418.8 3779.9 1219.0 881.6 2718.3 286.9 1394.9 146.5
833.9 1002.7 808.6 334.8 298.2 1106.3 2.2 303.4 1082.4 657.3 616.5 280.6 465.1 489.6 107.3 373.2
169.5 196.3 112.6 169.2 59.9 159.8 101.4 56.7 33.8 114.4 1.8 54.5 112.9 86.2 19.5 35.7 2.6
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2021 10 361.6 425.6 1693.2 351.5 918.7 297.0 163.3 1096.4 82.1 87.8 623.3 706.6 311.9 457.6 87.5
112.1 110.7 25.4 585.5 200.5 21.5 30.9 235.1 397.9 501.5 12.3 113.7 136.7 12.4 154.8 25.4
37.2 13.0 37.1 4.3 46.4 15.3 5.9 3.7 27.9 12.8 68.1 41.5 31.2 43.8 3.6 11.4 15.5 7.8
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2021 11 5.5 11.8 32.6 11.2 69.2 3.2 0.7 52.0 0.7 3.9 36.2 1009.3 2.1 690.6 1.6 1.5
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2022 4 211.1 373.4 595.5 293.0 333.6 95.2 59.1 391.3 80.0 85.7 184.0 1134.6 122.6 768.0 43.3
38.9 57.6 31.3 539.5 68.7 46.8 20.8 68.8 150.9 161.4 7.0 30.1 54.6 6.8 71.6 13.9 9.8 6.5
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2022 5 1588.3 2033.5 4739.4 1498.9 2304.3 1131.1 823.0 1736.6 709.8 439.7 1404.3 501.2 937.5 323.5
348.8 369.0 651.6 170.4 245.4 579.1 3.2 276.9 602.2 293.9 241.7 144.8 114.1 337.0 79.5 183.9
72.7 66.7 82.9 48.5 16.1 59.8 63.1 28.1 24.3 49.5 2.8 41.4 77.4 33.9 13.8 17.1 4.6 40.7
3.5 8.3 1.1 15.5 6.2 9.6 9.7 0.2
2022 6 6359.4 7619.4 12360.4 5760.4 6396.5 6975.6 3733.9 3878.0 2421.2 1669.7 2904.7 248.0 1726.7
158.8 1241.2 1346.4 1226.6 707.3 75.5 1304.3 0.4 964.5 1101.3 624.2 532.5 618.1 438.7 591.9 304.3
404.0 250.0 221.9 199.5 179.9 104.0 146.9 163.1 109.9 102.2 177.4 0.4 22.5 113.3 111.8 2.3
52.2 1.2 85.7 1.6 1.1 0.1 7.7 26.1 6.9 22.7 12.8
2022 7 17132.8 16077.1 17127.2 11295.8 10469.2 15077.9 6599.2 5509.4 3691.2 2989.2 3788.3 182.7 2247.0
115.1 1894.7 1996.6 1567.5 1250.9 68.5 1727.6 1.1 1255.9 1400.0 1003.6 894.2 909.0 672.2 690.4
454.8 566.0 411.4 325.7 285.0 252.8 209.8 216.5 219.6 202.6 151.5 228.3 0.6 23.7 147.1 137.4
1.5 72.9 1.2 103.3 1.3 0.2 0.0 6.3 32.9 5.5 28.4 23.0
2022 8 20520.0 16577.1 16619.7 10771.2 10419.7 14703.1 5366.0 6113.5 3322.2 2829.8 4096.9 220.8 2257.4
123.3 1822.4 1937.7 1598.7 1134.1 145.4 1891.5 2.4 1138.1 1549.9 1087.7 960.6 901.2 683.2 673.6
381.1 607.5 380.8 306.8 299.1 244.4 224.8 203.9 246.2 182.1 125.5 232.3 0.4 36.2 132.3 132.6
7.3 77.9 2.0 93.8 1.8 0.5 0.5 6.1 32.3 6.2 29.8 15.8
2022 9 5894.7 4558.7 10275.4 3513.8 4359.2 5514.8 1159.7 3251.6 1175.8 929.9 2461.3 317.5 1404.4 208.8
831.2 1054.0 808.4 340.3 294.7 968.1 4.9 269.0 993.5 695.7 647.1 277.1 450.3 446.4 114.7 410.6
174.1 168.5 111.6 155.6 51.9 144.7 89.9 57.8 34.9 110.4 3.3 55.0 114.2 85.7 16.8 34.1 4.0
76.2 3.8 4.1 1.5 7.9 10.7 6.7 13.6 0.7
2022 10 397.0 422.9 1762.7 354.6 809.6 291.7 137.4 1061.1 49.9 91.5 663.7 682.1 435.1 496.4 79.9
105.4 165.9 24.1 641.4 191.3 17.5 39.7 266.1 283.8 405.5 7.7 125.9 174.1 19.9 107.7 25.5 35.7
20.2 39.1 7.2 50.0 14.3 5.6 5.7 24.6 11.3 72.8 58.9 23.6 46.2 2.2 11.8 15.5 8.9 17.0
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2022 11 3.5 10.5 32.0 8.2 99.7 3.1 1.2 82.1 0.3 3.9 86.3 1340.9 13.5 956.8 1.6 1.4
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2022 12 0.1 0.9 2.7 0.4 12.5 0.3 0.3 7.8 0.0 0.9 13.9 2016.8 0.1 1588.7 0.1 0.1 0.0
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2023 1 0.0 1.0 3.5 0.7 9.5 0.1 0.3 17.8 0.0 1.1 6.6 2568.9 0.4 1950.8 0.2 0.1 0.2
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2023 3 7.8 14.0 58.5 11.7 46.5 2.5 0.5 44.4 0.9 4.3 29.3 2045.9 7.7 1606.7 2.2 2.0
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2023 4 131.5 315.2 678.1 244.7 448.8 101.5 85.3 497.2 91.9 77.4 255.8 1134.7 136.4 765.4 40.5
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2023 5 1172.0 1685.8 4648.9 1257.2 2384.9 1054.8 955.9 1846.1 842.7 379.8 1255.5 518.2 834.9 310.8
343.8 351.2 526.4 138.5 200.7 546.5 3.2 269.3 536.6 323.4 263.3 157.6 164.3 301.6 93.6 194.1
70.5 86.5 67.5 67.1 18.9 65.8 67.0 22.1 28.4 53.5 2.8 34.2 73.6 34.6 12.6 16.4 4.1 42.1
2.9 7.8 0.7 16.4 6.6 9.8 10.7 0.1
2023 6 6754.1 7198.2 12514.4 5500.2 6312.4 7565.0 3574.3 3632.7 2424.9 1573.5 2624.4 237.5 1545.2

138.6 1183.5 1344.0 1122.8 646.8 79.4 1231.6 0.4 860.0 1019.2 608.2 546.4 610.8 498.3 550.0 314.2
399.6 243.7 255.1 185.1 202.1 107.6 181.4 156.0 101.2 102.6 164.7 0.3 22.4 105.9 95.0 2.8
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2023 7 18444.4 15690.2 17236.3 10836.0 10299.9 14539.2 6393.0 5422.5 3692.3 2864.2 3637.8 203.9 2277.7
113.3 1784.7 1938.0 1600.0 1174.3 56.7 1651.2 1.1 1173.7 1358.7 952.1 873.3 900.5 722.1 681.1 463.8
514.8 388.9 326.9 274.0 263.0 217.8 227.7 227.0 190.3 151.0 260.5 0.5 19.1 152.7 145.1 1.3
71.7 0.9 99.8 1.2 0.3 0.0 4.8 38.4 4.8 28.5 23.2
2023 8 22526.3 16611.7 17148.8 11074.0 10458.1 14627.9 5372.9 5974.3 3309.3 2846.3 3992.0 196.6 2264.5
90.4 1806.5 1994.0 1522.7 1143.1 114.8 1811.7 1.7 1092.9 1507.4 1137.2 1035.5 902.3 775.5 661.5
377.9 619.3 399.5 321.9 289.7 269.1 218.9 234.1 209.4 184.9 120.1 222.6 0.2 32.7 142.0 131.1
5.1 76.4 1.2 97.0 1.3 1.0 0.4 5.2 30.9 5.7 26.3 15.7
2023 9 6833.6 4982.6 10779.9 3947.1 5419.7 5858.2 1685.8 3742.1 1517.4 1008.5 2653.9 348.1 1468.8
182.3 840.3 1102.1 875.7 377.6 294.9 1103.4 1.7 357.5 1072.0 667.1 627.1 393.1 439.2 465.1 98.2
386.1 183.2 172.7 133.8 154.5 53.4 151.3 89.5 62.2 30.5 112.3 1.3 52.3 113.6 66.9 19.2 44.5
2.4 78.2 2.7 4.9 1.9 8.2 11.7 7.6 13.4 1.6
2023 10 467.7 434.8 1878.5 359.3 1148.9 349.1 223.5 1467.2 85.3 91.9 856.3 789.0 471.2 550.4
94.5 116.8 166.9 23.3 557.0 270.2 25.3 46.0 342.3 335.4 433.9 14.2 96.6 182.5 14.6 133.1 26.0
28.9 19.5 30.0 6.1 39.0 15.4 5.1 4.0 23.1 14.5 65.1 60.4 24.7 42.6 3.1 13.9 17.3 9.9
15.9 5.7 10.8 1.7 9.9 2.9 0.0
2023 11 2.9 12.4 39.6 8.6 88.3 3.0 2.1 100.9 0.6 4.1 71.2 1465.7 6.0 1079.4 1.9 1.6
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2023 12 0.1 1.1 3.3 0.5 9.8 0.2 0.1 2.4 0.0 0.9 10.0 2086.4 0.1 1512.1 0.1 0.1 0.0
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2024 1 0.1 0.6 3.0 0.4 6.2 0.1 0.2 32.9 0.0 0.5 8.3 2696.8 0.4 1902.5 0.1 0.2 0.0
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2024 2 0.1 1.3 4.1 0.7 5.6 0.1 0.0 2.5 0.0 0.8 2.1 2442.8 0.2 1718.2 0.2 0.2 0.0
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2024 3 5.8 17.6 62.5 13.6 46.7 3.4 0.6 62.7 1.5 5.9 43.5 2002.2 18.8 1432.6 2.2 2.6
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2024 4 131.1 372.5 578.2 283.8 517.3 85.7 105.3 534.7 125.6 88.5 234.9 921.3 156.0 617.4 43.1
37.9 62.1 32.4 464.9 92.8 58.3 32.8 86.3 109.7 121.0 10.4 19.8 65.9 5.7 56.1 12.6 6.1
7.3 7.7 1.0 6.5 3.2 4.9 1.7 5.0 23.6 52.2 27.1 12.5 30.0 1.8 14.4 2.5 10.1 25.4 5.7
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2024 5 1504.8 2103.8 5327.4 1580.4 2488.0 1434.5 967.3 1974.9 794.8 459.2 1360.5 576.5 857.2 337.0
369.0 413.4 492.9 183.0 205.0 559.0 2.5 224.8 523.8 345.3 278.6 154.3 117.4 304.4 94.9 204.2
80.3 70.3 57.1 49.7 18.3 55.7 60.2 27.4 28.8 42.3 2.2 35.0 70.3 35.8 11.9 17.2 3.0 45.4
2.7 9.4 0.9 16.0 4.4 10.0 10.1 0.3
2024 6 7212.7 7822.1 12244.1 5829.7 6440.5 8539.9 3537.7 3518.0 2460.2 1674.0 2507.2 169.3 1544.3
101.4 1256.2 1324.6 1133.5 689.6 78.5 1149.6 0.3 809.3 973.6 622.2 530.7 588.9 372.4 536.5 328.9
394.5 247.1 205.2 183.1 160.1 113.5 128.4 174.9 108.0 109.0 178.1 0.3 21.4 106.1 108.2 2.7
47.6 1.4 83.2 1.9 1.3 0.1 9.1 26.3 6.0 24.4 11.5
2024 7 18017.3 15679.8 16863.4 10618.5 10526.7 14545.1 6324.6 5125.9 3754.0 2840.6 3388.4 258.1 2135.4
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517.3 389.7 303.1 273.0 237.6 227.0 205.6 222.1 185.7 150.5 249.3 0.4 19.7 144.6 138.6 1.8

72.1 0.6 103.7 0.9 0.3 0.0 4.9 35.9 4.8 29.2 20.5
2024 8 20878.3 16500.4 16690.7 10914.6 11145.4 13624.9 5599.6 5917.1 3571.5 2812.7 3710.8 209.3 2182.7
94.2 1792.5 1952.8 1492.2 1121.0 118.0 1712.1 2.4 1066.2 1410.5 1120.0 988.9 970.1 694.4 615.3 365.0
634.5 389.8 299.3 277.4 242.7 204.7 209.1 215.2 179.2 116.8 242.1 0.4 32.2 135.4 134.0 4.5
82.6 1.5 95.5 1.4 0.8 0.3 5.7 32.0 6.0 26.8 14.9
2024 9 8066.2 5318.9 9774.2 3931.3 5458.5 6385.4 1533.3 3906.5 1362.7 1013.7 2889.6 370.1 1417.3 211.3
827.8 998.7 762.1 381.4 270.4 1187.3 4.4 305.2 1138.6 685.0 627.1 328.9 436.4 482.4 110.4 415.4
176.1 155.4 109.0 147.8 60.9 140.6 100.4 61.4 34.2 113.9 3.0 45.0 105.1 67.8 16.9 38.9 4.2
71.0 4.0 5.9 1.5 6.4 11.7 6.5 14.5 1.1
2024 10 399.0 447.2 1625.4 366.7 895.6 320.9 157.2 1053.3 67.4 98.9 634.4 724.7 290.3 421.0 72.4
98.3 92.9 25.5 541.2 188.5 19.0 25.0 234.4 223.9 334.3 9.0 125.8 136.1 16.2 80.1 24.0 31.7
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2024 11 3.5 8.7 28.2 7.2 53.7 2.8 0.1 16.3 0.4 3.0 14.2 1292.3 3.1 897.8 1.4 1.2 1.2
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2025 4 186.3 401.2 622.6 299.6 382.8 105.1 73.6 431.6 96.7 95.0 206.7 907.1 157.1 633.2 45.1
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19.1 0.3 9.8 0.6 0.0
2025 5 2346.1 2493.9 5412.4 1914.6 2180.9 1441.6 906.8 1888.4 737.3 566.9 1520.4 468.8 1012.8 310.6
382.9 430.5 643.4 228.8 216.9 641.4 3.9 338.9 618.2 335.3 277.6 138.2 198.7 357.7 90.1 209.5
89.5 104.2 80.7 82.0 18.4 85.1 61.6 34.2 27.4 59.1 3.1 35.7 82.9 41.0 13.9 15.8 3.5 43.8
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2025 6 7373.3 8475.5 13685.8 6410.2 6625.0 7639.1 3768.1 3623.3 2422.2 1853.7 2583.6 218.7 1611.3
162.9 1279.5 1463.5 1148.0 776.0 76.6 1213.8 0.3 865.5 1011.5 694.7 630.4 606.7 414.6 549.1 305.7
423.8 270.5 224.5 184.1 172.3 110.0 142.1 181.5 120.4 103.4 183.6 0.3 21.8 109.0 107.9 2.9
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2025 7 18962.2 15703.9 17120.2 10683.1 10847.1 15204.8 6653.3 5167.3 3698.8 2852.9 3512.3 185.8 2153.5
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2025 8 21044.1 16739.8 17190.0 11291.5 10899.4 13621.8 5812.0 6008.7 3543.8 2920.0 4114.5 242.9 2119.6
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366.9 672.2 402.9 312.4 276.4 249.5 220.4 213.6 238.3 191.4 120.1 205.9 0.2 29.8 128.1 122.2
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2025 9 7535.1 5427.8 10175.2 4109.9 4584.1 6258.9 1229.7 3638.2 1113.0 1078.1 2534.2 288.7 1366.8

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491.1 185.7 168.1 116.1 151.4 60.3 153.8 117.6 65.4 33.6 118.5 2.2 48.0 101.5 67.3 17.2 34.5
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2025 10 521.2 442.1 1635.9 363.8 837.9 316.4 142.0 996.0 54.3 93.9 637.4 729.2 344.9 499.4 79.2
97.0 122.9 25.8 587.6 190.2 20.2 32.9 254.9 346.5 442.4 8.0 108.8 149.2 17.9 143.4 24.2 29.8
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2026 6 6220.0 7685.2 12555.8 5758.1 6833.8 6597.1 3923.7 3891.1 2472.0 1684.6 2827.5 281.2 1792.2
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2026 9 7837.6 5741.8 10499.9 4298.4 6030.7 6655.6 1875.9 4324.2 1632.7 1128.8 2835.8 346.6 1457.9
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75.2 75.3 73.6 56.0 17.6 65.6 53.8 29.3 26.6 53.6 1.9 36.9 69.9 42.8 13.8 18.5 3.1 37.4
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2027 6 7052.5 8013.8 12036.8 5992.9 6665.4 7750.2 3707.8 3935.2 2358.5 1730.2 2794.4 273.1 1769.8
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2027 7 17019.6 15513.6 16719.0 10483.4 11077.9 14286.6 7024.7 5882.9 3791.3 2834.0 3791.5 293.3 2192.0
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2027 8 20655.8 15988.4 16096.1 10667.7 11976.1 14267.0 6261.9 6619.7 3685.0 2750.7 4157.1 273.3 2112.6
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338.0 686.6 379.3 279.9 278.3 221.4 212.8 187.8 200.9 178.1 109.3 236.1 0.3 37.7 126.5 125.5
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2027 9 6734.0 4886.3 10347.8 3675.9 5927.9 5867.6 1783.8 4254.3 1488.4 955.9 2826.3 317.8 1496.6 183.8
761.8 995.2 831.5 354.6 314.1 1216.6 2.9 338.6 1166.7 842.4 791.6 359.8 349.4 456.9 101.8 475.1
169.1 127.0 122.0 119.9 60.1 121.4 92.5 59.7 31.9 112.7 2.3 51.6 103.1 71.0 20.8 41.3 3.0
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19.8 13.8 23.9 6.6 32.9 15.2 5.7 4.9 27.6 15.6 72.8 44.3 22.5 46.9 3.3 16.5 17.3 10.6
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2028 4 189.7 438.4 865.0 327.5 484.7 186.4 108.4 514.1 116.6 105.3 261.7 1069.5 143.5 659.7 55.2
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2028 5 1997.5 2244.4 5139.0 1618.6 2592.1 1659.3 1021.2 2037.7 922.6 490.2 1480.5 530.5 1006.5 318.4
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2028 6 8453.0 8600.7 14124.1 6362.5 6672.9 8913.8 3665.7 3885.2 2387.2 1800.3 2695.4 185.4 1698.4
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376.4 271.1 236.0 194.8 188.4 131.8 160.4 181.2 118.1 115.5 194.5 0.3 22.2 113.8 94.9 2.9
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2028 7 20014.5 17735.5 17822.8 12161.6 10816.4 16246.4 6562.2 5367.4 3697.4 3207.3 3442.2 244.7 2117.4
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515.1 421.3 317.5 263.7 264.0 229.1 234.3 210.1 217.0 152.5 235.8 0.9 19.9 140.3 132.4 1.7
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355.0 602.1 391.4 311.5 267.7 242.8 217.9 216.7 203.2 197.3 115.8 213.5 0.4 29.7 139.4 120.1
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2028 9 8098.7 5328.1 10076.7 3997.7 5604.2 6810.7 1606.0 3992.7 1349.5 1027.6 2687.1 433.5 1364.0
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2029 4 187.0 335.1 763.3 258.4 493.4 114.5 95.3 546.5 109.7 80.9 261.2 1081.8 158.0 664.8 42.4
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2029 5 1819.4 2184.5 4365.4 1627.6 2334.0 1341.7 924.0 1795.9 743.3 480.1 1475.3 515.6 1000.4 392.5
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2029 6 8291.3 8232.9 13009.8 6187.1 6339.5 8602.1 3491.6 3720.6 2366.6 1744.5 2728.8 200.8 1684.9
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2029 9 7338.7 5222.0 10391.5 3988.6 5442.7 6256.7 1690.3 3771.0 1422.0 1017.1 2601.8 340.5 1391.4
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2029 10 531.7 520.2 1895.6 436.8 1172.4 324.4 198.6 1286.5 121.8 114.9 696.6 661.2 294.7 450.9
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88.3 87.8 74.7 66.3 20.7 73.6 72.2 34.4 29.7 62.4 1.7 32.3 76.1 47.2 12.9 13.6 3.2 43.5
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2031 9 8142.6 5544.6 10715.9 4244.5 6275.0 6525.6 1911.4 4099.7 1676.2 1070.8 2636.9 298.3 1355.2
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2031 10 506.9 550.2 1712.8 445.2 1020.2 354.0 174.2 1113.0 75.2 121.2 617.5 716.3 341.7 462.4
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119.2 79.9 88.4 56.1 33.4 62.5 84.1 51.8 42.1 79.6 2.9 26.5 85.3 50.4 14.6 22.2 4.5
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2047 6 9734.7 10260.6 14393.4 7623.4 7581.4 10093.8 4231.8 4176.3 2729.4 2134.6 2867.8 214.6 1855.3
136.9 1453.9 1625.4 1302.7 901.0 78.0 1309.8 0.5 923.2 1115.5 728.5 698.2 715.2 446.6 604.0 337.0
424.2 301.0 263.1 205.6 200.5 145.4 161.9 207.3 141.9 112.9 215.1 0.5 14.1 124.5 116.0 5.1
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2047 7 19554.8 17507.7 17634.5 11559.7 11213.7 14580.2 6808.7 5498.8 3711.2 3047.5 3308.0 257.6 2019.3
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2047 8 21561.7 17454.3 15667.6 10831.6 11787.7 13227.5 6109.7 5961.3 3705.6 2742.6 3188.0 298.6 1508.0
150.2 1695.7 1710.5 910.3 1008.6 125.0 1622.9 3.7 601.2 1291.5 1286.6 1259.0 851.8 534.9 325.9
282.6 699.7 353.9 188.6 174.2 145.3 190.1 163.9 136.9 175.3 86.5 158.1 0.8 16.3 99.7 77.1
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2047 9 7501.7 5697.8 9738.1 3996.6 6181.8 6388.4 1897.2 4248.2 1690.9 1037.8 2558.1 435.9 1007.4 233.8
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108.2 96.9 127.4 77.9 34.7 73.9 64.7 41.1 46.1 61.9 2.1 28.1 88.3 64.3 10.4 31.3 2.3
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2048 6 10176.6 10789.7 14654.3 7910.1 8182.3 9389.6 4544.0 4473.0 2812.0 2246.4 2968.0 311.2 1880.7
188.9 1459.1 1667.4 1357.6 944.3 83.0 1366.2 0.5 918.1 1134.3 678.3 668.1 678.8 545.1 594.8 392.9
410.9 314.5 279.3 213.9 225.0 160.2 186.0 186.5 147.3 131.9 193.0 0.5 18.6 124.8 124.0 4.9
58.1 1.9 96.3 2.1 2.2 0.3 10.2 29.0 5.4 26.0 15.5
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170.2 105.6 104.2 99.0 56.4 121.1 82.0 57.4 23.4 104.2 2.9 38.1 63.6 42.3 25.1 41.0 4.0
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2049 5 2822.2 3469.0 6707.3 2555.2 3192.5 2245.5 1446.3 2485.3 1144.0 766.9 1884.0 658.5 1216.4 339.3
605.4 634.3 792.8 316.1 184.5 803.0 2.1 472.2 726.8 414.0 357.6 245.3 202.0 427.9 135.8 258.0
117.6 117.2 111.9 85.8 32.7 88.1 99.7 48.4 42.0 101.1 1.6 26.5 90.5 54.1 12.1 25.9 2.2
56.0 2.4 10.4 1.5 15.0 13.5 8.7 14.5 1.0
2049 6 10056.9 10522.5 15361.2 7963.8 7916.0 9714.1 4421.2 4118.3 2684.3 2242.4 2974.1 276.3 1835.9
173.3 1445.6 1672.8 1319.7 939.2 59.5 1333.2 1.1 914.5 1128.5 684.3 676.9 674.9 451.3 613.4 389.8
413.6 321.0 239.9 198.1 189.9 152.6 158.7 189.5 147.0 129.8 197.5 0.9 11.9 125.1 113.5 4.2
58.4 2.1 100.6 2.2 2.4 0.3 7.9 29.0 4.8 25.8 14.9
2049 7 18682.4 16923.6 17389.1 11443.8 11906.3 14435.2 7272.9 5726.4 4145.0 3059.3 3205.0 307.6 1900.8
145.4 1848.0 2027.9 1208.1 1177.1 53.2 1579.9 1.4 735.1 1256.2 984.1 994.8 915.1 641.1 536.3 365.5
506.9 410.0 238.4 184.8 210.8 196.9 213.2 176.8 197.2 116.2 230.3 0.7 10.8 143.2 130.5 3.4
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2049 8 19688.9 16851.0 15285.3 10500.2 11808.1 13329.3 6296.5 6351.7 3702.6 2726.2 3294.3 333.1 1468.1
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588.4 352.5 165.6 175.5 132.5 186.3 160.7 134.9 169.1 83.2 157.1 0.9 15.7 98.7 73.2 10.0 60.7
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2049 9 8373.4 5731.2 9478.9 4044.0 5875.5 6578.4 1689.3 4106.2 1469.6 1028.7 2417.2 481.8 874.5 263.2
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178.8 102.2 80.7 96.5 54.6 124.1 83.8 61.2 23.1 110.1 3.9 35.7 55.8 41.9 26.5 31.3 5.6
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2049 10 619.8 577.4 2281.1 463.7 1585.1 416.2 296.3 1610.4 170.1 123.8 828.6 933.6 342.0 603.4
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2.8 0.7 665.1 12.3 490.2 0.4 11.9 69.5 71.0 0.4 0.7 8.9 0.3 13.7 1.1 0.1 0.1 0.3
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2065 3 44.1 97.4 534.0 89.6 188.9 26.4 7.7 315.1 10.1 28.7 195.1 2389.9 81.7 1155.1 9.1
17.9 25.4 4.9 633.4 58.7 319.1 5.9 58.8 69.5 102.5 0.7 12.3 31.4 0.4 23.3 5.8 1.5 1.8
2.8 0.3 4.5 0.5 1.0 0.2 0.5 53.2 86.2 21.8 0.3 33.8 0.8 12.6 1.8 14.9 34.2 9.7 23.6
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2065 4 814.3 1396.7 2495.9 1057.7 967.5 551.5 262.6 975.5 289.4 334.6 545.7 1345.2 364.0 731.7
154.0 184.9 165.1 133.0 355.5 222.5 26.2 78.8 248.5 244.3 244.2 42.8 63.0 154.3 41.4 118.6
43.0 24.1 20.4 22.9 8.3 23.6 18.0 19.0 13.1 26.0 11.2 42.7 46.5 23.6 21.8 6.0 7.8 16.4
7.3 22.2 4.1 21.6 2.2 8.2 2.7 0.2
2065 5 5053.7 5657.3 8467.8 4079.0 4011.3 3051.0 2011.4 3015.4 1510.6 1189.6 2323.6 607.2 1366.4 323.2
826.6 892.2 835.3 511.8 164.0 1018.1 3.2 531.1 911.4 409.1 339.6 410.3 277.9 500.1 199.7 286.4
164.8 139.8 113.2 114.3 59.6 105.8 90.3 77.2 63.1 105.1 2.1 24.2 94.4 65.0 10.6 39.8 4.5
61.0 3.2 11.3 0.9 14.6 13.9 8.0 13.6 2.7
2065 6 11264.5 10917.0 14354.3 7961.9 9063.4 10984.7 5218.6 4528.5 3246.8 2229.6 3091.2 242.6 1942.8
134.9 1531.4 1686.2 1373.9 904.3 85.9 1367.2 0.6 919.8 1165.2 638.2 671.1 815.9 528.5 610.8 383.3
397.9 308.8 249.9 214.5 207.1 177.3 187.1 190.5 146.1 128.9 190.0 0.5 14.2 128.5 133.2 6.1
68.7 2.2 99.0 2.4 3.6 0.4 11.6 26.7 5.1 26.6 17.3
2065 7 18898.3 15538.9 15225.5 9479.3 12063.7 12471.1 7551.3 5642.8 4174.4 2519.0 2850.3 299.3 1523.2
172.6 1585.9 1673.1 1022.7 878.6 59.4 1509.1 1.9 631.8 1125.2 974.9 1063.6 824.0 565.1 393.8 283.4
468.1 335.8 182.9 157.2 164.3 173.1 192.0 192.5 156.8 89.0 221.4 1.1 11.4 109.8 112.5 4.1
64.6 1.5 94.9 1.4 0.9 0.2 5.7 30.4 4.7 25.7 14.2
2065 8 19016.7 15427.1 13913.7 8667.4 12146.8 11541.7 6565.3 5975.4 3981.0 2233.2 2590.9 395.2 927.7
196.1 1453.9 1411.4 591.5 716.4 131.0 1515.4 6.1 447.7 1132.4 1133.8 1227.1 757.4 418.8 211.6 210.9
578.1 297.7 105.5 126.1 87.0 156.2 118.4 87.5 137.1 62.2 105.6 1.7 13.2 60.5 47.6 12.1 47.5
3.4 72.3 2.2 3.6 0.9 4.8 12.3 4.5 12.2 12.3
2065 9 8611.7 5807.0 8230.8 3594.1 6694.4 7465.5 2174.9 4547.0 1751.6 950.0 2372.8 559.0 726.9 291.9
746.8 757.0 405.2 280.9 293.6 1231.1 8.2 238.3 1000.4 807.6 900.5 359.3 321.6 235.9 93.9 423.7
156.0 73.3 81.8 68.0 63.7 91.5 60.5 57.1 27.5 81.7 4.9 34.3 41.3 25.6 22.3 32.0 6.9
47.1 5.6 13.1 2.4 6.5 8.1 6.7 8.6 1.2
2065 10 769.6 653.0 2710.6 510.5 1892.0 473.5 380.5 2020.1 133.8 143.8 1002.9 1131.8 435.7 790.5
118.4 179.5 119.2 30.7 474.1 339.6 61.5 24.8 491.7 458.1 640.5 10.0 148.6 213.1 12.4 189.2
39.1 30.0 11.7 40.6 5.7 51.3 17.6 7.4 3.5 41.9 25.8 49.2 43.3 13.0 31.7 2.2 21.5 23.7
13.9 24.4 5.2 9.3 1.7 9.1 4.0 0.0
2065 11 28.4 31.5 92.9 26.4 376.6 12.9 10.5 379.7 4.1 7.5 224.3 1740.4 8.4 1245.0 2.3 3.5
1.7 1.0 532.6 49.7 303.5 0.3 74.7 224.4 288.7 0.2 9.6 33.5 2.6 68.7 1.2 0.2 0.1 2.3
1.0 3.2 0.3 0.4 0.5 2.0 68.9 59.0 4.0 0.2 29.2 0.1 41.5 0.2 29.4 33.2 4.7 10.5 0.1
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2065 12 2.3 5.0 24.1 4.3 244.8 3.0 9.7 172.7 2.3 2.0 59.1 2355.6 1.3 1464.0 0.4 0.7
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2066 1 0.9 6.5 25.4 4.5 138.3 1.4 3.7 131.1 1.2 2.6 67.0 2874.6 5.0 1496.0 0.5 0.7
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2066 2 5.2 20.0 79.5 17.7 118.6 4.0 1.0 93.3 1.3 5.2 44.7 2763.4 13.2 1277.0 2.4 2.9
2.7 1.0 678.3 14.1 476.8 0.2 10.8 69.8 74.0 0.4 1.2 7.9 0.2 17.4 1.7 0.1 0.0 0.4
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2066 3 56.4 98.2 464.7 91.2 183.1 27.8 7.7 241.8 6.2 28.9 146.8 2247.5 91.4 1100.7 11.0

15.4 38.8 5.5 655.7 52.3 322.0 8.0 52.3 57.8 85.0 0.6 9.2 29.7 0.7 18.9 5.0 1.2 3.3
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2066 4 1366.5 1832.9 3011.8 1367.4 1210.1 725.5 315.4 1106.5 327.5 414.0 574.5 1317.5 431.5 604.5
210.3 233.3 196.1 169.0 355.7 236.2 29.5 90.9 275.7 219.0 218.7 49.3 69.0 175.8 46.2 123.8
54.9 29.0 22.9 26.3 9.8 26.4 18.7 24.8 14.7 20.1 11.8 40.8 53.1 28.6 21.1 5.2 7.4 20.1
7.0 21.4 4.4 21.0 1.7 7.4 2.8 0.1
2066 5 5003.0 4861.9 8091.0 3580.5 4190.8 3378.5 2107.8 3189.6 1510.9 1028.8 2613.5 723.1 1491.1 350.7
754.1 853.1 989.4 439.8 184.3 1112.2 5.3 620.4 1011.7 387.1 349.4 389.5 231.2 542.9 199.1 246.5
152.7 135.6 142.4 99.2 54.3 101.3 94.8 67.2 61.7 98.4 2.7 27.9 103.7 74.3 13.8 38.6 4.0
62.2 3.0 14.0 1.3 17.8 12.7 7.1 13.3 3.1
2066 6 11068.1 11356.3 14795.0 8275.8 9096.8 8358.0 5458.5 4942.7 3273.1 2277.8 3179.5 408.3 1997.7
211.7 1560.9 1781.0 1354.2 924.9 76.1 1460.8 1.0 868.2 1163.8 623.7 668.4 830.2 521.8 608.5 394.3
379.9 318.5 249.9 205.6 206.8 166.8 176.2 185.4 150.0 133.2 216.5 0.8 12.7 129.3 130.6 5.3
72.1 2.4 108.3 2.1 2.8 0.4 9.9 32.6 4.8 25.2 16.1
2066 7 18627.7 15776.6 16328.5 9534.7 12341.9 14719.6 7608.9 5674.8 4059.6 2525.4 2929.1 386.5 1502.3
235.9 1601.0 1687.1 954.0 864.6 51.1 1539.4 4.8 573.4 1196.2 923.0 1016.0 814.6 506.4 409.9 306.5
462.8 335.8 183.3 160.7 152.2 169.7 173.6 155.8 153.5 96.0 203.0 2.0 10.0 111.4 99.2 3.2 65.4
2.6 98.0 2.2 1.0 0.1 6.1 29.9 4.6 21.4 16.3
2066 8 18734.1 14768.2 13133.0 8197.0 13097.1 11408.5 7263.7 6616.3 4074.9 2145.0 2809.9 390.8 901.3
192.4 1402.5 1347.3 557.1 675.8 129.0 1683.8 5.4 446.3 1219.0 1089.5 1190.1 780.4 379.0 192.6 204.3
543.1 285.8 120.6 135.0 88.5 156.4 112.8 96.1 128.5 60.4 121.1 1.3 14.6 44.3 48.7 10.3 48.7
3.6 73.0 2.4 2.9 0.7 5.3 15.4 5.3 12.0 12.0
2066 9 6782.2 5075.6 8562.2 3135.0 6883.1 5596.2 2405.9 4405.0 1947.6 846.4 2317.8 629.2 747.3 330.6
743.9 761.4 383.4 243.9 285.8 1169.5 9.0 230.3 1032.6 784.8 899.4 380.4 253.7 263.4 71.1 402.7
154.5 58.6 74.9 57.8 57.0 74.9 66.9 52.4 21.3 87.7 5.1 32.1 41.3 36.8 24.6 31.1 8.0
53.3 6.0 13.9 1.7 7.0 9.8 6.6 9.3 1.0
2066 10 934.6 647.6 1934.0 491.3 1985.3 382.8 432.0 1976.0 200.7 138.9 1074.1 1168.8 340.5 822.3
109.4 129.6 103.6 34.3 447.6 356.2 48.0 22.8 493.5 404.6 587.7 17.1 128.2 190.7 11.6 162.4
31.6 30.5 10.2 33.8 6.1 48.0 13.2 7.9 3.0 28.7 22.9 48.6 37.2 16.4 29.8 2.7 23.8 19.2
13.8 27.7 5.2 8.2 0.8 9.3 3.7 0.0
2066 11 27.7 36.8 136.7 27.7 208.2 14.4 4.1 181.7 3.4 10.9 73.5 1676.4 18.7 1148.4 2.9 4.7
5.3 1.3 523.6 21.0 207.8 0.1 22.1 204.6 256.2 0.2 9.0 7.1 3.2 66.0 1.4 0.3 0.0 2.2
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2066 12 3.1 5.3 22.2 4.4 127.7 2.2 4.2 68.3 1.6 2.0 38.7 2443.0 4.3 1493.3 0.4 0.8
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2067 1 2.1 6.5 29.7 5.3 85.5 1.7 2.1 52.5 1.0 2.6 27.2 2994.6 3.3 1464.8 0.7 1.1 0.4
0.3 828.7 8.6 649.6 0.0 3.7 89.3 124.4 1.8 0.9 6.0 0.1 27.9 0.5 0.0 0.0 0.3 0.1 0.4
1.1 0.1 0.0 3.7 97.9 68.0 1.4 0.0 54.2 0.1 24.1 0.0 21.8 44.2 10.9 14.5 0.2 5.9 0.2
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2067 2 2.5 13.7 60.4 8.5 138.0 4.4 2.7 159.6 1.0 3.2 66.3 2535.9 15.6 1146.7 2.4 1.9
3.2 0.4 681.2 16.9 404.5 0.3 13.8 75.2 72.1 0.4 2.4 12.1 0.2 14.6 1.0 0.3 0.1 0.8
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2067 3 61.5 105.5 424.8 98.0 222.2 28.5 9.1 285.7 12.1 25.3 154.9 2236.6 74.5 1065.9 15.0
16.1 26.6 5.9 626.9 60.4 292.5 5.3 52.2 57.4 79.0 1.3 10.5 32.8 0.3 14.8 5.4 1.5 1.7
2.5 0.2 4.2 0.4 1.3 0.1 0.5 47.8 76.4 21.0 0.5 34.3 0.7 11.0 1.5 13.6 31.2 9.0 24.2
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2067 4 808.3 1284.6 2488.8 954.9 1306.3 480.6 359.0 1119.3 406.0 293.2 619.2 1334.7 447.5 637.5
166.0 182.0 218.9 117.8 329.2 259.3 22.0 98.7 282.5 209.4 234.1 73.0 70.6 177.7 43.1 96.5
40.4 28.5 27.6 26.8 8.5 25.9 10.8 17.7 13.2 14.3 9.3 41.9 52.1 20.2 18.0 8.9 8.1 17.0

6.8 21.4 4.6 22.5 0.9 10.0 1.7 0.2
2067 5 4962.6 5433.1 9215.6 4003.4 4142.6 3693.5 1942.9 3118.8 1471.1 1140.1 2509.3 863.9 1367.7 502.0
829.3 947.7 873.5 503.0 171.3 1076.9 7.7 624.2 996.9 425.7 390.2 383.1 318.0 518.9 230.8 285.7
178.3 175.7 130.4 136.8 65.2 127.7 110.8 76.5 72.9 110.6 4.0 21.8 94.2 59.2 12.3 37.5 5.3
70.3 4.6 15.9 1.0 16.1 14.7 7.6 15.5 2.1
2067 6 12868.8 12591.8 16450.2 9219.3 8958.7 11360.2 5307.0 4829.4 3188.6 2513.7 2998.9 321.4 2018.0
203.6 1620.8 1791.7 1448.0 1062.3 60.1 1386.1 1.4 922.8 1144.8 657.6 681.1 814.7 523.3 607.6 373.2
401.3 342.4 234.3 214.5 199.0 173.5 194.2 190.9 170.3 126.8 227.0 1.2 10.6 135.2 126.9 4.2
70.0 3.6 96.2 3.1 2.6 0.4 10.0 33.8 4.9 27.9 17.9
2067 7 19335.5 16839.4 15989.2 10555.2 12444.4 15769.6 7782.5 5826.0 4413.8 2794.2 2706.3 374.8 1610.0
188.3 1671.6 1731.1 1042.3 1020.3 74.5 1473.0 2.5 595.9 1107.9 968.0 1069.5 894.4 447.6 351.7 288.3
475.5 360.8 156.2 151.5 129.9 170.1 148.6 194.3 180.8 91.0 211.6 1.2 11.5 128.4 110.6 5.1
59.6 1.3 94.0 1.2 1.4 0.3 6.5 29.9 4.6 25.6 14.1
2067 8 20047.6 15910.2 13443.1 8991.3 11957.8 11406.1 6254.5 5967.3 3822.8 2381.2 2619.3 344.0 926.5
165.6 1382.7 1373.3 513.7 774.7 136.4 1556.5 5.5 407.1 1152.1 1068.1 1157.3 699.6 351.3 193.2 216.9
534.9 295.8 106.8 117.0 79.5 163.0 112.6 100.7 142.7 63.4 119.5 1.7 12.8 61.1 55.3 11.7 43.0
3.4 63.3 2.2 3.1 0.9 5.1 13.4 5.3 12.3 9.4
2067 9 7419.9 5105.4 8144.8 3233.9 7290.7 5983.7 2445.9 4769.8 1988.3 850.2 2422.2 499.0 679.0 263.0
699.5 715.6 372.2 248.9 292.9 1250.3 10.2 240.5 1032.4 783.1 899.8 397.0 246.4 235.3 68.9 392.1
147.0 61.0 76.0 58.4 46.6 80.4 64.4 50.8 20.2 79.9 6.3 31.7 37.5 29.7 24.3 34.3 6.8
46.8 5.1 15.6 2.9 6.7 8.0 5.5 8.4 1.6
2067 10 989.1 694.3 2816.2 534.3 2076.3 510.9 437.4 2165.3 172.8 137.0 1114.6 1113.4 491.1 734.6
130.7 187.9 134.8 32.6 418.1 387.2 63.3 26.7 534.2 333.5 471.4 13.1 119.1 230.1 13.3 141.9
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12.3 28.0 4.4 9.1 1.3 9.2 2.7 0.0
2067 11 29.7 33.9 126.3 30.2 332.9 11.0 14.6 259.7 3.8 8.9 138.8 1618.8 25.7 1101.8 2.8
4.3 5.4 1.2 529.3 37.1 237.0 0.3 40.3 169.7 217.1 0.1 14.4 26.1 2.5 53.7 1.4 0.4 0.2
3.2 0.9 5.2 0.5 0.4 0.6 3.7 57.6 53.3 9.8 0.7 30.5 0.1 37.9 0.3 27.2 31.1 4.7 9.6
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2067 12 2.4 7.5 20.7 5.9 132.5 3.6 6.4 131.2 1.2 2.4 53.0 2442.7 1.5 1559.0 0.6 0.9
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2.2 0.2 739.7 24.5 624.3 0.4 34.5 98.1 142.2 4.0 0.6 33.0 0.1 25.2 0.4 0.0 0.0 0.2
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2068 2 6.4 16.8 68.9 12.3 112.8 4.2 1.9 86.3 3.5 4.3 48.1 2748.6 13.0 1244.2 2.0 2.3
1.5 0.6 688.9 9.6 455.3 0.5 11.1 63.0 64.5 1.3 1.9 10.8 0.5 14.8 1.1 0.2 0.0 0.5
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2068 3 49.5 92.7 461.0 93.1 306.1 17.8 21.7 459.1 36.4 26.4 252.3 2252.9 168.1 1114.1 11.5
17.0 84.8 4.6 603.0 82.0 248.0 20.2 87.7 67.0 91.1 6.7 10.5 56.2 0.5 18.6 5.5 1.4 6.5
2.5 0.3 3.3 0.3 1.2 0.2 0.8 40.6 86.0 30.2 0.5 30.5 2.1 7.8 1.9 11.4 34.9 9.0 22.9
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2068 4 1083.9 1556.7 2716.5 1164.3 1518.7 690.1 471.7 1317.0 469.0 359.4 884.5 1389.4 479.8 692.8
181.5 219.0 259.2 145.3 345.7 356.5 43.4 137.8 371.5 293.3 300.2 101.9 84.2 215.3 43.3 135.8
49.4 33.1 32.7 32.0 9.2 28.5 18.3 21.3 13.9 17.3 15.1 37.4 49.0 26.4 20.9 11.3 7.4 19.8
7.3 20.0 4.3 20.8 1.1 8.1 2.7 0.3
2068 5 4881.0 5141.9 8628.6 3822.1 5124.5 3816.6 2586.8 3186.0 1866.3 1093.2 2244.2 708.8 1437.8 364.8
840.1 923.4 1004.2 479.8 182.4 1024.2 5.1 633.6 894.1 418.6 412.2 499.8 359.1 473.0 202.9 289.1
171.8 187.3 143.3 147.0 58.0 154.8 114.9 72.1 63.6 124.4 3.3 30.2 102.8 62.5 11.5 43.9 4.5
66.9 3.3 14.7 1.3 17.4 16.7 7.9 16.1 5.1
2068 6 11846.7 11870.3 14390.9 8524.8 9325.9 8474.7 5388.0 4659.0 3181.7 2365.1 2788.9 399.8 1859.8

199.9 1479.5 1725.5 1213.2 999.1 71.7 1336.2 0.9 844.0 1096.7 666.3 721.5 741.5 540.4 520.7 389.9
371.1 325.6 231.6 178.5 208.9 184.4 198.8 208.5 158.4 132.2 242.3 0.7 13.8 133.2 126.7 5.0
64.7 1.9 97.5 2.0 4.1 0.4 9.5 36.4 4.8 28.7 15.0
2068 7 18321.9 15517.0 15322.1 9513.0 12477.5 12908.4 7921.5 5874.7 4136.6 2499.6 2856.9 384.0 1466.8
218.4 1564.7 1631.0 965.2 881.3 69.5 1553.3 2.9 605.5 1151.4 1048.0 1141.4 739.8 447.5 405.3 298.6
519.6 330.7 149.0 159.3 129.0 172.3 158.9 144.6 158.4 94.6 160.6 1.5 9.8 107.8 101.2 5.5 50.0
2.0 93.6 1.7 1.6 0.2 5.7 21.4 4.6 21.8 14.1
2068 8 19774.8 14749.0 13070.9 8165.8 12855.8 11616.9 6966.6 6270.1 3990.3 2089.1 2631.7 420.8 950.4
220.3 1368.9 1320.7 495.5 663.1 123.3 1557.8 6.8 416.5 1170.6 1173.2 1259.6 718.1 340.4 261.2 191.1
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333.4 156.2 71.5 53.2 54.7 95.9 53.9 69.1 71.5 42.2 56.7 3.3 8.5 21.7 37.2 12.5 26.2
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2100 9 4815.8 3832.8 5212.0 2187.1 7065.0 4682.6 2957.5 4214.1 2039.6 571.4 1423.9 794.4 430.6 483.5
446.2 454.1 257.5 159.7 298.6 1017.9 28.6 116.9 569.9 568.2 690.6 337.0 121.5 130.6 76.5 249.3
90.7 42.5 47.1 40.0 55.5 37.7 53.4 38.7 24.8 63.1 11.6 28.1 22.0 21.8 25.0 25.2 12.8
48.3 8.9 22.2 1.7 5.7 8.2 6.1 7.6 2.1
2100 10 556.5 464.5 1256.2 347.8 1223.2 277.4 361.9 1298.7 149.6 100.4 651.8 1388.9 29.9 951.8
83.4 108.2 7.1 21.8 439.9 310.0 140.3 1.2 281.9 135.4 172.2 14.2 66.7 12.1 11.4 56.1 20.9
18.1 0.6 23.6 5.3 27.0 21.4 5.0 3.2 35.7 44.1 44.1 3.5 17.0 27.5 1.6 33.0 10.9 23.7
33.4 2.3 8.0 2.2 9.0 4.5 0.0
2100 11 46.3 53.9 123.5 48.2 276.3 6.4 18.7 363.0 2.4 14.3 158.4 1921.2 0.0 1100.4 3.4 6.7
0.0 4.0 563.7 52.6 324.8 0.1 64.6 90.1 110.2 0.1 4.7 0.5 3.9 33.3 1.4 0.2 0.0 1.1
1.4 1.8 1.1 0.7 1.3 8.0 68.2 58.7 0.0 1.3 29.7 0.1 29.6 0.3 21.8 37.1 2.7 9.1 0.2
11.2 0.4 0.0
2100 12 10.5 7.1 14.1 7.1 121.2 4.5 10.0 114.7 3.0 1.7 36.2 2492.2 0.2 1029.5 0.4 0.8
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0.6 0.4 0.1 0.2 2.8 68.8 58.2 0.1 0.1 35.4 0.3 21.4 0.0 18.5 43.2 4.1 14.5 0.1 9.5
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Standard deviation of computed monthly glacier runoff (in 10^6 m^3 per month) derived from results of 12 GCMs. Results refer to 56 macroscale drainage basins over the period 1980 to 2100 for RCP2.6.
Glacier runoff is defined as runoff from the initially glacierized area (i.e. including runoff from precipitation and snow melt in the growing unglacierized portions, see Methods).
Glacier runoff from each glacier basin (initially glacierized by 100%) is computed individually and then the runoff from all glaciers within the same macroscale drainage basin is summed up.
#
Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
#
; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year Month Glacier_runoff (mio. m^3 per month)
1980 1 0.0 0.1 0.7 0.1 0.0 0.0 0.0 0.0 0.0 0.4 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0
1980 2 0.0 0.5 1.2 0.3 0.0 0.0 0.0 0.0 0.0 0.6 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.0 0.0 0.0 0.0 0.0 0.0 0.0
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1994 5 16.5 356.4 165.3 289.7 0.0 7.3 0.0 0.0 0.0 91.8 0.0 0.0 0.0 0.0 24.7 32.6 0.0
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1994 6 45.3 1222.8 596.5 978.2 0.0 18.5 0.0 0.0 0.0 310.5 0.0 0.0 0.0 0.0 90.1 118.2
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1994 7 60.3 1507.3 659.4 1312.8 0.0 28.1 0.0 0.0 0.0 372.0 0.0 0.0 0.0 0.0 124.1 136.9
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1998 1 0.1 0.9 1.1 0.3 0.0 0.0 0.0 0.0 0.0 0.9 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0
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1998 2 0.2 1.7 2.5 0.7 0.0 0.2 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.1 0.6 0.0 0.0
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1998 3 0.7 10.7 4.5 14.0 0.0 0.7 0.0 0.0 0.0 4.0 0.0 0.0 0.0 0.0 1.5 1.9 0.0
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1998 4 5.3 93.7 45.8 73.2 0.0 4.4 0.0 0.0 0.0 24.4 0.0 0.0 0.0 0.0 5.9 7.5 0.0
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1998 5 15.2 265.1 163.3 250.0 0.0 7.6 0.0 0.0 0.0 72.4 0.0 0.0 0.0 0.0 19.0 28.3 0.0
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1998 6 63.1 1542.8 718.3 1255.6 0.0 23.6 0.0 0.0 0.0 389.9 0.0 0.0 0.0 0.0 113.8 166.3
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1998 7 75.5 2141.2 851.3 1815.4 0.0 52.1 0.0 0.0 0.0 471.2 0.0 0.0 0.0 0.0 187.6 188.9
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1998 8 45.8 1327.7 633.8 1021.6 0.0 28.2 0.0 0.0 0.0 319.0 0.0 0.0 0.0 0.0 103.8 112.1
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1998 9 38.3 917.4 455.9 736.4 0.0 20.0 0.0 0.0 0.0 216.6 0.0 0.0 0.0 0.0 70.9 86.0
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1999 5 24.0 670.0 320.5 493.3 0.0 9.9 0.0 0.0 0.0 161.5 0.0 0.0 0.0 0.0 45.8 54.8
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1999 6 37.9 1112.8 539.9 874.8 0.0 22.2 0.0 0.0 0.0 289.0 0.0 0.0 0.0 0.0 77.5 99.3
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1999 7 52.2 1159.1 549.3 1003.2 0.0 34.9 0.0 0.0 0.0 300.5 0.0 0.0 0.0 0.0 103.4 110.3
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1999 8 69.3 1962.0 903.9 1523.6 0.0 35.2 0.0 0.0 0.0 482.0 0.0 0.0 0.0 0.0 149.2 163.5
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1999 9 15.5 460.8 217.8 369.9 0.0 18.4 0.0 0.0 0.0 136.7 0.0 0.0 0.0 0.0 34.9 37.1
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1999 10 7.6 106.7 90.8 85.8 0.0 8.5 0.0 0.0 0.0 30.0 0.0 0.0 0.0 0.0 6.8 10.5 0.0
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1999 11 0.6 5.3 11.7 3.4 0.0 0.6 0.0 0.0 0.0 3.6 0.0 0.0 0.0 0.0 0.3 1.1 0.0
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1999 12 0.0 0.6 1.3 0.2 0.0 0.0 0.0 0.0 0.0 0.6 0.0 0.0 0.0 0.0 0.0 0.4 0.0
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2000 2 0.2 0.5 3.2 0.8 0.0 0.1 0.0 0.0 0.0 0.6 0.0 0.0 0.0 0.0 0.0 0.2 0.0 0.0
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2000 3 0.4 2.7 7.3 2.9 0.0 0.4 0.0 0.0 0.0 1.7 0.0 0.0 0.0 0.0 0.2 1.3 0.0 0.1
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2000 4 6.0 119.3 65.6 91.4 0.0 2.3 0.0 0.0 0.0 28.1 0.0 311.8 0.0 331.6 6.1 8.7 0.0
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2000 5 19.2 487.4 245.3 377.2 0.0 13.3 0.0 0.0 0.0 125.6 0.0 283.0 0.0 227.4 29.8 38.5
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2000 6 49.4 1029.2 392.1 773.4 0.0 27.6 0.0 0.0 0.0 265.5 0.0 80.1 0.0 92.9 70.2 91.2
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2000 7 60.0 1294.0 542.9 1110.2 0.0 24.3 0.0 0.0 0.0 282.2 0.0 0.0 0.0 0.0 106.4 120.9
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2000 8 63.5 1790.0 804.1 1431.2 0.0 39.1 0.0 0.0 0.0 456.2 0.0 0.0 0.0 0.0 137.2 143.8
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2000 9 35.1 741.6 388.9 603.0 0.0 15.8 0.0 0.0 0.0 196.4 0.0 0.0 0.0 0.0 55.5 61.1
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2000 10 127.3 85.3 334.2 63.8 0.0 63.9 0.0 0.0 0.0 19.9 0.0 0.0 0.0 0.0 28.1 22.5
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2001 5 521.7 468.3 739.5 339.3 0.0 207.6 0.0 0.0 0.0 106.4 0.0 201.3 0.0 132.3 51.2 58.0
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2001 6 1292.8 1609.5 1504.4 1236.5 0.0 2555.3 0.0 0.0 0.0 343.2 0.0 93.4 0.0 79.7 144.9
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2001 7 3065.1 2210.2 2197.3 1350.7 0.0 1715.2 0.0 0.0 0.0 371.7 0.0 149.3 0.0 101.0 179.7
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2001 8 3595.7 2019.8 1304.0 984.8 0.0 2072.1 0.0 0.0 0.0 265.5 0.0 64.5 0.0 32.6 136.8
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2001 9 2169.2 1128.1 1185.7 845.0 0.0 1165.1 0.0 0.0 0.0 233.7 0.0 129.7 0.0 65.7 124.5
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2024 5 1492.6 990.1 767.9 832.1 801.7 406.9 465.8 838.4 356.2 191.4 471.4 168.7 368.7 143.6 95.7
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2026 5 979.3 626.0 1628.7 389.2 790.1 533.6 510.1 631.5 268.9 129.3 748.9 221.4 334.2 129.9 75.9
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2029 6 2343.0 1815.5 1519.1 1247.4 1511.6 2262.4 902.1 893.5 364.2 341.3 563.9 118.4 354.5 91.0
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2030 5 804.2 921.7 1676.9 761.1 1765.7 484.9 1047.2 1007.5 499.9 220.8 833.6 220.5 431.3 160.2
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Standard deviation of computed monthly glacier runoff (in 10^6 m^3 per month) derived from results of 14 GCMs. Results refer to 56 macroscale drainage basins over the period 1980 to 2100 for RCP4.5.
Glacier runoff is defined as runoff from the initially glacierized area (i.e. including runoff from precipitation and snow melt in the growing unglacierized portions, see Methods).
Glacier runoff from each glacier basin (initially glacierized by 100%) is computed individually and then the runoff from all glaciers within the same macroscale drainage basin is summed up.
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Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year Month Glacier_runoff (mio. m^3 per month)
1980 1 0.0 0.2 0.6 0.1 0.0 0.0 0.0 0.0 0.0 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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1982 7 63.1 1348.4 642.3 1078.0 0.0 33.9 0.0 0.0 0.0 333.8 0.0 0.0 0.0 0.0 104.8 121.3
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1982 9 28.2 796.3 460.6 651.0 0.0 14.8 0.0 0.0 0.0 175.8 0.0 0.0 0.0 0.0 55.3 77.4
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1995 7 55.9 1786.9 665.4 1368.8 0.0 23.5 0.0 0.0 0.0 392.3 0.0 0.0 0.0 0.0 138.6 144.8
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1995 8 72.6 2145.3 897.0 1640.1 0.0 28.5 0.0 0.0 0.0 503.8 0.0 0.0 0.0 0.0 170.9 190.5
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1995 9 30.4 721.3 482.0 644.3 0.0 16.8 0.0 0.0 0.0 160.7 0.0 0.0 0.0 0.0 60.4 75.6
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1996 6 45.1 1076.5 551.4 898.5 0.0 20.6 0.0 0.0 0.0 244.2 0.0 0.0 0.0 0.0 77.0 103.2
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1996 7 47.5 1321.3 519.3 1061.4 0.0 32.7 0.0 0.0 0.0 280.6 0.0 0.0 0.0 0.0 91.1 104.0
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1996 8 103.1 2822.9 1273.1 2209.6 0.0 62.7 0.0 0.0 0.0 668.4 0.0 0.0 0.0 0.0 219.5 245.0
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1997 6 36.6 1046.3 462.9 812.5 0.0 19.1 0.0 0.0 0.0 254.5 0.0 0.0 0.0 0.0 83.1 91.4
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1997 7 49.9 1362.5 560.4 1048.2 0.0 20.8 0.0 0.0 0.0 300.8 0.0 0.0 0.0 0.0 94.3 118.5

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1997 8 45.0 1487.3 615.6 1063.2 0.0 26.6 0.0 0.0 0.0 319.5 0.0 0.0 0.0 0.0 105.9 109.2
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1997 9 34.8 778.0 410.6 566.6 0.0 20.3 0.0 0.0 0.0 201.3 0.0 0.0 0.0 0.0 57.9 68.1
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1998 6 58.9 1450.3 726.6 1296.3 0.0 26.9 0.0 0.0 0.0 376.3 0.0 0.0 0.0 0.0 107.8 147.5
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1998 7 78.7 1967.5 882.4 1761.0 0.0 35.2 0.0 0.0 0.0 486.3 0.0 0.0 0.0 0.0 181.1 187.7
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1998 8 76.2 2143.1 973.6 1658.4 0.0 35.4 0.0 0.0 0.0 557.5 0.0 0.0 0.0 0.0 156.2 179.6
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1998 9 39.5 845.9 419.4 703.5 0.0 17.4 0.0 0.0 0.0 207.5 0.0 0.0 0.0 0.0 66.0 93.6
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1999 4 4.5 98.1 55.0 65.7 0.0 2.3 0.0 0.0 0.0 26.8 0.0 0.0 0.0 0.0 4.9 6.8 0.0
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1999 5 27.6 669.2 301.4 508.2 0.0 10.3 0.0 0.0 0.0 175.8 0.0 0.0 0.0 0.0 48.0 55.7
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1999 6 50.3 1101.4 557.0 938.7 0.0 21.0 0.0 0.0 0.0 287.6 0.0 0.0 0.0 0.0 85.3 116.0
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1999 7 50.5 1299.5 617.3 1061.8 0.0 30.1 0.0 0.0 0.0 299.5 0.0 0.0 0.0 0.0 106.8 116.5
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1999 8 69.9 1856.2 827.1 1418.9 0.0 31.6 0.0 0.0 0.0 462.4 0.0 0.0 0.0 0.0 140.4 154.1
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1999 9 27.0 441.6 210.3 375.9 0.0 15.5 0.0 0.0 0.0 130.4 0.0 0.0 0.0 0.0 34.9 46.4
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2000 5 23.7 501.3 240.3 380.8 0.0 11.1 0.0 0.0 0.0 124.5 0.0 264.4 0.0 221.7 37.2 44.9
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2000 6 46.2 1067.1 436.0 858.6 0.0 29.0 0.0 0.0 0.0 296.0 0.0 71.4 0.0 92.4 88.2 106.8
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2000 7 49.6 1523.2 644.0 1256.0 0.0 31.4 0.0 0.0 0.0 339.4 0.0 0.0 0.0 0.0 132.8 126.2
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2000 8 57.9 1643.6 718.6 1313.3 0.0 26.7 0.0 0.0 0.0 403.9 0.0 0.0 0.0 0.0 137.1 141.8
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2000 9 37.9 753.4 367.6 610.9 0.0 14.8 0.0 0.0 0.0 190.9 0.0 0.0 0.0 0.0 59.9 73.9
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2000 10 127.5 80.8 576.2 61.7 0.0 89.8 0.0 0.0 0.0 21.0 0.0 0.0 0.0 0.0 25.1 28.0
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2001 3 7.6 10.6 31.6 7.3 0.0 1.6 0.0 0.0 0.0 2.2 0.0 482.7 0.0 330.1 1.1 1.3 0.0
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2001 4 50.6 117.9 108.2 83.7 0.0 28.4 0.0 0.0 0.0 31.9 0.0 224.1 0.0 179.7 6.6 8.8
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2001 5 477.2 459.2 738.0 365.6 0.0 226.9 0.0 0.0 0.0 109.2 0.0 178.2 0.0 130.7 50.1 53.0
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2001 6 1364.1 1549.8 1473.0 1165.3 0.0 2380.9 0.0 0.0 0.0 357.9 0.0 92.5 0.0 82.4 136.9
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2001 7 3186.4 2207.0 2201.9 1403.2 0.0 1638.3 0.0 0.0 0.0 412.0 0.0 155.3 0.0 93.0 184.2
240.1 0.0 187.1 0.0 0.0 0.7 0.0 0.0 204.4 167.3 0.0 0.0 0.0 66.2 100.5 51.5 0.0 0.0
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2001 8 3585.4 2080.1 1292.0 1050.5 0.0 2210.1 0.0 0.0 0.0 305.5 0.0 69.1 0.0 41.2 137.9
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2001 9 2010.1 1081.7 1401.7 866.0 0.0 1073.3 0.0 0.0 0.0 277.7 0.0 121.0 0.0 61.5 103.6
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2001 10 155.4 97.4 622.4 74.5 0.0 114.3 0.0 0.0 0.0 29.5 0.0 225.8 0.0 189.8 42.0 47.5
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2001 11 1.3 7.5 26.7 4.7 0.0 2.0 0.0 0.0 0.0 2.1 0.0 311.3 0.0 299.6 0.9 1.0 0.0
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2002 5 276.3 383.6 772.8 339.6 0.0 190.8 0.0 0.0 0.0 100.8 0.0 281.5 0.0 168.9 54.4 72.2
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2002 6 1294.3 1002.5 1100.2 949.8 0.0 1822.8 0.0 0.0 0.0 260.3 0.0 71.0 0.0 60.9 135.6
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2002 7 2449.1 1424.9 1915.0 1169.6 0.0 2702.1 0.0 0.0 0.0 262.4 0.0 126.5 0.0 75.8 131.8
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2002 8 3707.0 2487.5 1221.1 1763.8 0.0 2239.1 0.0 0.0 0.0 442.1 0.0 65.1 0.0 37.7 162.4
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2002 9 1461.6 968.9 1464.4 812.0 0.0 1023.9 0.0 0.0 0.0 205.4 0.0 107.3 0.0 64.5 121.1
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2029 1 0.1 0.4 1.6 0.2 56.2 0.2 2.4 78.2 0.5 0.6 51.1 424.6 0.7 222.4 0.2 0.1 0.0
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2029 4 146.2 270.5 282.2 208.6 257.9 118.3 53.7 310.2 67.9 68.9 125.2 438.7 96.1 293.4 29.7
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2029 5 865.1 528.1 1308.6 431.1 866.0 598.7 496.1 776.6 307.4 116.9 554.6 255.7 286.6 161.2
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2029 6 2256.6 1626.1 2993.5 1154.3 1249.7 3153.4 864.1 724.8 298.2 318.3 526.7 120.1 290.9 95.6
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2029 7 3378.2 2472.1 1823.0 1688.5 2167.8 2370.6 1491.1 684.6 394.0 463.5 387.8 147.2 261.5 83.0
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2029 8 2883.4 2715.0 1714.2 1411.5 2153.4 1979.4 1380.8 893.4 536.2 405.2 721.7 77.9 360.1 72.8
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2029 9 1706.5 1646.3 1550.2 1138.3 1400.7 815.8 654.3 921.3 651.9 320.3 524.4 129.6 367.4 67.4
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2029 10 235.7 220.1 808.2 184.6 967.3 177.0 233.1 924.8 238.9 49.6 474.0 200.8 289.5 213.3 31.7
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2030 5 854.2 1017.1 1052.6 805.5 640.1 661.3 297.4 580.0 224.5 246.4 413.7 211.6 297.8 153.6
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2030 6 2053.1 1584.9 4188.1 992.7 1533.5 4927.1 1010.2 946.6 334.3 307.1 619.0 148.5 277.6 101.7
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2030 7 3380.0 2232.2 892.1 1435.9 2142.8 7404.4 1680.2 663.7 483.4 374.2 377.1 87.0 213.6 43.1
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2030 8 3371.6 2245.9 1046.8 1348.0 1640.9 1973.5 1280.3 983.0 570.2 333.8 553.6 85.3 291.1 50.4
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2030 9 1658.1 1859.9 910.8 1601.8 1263.7 1501.8 548.0 774.9 526.2 451.6 518.4 152.2 411.3 96.0
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2030 10 419.1 331.7 456.7 268.2 509.6 159.2 102.5 612.8 41.6 75.4 271.6 178.7 246.6 102.6 37.0
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2031 5 1357.8 1084.9 2124.9 831.2 1077.7 782.6 581.7 911.2 387.7 240.5 690.9 187.3 293.9 113.8
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2031 6 2773.1 2174.1 1565.1 1562.6 1460.5 2311.9 1090.2 1029.0 461.0 378.2 578.2 85.3 253.8 69.1
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2031 7 3752.6 2716.7 2467.3 1796.7 1284.6 2576.9 858.7 697.3 329.8 440.7 393.5 143.2 239.3 87.5
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2099 5 1940.7 1418.8 2066.8 984.3 1538.7 898.5 1021.5 1273.3 636.1 281.1 711.0 367.9 419.1 221.1
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39.1 67.2 78.7 47.8 24.4 46.9 47.1 19.6 29.0 39.0 0.8 0.0 16.3 26.3 0.0 15.7 2.0 19.1
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149.7 192.1 179.9 155.7 48.0 191.5 3.8 58.7 154.6 182.5 233.1 138.3 104.8 95.5 45.9 128.8
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68.5 104.7 58.9 0.0 136.0 0.0 41.4 165.7 182.4 195.3 51.5 33.8 105.5 28.2 80.7 13.6 12.6
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361.2 374.9 401.9 214.2 0.0 378.4 0.0 400.5 405.4 169.5 188.7 196.7 91.0 269.5 58.3 117.0
75.0 58.3 78.5 40.7 19.4 42.9 45.4 37.2 17.4 41.6 0.0 0.0 17.8 26.9 0.0 15.1 0.0 28.2
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407.6 466.7 166.0 109.5 0.0 189.5 0.0 505.0 299.6 147.3 200.7 143.5 123.9 321.0 56.6 97.9
56.7 52.0 37.6 42.7 43.9 43.5 41.5 26.3 22.3 42.7 0.0 0.0 22.4 31.5 0.0 14.4 0.0 22.0
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2100 7 5036.2 1258.0 5711.6 1268.2 1357.1 6651.7 1837.3 771.0 335.8 428.1 874.2 213.2 501.9 95.6
392.4 588.5 431.8 207.4 26.1 143.6 1.5 304.0 310.9 150.7 228.8 155.1 151.9 254.0 87.4 53.0
87.8 79.5 53.1 69.3 39.8 50.1 63.6 27.6 28.7 66.4 0.7 4.6 40.2 39.1 2.3 17.8 1.0 31.3
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298.4 396.6 178.5 134.7 48.0 155.9 3.5 156.0 272.0 166.5 195.6 129.1 116.4 89.0 59.5 130.9
65.5 41.8 33.6 27.6 23.8 41.5 51.5 23.4 17.6 32.3 1.4 7.3 30.7 40.7 5.1 11.9 2.1 16.6
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2100 9 1660.6 651.2 2688.9 465.2 1587.6 2077.2 866.3 946.1 622.1 167.1 736.1 157.2 169.3 87.4
225.6 266.8 82.8 56.4 75.3 257.9 4.2 91.7 304.2 192.7 235.8 127.0 75.3 122.2 10.8 107.1 44.3
28.0 16.1 21.4 10.6 33.1 29.6 15.5 4.2 36.4 2.9 12.8 16.5 16.5 7.1 8.5 1.7 16.7 1.3
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2100 12 3.1 28.7 31.7 26.0 121.7 1.2 2.1 35.3 2.1 4.2 11.2 441.3 0.0 258.3 0.9 3.0
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Standard deviation of computed monthly glacier runoff (in 10^6 m^3 per month) derived from results of 14 GCMs. Results refer to 56 macroscale drainage basins over the period 1980 to 2100 for RCP8.5.
Glacier runoff is defined as runoff from the initially glacierized area (i.e. including runoff from precipitation and snow melt in the growing unglacierized portions, see Methods).
Glacier runoff from each glacier basin (initially glacierized by 100%) is computed individually and then the runoff from all glaciers within the same macroscale drainage basin is summed up.
#
Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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; INDUS TARIM BRAHMAPUTRA ARALSEA COPPER GANGES YUKON ALSEK SUSITNA BALKHASH STIKINE SANTACRUZ FRASER BAKER YANGTZE SALWEEN COLUMBIA ISSYK-KUL AMAZON TAKU COLORADO MACKENZIE NASS THJORSA JOEKULSAAF. KUSKOKWIM RHONE SKEENA OB OELFUSA MEKONG DANUBE NELSON PO KAMCHATKA RHINE GLOMA HUANGHE INDIGIRKA LULE RAPEL SANTA SKAGIT KUBAN TITICACA NUSHAGAK BIOBIO IRRAWADDY NEGRO CLUTHA MAJES DAULE/VINCES KALIXAELVEN MAGDALENA DRAMSELV COLVILLE
Catchment-IDs 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Year Month Glacier_runoff (mio. m^3 per month)
1980 1 0.0 0.1 0.8 0.2 0.0 0.0 0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.5 0.0 0.0 0.0 0.0 0.0 0.0
1980 2 0.1 0.3 1.6 0.3 0.0 0.0 0.0 0.0 0.0 0.9 0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.7 0.0 0.0 0.0 0.0 0.0 0.0
1980 3 0.5 4.1 6.4 3.0 0.0 0.2 0.0 0.0 0.0 2.7 0.0 0.0 0.0 0.0 0.6 0.3 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0
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1989 7 62.9 1725.9 840.5 1335.0 0.0 35.2 0.0 0.0 0.0 414.5 0.0 0.0 0.0 0.0 138.2 163.8
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1989 9 24.3 565.9 381.3 483.5 0.0 16.1 0.0 0.0 0.0 174.6 0.0 0.0 0.0 0.0 48.0 64.1
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1990 5 25.0 490.4 228.5 393.9 0.0 11.1 0.0 0.0 0.0 123.8 0.0 0.0 0.0 0.0 39.3 45.3
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1990 6 40.1 985.1 529.2 882.3 0.0 26.5 0.0 0.0 0.0 305.2 0.0 0.0 0.0 0.0 89.7 103.9
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1990 7 57.0 1182.3 476.5 907.7 0.0 26.9 0.0 0.0 0.0 283.0 0.0 0.0 0.0 0.0 96.8 106.2
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1990 8 67.9 1647.9 693.1 1307.3 0.0 31.6 0.0 0.0 0.0 420.5 0.0 0.0 0.0 0.0 134.0 131.9
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1990 9 25.6 551.8 332.4 485.0 0.0 21.3 0.0 0.0 0.0 177.5 0.0 0.0 0.0 0.0 46.1 60.4
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1991 7 37.0 1263.4 539.3 1023.5 0.0 34.5 0.0 0.0 0.0 341.5 0.0 0.0 0.0 0.0 108.1 112.2
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2000 5 19.1 464.0 240.2 360.6 0.0 13.0 0.0 0.0 0.0 123.5 0.0 279.5 0.0 211.0 34.4 44.3
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2000 6 46.1 988.3 445.2 802.1 0.0 29.9 0.0 0.0 0.0 292.1 0.0 74.4 0.0 93.9 91.9 86.1
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2000 7 54.7 1497.6 697.7 1278.8 0.0 28.9 0.0 0.0 0.0 348.3 0.0 0.0 0.0 0.0 141.3 129.5
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2000 8 59.7 1612.3 781.9 1274.5 0.0 37.8 0.0 0.0 0.0 401.5 0.0 0.0 0.0 0.0 122.0 138.5
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2000 9 37.9 718.9 344.6 568.9 0.0 19.7 0.0 0.0 0.0 183.2 0.0 0.0 0.0 0.0 65.5 67.6
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2001 5 496.4 504.6 733.0 379.0 0.0 250.1 0.0 0.0 0.0 106.3 0.0 203.5 0.0 144.0 51.6 53.0
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2001 6 1491.3 1586.6 1523.3 1204.3 0.0 2471.7 0.0 0.0 0.0 340.2 0.0 89.7 0.0 82.1 142.3
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2001 7 3054.4 2171.3 2115.8 1379.5 0.0 1771.8 0.0 0.0 0.0 391.6 0.0 152.7 0.0 92.8 183.2
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2001 9 2046.3 1093.4 1410.2 862.8 0.0 1119.9 0.0 0.0 0.0 228.1 0.0 114.1 0.0 58.6 114.2
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2002 5 285.6 434.3 880.4 385.8 0.0 206.7 0.0 0.0 0.0 122.2 0.0 286.0 0.0 172.0 62.5 74.3
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2002 6 1352.5 1042.1 1081.5 971.1 0.0 1902.5 0.0 0.0 0.0 265.5 0.0 72.3 0.0 60.2 136.6
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2002 7 2459.7 1501.6 1881.3 1215.6 0.0 2653.6 0.0 0.0 0.0 276.5 0.0 146.8 0.0 80.3 131.9
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2002 8 3758.6 2445.4 1239.3 1722.7 0.0 2291.8 0.0 0.0 0.0 456.5 0.0 61.8 0.0 35.4 143.8
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2002 9 1429.4 939.9 1468.2 802.2 0.0 1031.6 0.0 0.0 0.0 220.6 0.0 97.1 0.0 59.6 124.5
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2003 5 534.9 432.8 725.0 320.3 0.0 373.5 0.0 0.0 0.0 91.8 0.0 226.5 0.0 122.9 45.5 53.1
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2003 6 1843.4 808.9 1938.3 728.9 0.0 2164.3 0.0 0.0 0.0 213.8 0.0 108.6 0.0 86.7 161.9
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2003 9 1077.9 901.0 872.4 690.6 0.0 1056.6 0.0 0.0 0.0 216.5 0.0 90.6 0.0 57.8 94.5 70.9
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24.3 74.1 58.6 63.6 26.6 48.5 51.9 21.8 11.2 37.4 1.9 11.3 20.2 27.4 6.5 21.4 1.5 6.7
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2030 5 1239.1 1202.4 1639.4 947.6 1409.8 1022.9 851.8 885.5 491.8 276.7 622.5 311.2 363.5 195.7
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0.0 6.4 209.0 80.9 146.9 0.1 114.9 162.7 190.9 0.4 6.7 1.0 3.3 67.0 1.9 0.4 0.0 1.5
1.8 2.7 1.4 1.3 2.0 12.6 25.4 35.8 0.0 2.7 7.6 0.2 14.9 0.6 7.2 9.4 1.5 2.7 0.3
6.0 0.7 0.0
2099 12 21.0 12.7 25.4 12.4 210.2 9.7 29.1 266.3 7.6 3.4 82.6 423.4 0.7 187.0 0.7 1.3
0.3 0.5 160.2 25.9 279.7 0.0 29.5 95.2 110.7 2.4 4.4 1.2 1.5 29.5 0.3 0.5 0.0 1.0
0.4 1.6 0.9 0.1 0.5 7.6 55.8 30.4 0.5 0.2 8.6 0.7 19.6 0.0 12.0 11.3 2.2 5.6 0.2
3.8 0.1 0.0
2100 1 9.6 17.9 61.8 16.7 442.2 9.5 69.5 396.2 14.9 6.2 232.3 376.7 50.0 186.2 1.5 2.2
10.9 0.9 239.4 63.1 198.5 1.5 70.4 169.0 182.7 7.5 6.4 42.8 1.9 61.4 0.6 0.3 0.2 1.5
0.5 2.7 2.0 0.3 0.6 1.9 19.6 35.4 20.2 0.0 14.9 2.4 8.1 1.1 2.9 7.2 3.0 4.2 0.1
3.3 0.4 0.0

2100 2 30.0 41.9 228.9 47.1 429.4 10.8 48.4 779.4 25.0 18.7 187.1 441.6 114.2 180.2 6.3
5.9 45.2 2.9 152.0 65.7 134.3 1.6 58.2 86.5 84.4 9.9 15.6 18.1 3.3 30.8 2.9 1.9 2.1
3.4 1.2 6.6 2.3 0.4 1.2 20.3 12.6 36.7 29.9 0.1 10.9 2.5 2.7 5.3 3.6 6.2 2.0 6.1
1.8 2.7 0.6 0.0
2100 3 403.2 376.3 1176.8 352.4 514.5 113.2 61.8 554.0 117.6 114.1 439.4 499.4 376.8 158.5 36.5
96.9 211.3 39.0 114.9 124.4 92.0 18.6 155.0 85.1 74.5 28.5 22.6 108.3 6.2 43.0 12.3 7.2
23.2 5.6 2.0 9.8 5.8 6.2 1.5 18.1 11.2 28.6 28.7 2.4 8.1 5.3 2.1 12.3 2.8 5.9 1.8
6.8 0.9 2.6 0.8 0.0
2100 4 1948.4 1448.1 2167.6 1050.5 1204.0 721.8 678.9 1078.9 556.4 327.8 733.5 0.0 368.6 0.0
167.9 234.6 303.5 145.0 0.0 307.8 0.0 150.4 289.9 135.4 102.3 176.9 50.9 177.0 96.9 78.3 44.2
29.5 48.6 21.7 20.7 24.1 35.3 20.4 32.3 28.2 0.0 0.0 18.3 21.0 0.0 15.8 0.0 21.0 0.0
0.0 0.0 0.0 3.6 0.0 4.9 0.8
2100 5 3871.9 2859.5 4284.0 2149.1 1944.3 2841.5 1691.7 1137.5 688.6 640.7 1121.3 0.0 461.1 0.0
404.1 469.6 429.5 295.8 0.0 272.5 0.0 457.7 344.3 85.1 120.8 206.7 121.9 278.0 75.1 89.0 83.2
67.0 71.9 53.3 47.7 44.4 55.6 46.0 27.3 43.0 0.0 0.0 31.6 24.7 0.0 15.7 0.0 20.3 0.0
0.0 0.0 0.0 7.3 0.0 7.6 6.0
2100 6 5502.4 2052.4 5390.1 1638.9 2043.1 4960.5 1985.2 761.7 436.3 482.9 966.4 0.0 627.7 0.0
455.0 483.8 448.6 218.4 0.0 178.6 0.0 516.0 337.1 126.2 213.8 191.1 178.5 283.3 101.2 98.2
77.8 94.6 71.0 75.7 39.1 65.1 45.4 37.1 36.5 63.9 0.0 0.0 44.0 35.0 0.0 17.8 0.0 26.0
0.0 0.0 0.0 0.0 8.6 0.0 4.8 5.5
2100 7 5155.0 2932.2 5342.9 2387.5 2035.2 5991.0 2490.8 918.1 771.4 730.0 922.8 357.7 644.5 221.1
385.6 507.6 368.0 319.9 53.8 238.2 5.3 240.2 326.9 179.4 328.8 211.6 171.6 118.6 107.9 82.9
98.8 74.3 47.3 64.9 38.6 66.4 99.5 50.1 34.9 57.5 1.7 3.9 55.5 44.0 8.9 21.3 1.6 30.4
1.9 4.6 0.2 2.2 12.5 1.5 12.3 3.2
2100 8 4710.7 2775.6 4872.8 1600.5 2833.0 4977.7 2495.6 866.1 650.4 435.2 573.7 249.0 208.2 142.3
310.2 410.7 111.7 156.7 66.9 190.1 12.9 150.4 266.3 247.5 323.4 105.2 150.3 59.8 57.5 121.8
68.4 40.3 24.2 37.0 27.5 50.9 35.6 26.1 18.4 16.6 5.8 5.4 13.4 40.4 9.3 7.5 6.8 31.9
2.9 6.9 1.1 2.9 2.5 1.4 6.3 2.9
2100 9 2676.6 996.4 2875.1 678.0 1549.2 4212.1 1248.3 913.0 806.9 179.0 710.9 413.6 170.2 239.5
208.7 205.1 87.9 67.2 160.6 268.6 38.7 115.4 299.0 163.0 249.7 129.9 82.3 139.4 21.3 80.9
41.6 23.8 19.4 23.6 22.6 21.7 16.1 13.5 9.0 22.9 10.8 17.5 13.2 13.0 14.5 8.1 3.8 27.9
2.7 6.8 1.2 4.1 3.1 1.3 2.3 2.6
2100 10 505.0 393.1 1547.2 289.0 1816.9 478.9 582.2 1843.2 240.4 91.8 921.4 493.0 112.0 351.9
108.1 133.1 26.6 20.0 126.6 462.5 51.5 3.9 388.1 197.2 252.4 29.3 103.4 33.6 9.3 84.0 24.4
30.4 2.2 37.6 6.7 42.4 29.1 4.5 3.5 31.2 12.7 17.2 13.0 12.9 9.3 3.8 8.9 15.1 6.1
6.7 1.4 3.9 3.2 4.1 4.8 0.0
2100 11 73.4 66.1 171.0 55.7 453.0 8.4 37.2 507.1 3.9 20.0 236.0 430.0 0.0 187.2 5.0 7.3
0.0 6.4 209.0 80.9 146.9 0.1 114.9 162.7 190.9 0.4 6.7 1.0 3.3 67.0 1.9 0.4 0.0 1.5
1.8 2.7 1.4 1.3 2.0 12.6 25.4 35.8 0.0 2.7 7.6 0.2 14.9 0.6 7.2 9.4 1.5 2.7 0.3
6.0 0.7 0.0
2100 12 21.0 12.7 25.4 12.4 210.2 9.7 29.1 266.3 7.6 3.4 82.6 423.4 0.7 187.0 0.7 1.3
0.3 0.5 160.2 25.9 279.7 0.0 29.5 95.2 110.7 2.4 4.4 1.2 1.5 29.5 0.3 0.5 0.0 1.0
0.4 1.6 0.9 0.1 0.5 7.6 55.8 30.4 0.5 0.2 8.6 0.7 19.6 0.0 12.0 11.3 2.2 5.6 0.2
3.8 0.1 0.0

Computed year of peak water (PW), runoff increase until peak water (dQ_PW), and glacier runoff change (dQ) between the periods 1990-2010 and 2080-2100 for 0.5x0.5 degree grid cells for RCP2.6.
Results refer to the sum of all glaciers within 0.5x0.5 degree grid cells and are based on the multi-model mean of 12 GCMs.
Glacier runoff is defined as runoff from the initially glacierized area (i.e. including runoff from precipitation and snow melt in the growing deglacierized portions).
Glacier runoff changes are given for the months June to October (northern hemisphere), and December to April (southern hemisphere).
For some months, no evaluation of glacier runoff change was possible (runoff in first period equal to zero). Marked with -9999.
See Methods for additional details. The data refer to those displayed in Figure 2, Suppl. Figure 1, Suppl. Figure 5 and Suppl. Figure 6.
#
Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
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CenLon. (deg)	CenLat. (deg)	Area (km2)	PW (year)	dQ_PW (%)	dQ_June (%)	dQ_July (%)	dQ_August (%)	dQ_September (%)	dQ_October (%)
-179.25	71.25	0.7	1995	5.6	32.2	-3.9	-30.8	-56.3	-93.4
-178.75	71.25	0.2	1996	5.2	25.8	-4.7	-26.8	-46.9	-91.8
-178.25	71.25	0.1	1998	6.6	31.3	-6.4	-29.3	-51.7	-78.7
-175.75	52.75	4.9	2018	22.6	377.3	85.5	-1.9	-55.8	-36.6
-173.75	52.75	13.4	2024	26.0	237.4	38.9	-6.7	-51.8	-48.7
-168.25	53.75	44.0	2020	24.1	81.5	9.9	-27.3	-53.6	-46.2
-166.75	53.75	57.6	2020	22.1	162.2	31.1	-19.0	-56.0	-46.1
-166.25	53.75	1.4	2022	26.7	178.9	17.4	-12.2	-57.5	-41.8
-164.25	54.75	112.7	2029	29.8	140.5	16.0	-19.5	-38.3	-0.3
-163.75	54.75	120.6	2024	33.5	140.2	29.0	-19.0	-49.5	-29.1
-162.75	55.25	10.2	2023	27.8	174.5	27.6	-10.3	-51.4	-33.6
-162.25	55.25	6.2	2022	25.5	163.9	24.6	-8.0	-46.5	-25.9
-162.25	55.75	13.2	2024	28.4	137.6	17.0	-8.5	-44.6	-17.1
-161.75	55.25	61.8	2027	35.7	157.9	32.0	-12.6	-43.2	-5.3
-161.25	55.75	0.1	2013	15.8	122.8	11.9	-7.0	-41.2	-32.1
-160.25	55.75	73.5	2029	26.3	117.8	15.6	-7.6	-40.9	-12.4
-159.75	55.75	3.9	2024	25.8	150.7	36.4	-12.3	-49.0	-42.5
-159.75	56.25	169.9	2031	36.1	113.4	24.4	-11.1	-25.6	-6.2
-159.75	59.75	3.3	2026	25.0	53.3	5.3	-12.9	-49.8	-76.7
-159.25	56.25	132.4	2033	34.9	87.7	17.6	-12.6	-22.8	-3.1
-159.25	59.75	11.2	2027	24.7	46.5	5.2	-11.3	-47.5	-70.8
-159.25	60.25	22.4	2028	28.7	67.4	6.3	-15.9	-46.6	-56.1
-158.75	56.25	6.5	2025	28.3	80.9	5.0	-3.9	-31.9	-20.7
-158.75	56.75	5.4	2027	26.2	78.4	8.3	-4.1	-39.8	-23.5
-158.25	56.75	4.6	2030	28.3	69.7	7.6	-8.3	-43.0	-30.6
-157.75	56.75	0.1	2012	13.5	38.0	2.8	-6.3	-40.6	-40.1
-157.75	57.25	12.3	2028	27.2	76.6	13.7	-13.0	-44.2	-28.9
-157.25	56.75	1.9	2026	26.2	64.3	6.6	-4.2	-41.4	-40.0
-156.75	57.25	111.1	2031	30.0	61.3	2.7	-13.9	-35.6	-5.2
-155.75	58.25	4.6	2028	25.9	40.6	3.2	-10.4	-38.6	-19.9
-155.75	67.25	0.7	2028	36.9	714.2	15.2	-42.2	-60.2	-92.4
-155.75	67.75	1.4	2029	73.2	640.8	57.1	-42.9	-42.9	-99.3
-155.25	58.25	66.5	2029	37.1	90.0	17.0	-13.1	-39.0	-19.8
-155.25	58.75	47.6	2030	34.0	69.7	12.2	-11.9	-33.8	-14.6
-155.25	67.75	6.3	2034	38.1	733.9	12.7	-35.5	-45.1	170.4

-155.25 68.25 0.2 ; 2027 48.3 ; 804.3 32.9 -40.4 -48.7 -56.8
-154.75 58.25 211.5 ; 2042 35.8 ; 54.2 7.5 -13.7 -24.5 6.6
-154.75 58.75 219.5 ; 2038 33.5 ; 41.5 3.6 -15.8 -26.9 -4.2
-154.75 59.25 6.3 ; 2023 27.0 ; 72.1 7.3 -2.4 -36.7 -53.9
-154.75 67.25 0.9 ; 2027 32.8 ; 810.3 10.4 -43.8 -62.9 -32.3
-154.75 67.75 1.8 ; 2026 35.2 ; 712.8 15.9 -43.2 -59.3 -71.7
-154.75 68.25 4.4 ; 2027 48.7 ; 660.8 30.4 -46.4 -55.4 -55.3
-154.25 58.25 29.6 ; 2028 28.9 ; 62.3 6.8 -9.5 -35.6 -22.7
-154.25 58.75 0.7 ; 2029 28.6 ; 57.0 6.7 -2.5 -33.3 -29.4
-154.25 60.25 1.5 ; 2025 22.5 ; 39.4 7.1 -7.3 -39.8 -56.3
-154.25 61.25 36.9 ; 2027 39.2 ; 172.4 13.3 -23.0 -51.8 -39.4
-154.25 61.75 91.5 ; 2031 39.2 ; 112.7 10.4 -24.4 -39.5 34.8
-154.25 62.25 18.9 ; 2026 40.7 ; 158.6 8.4 -29.6 -50.5 -53.7
-154.25 67.25 3.2 ; 2029 35.0 ; 575.6 10.9 -41.0 -52.3 -9999.0
-154.25 67.75 1.2 ; 2021 28.5 ; 668.7 10.8 -45.2 -63.7 -75.8
-154.25 68.25 0.6 ; 2025 55.1 ; 720.4 42.9 -50.4 -58.8 -82.6
-153.75 58.75 329.2 ; 2033 36.6 ; 40.1 -3.5 -23.5 -34.0 -8.8
-153.75 59.75 14.9 ; 2023 21.4 ; 45.3 8.0 -7.9 -38.9 -48.4
-153.75 60.25 378.3 ; 2029 31.2 ; 87.4 12.0 -15.7 -41.1 -16.2
-153.75 60.75 162.6 ; 2031 40.1 ; 101.4 14.3 -16.8 -39.5 -4.0
-153.75 61.75 416.2 ; 2031 43.9 ; 155.9 13.9 -24.9 -37.7 11.6
-153.75 62.25 3.2 ; 2022 43.1 ; 199.6 17.7 -37.1 -62.0 -80.2
-153.75 67.25 1.0 ; 2022 30.3 ; 660.1 12.1 -45.0 -60.4 -9999.0
-153.75 68.25 1.6 ; 2034 51.9 ; 636.4 27.1 -39.3 -42.5 -44.2
-153.25 57.25 24.5 ; 2026 26.5 ; 62.9 6.8 -8.2 -40.0 -19.0
-153.25 57.75 4.1 ; 2021 27.0 ; 74.1 8.9 -4.4 -42.3 -33.6
-153.25 59.75 24.8 ; 2026 28.6 ; 72.0 10.1 -18.4 -37.8 -18.9
-153.25 60.25 403.3 ; 2040 31.5 ; 52.2 6.6 -14.8 -29.7 6.1
-153.25 61.25 408.6 ; 2033 39.8 ; 89.0 11.5 -17.6 -33.6 3.5
-153.25 61.75 128.5 ; 2027 44.8 ; 206.7 19.2 -26.7 -56.0 -44.7
-153.25 62.25 5.8 ; 2027 45.9 ; 256.6 16.8 -33.4 -51.4 -49.3
-153.25 62.75 1.3 ; 2031 49.1 ; 178.3 12.8 -27.2 -44.1 -18.7
-153.25 68.75 0.3 ; 2030 49.8 ; 527.5 33.7 -51.4 -59.5 -87.2
-152.75 57.75 0.8 ; 2017 22.8 ; 42.1 4.8 -6.6 -41.9 -34.5
-152.75 60.75 895.1 ; 2040 38.6 ; 59.0 7.7 -12.0 -23.1 18.1
-152.75 61.25 615.5 ; 2045 42.9 ; 77.7 12.3 -13.7 -16.8 32.5
-152.75 62.25 192.5 ; 2034 44.8 ; 118.8 13.0 -18.5 -30.3 83.8
-152.75 62.75 189.4 ; 2034 45.1 ; 123.1 12.3 -18.4 -24.6 67.9
-152.75 68.25 1.7 ; 2029 49.4 ; 842.9 34.0 -48.2 -57.6 -65.6
-152.25 60.75 111.9 ; 2041 33.7 ; 40.5 7.4 -9.1 -25.7 10.9
-152.25 61.25 264.8 ; 2041 38.2 ; 55.9 7.8 -15.0 -24.8 25.7
-152.25 61.75 597.7 ; 2072 41.6 ; 35.0 5.8 -7.0 -9.0 36.1
-152.25 62.25 543.9 ; 2042 42.8 ; 64.1 7.7 -12.2 -16.3 65.8
-152.25 62.75 180.4 ; 2041 46.2 ; 76.8 9.3 -14.0 -16.0 68.9
-152.25 68.25 0.8 ; 2029 34.9 ; 842.9 17.5 -49.5 -59.4 -9999.0
-151.75 61.75 0.3 ; 2035 28.6 ; 53.1 5.9 -7.3 -26.8 -44.4
-151.75 62.25 19.5 ; 2041 41.1 ; 88.2 9.7 -7.9 -28.1 -5.7
-151.75 62.75 622.5 ; 2060 41.8 ; 44.4 8.7 -9.7 -8.8 53.1
-151.75 63.25 6.9 ; 2030 50.4 ; 263.5 19.0 -32.2 -43.1 151.0
-151.75 68.25 1.6 ; 2027 36.0 ; 842.9 15.5 -48.0 -55.6 -9999.0
-151.25 59.75 72.9 ; 2044 37.8 ; 51.0 6.1 -13.7 -24.2 20.3
-151.25 62.75 642.4 ; 2061 41.8 ; 39.2 12.3 -7.1 -7.0 65.1
-151.25 63.25 336.6 ; 2033 47.0 ; 70.6 8.8 -15.1 -17.5 66.5
-151.25 68.25 7.2 ; 2027 38.5 ; 671.0 22.3 -43.6 -51.4 -57.4

-150.75 59.75 1241.8 ; 2058 37.9 ; 53.7 5.5 -11.6 -13.8 34.8
-150.75 60.25 30.4 ; 2034 38.4 ; 130.1 16.6 -13.8 -38.7 18.2
-150.75 62.75 570.2 ; 2051 37.8 ; 22.4 11.0 -8.7 -10.3 79.1
-150.75 63.75 357.5 ; 2043 49.8 ; 41.6 9.5 -7.5 -8.8 67.7
-150.75 67.75 0.3 ; 2022 31.2 ; 842.9 15.5 -45.9 -57.6 -9999.0
-150.75 68.25 0.5 ; 2020 28.2 ; 842.9 16.5 -48.1 -63.3 -9999.0
-150.75 68.75 0.3 ; 2026 57.4 ; 733.8 62.8 -52.1 -58.1 -87.7
-150.25 59.75 98.8 ; 2046 24.2 ; 15.7 1.0 -14.1 -20.1 4.0
-150.25 60.25 651.3 ; 2067 39.6 ; 49.7 8.4 -8.1 -8.3 45.7
-150.25 62.75 61.5 ; 2034 38.1 ; 61.3 7.9 -16.7 -21.2 45.0
-150.25 63.25 38.5 ; 2032 44.0 ; 108.6 10.3 -19.6 -24.2 28.0
-150.25 63.75 501.7 ; 2050 43.7 ; 40.4 11.1 -7.7 -9.5 84.6
-150.25 68.25 11.2 ; 2029 41.3 ; 639.7 22.9 -43.1 -48.5 -3.9
-149.75 59.75 229.2 ; 2065 26.7 ; 22.4 2.1 -11.0 -13.3 16.3
-149.75 60.25 162.2 ; 2042 36.5 ; 61.0 12.8 -11.2 -27.2 31.2
-149.75 60.75 0.3 ; 2040 26.2 ; 41.3 9.5 -5.8 -23.9 -9.8
-149.75 63.25 28.6 ; 2030 42.2 ; 122.8 9.6 -26.3 -36.4 -6.4
-149.75 63.75 32.9 ; 2029 40.8 ; 129.3 10.7 -26.6 -36.8 -7.0
-149.75 67.75 0.8 ; 2029 39.8 ; 659.8 21.5 -45.0 -52.1 -7.6
-149.75 68.25 2.6 ; 2033 59.2 ; 752.9 46.7 -46.3 -48.8 -44.2
-149.25 60.25 39.1 ; 2039 35.5 ; 69.9 15.5 -7.6 -30.3 17.5
-149.25 60.75 42.9 ; 2042 31.7 ; 31.3 10.9 -6.6 -24.1 16.5
-149.25 61.25 138.1 ; 2050 51.5 ; 94.4 19.2 -8.5 -17.5 62.3
-149.25 61.75 3.6 ; 2041 50.4 ; 178.9 14.5 -16.4 -35.2 56.6
-149.25 62.25 11.2 ; 2049 56.9 ; 263.3 17.7 -17.0 -31.3 108.3
-149.25 63.75 17.9 ; 2029 38.0 ; 133.4 9.2 -27.4 -36.3 -8.4
-149.25 67.75 0.2 ; 2022 35.7 ; 832.7 23.5 -54.5 -65.4 -9999.0
-149.25 68.25 12.2 ; 2034 48.2 ; 685.3 29.1 -43.8 -46.4 4.1
-148.75 60.25 1219.5 ; 2068 40.1 ; 30.5 4.6 -12.4 -12.5 27.1
-148.75 60.75 631.3 ; 2065 35.4 ; 14.1 5.6 -10.1 -12.6 34.5
-148.75 61.25 407.7 ; 2056 44.9 ; 54.5 15.6 -8.9 -13.8 54.1
-148.75 62.25 175.5 ; 2041 73.6 ; 305.8 28.9 -14.5 -24.2 154.1
-148.75 63.75 0.9 ; 2024 36.2 ; 189.3 7.6 -30.2 -48.2 -39.9
-148.75 67.75 0.6 ; 2025 41.6 ; 842.9 24.7 -49.1 -53.8 -9999.0
-148.75 68.25 1.1 ; 2030 58.1 ; 828.7 42.8 -48.4 -48.4 -9999.0
-148.25 60.25 5.3 ; 2027 15.2 ; -2.6 -7.5 -31.0 -40.6 -33.8
-148.25 61.25 1111.8 ; 2064 49.7 ; 28.6 21.8 -2.0 -6.5 37.1
-148.25 61.75 131.2 ; 2047 76.3 ; 123.3 33.7 -8.5 -22.5 26.1
-148.25 62.25 133.2 ; 2046 82.7 ; 256.6 33.2 -7.0 -9.8 183.9
-148.25 63.75 3.2 ; 2028 42.5 ; 128.4 10.2 -28.1 -46.6 -59.7
-148.25 67.75 2.9 ; 2037 49.7 ; 808.7 25.9 -47.2 -50.1 -9999.0
-148.25 68.25 13.2 ; 2035 58.9 ; 754.8 37.2 -42.9 -40.7 -33.1
-147.75 60.25 4.4 ; 2022 15.7 ; -0.1 -6.7 -31.4 -40.8 -37.3
-147.75 61.25 24.3 ; 2050 34.0 ; 10.8 12.9 -7.1 -16.4 52.2
-147.75 61.75 1622.2 ; 2054 61.1 ; 46.5 28.6 0.0 -6.2 24.6
-147.75 62.25 10.6 ; 2039 88.5 ; 404.9 40.9 -13.9 -26.5 225.0
-147.75 63.75 210.2 ; 2045 47.1 ; 84.3 15.5 -11.2 -14.1 59.4
-147.75 68.25 1.0 ; 2017 36.9 ; 795.3 22.4 -52.8 -62.6 -95.7
-147.75 68.75 0.5 ; 2032 60.9 ; 775.6 35.2 -48.8 -52.3 -89.4
-147.25 60.75 0.2 ; 2005 11.6 ; -3.1 -4.9 -29.7 -41.3 -41.1
-147.25 61.25 15.1 ; 2046 34.7 ; 30.7 18.4 -6.6 -23.7 32.5
-147.25 61.75 252.9 ; 2066 78.0 ; 79.0 29.8 7.8 1.7 164.4
-147.25 63.25 7.5 ; 2035 45.4 ; 136.8 13.3 -20.7 -35.0 -3.7
-147.25 63.75 417.0 ; 2062 49.0 ; 70.8 17.1 -5.6 -4.7 84.3

-147.25 68.25 2.2 ; 2031 43.4 ; 690.1 16.5 -47.9 -54.6 -55.7
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-146.75 61.25 1122.1 ; 2078 50.5 ; 25.5 24.6 2.5 -1.8 32.7
-146.75 61.75 431.2 ; 2069 71.0 ; 81.0 23.2 3.5 2.0 95.0
-146.75 63.25 36.2 ; 2042 47.1 ; 157.5 13.3 -16.2 -24.2 104.1
-146.75 63.75 349.9 ; 2054 44.9 ; 51.0 15.5 -8.1 -7.9 77.2
-146.75 68.25 1.2 ; 2022 50.7 ; 754.2 29.2 -50.4 -56.5 -75.6
-146.25 61.25 449.0 ; 2048 43.1 ; 55.2 19.6 -8.1 -17.6 48.6
-146.25 61.75 10.6 ; 2044 79.7 ; 204.3 34.6 -6.9 -27.6 36.3
-146.25 63.25 404.9 ; 2062 46.6 ; 82.2 16.0 -6.9 -4.5 67.1
-146.25 63.75 194.1 ; 2045 44.8 ; 37.7 14.0 -6.3 -11.2 57.9
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-145.75 60.75 79.2 ; 2046 30.1 ; 32.8 11.1 -8.6 -20.8 60.1
-145.75 61.25 415.4 ; 2044 42.1 ; 71.7 20.3 -8.3 -22.3 77.3
-145.75 63.25 19.6 ; 2041 46.5 ; 191.5 16.4 -13.8 -20.8 100.4
-145.75 63.75 109.1 ; 2040 46.6 ; 105.6 16.6 -11.1 -12.9 67.1
-145.75 69.25 6.8 ; 2021 23.4 ; 86.4 13.2 -21.1 -50.6 -34.3
-145.25 60.75 757.5 ; 2055 26.1 ; 16.5 1.7 -12.7 -15.9 24.3
-145.25 61.25 158.8 ; 2044 39.4 ; 80.3 17.6 -11.3 -25.2 91.7
-145.25 63.25 92.7 ; 2051 53.8 ; 100.8 16.8 -5.0 -7.8 205.3
-145.25 63.75 485.4 ; 2040 51.9 ; 102.3 19.1 -6.7 -7.6 97.8
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-144.75 60.75 959.4 ; 2048 25.7 ; 8.2 -4.5 -16.1 -19.1 22.6
-144.75 61.25 202.1 ; 2037 41.9 ; 109.3 19.4 -14.0 -32.5 49.3
-144.75 62.25 83.6 ; 2043 54.2 ; 104.9 15.1 -6.3 -17.1 127.6
-144.75 63.25 45.4 ; 2038 48.5 ; 122.1 16.3 -15.1 -17.5 206.2
-144.75 63.75 137.7 ; 2040 50.3 ; 122.8 16.5 -11.5 -16.0 122.0
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-144.25 61.75 288.6 ; 2039 46.1 ; 29.0 7.5 -8.9 -10.3 115.2
-144.25 62.25 414.2 ; 2042 60.2 ; 107.1 13.5 -4.9 -12.3 132.7
-144.25 62.75 23.1 ; 2041 52.7 ; 177.3 16.5 -11.3 -16.4 480.9
-144.25 63.25 114.9 ; 2040 52.0 ; 117.7 14.7 -10.5 -17.2 429.4
-144.25 68.75 7.2 ; 2036 51.3 ; 156.0 26.8 -30.6 -43.8 -54.9
-144.25 69.25 86.0 ; 2028 31.9 ; 95.9 11.6 -23.2 -48.2 -8.4
-143.75 60.25 792.9 ; 2041 30.3 ; 13.2 -2.4 -12.0 -17.3 32.8
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-143.75 61.75 309.6 ; 2041 47.1 ; 53.4 8.3 -9.7 -14.0 35.7
-143.75 62.25 525.4 ; 2037 61.8 ; 81.5 9.9 -9.9 -16.1 76.4
-143.75 68.75 46.5 ; 2031 33.3 ; 84.3 15.2 -17.1 -44.3 -17.3
-143.75 69.25 51.1 ; 2028 32.2 ; 62.3 13.6 -17.8 -43.1 12.5
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-143.25 60.75 992.0 ; 2042 28.8 ; 21.8 -0.8 -17.4 -23.8 16.1
-143.25 61.25 21.9 ; 2024 47.3 ; 178.5 22.8 -23.7 -59.9 -48.0
-143.25 61.75 1535.5 ; 2052 62.6 ; 40.9 14.1 3.2 3.3 53.8
-143.25 62.25 11.8 ; 2024 63.7 ; 476.6 34.0 -36.5 -58.5 78.5
-143.25 62.75 0.4 ; 2019 44.8 ; 530.1 27.7 -42.4 -72.4 -9999.0
-143.25 68.75 3.7 ; 2035 35.5 ; 81.0 16.2 -13.6 -38.7 0.9
-143.25 69.25 3.8 ; 2029 29.1 ; 88.7 9.1 -17.7 -57.4 -41.4
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-142.75 60.75 81.6 ; 2026 50.0 ; 121.2 24.9 -25.2 -54.4 -34.8
-142.75 61.25 12.1 ; 2026 55.3 ; 197.3 26.3 -26.2 -58.8 -40.1
-142.75 61.75 64.8 ; 2036 43.3 ; 47.1 8.9 -18.7 -29.6 58.5

-142.75 62.25 852.3 ; 2041 69.8 ; 72.3 22.1 -10.6 -13.7 110.9
-142.75 69.25 0.1 ; 2021 32.6 ; 209.6 10.9 -21.2 -56.4 -71.2
-142.25 60.25 282.9 ; 2032 28.6 ; 17.9 -6.2 -24.1 -29.4 -7.5
-142.25 60.75 1134.9 ; 2053 56.7 ; 52.3 15.2 -0.6 -5.5 104.7
-142.25 61.25 199.1 ; 2038 60.1 ; 97.1 13.7 -17.7 -25.0 43.7
-142.25 61.75 214.1 ; 2038 75.0 ; 187.2 19.8 -21.9 -32.2 92.3
-142.25 62.25 388.5 ; 2039 74.0 ; 72.0 14.2 -11.6 -15.6 76.8
-141.75 60.75 415.7 ; 2041 72.9 ; 136.6 23.9 -13.9 -18.5 50.5
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-141.75 61.75 46.1 ; 2038 99.9 ; 272.4 29.1 -16.5 -29.9 146.0
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-141.25 62.25 38.4 ; 2025 65.6 ; 318.4 17.4 -36.7 -47.7 107.5
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-140.75 61.75 41.3 ; 2027 60.1 ; 132.5 -3.3 -36.5 -47.8 18.6
-140.25 60.25 4587.1 ; 2055 42.5 ; 15.1 13.8 -2.2 -15.0 22.3
-140.25 60.75 606.1 ; 2038 55.6 ; 27.8 -6.3 -1.9 -13.3 -0.4
-140.25 61.25 178.6 ; 2024 91.1 ; 344.5 11.0 -42.8 -53.2 -39.4
-140.25 61.75 5.0 ; 2017 38.0 ; 161.8 -3.5 -44.1 -68.3 -72.9
-139.75 60.25 3764.4 ; 2077 72.5 ; 46.0 23.4 15.2 12.5 43.7
-139.75 60.75 23.3 ; 2044 91.6 ; 192.8 21.4 -16.3 -21.6 80.2
-139.75 61.25 168.8 ; 2031 77.0 ; 205.6 13.6 -24.5 -32.5 -19.6
-139.25 59.75 81.2 ; 2028 27.3 ; 31.1 6.9 -19.2 -42.3 3.1
-139.25 60.75 441.4 ; 2049 86.7 ; 143.9 28.8 0.7 -4.4 74.9
-139.25 61.25 70.5 ; 2028 76.0 ; 302.6 39.3 -33.1 -49.5 5.3
-138.75 59.25 572.6 ; 2046 34.0 ; 15.1 -3.8 -15.0 -20.6 44.9
-138.75 59.75 1081.0 ; 2055 35.0 ; 14.2 -2.5 -15.1 -20.4 18.7
-138.75 60.25 1907.4 ; 2059 68.5 ; 53.3 18.1 9.5 5.0 81.7
-138.75 60.75 114.3 ; 2031 72.3 ; 203.2 31.5 -29.0 -39.6 -4.5
-138.75 61.25 11.3 ; 2022 77.0 ; 346.8 43.8 -41.5 -65.8 -43.8
-138.25 59.25 74.0 ; 2033 27.6 ; 27.2 -5.3 -21.9 -31.4 38.8
-138.25 59.75 1187.7 ; 2050 39.5 ; 27.9 -1.3 -11.0 -17.3 48.7
-138.25 60.25 914.7 ; 2050 57.2 ; 86.8 12.7 -7.2 -14.5 80.9
-138.25 60.75 18.4 ; 2028 62.0 ; 252.7 23.6 -30.7 -57.8 -23.1
-137.75 58.75 774.2 ; 2053 31.0 ; 11.7 -0.7 -9.7 -18.8 7.9
-137.75 59.25 1161.0 ; 2040 37.6 ; 31.1 -1.7 -12.8 -20.2 20.7
-137.75 59.75 392.2 ; 2034 41.9 ; 99.9 7.8 -20.4 -39.0 45.6
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-137.25 60.75 5.2 ; 2020 31.2 ; 136.8 9.3 -33.3 -70.5 -71.6
-136.75 58.75 167.4 ; 2043 25.3 ; 15.6 -2.2 -18.7 -27.6 19.0
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-136.75 59.75 164.5 ; 2034 27.7 ; 51.4 -0.9 -19.0 -34.8 32.0
-136.75 60.25 47.5 ; 2026 28.4 ; 103.0 9.1 -25.8 -65.5 -58.8
-136.25 58.25 0.3 ; 2015 13.4 ; 9.3 0.3 -12.8 -40.6 -10.3

-136.25 58.75 33.5 ; 2023 17.2 ; 14.4 0.3 -19.3 -46.2 -14.1
-136.25 59.25 311.3 ; 2041 31.6 ; 33.6 -5.1 -16.7 -20.8 59.7
-136.25 59.75 35.2 ; 2026 28.8 ; 109.2 9.2 -26.2 -67.3 -68.6
-136.25 60.25 89.1 ; 2028 35.3 ; 160.0 9.8 -31.6 -68.5 -44.1
-135.75 58.75 230.7 ; 2039 29.2 ; 37.2 -3.9 -16.0 -23.5 57.7
-135.75 59.25 310.8 ; 2036 24.0 ; 44.3 0.3 -18.3 -35.5 62.7
-135.75 59.75 324.7 ; 2029 25.6 ; 69.9 -2.3 -28.7 -44.5 16.7
-135.75 60.25 181.1 ; 2028 37.3 ; 209.2 10.4 -30.1 -56.7 52.7
-135.25 56.75 0.2 ; 2011 11.2 ; 32.2 -1.5 -22.4 -49.2 -33.5
-135.25 57.25 72.5 ; 2020 18.5 ; 31.0 -6.2 -29.3 -52.8 -27.2
-135.25 58.75 132.3 ; 2023 16.0 ; 33.4 1.2 -19.8 -50.3 21.6
-135.25 59.25 202.2 ; 2029 20.5 ; 40.2 -0.4 -21.1 -44.7 38.3
-135.25 59.75 118.9 ; 2029 23.9 ; 77.4 3.0 -29.5 -57.7 1.0
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-134.75 58.75 117.3 ; 2025 15.9 ; 44.2 1.4 -21.3 -55.9 11.9
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-134.25 57.25 3.7 ; 2017 16.1 ; 5.5 -13.1 -33.2 -52.1 -36.1
-134.25 57.75 1.2 ; 2020 18.7 ; 29.4 1.8 -18.0 -53.9 36.0
-134.25 58.25 224.1 ; 2038 20.7 ; 20.8 -4.0 -14.4 -27.1 54.1
-134.25 58.75 1971.0 ; 2056 32.3 ; 44.7 -5.7 -12.5 -14.2 73.8
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-134.25 59.75 1.2 ; 2018 24.9 ; 235.5 6.2 -42.4 -78.5 -84.4
-133.75 58.75 559.2 ; 2034 22.1 ; 46.6 -0.6 -21.8 -36.1 49.4
-133.75 59.25 2.5 ; 2018 20.8 ; 134.6 7.1 -40.8 -72.4 -76.6
-133.25 57.25 14.2 ; 2019 16.5 ; 41.6 4.0 -21.0 -55.9 5.0
-133.25 57.75 175.4 ; 2020 17.1 ; 48.6 3.6 -21.9 -53.3 1.2
-133.25 58.25 3.2 ; 2018 18.4 ; 85.2 10.0 -26.6 -67.0 -27.9
-133.25 58.75 594.7 ; 2027 22.2 ; 47.0 -3.2 -25.7 -43.6 28.5
-133.25 59.25 1.5 ; 2018 22.7 ; 138.0 6.9 -38.1 -76.2 -90.3
-133.25 64.75 1.2 ; 2010 11.9 ; 173.4 -1.1 -61.2 -77.9 -95.9
-133.25 65.25 1.1 ; 2006 9.2 ; 185.0 -1.6 -62.7 -78.2 -97.5
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-131.75 56.25 49.6 ; 2019 12.7 ; 32.6 0.5 -18.4 -53.5 14.2
-131.75 56.75 169.5 ; 2021 17.1 ; 39.2 -1.6 -22.4 -50.1 17.5
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-131.75 61.25 0.4 ; 2003 9.0 ; 58.5 -5.4 -57.4 -80.6 -98.2
-131.75 63.75 0.7 ; 1996 5.2 ; 133.3 -0.4 -57.2 -80.8 -100.0
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-131.25 57.75 28.7 ; 2020 25.5 ; 181.4 15.3 -41.7 -76.8 -67.1
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-131.25 63.75 16.4 ; 2003 7.4 ; 105.2 -0.8 -58.8 -77.9 -94.6
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69.25 38.75 16.2 ; 2028 37.7 ; 101.4 17.6 -16.4 -40.1 -43.9
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69.75 39.25 110.2 ; 2031 46.7 ; 103.4 24.1 -17.9 -37.3 -27.9
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71.25 37.25 91.4 ; 2028 41.3 ; 115.2 20.3 -16.6 -39.6 -44.0
71.25 37.75 248.2 ; 2029 44.4 ; 79.1 18.2 -16.9 -34.9 -31.1
71.25 38.25 282.3 ; 2030 42.5 ; 85.6 20.3 -15.8 -35.8 -25.1
71.25 38.75 389.8 ; 2026 38.5 ; 100.6 19.5 -16.7 -39.9 -26.8
71.25 39.25 292.3 ; 2031 42.4 ; 83.8 19.2 -13.7 -29.4 -17.2
71.25 39.75 153.3 ; 2027 32.5 ; 87.4 16.4 -18.6 -47.3 -38.4
71.25 41.75 43.1 ; 2027 43.1 ; 129.0 26.1 -19.2 -46.9 -49.3
71.25 42.25 6.0 ; 2018 32.1 ; 151.2 24.7 -22.2 -56.7 -65.7
71.75 35.75 13.2 ; 2020 27.5 ; 325.7 10.0 -16.2 -46.9 -31.3
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72.25 37.75 420.7 ; 2029 40.8 ; 97.8 21.7 -17.3 -41.8 -34.1
72.25 38.25 496.4 ; 2030 43.3 ; 84.5 19.6 -15.6 -33.0 -29.4
72.25 38.75 1426.3 ; 2042 51.0 ; 28.8 4.1 -8.9 -13.7 -0.9
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72.25 40.25 95.3 ; 2028 39.4 ; 95.5 18.8 -19.1 -41.5 -36.4
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72.75 39.25 573.5 ; 2030 46.8 ; 90.8 20.8 -13.9 -32.0 -21.6
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73.25 35.75 55.1 ; 2032 25.5 ; 105.3 3.8 -9.5 -33.3 17.2
73.25 36.25 57.9 ; 2020 19.8 ; 310.2 16.5 -21.6 -55.7 -23.5
73.25 36.75 484.2 ; 2026 22.3 ; 100.7 2.3 -23.6 -37.6 -4.9
73.25 37.25 212.7 ; 2030 46.3 ; 93.3 26.6 -16.3 -34.7 -25.4
73.25 37.75 102.0 ; 2022 31.1 ; 113.1 20.5 -17.9 -51.2 -60.1
73.25 38.25 309.5 ; 2026 32.0 ; 105.1 19.3 -18.6 -49.3 -57.3
73.25 38.75 103.8 ; 2022 34.9 ; 106.9 21.8 -18.8 -50.5 -52.1
73.25 39.25 282.0 ; 2036 39.4 ; 49.6 8.6 -17.6 -30.6 -6.2
73.25 39.75 30.6 ; 2028 41.0 ; 138.1 24.0 -19.6 -45.4 -41.8
73.25 40.25 29.2 ; 2025 35.5 ; 119.5 24.5 -20.2 -52.5 -61.8
73.25 41.75 0.1 ; 2010 20.3 ; 275.8 25.9 -16.7 -57.5 -9999.0
73.25 42.25 18.0 ; 2028 31.1 ; 123.0 18.2 -20.5 -52.2 -61.4
73.75 34.75 53.1 ; 2042 30.7 ; 76.2 -1.4 -8.1 -26.1 25.5
73.75 35.25 23.1 ; 2043 32.7 ; 127.4 -1.0 -5.7 -25.8 8.4
73.75 35.75 1.2 ; 2034 30.9 ; 124.5 2.3 -3.7 -26.7 -43.1
73.75 36.25 51.0 ; 2026 24.8 ; 183.7 3.8 -15.0 -41.7 -19.0
73.75 36.75 517.0 ; 2031 34.2 ; 170.7 10.3 -13.0 -24.3 53.2
73.75 37.25 378.1 ; 2028 41.1 ; 102.6 24.4 -19.4 -43.1 -29.6
73.75 37.75 2.8 ; 2025 29.4 ; 114.4 14.1 -15.5 -52.6 -60.1
73.75 38.25 106.1 ; 2023 28.7 ; 113.3 18.7 -19.1 -53.2 -56.4
73.75 38.75 113.2 ; 2025 36.1 ; 115.8 24.7 -18.5 -49.0 -56.5
73.75 39.25 831.5 ; 2032 38.3 ; 44.7 8.1 -15.7 -30.5 -15.3
73.75 39.75 55.8 ; 2025 36.1 ; 93.8 22.2 -20.1 -49.9 -45.1
73.75 41.25 0.4 ; 2021 24.9 ; 141.3 8.2 -17.2 -53.5 -78.7
73.75 41.75 8.8 ; 2021 24.3 ; 123.9 15.2 -18.2 -54.0 -59.5
73.75 42.25 24.8 ; 2023 36.8 ; 113.7 21.4 -16.5 -47.2 -45.3
73.75 42.75 1.4 ; 2026 49.3 ; 313.9 53.2 -23.8 -49.8 -9999.0
74.25 34.75 28.4 ; 2043 30.8 ; 132.5 4.7 -10.4 -29.9 25.5
74.25 35.25 126.2 ; 2043 38.9 ; 119.9 13.6 -8.1 -21.3 128.8
74.25 35.75 1.0 ; 2024 30.2 ; 162.7 2.0 -9.8 -33.2 -49.0
74.25 36.25 592.7 ; 2036 31.5 ; 38.4 -6.4 -12.7 -18.7 17.0
74.25 36.75 447.9 ; 2035 36.9 ; 98.4 9.4 -16.2 -29.6 32.8
74.25 37.25 171.2 ; 2032 43.5 ; 627.1 74.8 -22.6 -54.7 78.8
74.25 38.75 28.6 ; 2022 29.2 ; 102.3 19.5 -18.7 -55.8 -62.7
74.25 39.25 251.5 ; 2029 50.8 ; 87.4 22.3 -10.3 -28.0 -25.3
74.25 39.75 13.0 ; 2025 30.9 ; 106.5 19.7 -18.5 -54.3 -69.1
74.25 40.25 0.2 ; 2016 30.8 ; 323.7 39.5 -13.7 -60.7 -9999.0
74.25 40.75 43.2 ; 2028 39.4 ; 100.5 19.4 -17.9 -43.4 -38.4
74.25 41.75 2.0 ; 2021 22.5 ; 120.2 13.8 -18.6 -55.0 -66.8
74.25 42.25 97.6 ; 2028 38.3 ; 101.8 21.1 -20.0 -46.4 -46.4
74.25 42.75 11.1 ; 2029 39.8 ; 106.4 21.9 -20.0 -48.2 -46.5
74.75 34.75 95.9 ; 2029 29.4 ; 165.0 11.6 -12.4 -36.0 -17.4
74.75 35.25 419.3 ; 2031 29.8 ; 65.3 7.0 -12.6 -25.9 22.8

74.75 35.75 179.7 ; 2035 29.6 ; 39.5 5.7 -14.7 -25.7 25.9
74.75 36.25 586.2 ; 2039 31.8 ; 19.6 -5.4 -12.7 -15.0 13.0
74.75 36.75 882.7 ; 2033 35.2 ; 46.4 16.9 -16.9 -32.6 38.2
74.75 37.25 328.3 ; 2022 34.6 ; 542.0 71.9 -27.4 -64.8 -10.0
74.75 37.75 4.2 ; 2022 28.1 ; 190.3 31.9 -20.3 -56.4 -49.9
74.75 38.25 5.3 ; 2018 26.6 ; 165.5 20.1 -18.7 -60.9 -67.7
74.75 38.75 69.6 ; 2030 42.1 ; 105.6 24.6 -19.5 -40.4 -42.2
74.75 39.25 341.1 ; 2029 46.3 ; 98.0 21.8 -17.7 -39.2 -37.9
74.75 39.75 16.5 ; 2027 34.2 ; 139.5 23.9 -19.5 -52.0 -69.9
74.75 40.25 8.6 ; 2025 36.5 ; 132.2 22.9 -21.7 -51.0 -64.4
74.75 40.75 43.0 ; 2024 30.4 ; 111.4 20.4 -18.4 -53.5 -60.1
74.75 41.25 0.2 ; 2013 25.7 ; 239.3 18.9 -18.5 -63.1 -9999.0
74.75 41.75 0.5 ; 2009 16.6 ; 109.9 13.5 -19.5 -63.9 -95.0
74.75 42.25 135.1 ; 2029 47.0 ; 113.3 24.4 -17.3 -40.5 -34.8
74.75 42.75 19.2 ; 2029 38.2 ; 112.8 23.6 -18.4 -45.7 -53.7
75.25 33.75 3.2 ; 2027 19.7 ; 84.4 -3.3 -20.4 -40.7 -66.1
75.25 34.25 99.7 ; 2020 20.3 ; 87.7 2.4 -18.8 -38.7 -42.0
75.25 34.75 36.9 ; 2022 20.6 ; 165.4 11.0 -16.1 -45.4 -69.0
75.25 35.25 191.6 ; 2020 26.9 ; 427.7 40.0 -19.4 -49.5 -2.5
75.25 35.75 462.6 ; 2044 34.7 ; 50.3 2.8 -12.7 -16.8 24.3
75.25 36.25 1318.1 ; 2040 45.2 ; 60.3 6.2 -13.3 -15.6 20.8
75.25 36.75 116.6 ; 2025 39.4 ; 577.8 51.0 -36.4 -60.1 -9999.0
75.25 37.25 266.4 ; 2023 33.7 ; 230.3 38.3 -29.1 -60.2 -44.0
75.25 37.75 95.8 ; 2025 35.4 ; 114.8 22.0 -19.0 -49.0 -48.6
75.25 38.25 543.5 ; 2033 50.6 ; 87.3 21.2 -12.9 -27.0 -15.7
75.25 38.75 715.0 ; 2036 42.7 ; 39.4 6.8 -15.6 -25.1 10.5
75.25 39.25 2.1 ; 2022 26.0 ; 141.6 13.2 -17.5 -54.4 -59.8
75.25 40.25 41.4 ; 2019 25.9 ; 117.8 18.3 -19.7 -54.6 -69.6
75.25 40.75 0.3 ; 2026 28.7 ; 164.0 11.4 -17.4 -52.8 -7.9
75.25 42.25 54.2 ; 2029 46.6 ; 127.1 22.6 -17.1 -40.4 -45.0
75.75 33.25 0.3 ; 2024 12.3 ; 37.3 2.1 -21.3 -41.1 -66.0
75.75 33.75 239.1 ; 2025 23.9 ; 148.4 14.6 -22.4 -40.3 -25.6
75.75 34.25 309.2 ; 2024 25.1 ; 137.3 14.3 -21.1 -38.1 -24.9
75.75 34.75 53.6 ; 2018 22.8 ; 571.6 51.2 -20.5 -59.1 -40.9
75.75 35.25 37.7 ; 2021 35.1 ; 207.3 25.2 -30.1 -43.4 -51.6
75.75 35.75 881.9 ; 2045 54.4 ; 78.1 10.8 -8.9 -5.7 29.0
75.75 36.25 697.3 ; 2041 53.4 ; 104.4 15.9 -14.6 -14.3 33.8
75.75 36.75 630.3 ; 2031 50.9 ; 268.8 52.9 -26.9 -43.0 22.1
75.75 37.25 106.3 ; 2018 29.0 ; 186.3 33.0 -32.0 -66.4 -67.0
75.75 37.75 21.1 ; 2022 30.1 ; 121.5 22.6 -19.7 -56.0 -62.6
75.75 38.25 27.3 ; 2027 31.7 ; 120.8 22.8 -18.4 -51.6 -67.0
75.75 38.75 75.1 ; 2024 36.2 ; 114.2 22.7 -19.2 -50.5 -54.9
75.75 40.25 8.0 ; 2022 28.4 ; 127.6 17.8 -19.9 -55.5 -70.3
75.75 40.75 39.8 ; 2026 36.3 ; 103.3 20.6 -21.2 -50.5 -65.0
75.75 41.25 28.2 ; 2026 38.9 ; 113.9 24.0 -18.6 -47.2 -57.8
75.75 41.75 1.1 ; 2021 66.5 ; 465.5 85.2 -16.6 -50.3 -9999.0
75.75 42.25 43.4 ; 2027 40.2 ; 108.8 23.8 -19.0 -46.8 -44.7
76.25 32.25 4.6 ; 2023 11.4 ; 86.9 5.3 -27.1 -45.7 -79.4
76.25 32.75 26.8 ; 2031 14.2 ; 33.7 2.3 -26.2 -38.9 -45.0
76.25 33.25 249.9 ; 2036 18.2 ; 49.9 5.2 -25.1 -35.6 -12.2
76.25 33.75 958.4 ; 2029 31.0 ; 119.0 19.3 -21.1 -32.7 6.7
76.25 34.25 161.0 ; 2028 30.3 ; 150.6 25.1 -21.7 -39.7 -29.8
76.25 34.75 56.9 ; 2021 36.1 ; 641.8 85.6 -22.5 -64.3 -52.0
76.25 35.25 251.7 ; 2020 37.7 ; 229.9 28.7 -30.6 -50.6 -40.6

76.25 35.75 806.4 ; 2040 53.0 ; 85.9 6.1 -11.6 -8.2 37.5
76.25 36.75 474.2 ; 2031 57.7 ; 236.7 42.0 -23.0 -37.8 -12.3
76.25 37.25 16.4 ; 2020 29.7 ; 174.0 29.6 -24.7 -59.6 -61.6
76.25 37.75 0.7 ; 2027 30.0 ; 211.4 22.5 -18.1 -62.2 -90.5
76.25 40.25 0.3 ; 2018 26.8 ; 127.2 11.9 -21.7 -60.0 -70.7
76.25 40.75 34.9 ; 2027 38.9 ; 137.7 25.1 -17.0 -47.4 -62.6
76.25 41.25 30.0 ; 2020 24.5 ; 100.0 15.7 -19.2 -55.8 -59.3
76.25 41.75 27.7 ; 2029 37.2 ; 106.7 24.2 -19.2 -51.3 -64.2
76.25 42.25 33.2 ; 2032 42.6 ; 119.5 26.1 -19.5 -44.7 -55.9
76.25 42.75 11.0 ; 2020 27.0 ; 113.6 18.1 -19.4 -58.3 -73.9
76.25 43.25 0.2 ; 2017 27.7 ; 200.8 20.2 -12.8 -55.5 -68.6
76.75 32.25 123.9 ; 2024 13.0 ; 26.4 -3.3 -24.3 -34.3 -22.2
76.75 32.75 402.4 ; 2027 15.8 ; 62.7 8.4 -23.2 -38.8 -15.1
76.75 33.25 836.6 ; 2027 27.4 ; 151.5 25.9 -20.5 -36.0 -11.2
76.75 33.75 202.0 ; 2028 35.4 ; 391.2 60.3 -21.1 -46.3 8.6
76.75 34.25 71.7 ; 2027 36.6 ; 802.6 107.3 -18.4 -49.6 -9999.0
76.75 34.75 193.9 ; 2022 44.1 ; 688.3 117.0 -22.1 -48.9 -10.4
76.75 35.25 968.5 ; 2031 47.2 ; 79.1 8.2 -18.3 -19.7 27.0
76.75 35.75 134.3 ; 2037 59.4 ; 156.2 20.3 -14.5 -13.5 89.8
76.75 36.25 1989.2 ; 2036 61.6 ; 137.5 17.9 -17.2 -19.1 26.6
76.75 36.75 391.7 ; 2027 47.0 ; 159.0 31.8 -23.4 -49.2 -51.2
76.75 37.25 1.9 ; 2022 25.6 ; 188.8 12.2 -18.1 -55.2 -54.3
76.75 40.75 43.4 ; 2020 25.5 ; 96.1 15.7 -19.8 -55.5 -66.8
76.75 41.25 21.5 ; 2023 28.5 ; 126.5 18.9 -18.3 -54.1 -70.2
76.75 41.75 187.4 ; 2030 42.2 ; 115.5 25.4 -16.6 -42.4 -43.8
76.75 42.75 90.2 ; 2026 34.3 ; 103.6 21.9 -18.4 -49.8 -53.5
76.75 43.25 19.1 ; 2025 33.2 ; 123.8 20.7 -18.7 -50.8 -62.1
77.25 31.75 4.9 ; 2025 9.5 ; 164.3 5.0 -23.4 -42.8 -88.6
77.25 32.25 497.7 ; 2032 16.1 ; 82.3 7.9 -21.7 -33.6 -17.1
77.25 32.75 544.1 ; 2024 22.6 ; 237.7 26.8 -19.1 -41.2 -7.7
77.25 33.25 99.6 ; 2023 23.9 ; 550.5 40.1 -17.1 -49.4 332.7
77.25 33.75 49.2 ; 2024 36.5 ; 815.5 113.7 -14.3 -50.5 263.0
77.25 34.25 134.9 ; 2032 65.1 ; 764.3 196.5 -22.1 -29.6 -9999.0
77.25 34.75 436.1 ; 2031 71.6 ; 437.0 103.3 -17.7 -21.4 270.6
77.25 35.25 2199.7 ; 2050 89.4 ; 106.4 36.4 7.2 14.7 59.6
77.25 36.25 772.4 ; 2038 86.0 ; 346.4 69.4 -9.7 -17.1 110.2
77.25 36.75 352.1 ; 2030 45.7 ; 105.5 22.8 -12.3 -34.1 -29.3
77.25 40.75 231.4 ; 2029 41.7 ; 65.4 15.5 -14.4 -31.5 -21.4
77.25 41.25 66.6 ; 2023 28.1 ; 108.2 17.8 -19.0 -53.1 -63.5
77.25 41.75 226.0 ; 2025 32.0 ; 106.9 19.9 -18.9 -51.1 -55.1
77.25 42.25 0.3 ; 2015 23.7 ; 274.9 35.6 -19.9 -64.0 -9999.0
77.25 42.75 137.2 ; 2025 37.2 ; 92.9 20.3 -17.2 -42.3 -43.5
77.25 43.25 263.2 ; 2028 39.9 ; 91.2 20.9 -14.7 -37.8 -36.4
77.75 31.25 1.6 ; 2025 9.5 ; 144.2 2.1 -22.1 -45.7 -98.2
77.75 31.75 403.3 ; 2025 14.8 ; 238.8 25.8 -24.9 -46.8 -58.4
77.75 32.25 662.3 ; 2038 19.9 ; 190.3 31.0 -22.9 -37.6 -2.0
77.75 32.75 212.4 ; 2022 23.5 ; 762.0 57.2 -21.5 -58.5 254.3
77.75 33.25 24.7 ; 2017 46.9 ; 842.9 221.7 -12.5 -59.3 -9999.0
77.75 33.75 97.4 ; 2030 70.3 ; 842.9 206.3 -9.3 -38.1 -9999.0
77.75 34.25 114.4 ; 2027 82.7 ; 731.7 199.2 -14.9 -21.3 440.3
77.75 34.75 1011.4 ; 2043 109.3 ; 294.5 91.2 -3.2 2.6 614.7
77.75 35.25 632.8 ; 2034 89.7 ; 319.7 77.8 -8.6 -12.9 515.3
77.75 35.75 826.5 ; 2035 78.6 ; 372.5 81.3 -8.9 -22.3 97.7
77.75 36.25 132.1 ; 2038 47.9 ; 108.5 22.9 -11.3 -29.4 -21.9

77.75 36.75 409.0 ; 2029 41.1 ; 84.7 17.9 -16.7 -38.0 -31.3
77.75 40.75 28.0 ; 2026 36.7 ; 99.6 19.1 -20.6 -47.1 -49.7
77.75 41.25 389.0 ; 2028 38.8 ; 83.0 17.5 -17.4 -38.6 -33.6
77.75 41.75 270.8 ; 2024 31.9 ; 110.2 20.1 -19.5 -50.6 -57.0
77.75 42.25 38.2 ; 2022 32.7 ; 112.6 21.8 -19.4 -51.8 -58.9
77.75 42.75 9.6 ; 2019 25.1 ; 112.0 16.7 -19.9 -57.9 -76.4
77.75 43.25 103.0 ; 2025 33.1 ; 102.2 20.1 -19.0 -49.6 -52.9
78.25 30.75 39.9 ; 2020 10.9 ; 142.6 0.2 -26.0 -45.2 -75.3
78.25 31.25 114.5 ; 2021 14.7 ; 187.0 14.0 -24.6 -45.7 -51.3
78.25 31.75 131.2 ; 2019 14.0 ; 238.5 27.4 -25.1 -52.7 -63.0
78.25 32.25 163.6 ; 2021 26.6 ; 776.7 94.8 -22.3 -56.3 -9999.0
78.25 32.75 80.1 ; 2022 33.6 ; 825.5 110.1 -20.6 -56.5 -9999.0
78.25 33.25 94.1 ; 2023 62.5 ; 543.3 146.5 -15.4 -47.3 -69.3
78.25 33.75 185.8 ; 2026 51.5 ; 120.1 41.5 -16.0 -44.3 -55.7
78.25 34.25 458.6 ; 2044 131.3 ; 277.1 129.6 2.3 6.2 -50.6
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78.25 35.25 112.1 ; 2029 88.9 ; 246.4 69.3 -13.0 -43.1 -64.7
78.25 35.75 54.9 ; 2025 30.8 ; 99.9 17.3 -19.2 -48.7 -43.5
78.25 36.25 335.8 ; 2028 38.0 ; 107.2 20.4 -18.5 -45.5 -44.8
78.25 36.75 207.6 ; 2028 38.9 ; 105.8 21.8 -17.2 -43.4 -44.9
78.25 40.75 0.7 ; 2013 31.7 ; 293.9 28.8 -25.7 -64.4 -9999.0
78.25 41.25 120.1 ; 2025 33.7 ; 106.1 21.7 -18.5 -51.5 -61.1
78.25 41.75 227.2 ; 2029 45.9 ; 112.6 22.8 -16.9 -39.6 -34.1
78.25 42.25 240.2 ; 2030 38.7 ; 90.4 15.9 -18.1 -37.8 -34.4
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78.25 43.25 3.7 ; 2017 23.1 ; 141.8 17.3 -19.7 -59.5 -57.8
78.75 30.75 426.3 ; 2026 13.5 ; 126.7 5.9 -27.0 -45.5 -53.1
78.75 31.25 167.5 ; 2022 17.4 ; 277.3 24.9 -25.7 -48.8 -4.8
78.75 31.75 116.3 ; 2024 22.4 ; 687.3 52.9 -24.4 -52.1 -17.7
78.75 32.25 87.2 ; 2017 26.7 ; 808.1 88.0 -27.9 -59.1 -9999.0
78.75 32.75 3.2 ; 2014 23.6 ; -9999.0 81.6 -34.7 -70.1 -9999.0
78.75 33.75 32.2 ; 2027 50.3 ; 119.9 30.0 -17.5 -43.0 -57.2
78.75 34.25 302.0 ; 2037 122.2 ; 117.0 73.2 3.8 -4.2 -63.8
78.75 34.75 103.4 ; 2031 87.4 ; 147.7 51.1 -9.5 -31.9 -60.9
78.75 35.25 125.8 ; 2028 39.4 ; 103.2 22.3 -18.9 -45.6 -45.6
78.75 35.75 248.9 ; 2028 40.7 ; 96.6 20.6 -16.3 -43.1 -42.7
78.75 36.25 404.5 ; 2029 40.5 ; 83.2 17.3 -18.0 -39.9 -38.9
78.75 36.75 17.7 ; 2024 31.3 ; 116.5 20.2 -20.2 -52.6 -57.3
78.75 41.25 12.0 ; 2023 31.7 ; 114.1 21.6 -20.3 -56.0 -68.3
78.75 41.75 194.8 ; 2025 35.6 ; 108.3 20.5 -18.7 -46.5 -44.3
78.75 42.25 329.3 ; 2026 35.2 ; 105.2 19.6 -19.0 -48.4 -46.5
78.75 44.75 1.0 ; 2016 38.7 ; 268.8 53.5 -7.3 -51.2 -9999.0
79.25 30.75 809.0 ; 2028 19.2 ; 77.0 8.0 -27.0 -43.6 -35.7
79.25 31.25 67.3 ; 2022 18.7 ; 395.0 36.7 -24.4 -48.7 -18.9
79.25 32.25 10.1 ; 2007 10.3 ; 842.9 77.6 -34.2 -69.8 -9999.0
79.25 32.75 21.3 ; 2016 19.2 ; 842.9 89.7 -36.2 -69.8 -9999.0
79.25 33.25 51.5 ; 2020 26.5 ; 109.3 19.1 -21.2 -56.9 -67.9
79.25 33.75 23.2 ; 2020 24.6 ; 106.6 17.0 -18.8 -55.9 -70.4
79.25 34.25 86.5 ; 2027 45.1 ; 110.6 26.5 -17.0 -43.4 -55.3
79.25 34.75 1.6 ; 2018 26.7 ; 167.9 21.6 -21.2 -60.8 -74.0
79.25 35.25 7.3 ; 2023 28.2 ; 126.2 18.5 -19.6 -57.6 -67.6
79.25 35.75 93.3 ; 2025 32.0 ; 89.4 17.4 -16.6 -45.9 -48.7
79.25 36.25 582.8 ; 2030 43.4 ; 80.4 18.8 -13.2 -31.4 -17.4
79.25 41.75 99.9 ; 2027 38.8 ; 105.0 23.2 -17.8 -44.4 -47.8

79.25 42.25 182.2 ; 2025 34.1 ; 102.1 20.9 -17.3 -46.9 -42.5
79.25 42.75 0.1 ; 2019 26.5 ; 268.9 25.0 -17.9 -65.0 -9999.0
79.25 45.25 87.0 ; 2025 34.6 ; 103.4 19.8 -16.5 -46.4 -53.7
79.75 30.25 447.0 ; 2034 11.5 ; 44.7 1.8 -24.5 -38.1 -52.9
79.75 30.75 568.3 ; 2023 18.6 ; 77.6 2.9 -30.2 -45.0 -50.3
79.75 31.25 61.0 ; 2031 24.7 ; 685.5 49.5 -23.9 -43.0 -9999.0
79.75 31.75 33.8 ; 2026 41.4 ; 764.3 68.9 -30.2 -44.1 -9999.0
79.75 32.25 134.4 ; 2022 32.1 ; 842.9 71.1 -31.5 -53.0 -30.9
79.75 32.75 9.3 ; 2017 20.4 ; 114.2 12.7 -19.6 -58.1 -72.4
79.75 33.25 30.1 ; 2017 23.1 ; 114.8 15.2 -18.4 -56.1 -65.2
79.75 33.75 42.0 ; 2023 30.0 ; 109.1 19.6 -18.3 -52.0 -57.3
79.75 34.25 286.2 ; 2032 49.4 ; 65.2 18.4 -13.1 -29.0 -23.7
79.75 34.75 10.4 ; 2032 53.0 ; 153.0 36.0 -11.4 -36.3 -55.1
79.75 35.75 533.8 ; 2029 38.6 ; 77.2 15.9 -16.7 -38.1 -28.0
79.75 36.25 209.7 ; 2029 44.0 ; 92.1 21.1 -15.7 -34.1 -26.5
79.75 41.75 631.0 ; 2040 57.4 ; 39.7 5.4 -7.6 -15.1 1.5
79.75 42.25 108.1 ; 2033 55.6 ; 107.8 14.9 -16.5 -32.3 8.0
79.75 44.75 49.0 ; 2023 30.4 ; 109.8 19.0 -20.3 -54.4 -63.8
79.75 45.25 100.8 ; 2023 30.3 ; 106.2 19.5 -19.6 -52.7 -60.3
80.25 30.25 789.9 ; 2029 12.9 ; 32.2 -3.7 -24.2 -34.2 -50.2
80.25 30.75 187.1 ; 2016 8.6 ; 78.6 12.8 -24.3 -45.4 -71.8
80.25 31.25 8.6 ; 2017 26.2 ; 764.3 102.1 -36.0 -70.1 -9999.0
80.25 31.75 14.9 ; 2010 17.2 ; 778.8 100.0 -37.8 -71.6 -100.0
80.25 32.25 2.9 ; 2002 14.8 ; 804.1 65.5 -46.1 -74.2 -9999.0
80.25 32.75 4.7 ; 2026 47.4 ; 124.7 25.5 -21.9 -43.7 -9999.0
80.25 33.75 0.7 ; 2021 28.4 ; 135.7 19.7 -21.0 -58.7 -78.7
80.25 34.25 115.0 ; 2030 44.4 ; 117.0 23.8 -14.6 -33.6 -26.3
80.25 34.75 17.8 ; 2027 43.0 ; 109.9 24.5 -20.8 -46.2 -58.1
80.25 35.25 188.5 ; 2044 64.4 ; 78.1 11.3 -11.8 -18.4 6.4
80.25 35.75 669.9 ; 2030 53.0 ; 94.9 22.8 -7.5 -25.7 -27.0
80.25 36.25 137.6 ; 2028 41.1 ; 105.6 22.7 -17.8 -41.8 -39.2
80.25 36.75 1.6 ; 2020 23.7 ; 135.5 13.9 -17.0 -55.1 -77.3
80.25 41.75 372.4 ; 2033 45.5 ; 38.0 2.8 -17.7 -28.6 -16.7
80.25 42.25 1283.8 ; 2033 41.3 ; 10.0 -9.1 -18.5 -24.2 -10.2
80.25 42.75 171.9 ; 2030 40.8 ; 86.3 19.5 -16.1 -34.6 -26.3
80.25 44.25 71.8 ; 2022 33.4 ; 115.2 21.8 -17.7 -48.2 -48.9
80.25 44.75 93.0 ; 2025 35.2 ; 110.8 20.7 -18.3 -47.0 -49.2
80.25 45.25 70.0 ; 2028 39.0 ; 99.8 18.3 -21.4 -45.2 -51.5
80.75 29.75 28.8 ; 2030 17.9 ; 37.8 -3.1 -20.2 -26.2 -2.6
80.75 30.25 507.1 ; 2031 16.6 ; 73.4 0.4 -22.0 -32.2 -26.7
80.75 30.75 81.0 ; 2022 11.4 ; 407.0 30.1 -26.9 -55.1 -75.0
80.75 31.25 12.1 ; 2002 17.7 ; 750.4 41.6 -29.9 -56.6 -9999.0
80.75 31.75 40.4 ; 2006 19.7 ; 776.6 72.1 -38.7 -68.2 -9999.0
80.75 34.25 136.1 ; 2031 62.3 ; 100.8 25.9 -8.7 -26.4 -33.8
80.75 34.75 155.8 ; 2032 49.7 ; 104.0 24.2 -12.1 -28.6 -15.2
80.75 35.25 1435.1 ; 2057 107.3 ; 76.3 43.1 27.4 23.4 39.8
80.75 35.75 343.4 ; 2028 44.5 ; 107.5 25.6 -15.5 -40.4 -41.7
80.75 36.25 8.7 ; 2024 32.9 ; 115.6 20.0 -16.1 -49.9 -64.3
80.75 41.75 249.3 ; 2032 54.2 ; 90.1 22.8 -12.5 -27.2 -21.1
80.75 42.25 664.9 ; 2035 48.2 ; 42.0 6.5 -12.9 -24.0 -22.4
80.75 42.75 172.4 ; 2026 41.5 ; 118.3 23.8 -18.2 -44.1 -35.6
80.75 44.25 26.6 ; 2021 28.9 ; 106.7 18.9 -19.5 -52.5 -61.6
80.75 44.75 57.9 ; 2025 32.1 ; 107.9 20.3 -20.2 -52.8 -61.5
80.75 45.25 39.8 ; 2031 41.0 ; 116.3 20.9 -15.8 -38.3 -38.1

81.25 29.75 147.2 ; 2033 16.9 ; 76.6 -1.3 -20.9 -29.6 -8.8
81.25 30.25 254.8 ; 2034 17.8 ; 97.4 5.8 -21.0 -32.1 -15.5
81.25 30.75 62.3 ; 2024 18.3 ; 810.6 39.7 -23.5 -47.5 47.8
81.25 31.25 113.9 ; 2009 20.8 ; 734.6 50.6 -31.5 -62.5 -94.5
81.25 31.75 1.8 ; 2005 18.5 ; -9999.0 36.4 -34.0 -55.7 -9999.0
81.25 32.75 137.1 ; 2029 49.3 ; 102.0 29.2 -19.2 -37.5 -35.8
81.25 34.25 181.1 ; 2029 47.1 ; 102.0 22.2 -16.4 -38.7 -30.6
81.25 34.75 14.6 ; 2023 29.0 ; 102.4 17.7 -17.3 -52.9 -54.9
81.25 35.25 1031.5 ; 2042 56.5 ; 34.4 11.0 -4.3 -8.9 -11.4
81.25 35.75 295.0 ; 2028 45.6 ; 106.6 23.0 -17.3 -41.0 -44.3
81.25 36.25 6.3 ; 2018 24.2 ; 121.7 15.1 -20.0 -54.9 -69.4
81.25 41.75 38.2 ; 2030 47.1 ; 121.9 25.0 -15.5 -38.0 -51.8
81.25 42.25 324.3 ; 2029 40.9 ; 90.0 17.6 -16.4 -36.0 -33.2
81.25 42.75 312.5 ; 2029 39.3 ; 96.1 20.7 -17.9 -41.8 -34.2
81.25 44.25 5.2 ; 2031 67.7 ; 280.5 44.2 -25.8 -46.5 -9999.0
81.25 44.75 4.5 ; 2024 32.4 ; 146.9 20.7 -19.9 -54.5 -71.9
81.25 45.25 18.4 ; 2023 31.0 ; 108.0 22.3 -17.9 -52.9 -67.8
81.75 29.75 71.8 ; 2046 19.7 ; 50.7 -1.5 -19.3 -26.2 -26.1
81.75 30.25 182.8 ; 2033 27.0 ; 187.4 12.3 -18.1 -29.6 2.7
81.75 30.75 26.1 ; 2017 19.9 ; 269.0 46.0 -23.5 -54.6 -80.8
81.75 31.25 18.5 ; 2012 18.6 ; 183.9 34.8 -28.1 -61.7 -71.7
81.75 31.75 5.5 ; 2013 17.1 ; 130.2 20.6 -24.4 -61.8 -84.3
81.75 33.25 4.7 ; 2021 31.3 ; 130.7 21.9 -23.3 -58.6 -74.6
81.75 33.75 33.2 ; 2026 39.9 ; 119.9 25.2 -17.3 -43.4 -50.0
81.75 34.25 156.5 ; 2030 48.7 ; 81.7 20.4 -15.2 -34.2 -24.8
81.75 34.75 38.3 ; 2030 48.6 ; 108.1 26.0 -17.8 -39.2 -29.0
81.75 35.25 370.9 ; 2033 49.0 ; 54.3 11.2 -13.3 -26.3 -15.3
81.75 35.75 118.0 ; 2028 37.1 ; 85.1 17.3 -18.2 -43.9 -44.6
81.75 36.25 60.2 ; 2029 43.6 ; 114.6 22.2 -18.8 -41.5 -41.7
81.75 42.25 150.4 ; 2028 40.0 ; 103.2 20.6 -17.6 -41.6 -43.8
81.75 42.75 244.6 ; 2027 35.7 ; 91.6 19.6 -19.0 -46.5 -43.4
81.75 44.25 0.6 ; 2019 21.9 ; 169.9 18.4 -19.4 -59.5 -78.0
81.75 44.75 21.1 ; 2032 51.9 ; 122.5 19.8 -20.5 -35.0 -24.8
81.75 45.25 3.3 ; 2021 24.7 ; 118.8 18.2 -15.4 -51.4 -72.4
81.75 45.75 0.2 ; 2024 28.4 ; 192.0 17.6 -21.3 -51.5 -9999.0
82.25 28.75 0.1 ; 2034 21.2 ; 172.4 -14.5 -21.4 -28.4 -81.2
82.25 29.25 7.4 ; 2034 20.7 ; 102.5 -15.0 -21.0 -27.8 -68.4
82.25 29.75 111.1 ; 2030 24.4 ; 134.0 -2.4 -17.3 -27.4 -36.5
82.25 30.25 308.5 ; 2032 38.2 ; 84.9 15.0 -14.7 -27.6 -19.9
82.25 30.75 1.1 ; 2017 23.6 ; 146.1 15.9 -18.3 -60.0 -88.7
82.25 31.25 135.4 ; 2029 36.9 ; 88.6 21.1 -15.9 -41.5 -38.3
82.25 31.75 10.7 ; 2029 48.8 ; 128.6 27.3 -19.3 -44.9 -58.9
82.25 33.25 14.5 ; 2029 47.4 ; 148.4 33.0 -21.0 -46.6 -70.3
82.25 33.75 142.0 ; 2031 47.8 ; 81.9 21.5 -15.1 -33.2 -19.9
82.25 34.25 281.0 ; 2035 60.2 ; 95.6 23.4 -9.6 -21.9 -22.9
82.25 34.75 44.6 ; 2029 47.0 ; 107.8 23.3 -17.1 -39.2 -45.3
82.25 35.25 191.9 ; 2031 35.6 ; 52.3 9.1 -18.3 -32.2 -18.6
82.25 35.75 334.3 ; 2031 47.7 ; 79.2 20.1 -14.4 -32.1 -25.6
82.25 36.25 127.5 ; 2027 38.0 ; 112.0 22.4 -19.4 -48.6 -50.0
82.25 42.25 50.7 ; 2024 33.1 ; 117.5 21.8 -18.8 -53.0 -47.8
82.25 42.75 184.2 ; 2025 34.8 ; 96.2 19.5 -17.7 -44.9 -42.1
82.25 44.25 5.7 ; 2027 36.7 ; 143.6 26.8 -16.7 -53.5 -68.7
82.75 28.75 2.8 ; 2041 23.9 ; 208.7 -6.3 -17.5 -22.7 -21.6
82.75 29.25 277.0 ; 2033 22.2 ; 80.8 -2.1 -23.5 -32.2 -32.0

82.75 29.75 287.2 ; 2039 32.7 ; 197.4 29.4 -20.8 -30.3 -14.1
82.75 30.75 156.5 ; 2026 35.7 ; 103.2 22.2 -18.7 -48.9 -47.4
82.75 31.25 109.6 ; 2027 40.4 ; 111.1 23.1 -16.9 -42.8 -40.5
82.75 31.75 15.2 ; 2024 43.9 ; 112.7 30.3 -17.9 -43.7 -49.0
82.75 33.75 3.7 ; 2025 54.9 ; 245.0 31.8 -17.0 -46.6 -67.4
82.75 34.25 1.1 ; 2025 60.8 ; 293.3 74.6 -35.3 -64.4 -9999.0
82.75 34.75 3.2 ; 2033 60.6 ; 235.0 53.4 -16.3 -43.9 -9999.0
82.75 35.75 10.0 ; 2028 32.6 ; 123.2 21.4 -16.2 -45.0 -62.7
82.75 36.25 73.1 ; 2025 38.8 ; 114.6 25.1 -17.6 -47.2 -55.4
82.75 42.25 31.4 ; 2024 31.8 ; 101.2 19.8 -19.2 -52.4 -67.8
82.75 42.75 189.2 ; 2025 33.2 ; 112.6 20.7 -18.4 -50.3 -60.1
82.75 43.25 0.3 ; 2010 15.6 ; 196.1 13.1 -23.8 -65.9 -19.7
82.75 43.75 6.4 ; 2015 21.8 ; 112.1 14.2 -18.3 -57.5 -74.8
82.75 44.25 0.7 ; 2020 23.2 ; 161.6 17.1 -18.4 -56.9 -74.7
83.25 28.75 330.4 ; 2043 28.1 ; 82.3 7.1 -16.3 -23.2 -37.9
83.25 29.25 32.3 ; 2032 23.5 ; 148.9 17.8 -18.3 -40.6 -69.9
83.25 29.75 13.1 ; 2024 25.1 ; 112.7 15.9 -18.0 -47.5 -67.0
83.25 30.25 0.1 ; 2021 23.6 ; 186.0 4.4 -14.1 -55.7 -9999.0
83.25 30.75 98.8 ; 2025 36.7 ; 118.5 22.8 -16.8 -45.7 -45.5
83.25 31.25 173.1 ; 2027 43.1 ; 95.8 21.8 -19.6 -40.6 -44.7
83.25 31.75 132.4 ; 2031 42.7 ; 93.1 22.6 -15.3 -35.4 -23.6
83.25 33.75 7.0 ; 2024 50.1 ; 195.4 27.6 -20.4 -48.9 -63.8
83.25 36.25 16.3 ; 2027 36.1 ; 141.7 23.1 -18.4 -49.3 -48.8
83.25 36.75 0.8 ; 2028 37.9 ; 289.3 30.6 -15.8 -54.2 -7.0
83.25 42.25 38.3 ; 2024 28.0 ; 106.9 17.2 -18.8 -53.9 -63.2
83.25 42.75 143.4 ; 2027 38.5 ; 105.3 21.4 -18.2 -42.6 -51.6
83.25 43.25 11.2 ; 2022 27.6 ; 116.9 18.0 -19.1 -56.0 -67.7
83.25 43.75 17.0 ; 2019 27.1 ; 117.7 18.0 -18.0 -55.0 -67.7
83.25 44.25 181.5 ; 2027 40.0 ; 120.3 22.8 -18.2 -46.1 -46.4
83.75 28.25 2.0 ; 2049 21.7 ; 42.7 -12.8 -17.4 -18.4 -33.2
83.75 28.75 354.7 ; 2045 23.8 ; 33.7 -3.6 -18.0 -23.4 -33.7
83.75 29.25 265.7 ; 2031 35.8 ; 126.6 36.1 -18.5 -39.0 -41.2
83.75 29.75 1.0 ; 2025 31.8 ; 148.6 12.5 -17.1 -48.1 -23.2
83.75 30.25 79.2 ; 2023 30.3 ; 113.3 20.6 -19.2 -53.5 -61.8
83.75 30.75 151.1 ; 2027 39.4 ; 106.0 23.1 -18.4 -44.5 -38.6
83.75 31.25 28.4 ; 2030 40.1 ; 124.9 22.5 -21.2 -46.7 -51.4
83.75 31.75 106.4 ; 2029 43.9 ; 81.4 19.6 -16.8 -33.2 -31.7
83.75 42.25 33.4 ; 2024 27.7 ; 106.8 17.9 -17.6 -52.8 -61.3
83.75 42.75 24.3 ; 2022 29.9 ; 106.3 19.6 -19.8 -54.7 -60.7
83.75 43.25 64.4 ; 2024 34.8 ; 115.1 22.1 -20.3 -53.5 -63.9
83.75 43.75 77.6 ; 2028 39.1 ; 88.1 20.5 -17.2 -43.1 -52.3
83.75 44.25 326.3 ; 2029 41.8 ; 76.4 16.9 -15.9 -34.5 -16.0
83.75 50.25 1.5 ; 1996 10.1 ; 54.7 -1.8 -36.4 -64.8 -96.7
84.25 28.25 26.0 ; 2049 22.4 ; 44.1 -13.1 -16.7 -18.7 -29.3
84.25 28.75 619.7 ; 2042 26.0 ; 36.0 1.8 -18.6 -25.5 -28.2
84.25 29.25 1.5 ; 2019 18.0 ; 116.2 11.3 -19.5 -60.7 -90.1
84.25 29.75 5.7 ; 2015 24.8 ; 123.3 18.7 -22.4 -61.4 -76.0
84.25 30.25 11.4 ; 2028 37.8 ; 124.2 24.6 -19.1 -50.6 -70.9
84.25 30.75 81.0 ; 2025 34.1 ; 103.0 22.1 -19.5 -50.8 -50.9
84.25 34.25 5.0 ; 2028 43.9 ; 168.6 36.1 -24.1 -55.6 -68.7
84.25 36.75 23.8 ; 2026 39.5 ; 118.1 25.0 -20.6 -48.9 -46.0
84.25 42.25 39.7 ; 2023 28.3 ; 107.6 17.6 -20.2 -55.8 -68.3
84.25 42.75 4.9 ; 2021 28.9 ; 115.2 20.1 -21.1 -57.2 -56.0
84.25 43.25 14.0 ; 2023 34.7 ; 124.2 22.8 -19.7 -54.7 -62.7

84.25 43.75 109.0 ; 2025 33.2 ; 103.2 20.3 -18.1 -48.5 -53.9
84.25 44.25 97.9 ; 2025 31.8 ; 106.3 20.4 -19.2 -51.0 -57.4
84.25 50.25 0.9 ; 1997 10.3 ; 67.0 -0.1 -35.5 -63.7 -97.4
84.25 51.25 0.2 ; 1996 10.5 ; 49.1 -2.9 -36.9 -65.2 -97.1
84.75 28.25 154.8 ; 2036 21.7 ; -9.0 -23.2 -17.4 -13.4 -28.7
84.75 28.75 340.1 ; 2035 20.7 ; 17.2 -17.6 -21.1 -22.4 -39.5
84.75 29.75 196.0 ; 2027 40.6 ; 105.5 21.9 -18.9 -44.7 -44.9
84.75 30.25 248.0 ; 2027 39.9 ; 102.6 22.6 -16.5 -43.7 -45.9
84.75 30.75 3.6 ; 2020 24.3 ; 90.2 15.4 -19.1 -57.2 -62.6
84.75 31.75 33.4 ; 2026 43.1 ; 126.5 24.8 -18.0 -43.6 -62.5
84.75 33.25 4.5 ; 2030 42.2 ; 228.9 25.7 -16.1 -42.1 31.0
84.75 36.75 191.5 ; 2029 40.1 ; 105.7 24.7 -17.6 -45.2 -35.1
84.75 42.25 20.5 ; 2023 31.3 ; 112.5 22.6 -20.6 -56.4 -65.2
84.75 42.75 22.4 ; 2024 25.0 ; 113.9 17.2 -19.5 -57.0 -70.3
84.75 43.25 247.5 ; 2028 39.2 ; 98.4 21.5 -17.8 -43.7 -43.7
84.75 43.75 353.7 ; 2029 38.7 ; 102.9 19.9 -17.2 -42.3 -42.0
84.75 44.25 0.8 ; 2017 23.6 ; 122.6 9.3 -20.2 -59.1 -89.4
85.25 28.25 189.1 ; 2034 20.0 ; 17.2 -23.8 -20.8 -18.4 -38.1
85.25 28.75 259.0 ; 2030 22.0 ; 63.3 -16.2 -20.9 -24.8 -52.3
85.25 29.25 27.5 ; 2024 34.7 ; 124.6 20.9 -18.7 -49.6 -51.3
85.25 29.75 40.8 ; 2024 32.0 ; 115.0 20.8 -19.1 -50.9 -58.7
85.25 30.25 0.7 ; 2030 28.5 ; 199.2 22.1 -15.8 -57.6 -54.0
85.25 31.25 13.5 ; 2023 38.2 ; 122.9 20.1 -19.8 -43.6 -56.7
85.25 31.75 40.7 ; 2028 46.4 ; 137.7 27.9 -17.7 -43.0 -40.7
85.25 33.25 29.0 ; 2028 43.4 ; 110.3 21.8 -18.8 -42.4 -50.2
85.25 34.75 26.8 ; 2031 48.4 ; 112.6 28.9 -12.9 -26.8 -14.2
85.25 36.75 47.6 ; 2027 36.8 ; 121.5 22.6 -18.3 -45.9 -50.1
85.25 42.25 0.5 ; 2021 26.1 ; 161.4 14.2 -17.5 -49.4 -50.1
85.25 42.75 207.6 ; 2026 35.1 ; 108.9 21.4 -18.7 -48.3 -49.5
85.25 43.25 365.7 ; 2029 40.0 ; 94.9 19.4 -17.6 -38.8 -28.0
85.25 43.75 301.6 ; 2029 40.0 ; 75.0 17.5 -17.0 -35.9 -22.4
85.25 46.75 6.8 ; 2012 20.6 ; 141.5 15.4 -40.7 -64.4 -84.3
85.25 48.75 0.3 ; 1998 18.3 ; 119.4 9.1 -39.6 -69.5 -97.5
85.25 49.25 5.9 ; 1998 12.9 ; 67.1 2.0 -40.9 -68.0 -95.7
85.25 49.75 0.4 ; 1996 9.4 ; 49.8 -2.8 -34.5 -63.9 -96.3
85.75 28.25 659.1 ; 2036 31.0 ; 53.7 -15.1 -17.7 -17.0 -20.0
85.75 28.75 86.0 ; 2033 30.9 ; 62.3 -11.7 -19.6 -23.2 -35.6
85.75 29.75 21.8 ; 2020 28.7 ; 119.7 21.6 -19.8 -57.9 -72.1
85.75 30.25 92.3 ; 2023 31.1 ; 109.6 20.3 -18.6 -53.4 -61.7
85.75 33.25 5.8 ; 2032 73.8 ; -9999.0 94.5 -9.8 -22.6 -9999.0
85.75 33.75 5.6 ; 2029 46.8 ; 222.6 35.8 -18.7 -44.0 -48.5
85.75 34.25 324.8 ; 2035 63.6 ; 99.5 25.7 -5.3 -17.1 -13.7
85.75 34.75 30.8 ; 2025 44.8 ; 136.4 31.9 -21.5 -47.5 -56.6
85.75 35.75 107.2 ; 2036 46.5 ; 72.7 12.5 -14.2 -25.6 16.0
85.75 37.25 102.1 ; 2028 40.8 ; 85.1 21.7 -17.5 -39.7 -28.2
85.75 42.25 0.8 ; 2015 18.5 ; 109.5 10.2 -20.0 -59.5 -86.8
85.75 42.75 36.2 ; 2024 33.5 ; 100.8 21.2 -18.2 -50.0 -53.8
85.75 43.25 60.0 ; 2024 34.1 ; 112.7 23.5 -19.9 -53.8 -66.7
85.75 43.75 180.2 ; 2025 30.8 ; 104.0 18.0 -18.7 -49.1 -46.7
85.75 46.75 23.0 ; 2008 22.6 ; 112.0 15.5 -40.9 -62.7 -68.5
85.75 48.75 1.0 ; 1997 12.3 ; 93.3 1.3 -37.4 -65.0 -95.8
85.75 49.25 4.1 ; 1997 11.9 ; 62.4 -0.1 -36.6 -66.7 -96.2
85.75 49.75 23.1 ; 2000 13.0 ; 65.1 3.4 -41.4 -65.5 -91.2
86.25 27.75 112.3 ; 2042 28.9 ; 124.3 -2.7 -13.8 -19.2 -38.8

86.25 28.25 384.4 ; 2039 34.7 ; 202.8 5.8 -13.2 -22.6 -27.1
86.25 28.75 7.3 ; 2029 31.4 ; 206.9 9.8 -20.8 -34.2 -58.1
86.25 29.25 28.1 ; 2022 27.6 ; 109.0 16.7 -19.6 -54.1 -64.9
86.25 29.75 48.7 ; 2022 29.5 ; 118.4 19.0 -19.7 -55.4 -66.2
86.25 30.25 107.7 ; 2024 33.8 ; 109.8 20.3 -18.7 -49.0 -53.3
86.25 30.75 93.7 ; 2032 41.6 ; 103.6 19.7 -14.8 -29.3 -21.5
86.25 31.25 2.9 ; 2022 34.1 ; 125.0 24.1 -19.4 -57.3 -62.9
86.25 37.25 4.3 ; 2022 30.1 ; 149.2 24.4 -19.9 -55.5 -71.2
86.25 43.25 1.0 ; 2018 25.0 ; 144.0 16.9 -19.6 -62.1 -87.9
86.25 43.75 151.1 ; 2025 32.6 ; 110.5 19.0 -19.4 -48.7 -43.4
86.25 49.25 2.1 ; 1997 12.0 ; 66.6 0.2 -36.5 -65.9 -96.1
86.25 49.75 55.9 ; 2000 14.1 ; 78.5 8.1 -40.9 -66.0 -77.5
86.75 27.75 497.6 ; 2044 33.7 ; 104.5 -1.2 -11.8 -17.6 -12.8
86.75 28.25 579.4 ; 2039 37.0 ; 190.3 9.5 -11.8 -19.1 -2.6
86.75 28.75 1.8 ; 2021 25.3 ; 136.6 15.3 -19.6 -54.2 -77.9
86.75 29.75 28.7 ; 2023 27.4 ; 107.4 17.9 -18.6 -54.0 -59.1
86.75 30.25 61.8 ; 2028 35.7 ; 112.4 21.1 -17.9 -44.8 -48.1
86.75 30.75 0.7 ; 2019 30.0 ; 235.9 24.7 -21.6 -61.6 -62.6
86.75 31.25 45.5 ; 2026 34.7 ; 108.6 20.5 -19.7 -51.5 -66.5
86.75 31.75 2.5 ; 2020 27.7 ; 178.0 19.0 -17.3 -56.2 -43.5
86.75 32.25 2.8 ; 2033 50.8 ; 138.8 23.3 -10.5 -37.1 -23.7
86.75 34.25 28.4 ; 2029 41.0 ; 107.6 27.4 -18.4 -40.5 -41.5
86.75 36.25 0.8 ; 2021 23.2 ; 144.8 11.5 -24.1 -58.6 -9999.0
86.75 36.75 2.1 ; 2022 24.6 ; 107.7 14.6 -17.8 -55.4 -72.4
86.75 37.25 6.0 ; 2022 34.2 ; 137.5 21.5 -19.4 -52.0 -52.1
86.75 37.75 18.2 ; 2026 29.3 ; 97.2 17.3 -18.8 -46.6 -59.5
86.75 42.75 18.5 ; 2020 24.5 ; 116.9 17.0 -18.9 -53.4 -66.2
86.75 43.25 147.9 ; 2022 27.4 ; 109.8 18.7 -19.6 -55.9 -66.3
86.75 48.75 0.3 ; 2006 17.8 ; 145.4 6.1 -35.9 -61.6 -9999.0
86.75 49.25 30.1 ; 2000 13.2 ; 73.5 4.1 -41.7 -66.8 -91.7
86.75 49.75 152.1 ; 2009 18.4 ; 90.4 8.5 -36.0 -56.9 -47.8
87.25 27.75 304.8 ; 2045 28.9 ; 39.1 -5.4 -13.9 -17.2 -17.4
87.25 28.25 143.5 ; 2038 35.7 ; 141.9 11.4 -14.2 -26.7 -34.5
87.25 28.75 37.3 ; 2025 31.8 ; 97.6 19.5 -21.1 -51.0 -61.6
87.25 29.25 32.3 ; 2025 36.0 ; 113.2 23.1 -19.7 -50.5 -49.6
87.25 29.75 62.0 ; 2024 29.6 ; 107.0 19.4 -19.3 -53.1 -59.5
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88.75 43.25 65.4 ; 2022 31.6 ; 111.0 19.9 -20.1 -52.9 -59.4
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88.75 48.25 26.7 ; 2004 16.2 ; 83.3 9.8 -41.9 -64.2 -75.9
88.75 48.75 4.1 ; 1999 11.0 ; 51.7 0.7 -39.4 -65.8 -92.1
88.75 49.25 51.3 ; 2004 17.9 ; 91.7 9.0 -44.8 -63.2 -72.1

88.75 50.25 1.7 ; 1997 9.5 ; 47.0 -2.3 -35.1 -61.5 -92.9
88.75 54.25 0.6 ; 1995 6.2 ; 33.6 -2.9 -30.6 -56.0 -97.9
89.25 27.75 102.0 ; 2021 19.3 ; 36.7 0.0 -14.8 -28.7 -42.1
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89.25 29.75 0.1 ; 2022 26.6 ; 217.7 17.4 -16.6 -54.7 -16.0
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89.25 34.75 39.1 ; 2031 55.0 ; 121.4 23.9 -12.4 -31.1 -25.8
89.25 35.75 101.5 ; 2038 59.6 ; 125.1 31.3 -11.7 -28.1 -21.3
89.25 36.75 6.4 ; 2013 23.4 ; 116.2 16.1 -18.2 -56.2 -67.4
89.25 37.75 15.5 ; 2029 39.7 ; 131.5 20.9 -18.3 -46.4 -60.0
89.25 38.25 89.8 ; 2029 40.4 ; 101.6 20.9 -18.4 -45.6 -42.4
89.25 43.25 38.2 ; 2022 26.5 ; 101.3 18.2 -19.9 -56.6 -66.0
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89.25 47.75 0.5 ; 1996 8.0 ; 36.2 -5.8 -37.1 -66.2 -97.0
89.25 48.75 6.5 ; 2004 14.4 ; 94.4 13.8 -42.3 -64.3 -81.7
89.25 49.25 2.3 ; 2005 14.2 ; 79.9 7.8 -41.4 -69.1 -93.0
89.25 49.75 3.6 ; 2007 19.4 ; 99.6 9.1 -45.0 -64.6 -79.9
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89.25 51.25 3.0 ; 1997 12.9 ; 68.4 1.3 -39.5 -67.2 -95.6
89.25 53.75 3.0 ; 1996 6.7 ; 38.2 -3.4 -33.4 -60.4 -97.1
89.25 54.25 0.6 ; 2002 12.1 ; 57.9 3.1 -37.3 -64.9 -93.7
89.75 27.75 39.9 ; 2024 21.4 ; 46.2 -0.2 -11.4 -28.8 -43.9
89.75 28.25 321.8 ; 2023 21.6 ; 51.3 1.4 -15.7 -31.9 -40.0
89.75 28.75 0.5 ; 2027 20.2 ; 115.2 16.7 -16.6 -56.7 -57.8
89.75 29.25 0.2 ; 2020 19.6 ; 167.8 13.8 -18.8 -60.6 -96.4
89.75 29.75 20.5 ; 2020 27.3 ; 109.9 16.3 -19.1 -55.5 -65.7
89.75 30.25 23.4 ; 2023 34.2 ; 118.5 20.3 -19.4 -51.3 -63.4
89.75 33.75 218.5 ; 2035 66.6 ; 114.6 27.0 -5.2 -14.8 -6.9
89.75 34.75 41.0 ; 2030 53.4 ; 141.0 22.0 -21.5 -37.6 -17.5
89.75 35.75 87.4 ; 2034 41.7 ; 63.1 13.7 -15.2 -28.0 -29.0
89.75 36.25 55.9 ; 2025 30.5 ; 108.8 20.2 -20.0 -53.3 -65.6
89.75 36.75 53.6 ; 2022 27.7 ; 116.8 18.0 -19.7 -54.9 -68.2
89.75 38.25 4.9 ; 2036 45.8 ; 190.4 27.4 -13.4 -40.1 -42.5
89.75 43.25 20.1 ; 2023 28.4 ; 110.2 20.0 -18.4 -55.4 -59.9
89.75 43.75 20.0 ; 2021 24.6 ; 126.2 17.5 -19.5 -57.7 -75.4
89.75 47.75 3.2 ; 1998 8.9 ; 52.0 -1.3 -37.5 -65.6 -96.5
89.75 48.75 0.4 ; 2000 9.7 ; 85.8 -0.6 -34.6 -64.2 -98.6
89.75 49.25 24.4 ; 2009 21.3 ; 93.0 12.2 -38.9 -63.9 -67.9
89.75 50.75 16.9 ; 1999 13.6 ; 77.1 3.6 -39.3 -66.3 -87.3
89.75 51.25 0.6 ; 1997 13.5 ; 70.8 -0.7 -39.6 -67.5 -97.0
89.75 68.75 0.1 ; 2003 21.2 ; 51.4 19.3 -22.0 -45.3 -9999.0
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92.75 46.75 6.8 ; 2013 44.9 ; 130.3 18.4 -41.5 -62.1 -9999.0
93.25 27.75 4.7 ; 1994 3.1 ; -52.1 -57.8 -65.2 -70.0 -70.3
93.25 28.75 122.1 ; 2024 15.4 ; 21.9 -0.1 -17.9 -37.6 -14.4
93.25 29.25 14.0 ; 2020 25.2 ; 126.2 18.4 -17.2 -55.4 -66.3
93.25 29.75 128.3 ; 2022 30.9 ; 112.3 20.5 -20.3 -54.1 -62.0
93.25 30.25 326.9 ; 2028 36.3 ; 89.4 16.9 -17.9 -41.0 -25.7
93.25 30.75 74.3 ; 2025 31.1 ; 108.5 17.9 -18.6 -50.2 -56.4
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93.25 31.75 104.4 ; 2033 43.2 ; 108.0 9.7 -16.4 -31.5 24.7
93.25 32.25 2.9 ; 2017 23.2 ; 110.9 15.2 -18.4 -59.3 -75.5
93.25 32.75 15.0 ; 2022 26.1 ; 118.1 17.4 -18.0 -55.0 -74.0
93.25 33.25 36.6 ; 2026 31.8 ; 105.9 20.0 -19.8 -53.3 -64.2
93.25 33.75 0.4 ; 2016 30.3 ; 217.5 24.2 -20.1 -60.4 -9999.0
93.25 34.25 0.3 ; 2014 21.9 ; 149.1 9.3 -17.0 -60.7 -94.2
93.25 35.75 115.9 ; 2027 38.6 ; 105.7 21.7 -19.0 -42.8 -22.8
93.25 46.75 7.2 ; 2005 22.4 ; 116.9 13.8 -40.7 -67.9 -77.1
93.75 28.75 43.6 ; 2024 22.3 ; 41.4 7.6 -18.4 -44.1 -17.0
93.75 29.25 23.0 ; 2030 45.0 ; 110.1 25.5 -17.6 -39.3 -10.5

93.75 29.75 54.0 ; 2022 30.6 ; 120.3 19.3 -20.3 -54.9 -69.1
93.75 30.25 852.3 ; 2033 37.3 ; 44.0 7.4 -17.1 -29.5 -22.0
93.75 30.75 352.0 ; 2027 36.8 ; 108.1 22.5 -18.9 -47.0 -44.0
93.75 31.25 139.6 ; 2025 33.5 ; 94.5 18.7 -18.7 -47.6 -48.9
93.75 31.75 2.2 ; 2020 37.9 ; 169.0 28.6 -19.2 -53.3 3.0
93.75 32.25 7.5 ; 2017 27.1 ; 117.2 17.3 -19.3 -56.9 -73.3
93.75 32.75 2.5 ; 2025 32.4 ; 183.8 22.0 -21.4 -57.2 -67.9
93.75 33.25 0.3 ; 2027 30.9 ; 225.6 9.9 -16.7 -51.1 -9999.0
93.75 34.25 3.7 ; 2024 28.0 ; 181.2 23.4 -18.6 -51.1 -50.8
93.75 35.25 21.2 ; 2027 45.5 ; 134.3 24.6 -18.6 -38.6 -50.0
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93.75 39.25 51.8 ; 2027 39.3 ; 116.5 24.0 -18.7 -47.9 -56.3
93.75 46.75 7.8 ; 2013 22.1 ; 106.1 14.9 -43.7 -64.3 -82.8
94.25 29.25 18.1 ; 2024 32.6 ; 105.1 21.1 -17.5 -45.5 -41.6
94.25 29.75 10.4 ; 2024 36.2 ; 120.6 22.4 -16.4 -50.6 -60.3
94.25 30.25 792.9 ; 2028 31.7 ; 29.7 4.7 -17.0 -30.4 -3.2
94.25 30.75 444.1 ; 2032 39.0 ; 57.5 13.3 -14.3 -29.9 -16.9
94.25 31.25 24.9 ; 2023 26.6 ; 118.2 19.1 -18.1 -56.8 -66.5
94.25 31.75 3.8 ; 2023 32.9 ; 147.4 21.9 -22.1 -52.7 -57.9
94.25 32.25 22.9 ; 2022 27.1 ; 125.3 17.0 -18.9 -55.9 -67.6
94.25 32.75 11.8 ; 2020 27.5 ; 125.7 20.5 -20.6 -57.6 -77.6
94.25 33.25 0.9 ; 2017 26.1 ; 115.6 17.5 -18.0 -59.3 -77.7
94.25 35.25 14.6 ; 2021 35.2 ; 120.7 26.5 -21.6 -54.2 -65.0
94.25 35.75 94.6 ; 2029 42.3 ; 95.9 21.5 -18.0 -42.4 -42.4
94.75 29.25 87.9 ; 2027 23.1 ; 23.2 5.1 -14.8 -33.0 -12.4
94.75 29.75 247.9 ; 2032 47.5 ; 63.8 12.1 -13.4 -23.4 -22.7
94.75 30.25 704.8 ; 2032 39.0 ; 39.8 5.8 -13.2 -25.5 -5.6
94.75 30.75 467.3 ; 2033 33.0 ; 24.1 0.3 -15.9 -22.0 -3.1
94.75 31.25 214.0 ; 2032 39.1 ; 59.7 15.4 -11.7 -26.4 -9.0
94.75 31.75 214.7 ; 2030 36.5 ; 72.7 12.5 -15.9 -32.5 -17.8
94.75 32.25 9.6 ; 2022 27.4 ; 127.9 20.8 -18.1 -53.9 -69.5
94.75 32.75 1.0 ; 2021 34.3 ; 187.6 22.3 -23.8 -60.5 -83.3
94.75 33.25 7.0 ; 2018 23.5 ; 127.6 15.1 -18.1 -56.4 -76.2
94.75 33.75 148.4 ; 2027 38.7 ; 99.1 21.6 -20.0 -45.0 -39.1
94.75 34.25 1.4 ; 2015 25.1 ; 140.3 13.3 -21.1 -59.9 -71.5
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95.25 29.75 383.4 ; 2036 23.1 ; 6.8 -2.8 -13.0 -20.9 -10.3
95.25 30.25 745.3 ; 2037 23.8 ; 20.8 -0.9 -11.6 -19.9 -7.2
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95.25 34.25 2.4 ; 2023 29.3 ; 135.6 17.2 -16.7 -53.4 -59.3
95.25 35.75 8.6 ; 2017 25.2 ; 127.3 21.2 -20.1 -59.7 -74.5
95.25 37.25 3.0 ; 2015 25.0 ; 168.6 16.4 -21.7 -61.0 -89.6
95.25 37.75 21.4 ; 2029 39.1 ; 150.2 24.7 -20.6 -48.8 -55.2
95.25 38.25 1.8 ; 2029 42.4 ; 264.8 33.3 -20.7 -50.8 -60.3
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95.25 54.25 1.4 ; 2003 26.8 ; 147.7 10.5 -46.7 -66.9 -92.6
95.75 29.25 83.9 ; 2030 8.9 ; 7.5 -9.1 -11.5 -25.1 -8.1
95.75 29.75 506.9 ; 2032 10.9 ; 10.6 -9.3 -13.0 -23.9 -10.8

95.75 30.25 460.0 ; 2035 20.3 ; 42.6 -0.9 -9.4 -21.7 -5.1
95.75 30.75 13.9 ; 2032 26.2 ; 113.8 6.5 -7.9 -29.4 -36.1
95.75 31.25 205.4 ; 2031 52.6 ; 86.0 21.8 -12.9 -25.5 -21.2
95.75 31.75 6.1 ; 2042 88.3 ; 206.0 43.6 3.4 -22.8 39.6
95.75 33.25 0.2 ; 2014 27.8 ; 241.7 81.4 -19.4 -62.7 -20.7
95.75 33.75 17.8 ; 2024 36.5 ; 111.5 20.8 -21.7 -50.9 -53.0
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95.75 38.25 51.9 ; 2033 46.0 ; 107.9 24.1 -13.9 -37.9 -43.7
95.75 38.75 10.4 ; 2022 30.3 ; 128.4 17.9 -21.3 -56.6 -64.1
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95.75 53.75 4.9 ; 2001 16.7 ; 80.8 5.4 -41.3 -65.5 -93.0
95.75 54.25 0.8 ; 1999 13.8 ; 89.5 0.7 -40.7 -67.7 -98.3
96.25 28.75 42.9 ; 2007 5.4 ; -9.6 -14.8 -21.1 -34.4 -28.6
96.25 29.25 731.9 ; 2015 6.1 ; 6.5 -11.0 -17.5 -31.1 -23.2
96.25 29.75 677.9 ; 2028 9.8 ; 23.3 -6.6 -13.5 -29.4 -27.3
96.25 30.25 51.6 ; 2025 14.6 ; 87.7 2.3 -11.8 -36.9 -50.5
96.25 31.25 37.3 ; 2036 67.9 ; 128.0 39.2 -16.5 -28.9 -11.8
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96.25 38.25 147.6 ; 2030 43.4 ; 93.1 20.7 -18.0 -40.0 -34.5
96.25 38.75 73.2 ; 2028 39.1 ; 106.6 23.2 -19.7 -46.8 -52.3
96.25 39.25 8.8 ; 2027 36.5 ; 116.2 19.8 -20.0 -48.5 -59.4
96.25 39.75 23.1 ; 2024 37.5 ; 102.4 17.4 -18.9 -48.2 -55.9
96.25 53.75 3.5 ; 1999 14.5 ; 70.5 4.4 -41.0 -67.9 -95.5
96.25 54.25 1.2 ; 2006 18.7 ; 112.7 5.8 -36.8 -60.5 -94.1
96.75 28.25 25.8 ; 1997 3.9 ; -12.8 -24.7 -42.0 -55.6 -51.7
96.75 28.75 73.9 ; 2002 4.5 ; -3.2 -11.9 -18.8 -34.1 -30.5
96.75 29.25 1030.1 ; 2011 6.6 ; 4.3 -12.1 -20.5 -29.8 -20.3
96.75 29.75 196.1 ; 2030 12.5 ; 62.7 -1.9 -12.5 -33.3 -47.2
96.75 30.25 183.3 ; 2029 13.7 ; 76.6 0.1 -12.3 -36.4 -42.8
96.75 35.75 5.6 ; 2021 27.6 ; 102.7 14.9 -21.3 -57.5 -69.4
96.75 38.25 19.8 ; 2028 40.9 ; 124.5 25.5 -15.6 -44.0 -37.4
96.75 38.75 180.7 ; 2028 40.0 ; 91.4 20.9 -17.9 -41.6 -34.1
96.75 39.25 158.2 ; 2027 37.1 ; 102.7 19.9 -15.9 -39.9 -37.1
96.75 39.75 6.1 ; 2018 28.1 ; 122.8 18.5 -20.3 -57.0 -75.8
96.75 53.75 1.8 ; 1997 11.7 ; 59.8 -0.7 -39.0 -66.9 -94.9
97.25 28.25 21.8 ; 2017 11.5 ; 13.7 -5.7 -10.9 -28.9 -21.7
97.25 28.75 161.4 ; 2004 6.2 ; 1.5 -11.9 -19.3 -35.2 -27.3
97.25 29.25 504.9 ; 2030 9.0 ; 27.8 -7.2 -14.6 -31.8 -29.6
97.25 30.25 130.9 ; 2024 16.3 ; 107.7 4.4 -11.9 -41.9 -71.8
97.25 35.75 0.9 ; 2015 27.3 ; 256.2 30.2 -18.6 -62.6 -78.3
97.25 37.75 2.3 ; 2020 24.6 ; 135.1 15.8 -17.8 -55.2 -77.3
97.25 38.25 47.5 ; 2029 38.2 ; 126.2 23.1 -18.1 -46.0 -47.6
97.25 38.75 215.2 ; 2030 43.5 ; 113.5 24.6 -17.0 -40.9 -42.1
97.25 39.25 5.0 ; 2016 29.3 ; 158.0 23.8 -19.7 -58.9 -59.1
97.25 39.75 0.2 ; 2024 29.5 ; 229.9 13.4 -17.3 -49.0 -9999.0
97.75 28.25 51.9 ; 2010 9.3 ; 4.8 -8.8 -13.4 -31.0 -25.2
97.75 28.75 17.5 ; 2016 11.7 ; 10.8 -7.5 -12.0 -30.7 -25.4
97.75 29.25 184.1 ; 2029 11.0 ; 24.6 -5.4 -12.6 -31.9 -24.7
97.75 29.75 143.1 ; 2027 15.0 ; 78.7 -0.2 -10.7 -35.5 -52.8
97.75 35.25 2.2 ; 2015 22.5 ; 104.2 12.3 -20.5 -58.0 -75.4
97.75 35.75 0.3 ; 2018 17.8 ; 186.0 16.0 -19.5 -64.4 -96.3
97.75 38.25 21.8 ; 2023 31.7 ; 119.8 22.4 -18.4 -52.2 -63.5
97.75 38.75 37.0 ; 2025 30.8 ; 114.8 19.4 -19.2 -52.7 -55.3
97.75 39.25 10.5 ; 2021 26.9 ; 98.2 18.5 -21.4 -60.1 -74.8

98.25 28.25 1.8 ; 2015 13.9 ; -7.3 -7.8 -11.1 -25.6 -4.0
98.25 28.75 103.8 ; 2023 13.1 ; 21.8 -6.6 -12.7 -30.3 -22.8
98.25 29.25 11.7 ; 2024 16.3 ; 23.3 -9.7 -14.7 -29.8 -23.5
98.25 37.75 5.0 ; 2017 23.4 ; 106.1 13.9 -19.6 -58.8 -69.8
98.25 38.25 88.3 ; 2029 45.1 ; 109.5 23.7 -15.5 -38.7 -49.9
98.25 38.75 0.4 ; 2023 20.7 ; 136.6 10.4 -18.7 -60.1 -88.1
98.25 39.25 11.8 ; 2023 28.4 ; 115.4 20.0 -19.2 -54.4 -70.3
98.25 39.75 23.4 ; 2021 29.1 ; 120.6 21.9 -18.9 -50.5 -71.7
98.25 53.25 0.3 ; 1999 20.2 ; 93.9 0.8 -44.4 -68.4 -9999.0
98.75 27.75 0.7 ; 2017 15.6 ; -1.2 -4.7 -11.0 -29.5 0.9
98.75 28.25 113.5 ; 2022 13.7 ; -3.4 -12.2 -17.3 -25.3 -17.2
98.75 28.75 44.5 ; 2019 12.5 ; -4.0 -13.2 -15.9 -24.1 -15.8
98.75 31.75 11.1 ; 2023 29.9 ; 117.0 15.3 -19.5 -48.9 -63.7
98.75 32.25 20.8 ; 2024 35.1 ; 115.8 22.8 -21.9 -49.4 -59.5
98.75 34.75 67.7 ; 2029 43.2 ; 102.7 19.6 -17.6 -40.2 -39.8
98.75 37.75 0.1 ; 2014 22.3 ; 242.7 13.5 -22.9 -63.3 -81.2
98.75 38.25 84.1 ; 2030 43.4 ; 100.4 23.8 -17.2 -43.3 -44.0
98.75 39.25 7.2 ; 2026 27.0 ; 119.0 18.6 -17.4 -50.5 -54.0
98.75 39.75 149.8 ; 2023 32.5 ; 99.6 19.5 -19.5 -49.8 -48.3
98.75 52.25 3.1 ; 2001 16.0 ; 99.4 12.8 -41.3 -67.3 -90.5
98.75 52.75 8.7 ; 2000 14.0 ; 74.6 4.7 -39.5 -65.0 -94.5
99.25 28.25 0.7 ; 2016 12.7 ; 3.3 -8.6 -12.0 -29.6 -25.0
99.25 30.25 18.2 ; 2030 20.4 ; 87.2 -8.7 -15.7 -32.5 -57.1
99.25 30.75 23.7 ; 2040 25.2 ; 100.4 -8.5 -12.5 -22.3 5.8
99.25 31.25 201.8 ; 2001 5.2 ; 52.9 -28.7 -65.7 -75.9 -97.3
99.25 31.75 48.8 ; 2045 31.2 ; 63.8 -2.3 -11.2 -18.8 -4.3
99.25 34.25 0.5 ; 2031 19.8 ; 181.2 14.7 -19.7 -56.7 8.2
99.25 35.75 1.2 ; 2019 23.1 ; 144.0 12.9 -17.8 -55.1 -74.4
99.25 38.25 0.8 ; 2022 20.4 ; 129.2 14.3 -21.9 -62.4 -90.6
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99.25 39.25 15.7 ; 2018 23.5 ; 114.5 16.6 -18.1 -56.9 -72.0
99.25 39.75 100.1 ; 2027 36.7 ; 114.0 20.8 -19.3 -48.4 -49.4
99.25 51.75 0.5 ; 1997 14.4 ; 78.5 -0.3 -40.1 -67.5 -97.0
99.25 52.25 1.0 ; 2003 20.4 ; 126.3 4.4 -42.1 -65.3 -95.8
99.25 52.75 0.1 ; 1995 13.7 ; 80.2 0.5 -38.6 -69.3 -9999.0
99.75 28.25 1.4 ; 2017 13.7 ; 21.0 -7.7 -14.0 -34.3 -24.7
99.75 29.75 51.6 ; 2028 19.1 ; 81.8 -8.9 -15.8 -31.7 -60.1
99.75 30.25 14.3 ; 2029 20.4 ; 81.7 -9.3 -15.9 -32.4 -58.2
99.75 30.75 18.4 ; 2035 22.2 ; 92.9 -8.5 -15.2 -29.8 -32.0
99.75 31.25 0.5 ; 2031 23.5 ; 136.7 -6.3 -11.1 -31.2 -65.0
99.75 31.75 14.7 ; 2034 25.0 ; 139.6 -6.1 -11.8 -30.1 -41.9
99.75 34.75 62.6 ; 2036 58.2 ; 120.6 27.7 -11.0 -24.4 -38.8
99.75 35.75 1.3 ; 2026 32.4 ; 144.4 31.2 -14.0 -51.0 -39.0
99.75 38.25 7.5 ; 2021 31.3 ; 150.0 24.5 -17.2 -53.4 -52.1
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99.75 39.25 45.1 ; 2022 28.2 ; 112.9 18.8 -20.2 -56.1 -64.5
99.75 39.75 16.2 ; 2026 37.2 ; 141.9 23.4 -20.3 -53.0 -65.7
99.75 51.75 0.5 ; 2000 19.2 ; 133.1 2.4 -48.6 -71.1 -9999.0
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102.75 31.75 3.2 ; 2010 12.9 ; 283.1 8.2 -13.8 -56.7 -83.9
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103.25 31.25 11.9 ; 2015 14.4 ; 261.4 9.0 -17.2 -54.0 -57.2
103.25 31.75 0.9 ; 2015 15.2 ; 253.7 7.5 -16.7 -56.7 -92.5
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117.25 56.75 5.1 ; 2002 15.8 ; 78.4 5.2 -37.3 -63.0 -87.7
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117.75 56.75 8.6 ; 2001 14.2 ; 74.5 6.7 -43.1 -67.8 -87.6
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128.25 68.25 7.4 ; 2004 16.8 ; 132.3 11.8 -36.2 -64.6 -89.9
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138.75 67.25 0.6 ; 2000 17.5 ; 75.4 2.0 -43.1 -69.3 -9999.0
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139.25 65.75 1.0 ; 1999 15.8 ; 87.9 1.0 -43.7 -69.5 -96.3
139.25 66.75 1.2 ; 2000 13.9 ; 85.3 1.6 -42.1 -67.3 -97.4
139.75 66.25 0.5 ; 1997 13.2 ; 57.7 -1.5 -40.3 -66.8 -97.1
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140.75 62.25 13.1 ; 2001 13.9 ; 69.2 4.9 -39.8 -64.0 -77.9
140.75 62.75 60.1 ; 2005 18.9 ; 96.4 12.2 -39.9 -64.0 -68.3
140.75 65.75 8.9 ; 2000 14.2 ; 67.6 3.6 -40.3 -67.4 -92.8
140.75 66.25 1.5 ; 2003 18.6 ; 86.7 10.0 -49.6 -69.6 -95.9
140.75 66.75 0.2 ; 1996 10.5 ; 49.1 -2.9 -36.9 -65.2 -97.1
141.25 61.75 31.9 ; 2006 21.2 ; 95.3 13.2 -42.9 -61.0 -85.4
141.25 62.25 18.7 ; 2004 18.2 ; 92.3 12.1 -43.7 -67.5 -78.1
141.25 62.75 1.0 ; 2006 13.5 ; 93.2 6.4 -34.1 -60.8 -90.1
141.25 65.75 0.2 ; 1997 12.4 ; 76.8 0.2 -35.7 -66.2 -97.1
141.75 61.75 28.3 ; 2009 21.5 ; 104.6 13.8 -41.1 -63.7 -69.7
141.75 62.25 2.8 ; 2010 17.4 ; 91.9 13.4 -40.0 -64.9 -86.0
141.75 65.25 3.3 ; 2002 18.1 ; 92.7 8.1 -45.8 -72.2 -94.3
141.75 65.75 0.8 ; 1998 15.6 ; 136.4 3.3 -42.6 -66.2 -9999.0
142.25 61.75 0.8 ; 2004 25.4 ; 124.4 4.5 -43.9 -64.4 -9999.0
142.25 65.25 2.2 ; 1999 14.4 ; 76.0 5.6 -42.7 -69.0 -95.9
142.75 65.75 0.8 ; 1998 13.6 ; 66.3 2.0 -37.9 -67.7 -96.9
143.75 61.75 2.1 ; 2000 16.2 ; 93.6 2.1 -43.0 -68.2 -95.4
144.25 64.75 0.2 ; 1995 11.4 ; 66.7 -1.5 -36.0 -65.9 -98.4
144.75 66.75 1.8 ; 2001 14.0 ; 84.9 7.1 -39.8 -64.8 -92.7
145.25 64.75 0.2 ; 1996 14.9 ; 83.8 -0.8 -36.5 -68.5 -98.7
145.25 65.25 0.9 ; 1996 9.8 ; 61.6 -0.7 -34.4 -62.1 -98.0
145.75 65.25 18.7 ; 2004 18.0 ; 71.2 9.3 -39.1 -57.9 -77.0
146.25 64.75 0.7 ; 2002 14.2 ; 62.7 1.3 -41.6 -68.4 -99.1
146.25 65.25 47.2 ; 2010 18.2 ; 105.7 12.6 -38.0 -60.3 -55.2
146.75 65.75 0.2 ; 1995 13.7 ; 80.2 0.5 -38.6 -69.3 -9999.0
148.75 76.25 63.9 ; 2040 79.8 ; 269.5 48.3 -26.7 -30.0 220.6
149.25 65.25 0.2 ; 1996 10.5 ; 49.1 -2.9 -36.9 -65.2 -97.1
149.25 76.25 4.6 ; 2012 42.0 ; 186.8 4.1 -49.6 -61.8 -82.1
156.75 51.25 3.0 ; 2000 15.6 ; 78.2 3.3 -42.1 -64.4 -93.2
157.75 55.75 22.0 ; 2011 23.0 ; 107.2 17.2 -43.9 -64.1 -77.3
157.75 56.25 7.5 ; 2013 26.8 ; 129.9 28.6 -38.2 -63.0 -73.8
158.25 52.25 2.0 ; 2003 16.7 ; 96.8 6.8 -43.1 -68.1 -92.2
158.25 53.25 3.8 ; 2001 15.7 ; 84.5 8.0 -45.7 -70.7 -94.4
158.25 53.75 7.5 ; 2002 15.7 ; 88.1 8.1 -42.8 -70.4 -91.4
158.25 54.25 1.4 ; 2009 16.1 ; 90.2 14.8 -35.4 -62.3 -69.0
158.75 53.25 12.7 ; 2006 19.3 ; 108.7 15.2 -42.0 -65.9 -89.6
159.25 53.75 5.3 ; 2004 19.8 ; 111.5 10.8 -43.1 -66.1 -91.9
159.25 56.75 34.9 ; 2022 29.2 ; 122.9 15.1 -41.4 -60.3 -64.5
159.75 56.25 0.7 ; 2002 26.5 ; 232.4 8.3 -53.2 -70.4 -9999.0
159.75 56.75 26.8 ; 2013 25.9 ; 129.2 17.5 -39.9 -61.5 -73.1
159.75 57.25 8.2 ; 2010 17.6 ; 97.2 17.3 -39.6 -63.8 -85.7
160.25 54.25 0.9 ; 2002 20.5 ; 154.5 9.8 -43.1 -72.2 -94.6
160.25 55.25 0.3 ; 1998 18.3 ; 119.4 9.1 -39.6 -69.5 -97.5
160.25 55.75 34.0 ; 2014 26.1 ; 111.8 17.3 -38.5 -60.0 -72.7
160.25 56.25 51.0 ; 2022 32.2 ; 213.0 41.2 -38.3 -54.5 -51.4
160.25 56.75 27.8 ; 2020 21.5 ; 121.9 15.8 -28.9 -57.8 -58.5
160.25 57.75 94.7 ; 2025 29.1 ; 230.1 36.7 -28.9 -48.4 -25.4
160.25 58.25 39.4 ; 2021 21.7 ; 100.4 21.8 -31.9 -56.6 -44.7
160.75 54.75 5.3 ; 2015 21.1 ; 104.8 13.0 -39.0 -58.9 -81.3
160.75 55.25 1.3 ; 2009 23.4 ; 169.6 13.3 -42.8 -69.0 -9999.0
160.75 55.75 0.1 ; 1995 13.7 ; 80.2 0.5 -38.6 -69.3 -9999.0
160.75 56.25 143.1 ; 2030 40.5 ; 235.0 49.1 -23.6 -40.1 -28.8
160.75 57.25 10.7 ; 2004 18.4 ; 108.1 14.1 -43.3 -69.0 -93.3
160.75 57.75 80.6 ; 2011 23.6 ; 116.6 22.4 -41.6 -61.7 -86.5

160.75 58.25 27.8 ; 2025 35.2 ; 104.0 10.4 -43.3 -61.3 -55.1
160.75 58.75 55.8 ; 2003 17.4 ; 94.8 13.0 -42.1 -66.4 -78.1
160.75 61.75 0.2 ; 2005 14.5 ; 97.7 3.4 -40.4 -65.6 -9999.0
161.25 54.75 15.4 ; 2020 47.6 ; 139.7 9.3 -41.9 -56.8 -9999.0
161.25 55.25 10.1 ; 2000 15.0 ; 70.2 4.1 -41.3 -67.0 -85.4
161.25 56.25 2.3 ; 2006 15.4 ; 59.0 2.8 -42.1 -64.3 -93.4
161.25 56.75 30.6 ; 2015 29.7 ; 98.4 18.4 -38.0 -51.5 -48.4
161.25 58.25 5.1 ; 2003 13.5 ; 89.7 10.1 -40.4 -64.1 -83.1
161.25 58.75 29.9 ; 2003 16.4 ; 83.1 8.9 -41.9 -64.3 -74.1
161.25 61.75 0.2 ; 1996 8.6 ; 39.8 -3.6 -37.1 -66.7 -9999.0
161.25 62.25 0.1 ; 1996 9.3 ; 66.6 -3.9 -36.9 -64.3 -9999.0
161.75 54.75 55.2 ; 2018 21.5 ; 136.0 26.8 -32.0 -60.2 -63.6
161.75 55.25 21.8 ; 2020 32.9 ; 94.3 10.0 -35.6 -53.6 -63.3
161.75 61.25 0.7 ; 1997 8.9 ; 56.9 -1.6 -36.5 -64.8 -97.9
161.75 61.75 2.2 ; 1996 8.0 ; 48.6 -2.2 -35.8 -64.5 -97.5
162.25 61.75 0.6 ; 1996 7.9 ; 43.4 -3.6 -34.4 -63.6 -96.3
166.25 60.25 8.5 ; 1999 14.2 ; 80.5 4.6 -40.3 -66.6 -85.5
166.75 60.25 10.8 ; 1999 14.6 ; 75.3 3.7 -40.8 -64.4 -87.6
166.75 60.75 3.0 ; 1999 13.6 ; 78.8 0.4 -41.1 -68.4 -96.8
167.25 60.75 5.3 ; 2002 15.3 ; 81.2 6.0 -42.0 -67.8 -92.4
167.75 -45.25 5.0 ; 2035 28.0 ; -1.5 -4.5 -9.0 -19.2 -26.1
167.75 -44.75 33.0 ; 2035 27.5 ; -0.4 -5.7 -10.1 -21.3 -22.3
167.75 60.75 1.4 ; 2002 15.2 ; 72.4 2.6 -42.1 -69.6 -95.1
168.25 -44.75 10.0 ; 2035 29.1 ; -0.8 -5.8 -9.8 -19.9 -21.8
168.25 -44.25 260.5 ; 2035 26.0 ; -2.6 -8.0 -12.1 -20.8 -14.6
168.25 60.75 0.2 ; 1998 9.9 ; 51.1 -1.3 -34.1 -66.2 -9999.0
168.75 -44.75 13.9 ; 2035 27.9 ; -0.2 -5.8 -10.7 -21.7 -21.6
168.75 -44.25 12.6 ; 2035 27.8 ; -0.8 -5.4 -9.4 -21.2 -24.3
169.25 -44.25 21.6 ; 2036 27.9 ; -0.4 -6.5 -11.2 -21.8 -17.5
169.25 -43.75 30.2 ; 2035 27.7 ; -0.6 -5.3 -10.0 -21.1 -23.1
169.25 61.25 0.1 ; 1995 13.7 ; 80.2 0.5 -38.6 -69.3 -9999.0
169.75 -44.25 3.7 ; 2034 26.9 ; -2.2 -4.6 -9.3 -19.9 -25.9
169.75 -43.75 118.7 ; 2035 26.0 ; -1.9 -7.5 -11.8 -22.1 -18.8
169.75 60.25 0.1 ; 1995 10.8 ; 80.2 -0.9 -34.0 -63.6 -97.9
169.75 61.75 0.4 ; 1997 14.7 ; 93.9 4.2 -37.6 -68.0 -97.3
170.25 -43.75 136.6 ; 2037 23.1 ; -7.9 -10.7 -13.3 -20.1 -16.5
170.25 -43.25 347.3 ; 2037 23.5 ; -6.7 -10.8 -13.7 -20.9 -15.7
170.25 60.25 1.2 ; 1997 10.7 ; 60.7 -1.4 -38.2 -65.0 -96.9
170.25 60.75 0.7 ; 1996 10.4 ; 48.8 -2.7 -36.5 -65.4 -96.6
170.25 61.75 0.5 ; 1998 11.6 ; 51.0 -2.7 -38.7 -67.6 -96.8
170.25 62.25 0.1 ; 1995 8.7 ; 62.5 -1.6 -31.9 -63.1 -9999.0
170.75 -43.75 16.6 ; 2034 26.8 ; -1.4 -5.9 -10.8 -21.7 -23.5
170.75 -43.25 109.2 ; 2036 24.7 ; -3.2 -9.1 -13.2 -23.0 -18.6
170.75 60.75 0.6 ; 1996 13.3 ; 62.6 -1.2 -39.1 -67.4 -96.8
170.75 61.25 1.6 ; 1997 12.6 ; 60.7 0.3 -37.4 -68.5 -96.8
170.75 61.75 12.1 ; 2006 19.8 ; 92.7 6.7 -41.9 -67.0 -89.7
170.75 62.25 9.4 ; 2000 15.4 ; 80.6 4.8 -43.6 -66.6 -92.0
171.25 -43.75 5.1 ; 2035 25.3 ; -2.4 -7.2 -11.4 -22.8 -22.5
171.25 -42.75 28.4 ; 2035 27.9 ; -1.0 -4.9 -9.4 -20.9 -24.4
171.25 60.75 8.9 ; 1997 12.8 ; 66.8 2.0 -38.6 -67.5 -95.8
171.25 61.25 2.8 ; 1999 13.1 ; 71.6 2.2 -41.2 -67.7 -94.3
171.25 61.75 34.6 ; 2000 14.7 ; 83.5 7.9 -41.3 -66.8 -87.7
171.25 62.25 4.2 ; 2000 14.5 ; 98.2 6.7 -43.7 -68.9 -94.5
171.75 -43.25 2.3 ; 2036 28.5 ; 1.0 -4.4 -9.4 -20.5 -23.3

171.75 -42.75 1.7 ; 2035 28.7 ; -0.1 -4.0 -8.8 -20.3 -26.4
171.75 61.25 10.4 ; 1998 13.3 ; 75.3 3.0 -40.6 -66.0 -94.8
171.75 61.75 44.2 ; 1999 12.9 ; 65.8 3.1 -39.1 -66.3 -92.9
171.75 62.25 6.9 ; 1997 12.3 ; 60.4 1.7 -36.8 -66.2 -94.3
172.25 61.25 15.9 ; 1997 12.1 ; 64.0 1.3 -39.5 -67.1 -94.9
172.25 61.75 47.2 ; 2000 14.8 ; 69.0 4.8 -41.0 -65.2 -83.6
172.75 -42.75 0.1 ; 2037 28.5 ; -6.1 -5.4 -9.8 -16.9 -29.5
172.75 61.25 0.2 ; 1996 10.6 ; 61.5 -1.5 -35.2 -66.0 -9999.0
172.75 62.25 1.4 ; 1997 12.2 ; 57.4 -0.8 -37.8 -67.2 -95.1
173.25 61.75 1.3 ; 1997 12.6 ; 69.1 2.8 -39.2 -67.9 -97.3
175.25 -38.75 5.9 ; 2035 26.9 ; 0.6 -6.3 -11.0 -23.0 -18.9
176.25 62.75 43.8 ; 2000 12.0 ; 62.4 2.2 -38.8 -64.1 -86.8
176.25 63.25 0.1 ; 1996 7.1 ; 51.6 -5.6 -33.7 -58.3 -99.4
176.75 62.75 4.5 ; 1998 9.5 ; 61.0 -1.1 -38.0 -64.5 -97.0
176.75 63.75 3.3 ; 1997 11.5 ; 58.0 -0.2 -38.1 -65.7 -94.5
177.25 63.25 3.8 ; 2003 11.7 ; 67.3 5.7 -33.4 -61.5 -82.1
177.25 63.75 0.9 ; 1998 10.3 ; 63.8 2.5 -38.6 -65.5 -99.2
178.75 70.25 0.1 ; 1994 5.3 ; 24.5 -4.6 -29.2 -52.5 -75.3
178.75 70.75 1.1 ; 1997 4.6 ; 29.6 -4.5 -29.4 -51.1 -93.7
179.25 70.25 0.1 ; 2008 9.3 ; 23.9 -4.2 -25.8 -48.9 -85.5
179.25 70.75 1.1 ; 1995 6.0 ; 35.0 -3.9 -32.3 -57.2 -95.6

Computed year of peak water (PW), runoff increase until peak water (dQ_PW), and glacier runoff change (dQ) between the periods 1990-2010 and 2080-2100 for 0.5x0.5 degree grid cells for RCP4.5.
Results refer to the sum of all glaciers within 0.5x0.5 degree grid cells and are based on the multi-model mean of 14 GCMs.
Glacier runoff is defined as runoff from the initially glacierized area (i.e. including runoff from precipitation and snow melt in the growing deglacierized portions).
Glacier runoff changes are given for the months June to October (northern hemisphere), and December to April (southern hemisphere).
For some months, no evaluation of glacier runoff change was possible (runoff in first period equal to zero). Marked with -9999.
See Methods for additional details. The data refer to those displayed in Figure 2, Suppl. Figure 1, Suppl. Figure 5 and Suppl. Figure 6.
#
Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
#

CenLon. (deg)	CenLat. (deg)	Area (km2)	PW (year)	dQ_PW (%)	dQ_June (%)	dQ_July (%)	dQ_August (%)	dQ_September (%)	dQ_October (%)
-179.25	71.25	0.7	1995	6.4	105.3	21.9	-31.4	-56.3	-58.4
-178.75	71.25	0.2	2019	7.4	79.7	17.4	-24.5	-41.9	-41.1
-178.25	71.25	0.1	2024	7.2	100.1	19.3	-25.9	-44.2	-73.5
-175.75	52.75	4.9	2019	18.7	755.4	158.3	5.0	-60.6	-10.2
-173.75	52.75	13.4	2025	23.1	416.9	70.3	-6.2	-59.4	-38.5
-168.25	53.75	44.0	2024	21.9	140.8	27.2	-23.7	-53.7	-34.4
-166.75	53.75	57.6	2021	20.1	283.4	61.3	-17.0	-58.2	-28.9
-166.25	53.75	1.4	2023	24.9	301.2	41.7	-13.5	-66.4	-26.0
-164.25	54.75	112.7	2044	35.8	250.8	35.9	-14.7	-34.3	31.1
-163.75	54.75	120.6	2028	34.7	266.6	57.2	-13.3	-48.4	-4.9
-162.75	55.25	10.2	2028	29.0	324.6	54.9	-7.8	-56.8	-7.2
-162.25	55.25	6.2	2026	26.1	304.4	51.7	-1.9	-50.8	5.7
-162.25	55.75	13.2	2028	30.2	243.6	39.3	-1.6	-48.6	14.5
-161.75	55.25	61.8	2031	38.0	282.4	63.5	-3.5	-41.0	32.0
-161.25	55.75	0.1	2014	15.4	213.3	31.0	1.3	-49.3	-3.2
-160.25	55.75	73.5	2039	27.9	235.4	47.0	4.0	-40.1	61.9
-159.75	55.75	3.9	2031	25.4	317.3	82.7	0.7	-46.5	17.7
-159.75	56.25	169.9	2057	43.2	230.9	66.9	6.7	-11.7	54.5
-159.75	59.75	3.3	2031	25.2	108.6	33.1	1.8	-47.4	-55.1
-159.25	56.25	132.4	2057	44.2	182.4	54.7	3.7	-9.5	49.4
-159.25	59.75	11.2	2031	24.6	97.2	32.9	4.7	-45.5	-51.3
-159.25	60.25	22.4	2031	29.2	132.5	34.7	-2.2	-44.2	-34.2
-158.75	56.25	6.5	2031	31.1	151.4	26.6	4.6	-40.7	13.0
-158.75	56.75	5.4	2030	27.9	155.5	32.4	3.5	-46.1	42.7
-158.25	56.75	4.6	2031	30.7	136.3	30.6	-2.4	-48.5	12.6
-157.75	56.75	0.1	2014	14.2	84.7	24.9	-0.4	-48.2	9.9
-157.75	57.25	12.3	2031	29.1	153.8	43.8	-3.0	-44.1	16.2
-157.25	56.75	1.9	2031	28.5	130.9	32.4	4.5	-47.5	13.9
-156.75	57.25	111.1	2045	34.9	118.7	22.1	-6.7	-34.6	34.2
-155.75	58.25	4.6	2042	27.5	94.9	29.1	2.1	-37.0	36.7
-155.75	67.25	0.7	2027	36.8	997.0	44.2	-32.4	-51.8	-86.2
-155.75	67.75	1.4	2036	70.8	940.1	111.9	-34.3	-29.0	-91.8
-155.25	58.25	66.5	2045	39.2	191.0	52.6	-0.6	-36.9	24.7
-155.25	58.75	47.6	2051	38.5	152.4	44.1	1.0	-27.2	32.9
-155.25	67.75	6.3	2038	40.6	992.7	41.5	-26.3	-37.5	483.1

-155.25 68.25 0.2 ; 2035 49.9 ; 1000.0 71.8 -33.7 -39.9 80.5
-154.75 58.25 211.5 ; 2054 46.8 ; 121.1 34.1 -1.0 -16.3 63.8
-154.75 58.75 219.5 ; 2052 41.4 ; 97.8 28.8 -2.4 -18.5 42.1
-154.75 59.25 6.3 ; 2031 29.0 ; 149.0 39.0 12.8 -41.6 -4.3
-154.75 67.25 0.9 ; 2025 33.4 ; 1000.0 37.8 -34.4 -54.6 130.6
-154.75 67.75 1.8 ; 2024 35.7 ; 983.7 46.6 -34.6 -49.9 -9.1
-154.75 68.25 4.4 ; 2027 48.9 ; 960.3 68.9 -40.2 -45.7 92.8
-154.25 58.25 29.6 ; 2039 31.7 ; 134.7 36.9 4.3 -35.4 25.5
-154.25 58.75 0.7 ; 2035 31.3 ; 118.6 35.6 7.4 -41.9 35.2
-154.25 60.25 1.5 ; 2029 22.5 ; 87.5 34.3 7.9 -42.5 -0.1
-154.25 61.25 36.9 ; 2037 39.0 ; 336.4 46.9 -12.6 -50.0 5.2
-154.25 61.75 91.5 ; 2046 41.5 ; 230.4 42.7 -13.1 -31.6 141.7
-154.25 62.25 18.9 ; 2035 40.4 ; 309.4 39.2 -21.9 -46.8 -31.3
-154.25 67.25 3.2 ; 2037 36.8 ; 835.6 38.8 -32.8 -44.0 -9999.0
-154.25 67.75 1.2 ; 2023 29.6 ; 959.7 38.0 -36.7 -55.5 15.0
-154.25 68.25 0.6 ; 2024 53.9 ; 997.1 89.6 -44.2 -46.9 5.1
-153.75 58.75 329.2 ; 2048 44.7 ; 72.8 7.7 -20.2 -34.0 26.3
-153.75 59.75 14.9 ; 2031 22.0 ; 99.3 36.2 7.6 -41.6 5.2
-153.75 60.25 378.3 ; 2043 33.6 ; 173.8 41.5 -3.3 -38.7 39.3
-153.75 60.75 162.6 ; 2044 42.9 ; 223.4 49.4 -4.4 -33.2 64.8
-153.75 61.75 416.2 ; 2047 46.9 ; 312.6 48.7 -13.8 -29.8 103.3
-153.75 62.25 3.2 ; 2025 41.1 ; 379.7 54.2 -30.4 -57.6 -73.8
-153.75 67.25 1.0 ; 2025 31.4 ; 948.4 40.1 -36.7 -52.4 -9999.0
-153.75 68.25 1.6 ; 2037 55.2 ; 987.4 65.5 -34.1 -35.1 64.7
-153.25 57.25 24.5 ; 2032 29.1 ; 128.8 32.9 -3.8 -47.4 29.8
-153.25 57.75 4.1 ; 2028 28.9 ; 147.4 38.7 1.1 -51.5 23.0
-153.25 59.75 24.8 ; 2039 29.4 ; 146.9 37.8 -5.9 -34.7 47.6
-153.25 60.25 403.3 ; 2055 38.5 ; 109.9 30.3 -1.6 -23.8 68.4
-153.25 61.25 408.6 ; 2051 44.6 ; 198.5 44.1 -2.5 -24.4 87.4
-153.25 61.75 128.5 ; 2034 43.6 ; 404.5 54.6 -17.6 -54.3 -0.8
-153.25 62.25 5.8 ; 2031 44.1 ; 507.3 50.4 -26.7 -47.0 41.1
-153.25 62.75 1.3 ; 2043 51.6 ; 350.4 44.0 -19.1 -39.3 90.4
-153.25 68.75 0.3 ; 2034 52.5 ; 917.2 77.7 -48.1 -54.0 -87.5
-152.75 57.75 0.8 ; 2022 23.8 ; 92.3 29.6 -6.0 -51.9 9.3
-152.75 60.75 895.1 ; 2060 47.8 ; 142.8 38.5 5.3 -11.8 106.2
-152.75 61.25 615.5 ; 2072 57.0 ; 176.6 44.2 8.2 3.6 138.7
-152.75 62.25 192.5 ; 2049 50.1 ; 244.9 45.8 -5.6 -20.9 264.6
-152.75 62.75 189.4 ; 2054 52.6 ; 258.1 45.3 -4.0 -10.1 238.2
-152.75 68.25 1.7 ; 2034 51.4 ; 1000.0 75.3 -43.6 -49.2 22.4
-152.25 60.75 111.9 ; 2058 40.6 ; 105.1 38.0 7.3 -20.5 91.4
-152.25 61.25 264.8 ; 2056 43.8 ; 128.9 36.4 2.1 -13.5 119.5
-152.25 61.75 597.7 ; 2070 55.1 ; 86.9 30.9 16.0 12.6 123.2
-152.25 62.25 543.9 ; 2065 53.5 ; 144.7 36.7 8.4 1.8 215.9
-152.25 62.75 180.4 ; 2060 55.2 ; 174.9 43.7 6.3 5.1 214.2
-152.25 68.25 0.8 ; 2030 37.1 ; 1000.0 49.8 -45.1 -52.3 -9999.0
-151.75 61.75 0.3 ; 2053 29.6 ; 112.2 34.3 13.3 -20.4 -0.5
-151.75 62.25 19.5 ; 2053 45.0 ; 175.5 40.6 12.1 -24.1 47.7
-151.75 62.75 622.5 ; 2069 54.3 ; 112.8 40.1 12.7 14.3 169.6
-151.75 63.25 6.9 ; 2039 51.1 ; 540.6 54.6 -25.7 -36.8 317.8
-151.75 68.25 1.6 ; 2030 38.3 ; 1000.0 47.1 -42.5 -48.2 -9999.0
-151.25 59.75 72.9 ; 2063 50.5 ; 96.4 22.0 -7.7 -20.7 77.3
-151.25 62.75 642.4 ; 2071 55.4 ; 106.1 48.0 17.6 18.6 192.9
-151.25 63.25 336.6 ; 2052 56.5 ; 166.0 41.8 5.6 3.3 203.8
-151.25 68.25 7.2 ; 2029 40.3 ; 984.0 56.4 -38.3 -44.8 16.4

-150.75 59.75 1241.8 ; 2069 53.8 ; 108.8 29.4 7.1 4.6 119.0
-150.75 60.25 30.4 ; 2049 42.8 ; 236.6 49.0 -1.7 -39.0 86.9
-150.75 62.75 570.2 ; 2066 50.0 ; 72.1 46.4 15.4 13.8 214.4
-150.75 63.75 357.5 ; 2063 63.2 ; 109.9 45.8 19.9 18.2 182.8
-150.75 67.75 0.3 ; 2025 32.5 ; 1000.0 44.5 -40.8 -51.2 -9999.0
-150.75 68.25 0.5 ; 2024 29.3 ; 1000.0 45.9 -43.6 -56.8 -9999.0
-150.75 68.75 0.3 ; 2024 57.1 ; 1000.0 117.5 -48.9 -48.0 -27.3
-150.25 59.75 98.8 ; 2055 30.7 ; 52.2 23.5 1.1 -10.5 58.3
-150.25 60.25 651.3 ; 2077 56.5 ; 103.5 33.9 12.8 15.2 138.6
-150.25 62.75 61.5 ; 2063 46.6 ; 148.5 40.1 1.9 -1.8 155.8
-150.25 63.25 38.5 ; 2043 53.5 ; 258.9 40.0 -5.2 -9.1 128.7
-150.25 63.75 501.7 ; 2065 57.1 ; 109.3 46.2 16.8 15.3 227.4
-150.25 68.25 11.2 ; 2032 44.3 ; 969.4 56.5 -38.5 -41.9 169.6
-149.75 59.75 229.2 ; 2078 38.0 ; 64.2 26.6 8.8 3.5 96.6
-149.75 60.25 162.2 ; 2052 42.8 ; 122.7 39.2 0.2 -26.6 105.7
-149.75 60.75 0.3 ; 2051 29.0 ; 104.6 41.9 12.2 -25.7 76.1
-149.75 63.25 28.6 ; 2040 48.1 ; 285.0 38.0 -16.7 -27.4 60.3
-149.75 63.75 32.9 ; 2038 46.3 ; 302.0 40.0 -17.3 -28.7 53.1
-149.75 67.75 0.8 ; 2035 43.8 ; 965.2 54.3 -39.9 -45.0 154.7
-149.75 68.25 2.6 ; 2035 61.9 ; 994.1 93.1 -43.5 -41.2 108.4
-149.25 60.25 39.1 ; 2041 38.5 ; 142.3 46.3 4.2 -34.8 86.4
-149.25 60.75 42.9 ; 2053 36.5 ; 90.3 44.3 9.8 -24.0 103.2
-149.25 61.25 138.1 ; 2066 63.6 ; 201.4 51.9 7.6 -4.8 186.9
-149.25 61.75 3.6 ; 2051 54.3 ; 341.0 47.3 -7.0 -33.2 201.1
-149.25 62.25 11.2 ; 2053 65.2 ; 515.1 52.7 -9.4 -29.6 279.6
-149.25 63.75 17.9 ; 2039 44.2 ; 312.6 38.1 -17.9 -28.1 70.6
-149.25 67.75 0.2 ; 2024 37.3 ; 1000.0 58.2 -50.3 -56.4 -9999.0
-149.25 68.25 12.2 ; 2035 51.1 ; 975.0 68.2 -39.3 -38.8 205.0
-148.75 60.25 1219.5 ; 2073 57.7 ; 71.3 24.6 1.4 -0.3 87.4
-148.75 60.75 631.3 ; 2074 45.9 ; 55.2 31.0 5.1 -0.7 112.4
-148.75 61.25 407.7 ; 2070 56.3 ; 126.2 44.4 8.0 2.1 168.2
-148.75 62.25 175.5 ; 2054 86.4 ; 634.3 71.0 -2.6 -14.0 394.9
-148.75 63.75 0.9 ; 2036 39.1 ; 402.9 35.1 -24.0 -42.6 59.5
-148.75 67.75 0.6 ; 2025 42.3 ; 1000.0 65.9 -44.3 -44.3 -9999.0
-148.75 68.25 1.1 ; 2029 60.1 ; 1000.0 93.7 -45.6 -40.3 -9999.0
-148.25 60.25 5.3 ; 2025 17.4 ; 8.2 -12.1 -39.1 -46.2 -16.1
-148.25 61.25 1111.8 ; 2070 60.1 ; 76.0 52.1 18.3 12.3 111.1
-148.25 61.75 131.2 ; 2052 84.4 ; 254.3 76.1 3.4 -14.8 79.0
-148.25 62.25 133.2 ; 2066 104.9 ; 562.4 78.5 12.8 11.2 484.8
-148.25 63.75 3.2 ; 2036 45.4 ; 292.7 39.7 -20.4 -42.3 -56.5
-148.25 67.75 2.9 ; 2035 53.1 ; 1000.0 67.0 -43.5 -42.8 -9999.0
-148.25 68.25 13.2 ; 2035 61.1 ; 977.7 86.1 -37.8 -32.1 249.7
-147.75 60.25 4.4 ; 2023 18.0 ; 8.3 -15.3 -41.1 -46.1 -20.7
-147.75 61.25 24.3 ; 2067 41.1 ; 47.3 38.9 7.3 -8.8 162.6
-147.75 61.75 1622.2 ; 2065 77.7 ; 112.4 69.8 26.2 17.9 102.0
-147.75 62.25 10.6 ; 2050 102.3 ; 737.4 90.0 -3.5 -15.4 529.9
-147.75 63.75 210.2 ; 2056 57.7 ; 207.3 49.6 8.7 4.1 182.1
-147.75 68.25 1.0 ; 2018 36.5 ; 1000.0 61.4 -47.3 -53.0 -18.6
-147.75 68.75 0.5 ; 2034 63.8 ; 1000.0 84.4 -46.6 -45.8 24.7
-147.25 60.75 0.2 ; 2014 13.6 ; 5.6 -14.1 -40.6 -45.9 -23.4
-147.25 61.25 15.1 ; 2056 40.3 ; 80.1 45.4 -1.4 -28.7 106.6
-147.25 61.75 252.9 ; 2072 98.5 ; 161.4 71.9 39.9 32.6 386.3
-147.25 63.25 7.5 ; 2038 52.1 ; 308.1 43.4 -10.5 -30.4 53.5
-147.25 63.75 417.0 ; 2067 65.0 ; 179.0 53.9 19.9 21.8 246.4

-147.25 68.25 2.2 ; 2035 46.9 ; 963.0 53.6 -43.2 -47.5 55.8
-147.25 68.75 0.2 ; 2020 42.0 ; 1000.0 62.5 -52.1 -60.8 -9999.0
-146.75 61.25 1122.1 ; 2081 71.5 ; 77.4 63.3 29.9 24.2 109.2
-146.75 61.75 431.2 ; 2079 93.1 ; 168.5 62.5 31.6 34.4 242.0
-146.75 63.25 36.2 ; 2044 56.1 ; 358.9 43.9 -4.2 -14.9 308.8
-146.75 63.75 349.9 ; 2067 57.8 ; 139.5 52.2 15.2 17.2 216.0
-146.75 68.25 1.2 ; 2028 52.7 ; 991.7 72.9 -46.2 -47.5 44.1
-146.25 61.25 449.0 ; 2066 53.9 ; 126.9 52.3 9.9 -1.5 169.2
-146.25 61.75 10.6 ; 2057 90.5 ; 395.0 83.5 5.8 -23.3 99.2
-146.25 63.25 404.9 ; 2066 63.0 ; 204.8 51.3 17.7 22.5 206.6
-146.25 63.75 194.1 ; 2062 56.9 ; 108.2 52.4 18.6 11.0 155.3
-146.25 69.25 0.7 ; 2035 54.6 ; 973.1 64.8 -41.0 -44.2 -9999.0
-145.75 60.75 79.2 ; 2059 37.7 ; 86.0 39.5 7.8 -7.9 221.1
-145.75 61.25 415.4 ; 2061 52.4 ; 157.0 53.5 7.5 -8.9 249.1
-145.75 63.25 19.6 ; 2048 56.0 ; 425.6 49.6 0.6 -7.7 322.8
-145.75 63.75 109.1 ; 2061 58.8 ; 257.5 52.4 7.9 7.7 208.4
-145.75 69.25 6.8 ; 2025 23.1 ; 168.0 44.6 -14.7 -53.3 -1.0
-145.25 60.75 757.5 ; 2071 39.6 ; 56.1 25.3 3.6 0.1 96.7
-145.25 61.25 158.8 ; 2060 49.2 ; 172.7 50.8 2.6 -12.9 301.6
-145.25 63.25 92.7 ; 2064 70.8 ; 233.3 55.4 20.1 19.4 535.5
-145.25 63.75 485.4 ; 2067 67.6 ; 252.0 59.6 17.1 18.8 300.3
-145.25 68.75 1.1 ; 2049 78.0 ; 1000.0 88.6 -24.0 -13.3 -9999.0
-144.75 60.25 0.1 ; 2048 18.3 ; 60.8 39.4 10.3 -26.7 99.8
-144.75 60.75 959.4 ; 2061 36.9 ; 40.8 17.5 -1.0 -4.8 88.1
-144.75 61.25 202.1 ; 2056 50.5 ; 233.4 55.7 -3.7 -26.4 193.5
-144.75 62.25 83.6 ; 2060 65.8 ; 213.8 47.6 12.0 -1.9 365.4
-144.75 63.25 45.4 ; 2054 58.4 ; 279.1 52.3 2.8 1.8 472.2
-144.75 63.75 137.7 ; 2054 60.9 ; 284.4 53.6 8.8 5.1 356.6
-144.75 69.25 52.8 ; 2030 26.5 ; 137.5 41.3 -7.3 -40.1 29.8
-144.25 61.25 268.0 ; 2044 32.7 ; 165.5 46.5 -8.2 -39.9 81.8
-144.25 61.75 288.6 ; 2056 57.2 ; 79.5 39.6 14.3 13.0 303.4
-144.25 62.25 414.2 ; 2054 74.1 ; 224.3 49.8 21.3 10.9 396.8
-144.25 62.75 23.1 ; 2058 66.4 ; 384.1 50.0 4.7 -0.9 643.8
-144.25 63.25 114.9 ; 2055 63.8 ; 263.0 50.4 10.7 2.9 739.7
-144.25 68.75 7.2 ; 2036 53.4 ; 332.1 70.6 -22.0 -38.8 -11.4
-144.25 69.25 86.0 ; 2031 32.4 ; 184.3 42.9 -15.0 -47.7 45.9
-143.75 60.25 792.9 ; 2060 40.5 ; 51.6 21.4 5.0 -1.0 100.9
-143.75 61.25 245.3 ; 2047 33.3 ; 134.6 37.7 -5.6 -25.1 104.2
-143.75 61.75 309.6 ; 2059 59.0 ; 129.3 41.0 12.3 6.1 124.9
-143.75 62.25 525.4 ; 2051 73.3 ; 187.2 47.5 15.8 8.2 246.2
-143.75 68.75 46.5 ; 2035 33.1 ; 169.6 47.6 -9.2 -45.5 30.8
-143.75 69.25 51.1 ; 2037 33.3 ; 135.6 45.0 -9.7 -42.3 76.5
-143.25 60.25 5.3 ; 2033 25.7 ; 85.9 39.6 -5.9 -42.1 136.8
-143.25 60.75 992.0 ; 2052 37.6 ; 69.4 22.8 -3.9 -11.1 77.9
-143.25 61.25 21.9 ; 2030 46.7 ; 387.6 65.9 -20.6 -62.2 21.5
-143.25 61.75 1535.5 ; 2074 86.4 ; 109.0 57.5 38.0 40.0 165.4
-143.25 62.25 11.8 ; 2030 61.5 ; 808.0 82.9 -32.2 -56.6 174.7
-143.25 62.75 0.4 ; 2019 41.6 ; 850.3 68.7 -40.8 -70.0 -9999.0
-143.25 68.75 3.7 ; 2042 36.2 ; 179.0 52.3 -1.6 -35.7 94.7
-143.25 69.25 3.8 ; 2028 28.4 ; 173.4 40.9 -9.1 -60.7 27.4
-142.75 60.25 3828.2 ; 2072 49.9 ; 45.6 34.5 12.7 11.0 77.2
-142.75 60.75 81.6 ; 2034 48.1 ; 277.7 64.2 -20.5 -55.2 26.6
-142.75 61.25 12.1 ; 2035 54.3 ; 433.7 68.2 -23.8 -61.6 7.4
-142.75 61.75 64.8 ; 2045 48.5 ; 116.5 40.5 -5.9 -17.8 170.0

-142.75 62.25 852.3 ; 2053 82.7 ; 167.0 64.9 9.2 8.9 300.1
-142.75 69.25 0.1 ; 2028 33.6 ; 390.1 43.2 -10.1 -55.4 -52.2
-142.25 60.25 282.9 ; 2041 30.7 ; 51.8 15.7 -14.4 -21.0 31.0
-142.25 60.75 1134.9 ; 2074 74.4 ; 123.7 48.9 26.7 20.5 298.4
-142.25 61.25 199.1 ; 2051 67.6 ; 209.8 46.7 -3.5 -11.3 166.2
-142.25 61.75 214.1 ; 2045 81.8 ; 376.8 58.5 -9.1 -18.0 270.1
-142.25 62.25 388.5 ; 2053 85.2 ; 158.8 59.5 13.1 14.6 221.4
-141.75 60.75 415.7 ; 2054 85.4 ; 299.2 62.0 -0.9 -3.9 194.1
-141.75 61.25 1186.2 ; 2062 71.2 ; 95.7 40.5 21.5 20.2 136.4
-141.75 61.75 46.1 ; 2051 110.7 ; 536.5 69.6 -3.5 -16.8 382.3
-141.75 62.25 12.9 ; 2031 59.8 ; 658.1 50.3 -35.6 -53.9 223.6
-141.25 60.25 1614.9 ; 2085 95.5 ; 159.7 72.4 38.5 44.3 208.4
-141.25 60.75 3257.3 ; 2075 87.9 ; 107.8 58.9 38.6 42.5 175.2
-141.25 61.25 972.9 ; 2082 108.8 ; 92.4 84.0 61.5 63.5 205.0
-141.25 61.75 50.2 ; 2036 86.7 ; 287.4 37.9 -19.9 -28.8 190.3
-141.25 62.25 38.4 ; 2035 66.0 ; 604.1 50.8 -29.0 -40.5 283.5
-140.75 60.25 165.7 ; 2079 75.9 ; 107.9 59.7 32.0 25.3 116.5
-140.75 60.75 281.3 ; 2040 79.8 ; 105.5 37.2 27.0 21.6 201.3
-140.75 61.25 68.7 ; 2030 88.2 ; 407.3 58.7 -22.4 -23.6 228.8
-140.75 61.75 41.3 ; 2028 64.3 ; 256.1 21.0 -26.8 -36.3 83.5
-140.25 60.25 4587.1 ; 2065 58.0 ; 43.6 50.0 20.6 4.1 63.1
-140.25 60.75 606.1 ; 2059 76.0 ; 61.2 32.2 38.7 31.6 57.8
-140.25 61.25 178.6 ; 2028 95.2 ; 582.0 40.8 -39.7 -46.4 -22.1
-140.25 61.75 5.0 ; 2016 36.3 ; 291.3 17.4 -41.6 -63.4 -67.4
-139.75 60.25 3764.4 ; 2088 103.1 ; 102.2 69.6 60.6 55.9 137.2
-139.75 60.75 23.3 ; 2054 108.7 ; 365.6 57.5 -5.5 -10.1 214.4
-139.75 61.25 168.8 ; 2041 86.3 ; 381.9 52.4 -11.1 -16.2 20.7
-139.25 59.75 81.2 ; 2025 27.1 ; 73.7 32.9 -15.1 -45.1 58.6
-139.25 60.75 441.4 ; 2067 110.9 ; 271.6 75.1 33.5 32.0 249.4
-139.25 61.25 70.5 ; 2031 76.5 ; 554.5 85.4 -28.0 -46.0 119.4
-138.75 59.25 572.6 ; 2056 41.8 ; 45.2 13.5 -0.9 -7.0 105.3
-138.75 59.75 1081.0 ; 2064 48.1 ; 40.6 16.7 -0.3 -6.9 57.1
-138.75 60.25 1907.4 ; 2081 99.7 ; 116.1 63.0 54.0 48.7 242.5
-138.75 60.75 114.3 ; 2035 73.9 ; 378.7 77.8 -19.1 -31.3 72.4
-138.75 61.25 11.3 ; 2027 76.3 ; 613.0 90.5 -41.1 -65.8 22.3
-138.25 59.25 74.0 ; 2051 32.0 ; 64.4 16.0 -11.7 -24.4 118.3
-138.25 59.75 1187.7 ; 2064 49.1 ; 63.6 23.6 10.7 3.1 128.1
-138.25 60.25 914.7 ; 2064 73.3 ; 169.2 46.8 16.8 8.6 234.3
-138.25 60.75 18.4 ; 2032 61.9 ; 463.9 67.7 -27.3 -61.0 -4.3
-137.75 58.75 774.2 ; 2060 42.0 ; 39.6 26.8 14.1 -0.9 46.6
-137.75 59.25 1161.0 ; 2053 44.4 ; 68.5 25.1 7.0 -3.5 78.0
-137.75 59.75 392.2 ; 2041 44.9 ; 177.3 38.3 -12.1 -35.2 160.3
-137.75 60.25 96.0 ; 2029 37.9 ; 195.9 44.5 -22.9 -51.0 35.9
-137.75 60.75 43.7 ; 2028 47.5 ; 465.0 59.5 -32.0 -64.8 42.0
-137.25 58.75 1381.6 ; 2061 46.0 ; 40.2 17.0 2.8 -0.3 45.8
-137.25 59.25 253.9 ; 2056 46.7 ; 95.5 41.2 15.0 -4.2 98.2
-137.25 59.75 1079.0 ; 2052 46.3 ; 166.5 29.8 -10.7 -30.0 203.9
-137.25 60.25 8.8 ; 2017 31.7 ; 284.5 46.5 -30.2 -72.3 -80.7
-137.25 60.75 5.2 ; 2017 31.4 ; 255.4 44.8 -32.4 -72.1 -52.8
-136.75 58.75 167.4 ; 2058 33.3 ; 44.9 16.4 -8.1 -18.2 54.3
-136.75 59.25 560.2 ; 2065 41.2 ; 58.9 15.8 2.8 -0.4 128.6
-136.75 59.75 164.5 ; 2044 30.1 ; 104.4 23.0 -7.7 -27.0 115.1
-136.75 60.25 47.5 ; 2026 28.1 ; 189.9 44.9 -21.8 -69.2 -40.1
-136.25 58.25 0.3 ; 2019 13.7 ; 34.9 21.1 -7.8 -45.8 13.0

-136.25 58.75 33.5 ; 2024 18.6 ; 46.1 20.4 -19.9 -50.3 10.9
-136.25 59.25 311.3 ; 2059 41.9 ; 73.9 14.3 -2.6 -8.9 147.0
-136.25 59.75 35.2 ; 2025 28.6 ; 199.3 45.4 -22.8 -71.1 -55.5
-136.25 60.25 89.1 ; 2026 34.8 ; 283.4 45.4 -30.3 -71.5 -39.5
-135.75 58.75 230.7 ; 2059 37.1 ; 79.1 17.2 -0.3 -10.5 146.4
-135.75 59.25 310.8 ; 2047 27.1 ; 91.3 23.3 -8.7 -30.7 164.3
-135.75 59.75 324.7 ; 2032 26.5 ; 135.2 24.1 -18.6 -38.2 79.5
-135.75 60.25 181.1 ; 2029 37.9 ; 358.9 43.6 -27.6 -57.4 148.9
-135.25 56.75 0.2 ; 2012 11.7 ; 62.5 10.1 -30.0 -59.9 -18.4
-135.25 57.25 72.5 ; 2020 19.2 ; 56.3 3.0 -33.5 -59.2 -11.1
-135.25 58.75 132.3 ; 2022 17.2 ; 73.3 26.2 -18.0 -54.6 91.4
-135.25 59.25 202.2 ; 2030 21.2 ; 84.6 22.4 -14.5 -43.3 122.4
-135.25 59.75 118.9 ; 2027 24.0 ; 147.3 31.5 -24.0 -58.7 67.1
-135.25 60.25 26.2 ; 2019 26.3 ; 292.1 41.1 -33.3 -75.4 -44.1
-134.75 58.75 117.3 ; 2027 15.7 ; 92.8 26.8 -17.6 -58.1 117.2
-134.75 59.25 1030.0 ; 2056 39.1 ; 115.9 18.9 0.0 -7.5 157.4
-134.75 59.75 60.7 ; 2019 25.2 ; 202.8 36.5 -32.0 -72.1 31.2
-134.25 57.25 3.7 ; 2016 16.5 ; 19.7 -10.7 -41.0 -58.0 -21.7
-134.25 57.75 1.2 ; 2021 18.3 ; 66.0 27.1 -17.1 -60.1 128.5
-134.25 58.25 224.1 ; 2067 27.4 ; 55.9 18.1 0.4 -13.0 147.6
-134.25 58.75 1971.0 ; 2072 45.2 ; 96.7 19.3 10.5 10.2 205.7
-134.25 59.25 217.2 ; 2036 36.8 ; 273.7 33.8 -16.7 -38.0 379.5
-134.25 59.75 1.2 ; 2014 24.7 ; 423.9 38.0 -43.8 -80.5 -86.0
-133.75 58.75 559.2 ; 2046 24.7 ; 98.8 22.6 -11.2 -26.3 151.5
-133.75 59.25 2.5 ; 2012 21.0 ; 262.3 37.3 -41.8 -74.2 -53.6
-133.25 57.25 14.2 ; 2018 15.9 ; 85.3 26.2 -19.9 -58.6 83.0
-133.25 57.75 175.4 ; 2021 16.9 ; 95.8 26.4 -19.5 -55.7 68.7
-133.25 58.25 3.2 ; 2013 18.0 ; 153.5 39.5 -24.9 -69.5 49.6
-133.25 58.75 594.7 ; 2028 22.4 ; 91.7 16.6 -18.4 -37.5 100.2
-133.25 59.25 1.5 ; 2015 22.8 ; 265.3 37.3 -39.8 -78.2 -74.0
-133.25 64.75 1.2 ; 2010 12.8 ; 371.5 20.6 -57.5 -72.2 -93.4
-133.25 65.25 1.1 ; 2005 9.9 ; 405.8 19.9 -58.7 -71.7 -97.8
-132.75 57.25 144.3 ; 2019 17.2 ; 93.2 26.0 -19.2 -53.7 74.9
-132.75 57.75 906.5 ; 2069 54.0 ; 116.8 35.6 16.0 8.2 180.0
-132.75 58.75 143.7 ; 2023 22.1 ; 149.0 33.2 -27.7 -63.9 83.0
-132.75 65.25 3.5 ; 2002 8.3 ; 318.2 16.4 -59.5 -73.6 -98.8
-132.25 56.75 882.8 ; 2061 43.3 ; 60.5 20.1 8.8 2.2 124.1
-132.25 57.25 1725.7 ; 2058 41.9 ; 73.4 20.6 6.2 -2.8 123.7
-132.25 57.75 552.4 ; 2048 37.3 ; 118.1 24.1 -5.9 -17.7 125.2
-132.25 58.25 381.8 ; 2028 31.4 ; 201.6 33.3 -25.0 -53.4 58.0
-131.75 56.25 49.6 ; 2012 12.3 ; 68.6 25.7 -17.9 -60.4 78.8
-131.75 56.75 169.5 ; 2023 16.3 ; 76.5 22.1 -20.1 -54.1 73.1
-131.75 57.25 210.1 ; 2022 16.4 ; 94.6 27.2 -22.7 -55.8 55.4
-131.75 57.75 153.6 ; 2025 26.1 ; 199.4 41.8 -24.4 -61.3 61.9
-131.75 58.25 10.1 ; 2019 28.1 ; 327.3 45.8 -43.3 -80.0 -95.2
-131.75 61.25 0.4 ; 2001 10.3 ; 126.0 16.4 -57.1 -76.2 -96.6
-131.75 63.75 0.7 ; 1997 5.7 ; 273.7 22.6 -57.6 -75.5 -100.0
-131.75 64.75 4.4 ; 2008 12.8 ; 489.8 19.5 -68.0 -75.6 -97.6
-131.25 55.75 0.1 ; 2020 16.2 ; 22.6 4.9 -23.4 -50.2 -17.8
-131.25 56.25 136.6 ; 2013 12.0 ; 86.5 26.8 -18.4 -61.5 99.4
-131.25 56.75 804.7 ; 2042 25.5 ; 93.2 18.9 -8.8 -25.8 115.8
-131.25 57.25 636.2 ; 2033 25.5 ; 150.6 34.9 -18.2 -46.5 130.1
-131.25 57.75 28.7 ; 2019 24.3 ; 322.8 48.3 -43.7 -79.4 6.1
-131.25 63.25 1.3 ; 1998 6.4 ; 272.6 22.9 -57.8 -75.3 -100.0

-131.25 63.75 16.4 ; 2002 8.6 ; 221.0 22.1 -58.5 -73.1 -94.2
-131.25 64.75 11.4 ; 2006 11.3 ; 293.9 17.5 -67.3 -75.7 -99.0
-130.75 55.25 0.4 ; 2021 17.3 ; 50.6 26.3 -5.3 -53.4 52.4
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71.75 42.25 11.2 ; 2035 44.5 ; 305.0 96.4 -13.8 -50.2 -26.3
72.25 35.25 9.3 ; 2044 28.8 ; 201.7 22.7 -1.4 -22.9 200.0
72.25 35.75 255.8 ; 2030 29.8 ; 544.9 73.7 -6.3 -41.4 64.1
72.25 36.25 103.3 ; 2029 27.0 ; 451.5 95.4 -8.5 -48.4 3.0
72.25 36.75 328.3 ; 2032 29.1 ; 363.9 70.2 -7.7 -33.1 108.3
72.25 37.25 215.5 ; 2039 41.2 ; 337.2 91.2 -12.7 -43.1 -1.1
72.25 37.75 420.7 ; 2037 55.3 ; 286.3 84.8 -4.5 -33.7 17.4
72.25 38.25 496.4 ; 2043 54.1 ; 245.3 83.0 -2.2 -24.7 12.4
72.25 38.75 1426.3 ; 2065 81.6 ; 119.4 65.3 21.1 15.5 45.8
72.25 39.25 310.8 ; 2038 48.1 ; 269.8 82.5 -9.3 -37.9 9.8
72.25 39.75 3.5 ; 2036 69.5 ; 431.9 132.1 -12.6 -57.3 41.6
72.25 40.25 95.3 ; 2039 56.1 ; 297.2 86.0 -9.0 -34.3 14.7
72.25 42.25 22.6 ; 2034 49.5 ; 366.4 99.6 -14.6 -48.9 28.3
72.75 35.25 120.4 ; 2043 27.7 ; 232.3 28.6 -2.7 -20.6 101.7
72.75 35.75 177.8 ; 2026 27.9 ; 541.6 68.6 -5.5 -45.9 98.4
72.75 36.25 87.2 ; 2027 21.4 ; 641.8 116.2 -6.5 -45.9 50.0

72.75 36.75 139.2 ; 2023 18.1 ; 463.8 108.6 -13.3 -51.3 78.8
72.75 37.25 480.7 ; 2042 42.0 ; 305.3 100.7 -10.9 -36.6 14.0
72.75 37.75 278.1 ; 2035 56.3 ; 284.1 90.0 -7.6 -33.8 32.0
72.75 38.25 322.2 ; 2034 45.4 ; 256.9 77.0 -10.4 -38.6 3.4
72.75 38.75 365.0 ; 2036 48.7 ; 268.0 79.3 -12.8 -43.0 7.1
72.75 39.25 573.5 ; 2047 72.1 ; 313.0 100.8 8.1 -11.9 93.4
72.75 39.75 45.3 ; 2045 77.2 ; 403.7 106.2 -8.3 -34.7 5.1
72.75 40.25 146.8 ; 2037 48.3 ; 322.8 81.7 -15.5 -42.0 -8.0
72.75 42.25 14.0 ; 2028 37.7 ; 304.2 67.7 -16.4 -58.6 -27.2
73.25 34.75 17.1 ; 2045 33.8 ; 163.8 23.3 0.7 -17.1 101.1
73.25 35.25 32.1 ; 2045 30.9 ; 284.7 31.3 -1.0 -22.9 97.2
73.25 35.75 55.1 ; 2025 25.0 ; 325.3 43.9 -2.0 -37.7 115.3
73.25 36.25 57.9 ; 2026 23.4 ; 652.6 97.9 -5.7 -45.8 38.0
73.25 36.75 484.2 ; 2031 27.5 ; 263.8 73.2 -2.7 -17.9 89.6
73.25 37.25 212.7 ; 2045 57.5 ; 304.9 96.5 -2.1 -23.6 46.6
73.25 37.75 102.0 ; 2025 45.3 ; 297.2 77.0 -14.6 -54.9 -7.2
73.25 38.25 309.5 ; 2026 46.2 ; 277.8 78.0 -13.7 -51.7 -13.8
73.25 38.75 103.8 ; 2030 44.7 ; 297.1 84.1 -12.2 -48.4 -11.6
73.25 39.25 282.0 ; 2041 54.7 ; 166.5 56.8 -4.3 -17.5 42.2
73.25 39.75 30.6 ; 2029 52.9 ; 279.4 87.5 -12.7 -49.0 35.4
73.25 40.25 29.2 ; 2033 50.5 ; 307.3 91.5 -13.7 -50.9 -20.9
73.25 41.75 0.1 ; 2023 26.9 ; 471.3 44.8 -22.0 -64.9 -9999.0
73.25 42.25 18.0 ; 2033 48.6 ; 322.3 81.9 -13.1 -50.9 -13.2
73.75 34.75 53.1 ; 2048 31.5 ; 242.3 30.9 0.5 -23.2 143.0
73.75 35.25 23.1 ; 2041 29.5 ; 372.1 31.6 0.1 -26.2 87.8
73.75 35.75 1.2 ; 2035 25.2 ; 354.0 32.4 0.4 -32.8 18.7
73.75 36.25 51.0 ; 2030 27.9 ; 503.5 66.5 0.1 -35.3 70.8
73.75 36.75 517.0 ; 2061 46.9 ; 452.2 103.7 21.0 12.4 217.3
73.75 37.25 378.1 ; 2034 48.4 ; 304.0 91.6 -12.9 -40.8 16.8
73.75 37.75 2.8 ; 2029 40.5 ; 297.4 75.5 -15.5 -66.1 -35.0
73.75 38.25 106.1 ; 2025 48.1 ; 296.0 79.5 -14.4 -55.3 36.7
73.75 38.75 113.2 ; 2029 49.7 ; 300.2 87.7 -12.3 -47.9 -18.9
73.75 39.25 831.5 ; 2045 45.4 ; 147.4 53.4 -2.6 -17.9 18.2
73.75 39.75 55.8 ; 2031 45.0 ; 353.6 94.7 -15.6 -52.3 -3.9
73.75 41.25 0.4 ; 2018 21.9 ; 353.4 48.8 -30.6 -78.6 9.3
73.75 41.75 8.8 ; 2024 50.9 ; 310.6 72.2 -14.2 -63.6 -9.5
73.75 42.25 24.8 ; 2029 42.9 ; 264.7 76.8 -13.8 -50.4 -21.6
73.75 42.75 1.4 ; 2033 79.8 ; 728.4 315.5 47.3 -53.9 -9999.0
74.25 34.75 28.4 ; 2038 31.0 ; 418.0 41.7 -3.8 -37.8 233.1
74.25 35.25 126.2 ; 2050 42.3 ; 361.8 65.0 5.0 -16.8 379.7
74.25 35.75 1.0 ; 2032 27.5 ; 534.5 45.4 -1.0 -38.9 -13.5
74.25 36.25 592.7 ; 2060 41.2 ; 132.7 52.3 14.9 6.8 104.1
74.25 36.75 447.9 ; 2047 46.9 ; 267.4 98.6 8.5 -4.2 155.6
74.25 37.25 171.2 ; 2038 54.5 ; 958.1 291.7 -18.8 -55.8 186.7
74.25 38.75 28.6 ; 2021 51.9 ; 329.6 90.2 -11.5 -56.9 5.1
74.25 39.25 251.5 ; 2046 62.9 ; 264.8 89.0 2.4 -18.5 18.3
74.25 39.75 13.0 ; 2035 42.3 ; 293.9 70.5 -15.0 -56.3 -36.7
74.25 40.25 0.2 ; 2014 74.7 ; 647.2 92.9 -17.9 -70.3 -9999.0
74.25 40.75 43.2 ; 2033 47.4 ; 348.0 82.8 -11.9 -42.7 43.1
74.25 41.75 2.0 ; 2027 61.1 ; 362.9 67.4 -8.1 -52.4 32.3
74.25 42.25 97.6 ; 2030 50.6 ; 320.8 86.8 -13.3 -44.4 -14.9
74.25 42.75 11.1 ; 2041 53.3 ; 427.9 92.6 -15.5 -41.1 -14.2
74.75 34.75 95.9 ; 2034 29.5 ; 514.5 56.0 -6.3 -44.2 40.9
74.75 35.25 419.3 ; 2046 32.2 ; 213.4 56.3 -1.3 -22.5 70.6

74.75 35.75 179.7 ; 2047 34.3 ; 142.2 60.3 -0.3 -17.3 81.7
74.75 36.25 586.2 ; 2057 41.5 ; 82.7 34.8 8.4 5.9 53.1
74.75 36.75 882.7 ; 2049 43.8 ; 160.8 107.2 2.6 -16.2 133.8
74.75 37.25 328.3 ; 2027 46.2 ; 944.8 272.2 -31.5 -72.7 65.5
74.75 37.75 4.2 ; 2024 34.6 ; 498.8 129.2 -21.1 -66.3 35.8
74.75 38.25 5.3 ; 2023 55.1 ; 404.2 93.8 -9.0 -57.8 -13.3
74.75 38.75 69.6 ; 2038 63.0 ; 339.7 100.3 -5.8 -32.0 94.3
74.75 39.25 341.1 ; 2039 57.2 ; 301.2 89.6 -7.2 -31.8 6.5
74.75 39.75 16.5 ; 2028 76.3 ; 361.0 102.7 -8.5 -52.8 -9.4
74.75 40.25 8.6 ; 2029 47.1 ; 344.8 85.6 -17.0 -57.0 -20.4
74.75 40.75 43.0 ; 2028 56.9 ; 326.4 92.3 -11.2 -54.6 -8.4
74.75 41.25 0.2 ; 2034 6342.6 ; 586.6 134.1 63.2 0.7 -9999.0
74.75 41.75 0.5 ; 2036 60.1 ; 304.1 60.0 4.6 -24.9 59.4
74.75 42.25 135.1 ; 2036 53.5 ; 271.9 86.0 -7.8 -35.4 0.3
74.75 42.75 19.2 ; 2046 60.6 ; 361.5 96.0 -7.0 -34.0 -19.7
75.25 33.75 3.2 ; 2027 21.6 ; 310.0 27.8 -14.5 -48.8 -43.2
75.25 34.25 99.7 ; 2038 24.2 ; 298.7 49.4 -5.3 -35.6 11.6
75.25 34.75 36.9 ; 2030 21.6 ; 467.8 56.5 -7.6 -50.2 -18.5
75.25 35.25 191.6 ; 2032 28.8 ; 912.1 148.3 -15.6 -58.0 27.5
75.25 35.75 462.6 ; 2064 50.3 ; 172.5 61.7 13.2 7.5 106.2
75.25 36.25 1318.1 ; 2064 67.0 ; 223.8 94.2 22.9 19.2 110.8
75.25 36.75 116.6 ; 2030 43.8 ; 997.7 192.8 -43.1 -66.8 559.1
75.25 37.25 266.4 ; 2026 43.7 ; 599.8 152.5 -29.7 -62.1 4.9
75.25 37.75 95.8 ; 2031 42.9 ; 272.2 77.9 -14.7 -50.3 -7.1
75.25 38.25 543.5 ; 2051 67.3 ; 256.1 87.2 3.8 -12.7 49.0
75.25 38.75 715.0 ; 2049 52.5 ; 129.5 48.2 -1.8 -13.1 57.0
75.25 39.25 2.1 ; 2027 56.4 ; 354.4 74.9 -18.3 -67.5 -26.7
75.25 40.25 41.4 ; 2022 46.6 ; 303.6 76.2 -12.0 -55.3 -31.6
75.25 40.75 0.3 ; 2034 35.7 ; 524.6 59.6 -15.6 -65.0 84.3
75.25 42.25 54.2 ; 2040 51.2 ; 276.9 82.6 -8.8 -35.6 -15.4
75.75 33.25 0.3 ; 2025 12.1 ; 126.4 14.8 -20.9 -46.4 0.4
75.75 33.75 239.1 ; 2029 27.5 ; 461.8 65.6 -16.6 -46.6 34.4
75.75 34.25 309.2 ; 2038 27.7 ; 444.9 75.1 -12.2 -42.2 38.4
75.75 34.75 53.6 ; 2027 25.1 ; 971.7 172.2 -13.5 -66.5 77.1
75.75 35.25 37.7 ; 2036 42.9 ; 573.5 136.2 -24.2 -44.4 -25.7
75.75 35.75 881.9 ; 2073 97.7 ; 283.6 112.5 42.6 45.2 169.9
75.75 36.25 697.3 ; 2064 81.8 ; 332.6 128.6 21.9 21.0 153.3
75.75 36.75 630.3 ; 2039 58.6 ; 685.7 209.5 -23.7 -38.9 159.0
75.75 37.25 106.3 ; 2024 31.4 ; 498.9 115.1 -36.8 -70.4 -23.4
75.75 37.75 21.1 ; 2023 58.8 ; 327.0 90.5 -14.4 -60.7 -13.1
75.75 38.25 27.3 ; 2032 65.8 ; 354.7 97.4 -11.6 -54.5 33.0
75.75 38.75 75.1 ; 2028 46.8 ; 324.3 88.6 -16.1 -51.9 29.7
75.75 40.25 8.0 ; 2034 63.8 ; 372.5 93.5 -13.0 -59.3 -3.1
75.75 40.75 39.8 ; 2039 60.0 ; 333.6 93.6 -4.6 -37.8 15.7
75.75 41.25 28.2 ; 2034 49.4 ; 357.8 91.6 -16.0 -47.8 -10.6
75.75 41.75 1.1 ; 2044 348.7 ; 761.9 290.5 60.3 36.8 233.1
75.75 42.25 43.4 ; 2032 56.4 ; 333.6 95.1 -12.0 -44.3 -6.4
76.25 32.25 4.6 ; 2033 11.2 ; 282.5 19.4 -23.6 -43.5 -15.3
76.25 32.75 26.8 ; 2027 14.6 ; 143.4 16.7 -23.4 -41.8 -24.6
76.25 33.25 249.9 ; 2036 21.0 ; 165.6 26.1 -22.7 -38.1 5.5
76.25 33.75 958.4 ; 2045 35.9 ; 382.0 69.6 -14.8 -34.2 57.7
76.25 34.25 161.0 ; 2030 34.5 ; 462.6 115.6 -12.4 -43.8 -28.5
76.25 34.75 56.9 ; 2021 41.4 ; 980.3 255.0 -25.3 -79.7 -61.7
76.25 35.25 251.7 ; 2027 43.0 ; 592.6 136.2 -22.6 -49.6 -5.3

76.25 35.75 806.4 ; 2062 86.4 ; 262.0 85.3 30.4 27.8 130.3
76.25 36.75 474.2 ; 2039 68.1 ; 606.6 170.1 -15.8 -32.1 55.4
76.25 37.25 16.4 ; 2024 38.0 ; 398.7 107.3 -29.2 -65.6 -36.0
76.25 37.75 0.7 ; 2022 108.0 ; 473.3 104.5 -4.6 -61.4 -2.3
76.25 40.25 0.3 ; 2021 25.6 ; 361.4 58.2 -20.5 -65.8 12.9
76.25 40.75 34.9 ; 2034 43.7 ; 341.6 79.9 -15.4 -48.9 -29.0
76.25 41.25 30.0 ; 2023 44.3 ; 299.5 70.0 -15.4 -63.4 -26.1
76.25 41.75 27.7 ; 2030 58.2 ; 393.7 95.0 -14.2 -52.0 2.3
76.25 42.25 33.2 ; 2040 45.0 ; 310.6 82.7 -13.9 -42.3 9.9
76.25 42.75 11.0 ; 2026 51.8 ; 354.2 83.8 -16.9 -62.0 23.8
76.25 43.25 0.2 ; 2017 29.1 ; 336.2 48.9 -19.9 -67.7 20.6
76.75 32.25 123.9 ; 2026 14.0 ; 132.8 12.9 -15.5 -28.9 21.6
76.75 32.75 402.4 ; 2032 18.5 ; 278.8 43.7 -20.6 -45.5 -4.8
76.75 33.25 836.6 ; 2039 32.3 ; 538.6 87.8 -17.6 -39.9 22.9
76.75 33.75 202.0 ; 2030 37.5 ; 905.2 157.9 -22.2 -57.8 61.5
76.75 34.25 71.7 ; 2028 40.0 ; 1000.0 320.8 -15.2 -64.2 -9999.0
76.75 34.75 193.9 ; 2031 50.4 ; 991.0 381.8 -13.7 -59.3 77.6
76.75 35.25 968.5 ; 2054 69.4 ; 286.1 102.2 19.1 11.4 129.1
76.75 35.75 134.3 ; 2065 96.7 ; 474.5 144.1 41.5 35.5 438.5
76.75 36.25 1989.2 ; 2053 86.4 ; 412.9 125.0 17.6 7.1 173.8
76.75 36.75 391.7 ; 2035 51.5 ; 430.5 113.0 -19.5 -49.4 3.5
76.75 37.25 1.9 ; 2022 31.7 ; 373.4 58.1 -22.9 -70.7 -57.4
76.75 40.75 43.4 ; 2022 52.0 ; 310.0 74.7 -13.5 -59.7 16.4
76.75 41.25 21.5 ; 2022 57.5 ; 277.6 81.1 -11.7 -55.8 31.6
76.75 41.75 187.4 ; 2041 49.8 ; 317.9 88.2 -12.0 -41.9 -3.3
76.75 42.75 90.2 ; 2029 50.2 ; 321.8 87.6 -11.3 -49.5 -11.4
76.75 43.25 19.1 ; 2033 63.2 ; 378.5 91.0 -9.1 -48.4 29.1
77.25 31.75 4.9 ; 2030 9.0 ; 373.4 24.0 -19.5 -38.6 10.4
77.25 32.25 497.7 ; 2039 20.5 ; 278.5 43.2 -15.6 -31.4 26.9
77.25 32.75 544.1 ; 2031 27.3 ; 833.7 110.2 -18.2 -49.9 10.6
77.25 33.25 99.6 ; 2022 25.7 ; 1000.0 154.1 -18.5 -63.0 -9999.0
77.25 33.75 49.2 ; 2026 39.9 ; 1000.0 357.1 -14.3 -63.0 344.5
77.25 34.25 134.9 ; 2039 89.2 ; 921.4 696.4 2.2 -28.5 -9999.0
77.25 34.75 436.1 ; 2050 101.4 ; 935.3 424.4 15.6 -11.3 489.9
77.25 35.25 2199.7 ; 2074 169.3 ; 422.7 204.5 97.2 94.3 331.0
77.25 36.25 772.4 ; 2050 116.9 ; 772.7 258.4 26.4 11.0 351.2
77.25 36.75 352.1 ; 2047 66.9 ; 310.0 100.7 6.4 -18.3 13.8
77.25 40.75 231.4 ; 2049 52.7 ; 223.5 66.9 -2.7 -21.4 20.2
77.25 41.25 66.6 ; 2025 51.1 ; 294.2 76.9 -14.2 -57.7 -0.5
77.25 41.75 226.0 ; 2031 50.7 ; 308.4 81.7 -12.3 -50.0 0.6
77.25 42.25 0.3 ; 2026 1321.5 ; 559.8 143.0 51.4 -35.1 -9999.0
77.25 42.75 137.2 ; 2032 54.5 ; 299.7 88.7 -9.9 -42.4 -6.6
77.25 43.25 263.2 ; 2044 52.9 ; 265.9 83.3 -1.9 -28.6 5.6
77.75 31.25 1.6 ; 2016 8.0 ; 394.4 17.7 -16.8 -41.6 -92.4
77.75 31.75 403.3 ; 2024 15.7 ; 647.8 65.6 -22.7 -48.3 -56.6
77.75 32.25 662.3 ; 2037 22.7 ; 559.0 84.6 -18.7 -37.6 35.3
77.75 32.75 212.4 ; 2026 24.3 ; 1000.0 167.0 -24.7 -66.7 -9999.0
77.75 33.25 24.7 ; 2022 46.6 ; 1000.0 650.7 -13.9 -69.9 -9999.0
77.75 33.75 97.4 ; 2039 81.6 ; 1000.0 675.6 -7.7 -47.0 -9999.0
77.75 34.25 114.4 ; 2049 108.3 ; 942.6 768.1 16.2 -9.2 671.3
77.75 34.75 1011.4 ; 2061 168.7 ; 847.8 432.4 66.6 57.5 920.6
77.75 35.25 632.8 ; 2053 131.9 ; 828.6 341.5 45.1 22.4 773.5
77.75 35.75 826.5 ; 2050 110.6 ; 838.0 279.1 26.1 4.8 425.9
77.75 36.25 132.1 ; 2049 68.6 ; 267.9 85.8 3.6 -19.0 14.7

77.75 36.75 409.0 ; 2037 57.2 ; 267.3 79.1 -4.6 -29.6 17.0
77.75 40.75 28.0 ; 2031 59.4 ; 315.8 90.9 -10.2 -46.8 15.7
77.75 41.25 389.0 ; 2042 50.8 ; 278.0 81.5 -3.8 -29.2 29.7
77.75 41.75 270.8 ; 2026 45.4 ; 300.8 81.0 -13.8 -52.0 7.6
77.75 42.25 38.2 ; 2027 44.3 ; 295.4 77.5 -16.1 -55.0 -13.2
77.75 42.75 9.6 ; 2023 46.3 ; 337.8 81.3 -16.1 -61.7 10.3
77.75 43.25 103.0 ; 2034 44.9 ; 295.7 82.3 -14.3 -49.9 -12.0
78.25 30.75 39.9 ; 2020 10.3 ; 417.5 22.3 -20.0 -42.8 -70.0
78.25 31.25 114.5 ; 2023 14.8 ; 588.6 53.8 -19.7 -43.0 -20.9
78.25 31.75 131.2 ; 2021 13.5 ; 666.9 70.9 -23.6 -54.5 -69.0
78.25 32.25 163.6 ; 2026 25.0 ; 1000.0 279.4 -22.2 -61.8 -9999.0
78.25 32.75 80.1 ; 2027 33.5 ; 1000.0 342.7 -18.1 -61.0 -9999.0
78.25 33.25 94.1 ; 2033 66.1 ; 928.7 449.9 -8.5 -46.1 64.1
78.25 33.75 185.8 ; 2037 62.3 ; 402.6 164.2 -5.4 -37.2 49.3
78.25 34.25 458.6 ; 2058 197.3 ; 884.5 597.2 68.0 61.9 340.6
78.25 34.75 615.3 ; 2052 185.4 ; 966.3 556.1 52.3 24.6 -9999.0
78.25 35.25 112.1 ; 2038 101.8 ; 639.0 279.0 3.1 -48.4 -16.0
78.25 35.75 54.9 ; 2034 64.3 ; 331.6 95.5 -9.3 -47.7 37.3
78.25 36.25 335.8 ; 2034 51.7 ; 281.6 82.6 -10.8 -42.9 4.2
78.25 36.75 207.6 ; 2033 45.5 ; 303.1 80.5 -11.2 -43.0 17.5
78.25 40.75 0.7 ; 2033 95.6 ; 664.1 270.9 -11.6 -48.5 -9999.0
78.25 41.25 120.1 ; 2029 47.2 ; 302.7 81.3 -14.8 -53.8 -13.2
78.25 41.75 227.2 ; 2043 52.2 ; 253.6 75.9 -6.3 -32.7 13.4
78.25 42.25 240.2 ; 2038 52.9 ; 272.8 72.2 -14.6 -39.9 -9.7
78.25 42.75 3.2 ; 2022 64.5 ; 323.0 72.8 -10.7 -65.7 -17.8
78.25 43.25 3.7 ; 2021 105.8 ; 296.7 89.5 0.7 -51.0 11.9
78.75 30.75 426.3 ; 2023 14.3 ; 394.7 35.6 -21.5 -43.5 -56.1
78.75 31.25 167.5 ; 2024 18.1 ; 764.7 75.4 -22.1 -47.1 74.8
78.75 31.75 116.3 ; 2024 22.0 ; 1000.0 151.2 -26.5 -56.9 109.0
78.75 32.25 87.2 ; 2018 23.1 ; 1000.0 270.5 -29.2 -58.5 -9999.0
78.75 32.75 3.2 ; 2016 20.2 ; 1000.0 271.2 -31.2 -62.8 -9999.0
78.75 33.75 32.2 ; 2036 54.1 ; 344.5 92.2 -11.2 -38.5 -12.7
78.75 34.25 302.0 ; 2054 168.1 ; 451.8 296.5 49.5 43.0 45.5
78.75 34.75 103.4 ; 2041 109.5 ; 446.8 184.8 11.0 -30.1 -24.1
78.75 35.25 125.8 ; 2034 44.9 ; 257.6 75.9 -10.7 -40.3 -0.3
78.75 35.75 248.9 ; 2035 51.4 ; 293.2 84.3 -7.7 -38.6 14.8
78.75 36.25 404.5 ; 2039 53.3 ; 250.2 78.3 -5.9 -31.4 11.4
78.75 36.75 17.7 ; 2027 40.8 ; 343.1 77.4 -18.9 -59.9 -30.4
78.75 41.25 12.0 ; 2027 55.3 ; 321.7 85.8 -14.6 -61.6 -21.3
78.75 41.75 194.8 ; 2030 53.0 ; 284.9 84.2 -9.1 -42.4 7.3
78.75 42.25 329.3 ; 2031 49.3 ; 280.4 82.0 -11.8 -46.0 3.2
78.75 44.75 1.0 ; 2033 231.5 ; 566.9 190.2 40.4 13.6 62.4
79.25 30.75 809.0 ; 2038 21.3 ; 295.1 53.8 -21.3 -41.5 -11.8
79.25 31.25 67.3 ; 2028 20.1 ; 920.6 103.5 -24.0 -50.5 -19.3
79.25 32.25 10.1 ; 2009 9.6 ; 1000.0 259.4 -34.1 -61.2 -9999.0
79.25 32.75 21.3 ; 2022 20.7 ; 1000.0 306.4 -35.0 -49.8 -9999.0
79.25 33.25 51.5 ; 2022 42.7 ; 319.8 79.5 -15.4 -57.0 -11.8
79.25 33.75 23.2 ; 2024 55.1 ; 288.8 75.2 -10.9 -55.0 -24.9
79.25 34.25 86.5 ; 2036 52.7 ; 308.0 104.2 -8.8 -41.6 33.5
79.25 34.75 1.6 ; 2028 39.7 ; 326.4 61.6 -12.6 -53.4 -37.5
79.25 35.25 7.3 ; 2023 44.8 ; 347.3 75.4 -15.9 -64.2 -14.6
79.25 35.75 93.3 ; 2037 51.3 ; 328.5 85.4 -5.7 -40.0 24.0
79.25 36.25 582.8 ; 2047 54.9 ; 244.7 75.1 -0.8 -21.1 26.0
79.25 41.75 99.9 ; 2031 45.4 ; 283.7 79.8 -13.6 -44.6 -12.8

79.25 42.25 182.2 ; 2034 45.9 ; 287.3 79.6 -14.0 -48.5 -4.5
79.25 42.75 0.1 ; 2024 28.4 ; 480.4 77.4 -24.7 -68.5 -9999.0
79.25 45.25 87.0 ; 2034 49.2 ; 298.7 81.3 -9.8 -45.1 -8.5
79.75 30.25 447.0 ; 2034 14.0 ; 185.9 34.1 -14.7 -36.7 -54.6
79.75 30.75 568.3 ; 2028 20.8 ; 295.8 46.3 -24.3 -42.8 -40.2
79.75 31.25 61.0 ; 2042 27.4 ; 921.4 153.7 -20.8 -43.7 -9999.0
79.75 31.75 33.8 ; 2035 42.9 ; 921.7 249.5 -24.4 -39.7 -9999.0
79.75 32.25 134.4 ; 2025 30.1 ; 1000.0 243.9 -30.8 -48.9 433.5
79.75 32.75 9.3 ; 2028 48.9 ; 319.3 65.5 -13.2 -62.9 -15.1
79.75 33.25 30.1 ; 2020 53.8 ; 328.0 72.5 -12.6 -61.4 22.0
79.75 33.75 42.0 ; 2029 54.2 ; 306.7 80.7 -12.2 -54.0 -12.6
79.75 34.25 286.2 ; 2046 61.6 ; 209.3 75.7 -0.3 -17.9 3.4
79.75 34.75 10.4 ; 2040 49.5 ; 323.7 81.6 -12.6 -35.4 -21.6
79.75 35.75 533.8 ; 2042 49.2 ; 243.8 74.4 -7.4 -31.1 19.2
79.75 36.25 209.7 ; 2045 64.1 ; 291.3 95.1 -1.4 -23.9 63.9
79.75 41.75 631.0 ; 2060 78.5 ; 130.0 56.3 16.3 5.1 43.8
79.75 42.25 108.1 ; 2052 67.3 ; 275.8 51.7 -17.4 -37.8 15.4
79.75 44.75 49.0 ; 2025 50.2 ; 291.6 79.5 -12.1 -53.2 -7.8
79.75 45.25 100.8 ; 2023 50.3 ; 322.8 87.1 -15.1 -58.4 -10.4
80.25 30.25 789.9 ; 2030 23.3 ; 137.5 38.4 8.6 -20.5 -20.4
80.25 30.75 187.1 ; 2022 11.2 ; 353.6 55.9 -16.1 -45.6 -73.4
80.25 31.25 8.6 ; 2016 25.2 ; 922.4 315.4 -37.0 -64.9 -9999.0
80.25 31.75 14.9 ; 2001 12.9 ; 947.1 329.3 -42.0 -66.6 -21.4
80.25 32.25 2.9 ; 2005 13.7 ; 1000.0 237.9 -43.1 -57.8 -9999.0
80.25 32.75 4.7 ; 2042 61.9 ; 465.9 97.3 -13.1 -26.8 56.0
80.25 33.75 0.7 ; 2022 27.3 ; 324.2 70.6 -25.1 -71.9 -58.1
80.25 34.25 115.0 ; 2047 57.7 ; 278.0 85.9 -0.8 -23.6 33.4
80.25 34.75 17.8 ; 2035 53.3 ; 362.5 104.6 -10.7 -42.2 -25.0
80.25 35.25 188.5 ; 2061 89.8 ; 250.9 89.0 16.8 11.4 110.8
80.25 35.75 669.9 ; 2057 70.8 ; 302.4 99.8 14.0 -3.1 23.4
80.25 36.25 137.6 ; 2035 57.1 ; 295.4 87.2 -11.0 -42.9 6.5
80.25 36.75 1.6 ; 2017 47.0 ; 316.6 55.3 -18.3 -71.7 -35.2
80.25 41.75 372.4 ; 2049 52.9 ; 146.3 43.0 -3.8 -17.0 18.2
80.25 42.25 1283.8 ; 2045 49.7 ; 63.8 21.6 -1.9 -8.5 15.6
80.25 42.75 171.9 ; 2040 50.4 ; 249.6 79.5 -5.3 -28.3 19.6
80.25 44.25 71.8 ; 2029 48.3 ; 301.4 78.8 -14.0 -50.8 -9.3
80.25 44.75 93.0 ; 2032 48.1 ; 314.0 82.3 -13.4 -46.4 12.0
80.25 45.25 70.0 ; 2040 46.5 ; 295.1 80.4 -12.0 -42.1 -1.2
80.75 29.75 28.8 ; 2051 27.8 ; 124.6 34.8 8.0 -13.5 80.0
80.75 30.25 507.1 ; 2043 25.5 ; 239.4 43.0 3.5 -21.4 72.5
80.75 30.75 81.0 ; 2029 25.5 ; 947.9 111.6 -4.8 -47.4 -23.1
80.75 31.25 12.1 ; 2010 17.8 ; 921.5 183.6 -21.7 -42.9 -9999.0
80.75 31.75 40.4 ; 2003 18.9 ; 947.1 258.2 -32.5 -55.7 -9999.0
80.75 34.25 136.1 ; 2052 79.2 ; 366.0 106.0 13.9 0.0 12.8
80.75 34.75 155.8 ; 2047 52.8 ; 265.2 79.2 -3.9 -24.1 8.0
80.75 35.25 1435.1 ; 2080 186.7 ; 296.7 211.7 98.5 115.2 205.4
80.75 35.75 343.4 ; 2034 45.7 ; 225.9 73.0 -8.4 -36.5 -4.5
80.75 36.25 8.7 ; 2025 33.6 ; 276.3 65.3 -20.4 -61.1 -44.8
80.75 41.75 249.3 ; 2051 62.1 ; 210.9 78.0 6.6 -6.0 23.4
80.75 42.25 664.9 ; 2048 63.7 ; 137.3 61.0 2.7 -8.5 11.3
80.75 42.75 172.4 ; 2037 51.3 ; 302.7 87.4 -8.7 -37.9 22.7
80.75 44.25 26.6 ; 2030 48.3 ; 301.7 85.2 -15.0 -56.3 -10.0
80.75 44.75 57.9 ; 2025 46.1 ; 311.7 86.7 -13.1 -52.1 5.4
80.75 45.25 39.8 ; 2033 46.4 ; 325.7 76.2 -16.2 -46.5 -14.5

81.25 29.75 147.2 ; 2043 26.5 ; 239.8 41.0 5.9 -17.6 96.8
81.25 30.25 254.8 ; 2050 28.4 ; 310.1 57.2 5.2 -19.2 146.1
81.25 30.75 62.3 ; 2030 25.0 ; 1000.0 136.6 -7.3 -41.1 293.6
81.25 31.25 113.9 ; 2019 20.9 ; 913.0 194.7 -26.3 -49.9 -21.1
81.25 31.75 1.8 ; 2013 18.4 ; -9999.0 142.5 -23.8 -40.1 -9999.0
81.25 32.75 137.1 ; 2040 53.6 ; 284.6 87.1 -9.5 -32.0 21.8
81.25 34.25 181.1 ; 2036 47.0 ; 267.5 71.0 -11.7 -36.1 3.9
81.25 34.75 14.6 ; 2028 42.6 ; 317.3 77.7 -19.0 -58.1 -7.3
81.25 35.25 1031.5 ; 2066 83.3 ; 136.4 74.4 28.8 28.9 33.9
81.25 35.75 295.0 ; 2036 48.0 ; 274.4 80.1 -10.5 -39.2 4.6
81.25 36.25 6.3 ; 2030 38.5 ; 351.5 71.7 -15.8 -58.2 -38.2
81.25 41.75 38.2 ; 2032 59.3 ; 307.5 77.7 -8.4 -40.4 2.5
81.25 42.25 324.3 ; 2041 53.4 ; 226.8 71.8 -6.5 -30.5 9.2
81.25 42.75 312.5 ; 2036 52.5 ; 255.5 79.7 -6.4 -34.6 7.8
81.25 44.25 5.2 ; 2047 96.4 ; 480.8 141.7 -8.9 -33.3 186.1
81.25 44.75 4.5 ; 2028 69.3 ; 411.6 101.7 -16.3 -62.6 -35.8
81.25 45.25 18.4 ; 2027 54.9 ; 333.6 90.1 -9.7 -51.0 31.6
81.75 29.75 71.8 ; 2051 31.1 ; 222.1 42.6 9.2 -19.1 -15.6
81.75 30.25 182.8 ; 2050 35.3 ; 683.1 69.7 -0.6 -24.2 130.5
81.75 30.75 26.1 ; 2029 21.0 ; 601.6 146.8 -17.7 -51.3 -15.8
81.75 31.25 18.5 ; 2024 17.6 ; 505.7 114.5 -24.6 -53.6 49.4
81.75 31.75 5.5 ; 2017 33.9 ; 402.4 107.3 -22.0 -64.1 -26.3
81.75 33.25 4.7 ; 2031 48.6 ; 305.1 76.8 -18.4 -57.0 -27.2
81.75 33.75 33.2 ; 2042 69.4 ; 390.6 119.7 -4.9 -40.8 -5.5
81.75 34.25 156.5 ; 2045 54.9 ; 242.9 84.0 -7.1 -29.9 11.3
81.75 34.75 38.3 ; 2039 56.4 ; 329.1 97.1 -3.5 -27.8 -17.3
81.75 35.25 370.9 ; 2053 59.6 ; 179.5 66.3 4.1 -8.0 8.7
81.75 35.75 118.0 ; 2038 54.0 ; 259.4 84.3 -11.6 -42.4 15.3
81.75 36.25 60.2 ; 2039 52.5 ; 318.7 91.0 -9.7 -37.0 4.8
81.75 42.25 150.4 ; 2034 50.6 ; 288.8 76.2 -12.3 -41.9 -3.6
81.75 42.75 244.6 ; 2031 45.2 ; 280.4 79.5 -15.3 -49.3 -0.9
81.75 44.25 0.6 ; 2029 66.9 ; 367.2 72.6 -12.6 -66.1 17.6
81.75 44.75 21.1 ; 2041 68.5 ; 398.9 108.2 -7.2 -26.9 30.5
81.75 45.25 3.3 ; 2023 42.3 ; 311.4 76.3 -18.6 -63.8 16.9
81.75 45.75 0.2 ; 2021 778.8 ; 438.8 107.2 44.9 -50.0 -4.6
82.25 28.75 0.1 ; 2052 33.5 ; 671.4 21.1 9.9 -4.6 -73.7
82.25 29.25 7.4 ; 2046 31.8 ; 461.2 19.2 9.1 -6.5 -60.6
82.25 29.75 111.1 ; 2047 31.5 ; 581.4 41.3 4.5 -18.0 37.0
82.25 30.25 308.5 ; 2048 49.5 ; 336.7 77.1 1.5 -16.1 53.4
82.25 30.75 1.1 ; 2021 127.6 ; 363.0 109.1 -2.5 -65.3 -2.2
82.25 31.25 135.4 ; 2036 52.8 ; 318.8 91.3 -7.1 -38.3 12.6
82.25 31.75 10.7 ; 2037 66.9 ; 382.9 114.4 -10.7 -37.6 44.7
82.25 33.25 14.5 ; 2039 68.6 ; 564.3 154.1 -11.2 -38.6 -2.6
82.25 33.75 142.0 ; 2047 83.9 ; 269.1 105.9 2.2 -14.8 53.7
82.25 34.25 281.0 ; 2057 79.0 ; 296.9 110.0 16.3 2.4 23.9
82.25 34.75 44.6 ; 2044 54.6 ; 344.6 87.4 -7.1 -30.9 -8.2
82.25 35.25 191.9 ; 2040 42.7 ; 162.8 51.1 -9.6 -25.6 22.6
82.25 35.75 334.3 ; 2046 59.0 ; 245.3 78.9 -0.6 -19.9 18.2
82.25 36.25 127.5 ; 2031 52.2 ; 280.2 86.4 -13.5 -47.4 -9.2
82.25 42.25 50.7 ; 2029 56.5 ; 338.1 87.8 -16.3 -56.9 -3.0
82.25 42.75 184.2 ; 2033 49.5 ; 290.4 86.5 -10.7 -44.7 -11.2
82.25 44.25 5.7 ; 2035 36.0 ; 289.2 70.9 -16.1 -56.7 -19.0
82.75 28.75 2.8 ; 2047 32.6 ; 664.4 30.6 8.1 -9.8 -8.2
82.75 29.25 277.0 ; 2045 31.7 ; 355.1 46.8 1.3 -15.7 -16.2

82.75 29.75 287.2 ; 2048 43.4 ; 527.6 105.0 -0.4 -17.3 60.2
82.75 30.75 156.5 ; 2030 46.7 ; 284.5 79.5 -15.6 -52.9 -20.4
82.75 31.25 109.6 ; 2036 53.4 ; 285.2 85.0 -9.6 -42.9 22.8
82.75 31.75 15.2 ; 2043 53.6 ; 423.6 104.4 -14.0 -43.7 -33.6
82.75 33.75 3.7 ; 2027 51.6 ; 556.8 133.0 -22.2 -51.0 -9999.0
82.75 34.25 1.1 ; 2030 63.7 ; 613.4 171.4 -19.8 -55.4 -9999.0
82.75 34.75 3.2 ; 2041 60.6 ; 437.1 102.6 -14.4 -50.3 -15.5
82.75 35.75 10.0 ; 2036 51.6 ; 331.6 83.2 -10.6 -49.9 -21.6
82.75 36.25 73.1 ; 2029 51.2 ; 250.6 86.2 -11.1 -42.8 21.0
82.75 42.25 31.4 ; 2024 50.3 ; 342.6 83.9 -17.5 -59.0 -12.0
82.75 42.75 189.2 ; 2026 44.1 ; 288.9 76.5 -15.3 -52.1 -4.1
82.75 43.25 0.3 ; 2030 199.9 ; 342.0 113.1 59.5 23.5 171.4
82.75 43.75 6.4 ; 2023 38.5 ; 303.0 64.1 -15.9 -64.6 -13.7
82.75 44.25 0.7 ; 2025 86.1 ; 415.5 76.0 -12.6 -64.1 31.1
83.25 28.75 330.4 ; 2050 39.4 ; 334.8 67.0 5.8 -9.9 -20.0
83.25 29.25 32.3 ; 2034 33.0 ; 485.8 76.9 -4.3 -34.8 -37.5
83.25 29.75 13.1 ; 2024 35.5 ; 318.5 73.1 -18.0 -57.8 -21.1
83.25 30.25 0.1 ; 2021 24.3 ; 322.7 33.5 -27.9 -65.4 -36.2
83.25 30.75 98.8 ; 2030 46.1 ; 308.2 81.2 -13.1 -48.8 -22.3
83.25 31.25 173.1 ; 2042 51.6 ; 286.3 87.5 -7.3 -30.1 -5.8
83.25 31.75 132.4 ; 2041 68.6 ; 258.4 85.2 1.7 -18.9 36.7
83.25 33.75 7.0 ; 2042 59.9 ; 429.6 119.3 -14.3 -45.4 123.0
83.25 36.25 16.3 ; 2026 36.3 ; 316.2 82.4 -22.9 -60.4 -36.6
83.25 36.75 0.8 ; 2034 1524.1 ; 580.5 262.3 89.8 37.0 -9999.0
83.25 42.25 38.3 ; 2025 49.1 ; 351.0 80.8 -15.5 -61.0 -19.9
83.25 42.75 143.4 ; 2037 46.6 ; 310.7 84.8 -11.8 -41.4 -11.5
83.25 43.25 11.2 ; 2022 48.8 ; 347.9 81.3 -17.3 -61.6 -20.5
83.25 43.75 17.0 ; 2025 63.6 ; 256.5 82.6 -12.2 -55.5 2.9
83.25 44.25 181.5 ; 2031 44.5 ; 303.7 81.1 -14.2 -47.2 -8.8
83.75 28.25 2.0 ; 2050 32.4 ; 207.8 18.2 8.6 -2.0 3.9
83.75 28.75 354.7 ; 2049 34.3 ; 184.3 39.8 6.0 -7.6 -21.4
83.75 29.25 265.7 ; 2044 45.1 ; 375.4 119.7 -9.1 -35.2 14.2
83.75 29.75 1.0 ; 2023 110.0 ; 536.4 134.6 0.1 -59.6 39.8
83.75 30.25 79.2 ; 2025 49.0 ; 305.6 82.0 -12.5 -55.3 -6.0
83.75 30.75 151.1 ; 2033 50.3 ; 317.8 85.1 -13.7 -47.0 0.9
83.75 31.25 28.4 ; 2040 56.7 ; 315.7 96.8 -8.3 -32.7 -16.4
83.75 31.75 106.4 ; 2042 57.0 ; 312.5 93.3 -5.6 -27.5 21.6
83.75 42.25 33.4 ; 2022 48.7 ; 309.6 76.6 -15.3 -60.1 -9.0
83.75 42.75 24.3 ; 2026 60.7 ; 348.0 98.2 -10.4 -55.9 -3.7
83.75 43.25 64.4 ; 2027 45.3 ; 308.1 80.8 -14.6 -52.5 -7.3
83.75 43.75 77.6 ; 2034 51.8 ; 291.4 80.4 -9.6 -39.1 4.2
83.75 44.25 326.3 ; 2040 60.3 ; 257.5 80.6 -5.1 -28.5 27.1
83.75 50.25 1.5 ; 1995 10.4 ; 166.6 28.7 -35.3 -66.6 -73.5
84.25 28.25 26.0 ; 2057 33.3 ; 209.2 18.5 9.4 -1.6 27.5
84.25 28.75 619.7 ; 2047 36.1 ; 168.8 48.7 2.7 -12.7 -12.6
84.25 29.25 1.5 ; 2026 63.5 ; 260.6 66.2 -9.3 -59.1 -16.4
84.25 29.75 5.7 ; 2021 83.4 ; 308.1 105.8 -8.7 -60.3 -7.7
84.25 30.25 11.4 ; 2032 44.7 ; 352.2 106.4 -18.5 -56.5 -46.0
84.25 30.75 81.0 ; 2026 41.3 ; 284.3 80.4 -18.2 -54.8 -22.8
84.25 34.25 5.0 ; 2030 66.9 ; 551.3 128.1 -18.2 -42.4 -56.2
84.25 36.75 23.8 ; 2034 51.6 ; 355.3 91.3 -12.8 -48.2 -26.6
84.25 42.25 39.7 ; 2029 50.1 ; 293.4 83.9 -12.6 -56.8 -11.8
84.25 42.75 4.9 ; 2028 32.0 ; 418.9 63.6 -25.4 -68.7 -52.4
84.25 43.25 14.0 ; 2025 69.5 ; 372.9 94.3 -8.8 -52.4 26.7

84.25 43.75 109.0 ; 2027 53.4 ; 324.2 90.3 -10.9 -49.2 6.2
84.25 44.25 97.9 ; 2026 48.9 ; 314.7 84.1 -13.9 -53.0 -16.4
84.25 50.25 0.9 ; 1998 12.3 ; 148.1 31.8 -39.0 -65.6 -82.4
84.25 51.25 0.2 ; 1996 12.5 ; 248.3 32.1 -36.3 -67.5 -90.4
84.75 28.25 154.8 ; 2050 34.6 ; 39.6 19.0 16.6 10.9 -13.8
84.75 28.75 340.1 ; 2041 31.6 ; 109.1 24.7 7.2 -5.4 -22.1
84.75 29.75 196.0 ; 2036 55.5 ; 305.4 93.4 -10.7 -41.0 30.1
84.75 30.25 248.0 ; 2031 55.7 ; 299.7 86.9 -9.3 -41.4 5.6
84.75 30.75 3.6 ; 2028 38.9 ; 282.2 65.2 -15.3 -60.8 1.0
84.75 31.75 33.4 ; 2035 54.8 ; 325.5 97.3 -9.7 -41.4 -17.8
84.75 33.25 4.5 ; 2032 40.1 ; 464.2 110.2 -18.3 -57.8 -31.2
84.75 36.75 191.5 ; 2033 54.5 ; 311.8 91.1 -11.8 -46.6 -2.9
84.75 42.25 20.5 ; 2026 53.1 ; 363.4 91.4 -15.2 -56.6 -5.3
84.75 42.75 22.4 ; 2021 57.3 ; 326.0 80.7 -13.2 -62.4 20.4
84.75 43.25 247.5 ; 2038 49.0 ; 274.7 82.9 -8.9 -38.8 3.6
84.75 43.75 353.7 ; 2033 47.0 ; 281.9 78.6 -7.1 -35.4 7.2
84.75 44.25 0.8 ; 2025 50.1 ; 335.8 71.3 -21.8 -67.3 16.8
85.25 28.25 189.1 ; 2038 30.1 ; 97.3 11.4 7.4 -1.0 -14.8
85.25 28.75 259.0 ; 2036 32.4 ; 249.3 23.6 4.4 -11.8 -19.2
85.25 29.25 27.5 ; 2030 45.3 ; 322.3 83.8 -16.2 -52.5 -28.2
85.25 29.75 40.8 ; 2027 46.7 ; 322.3 82.5 -14.8 -54.8 -2.4
85.25 30.25 0.7 ; 2019 86.5 ; 499.1 95.0 -14.1 -62.4 -5.0
85.25 31.25 13.5 ; 2040 67.5 ; 570.5 134.4 -2.4 -27.4 31.8
85.25 31.75 40.7 ; 2034 46.2 ; 271.1 76.9 -13.8 -42.0 -7.8
85.25 33.25 29.0 ; 2033 54.1 ; 357.9 101.9 -15.3 -45.3 -11.5
85.25 34.75 26.8 ; 2034 55.2 ; 451.3 90.5 -19.3 -44.0 -3.0
85.25 36.75 47.6 ; 2031 53.7 ; 322.0 91.8 -15.3 -46.9 7.9
85.25 42.25 0.5 ; 2031 83.7 ; 376.9 79.2 -2.9 -59.0 -25.9
85.25 42.75 207.6 ; 2027 51.1 ; 298.3 86.2 -13.0 -48.7 -9.7
85.25 43.25 365.7 ; 2041 50.7 ; 288.3 80.7 -9.9 -35.9 7.9
85.25 43.75 301.6 ; 2043 58.2 ; 297.3 89.5 -2.8 -24.3 51.2
85.25 46.75 6.8 ; 2014 21.6 ; 248.0 46.9 -39.4 -60.3 -65.5
85.25 48.75 0.3 ; 2002 26.6 ; 283.2 30.6 -37.6 -61.5 -9999.0
85.25 49.25 5.9 ; 1998 14.1 ; 185.7 37.4 -40.4 -66.4 -77.6
85.25 49.75 0.4 ; 1995 11.0 ; 146.3 28.9 -34.3 -66.0 -67.7
85.75 28.25 659.1 ; 2043 39.8 ; 245.3 30.1 5.5 -6.0 19.1
85.75 28.75 86.0 ; 2043 38.8 ; 274.5 38.2 1.9 -13.6 -7.8
85.75 29.75 21.8 ; 2028 60.4 ; 345.7 84.5 -10.5 -53.7 29.2
85.75 30.25 92.3 ; 2026 52.0 ; 301.0 86.4 -13.9 -56.3 2.6
85.75 33.25 5.8 ; 2045 96.9 ; 420.5 121.1 5.5 -8.0 -9999.0
85.75 33.75 5.6 ; 2032 57.7 ; 462.7 111.7 -18.7 -42.4 14.6
85.75 34.25 324.8 ; 2059 88.7 ; 264.8 102.9 18.6 8.7 47.3
85.75 34.75 30.8 ; 2035 72.0 ; 331.1 100.8 -6.9 -35.4 -14.6
85.75 35.75 107.2 ; 2049 64.9 ; 292.4 87.0 -1.2 -13.0 51.5
85.75 37.25 102.1 ; 2038 55.1 ; 290.4 84.7 -9.0 -35.0 11.3
85.75 42.25 0.8 ; 2017 44.2 ; 297.6 68.4 -21.6 -75.8 -70.4
85.75 42.75 36.2 ; 2027 46.0 ; 300.3 78.9 -13.5 -48.5 22.3
85.75 43.25 60.0 ; 2026 46.2 ; 301.3 84.0 -14.4 -56.0 -15.1
85.75 43.75 180.2 ; 2027 48.0 ; 277.8 77.3 -14.7 -52.7 -9.8
85.75 46.75 23.0 ; 2011 20.5 ; 273.8 53.7 -42.2 -61.2 -60.2
85.75 48.75 1.0 ; 1997 12.4 ; 163.0 30.2 -38.5 -66.3 -72.0
85.75 49.25 4.1 ; 1998 11.0 ; 151.3 27.3 -36.2 -65.2 -70.4
85.75 49.75 23.1 ; 1999 12.0 ; 165.8 34.1 -39.6 -64.8 -60.4
86.25 27.75 112.3 ; 2052 35.6 ; 447.7 22.0 0.2 -9.9 -8.1

86.25 28.25 384.4 ; 2053 43.8 ; 636.5 38.8 0.4 -14.0 7.8
86.25 28.75 7.3 ; 2034 37.6 ; 625.6 69.0 -13.9 -31.1 8.3
86.25 29.25 28.1 ; 2021 58.8 ; 316.3 84.7 -12.5 -58.7 16.5
86.25 29.75 48.7 ; 2023 50.7 ; 317.8 80.1 -14.9 -60.5 -24.7
86.25 30.25 107.7 ; 2032 52.0 ; 310.2 87.7 -12.2 -49.7 3.6
86.25 30.75 93.7 ; 2053 64.9 ; 357.4 105.1 9.9 -5.2 23.0
86.25 31.25 2.9 ; 2024 93.7 ; 371.9 110.9 -13.2 -64.6 23.0
86.25 37.25 4.3 ; 2031 61.9 ; 377.4 92.9 -13.2 -60.5 5.4
86.25 43.25 1.0 ; 2027 86.0 ; 424.9 87.5 -0.3 -49.6 -8.5
86.25 43.75 151.1 ; 2030 51.1 ; 291.9 81.3 -8.8 -44.7 14.1
86.25 49.25 2.1 ; 1996 10.7 ; 150.2 26.4 -36.3 -64.1 -67.8
86.25 49.75 55.9 ; 1999 13.6 ; 190.7 39.2 -40.6 -63.8 -44.5
86.75 27.75 497.6 ; 2055 42.8 ; 353.9 26.4 4.9 -5.4 38.6
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87.25 28.25 143.5 ; 2047 42.8 ; 496.4 44.7 -4.0 -20.3 3.7
87.25 28.75 37.3 ; 2026 61.8 ; 345.9 96.6 -9.6 -42.9 33.7
87.25 29.25 32.3 ; 2027 48.8 ; 314.1 82.9 -12.8 -48.4 27.7
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87.25 31.25 5.1 ; 2025 73.2 ; 355.6 86.1 -10.7 -58.5 25.7
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87.25 33.25 64.7 ; 2041 61.6 ; 387.5 96.0 -10.0 -34.1 39.5
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87.25 48.75 23.8 ; 1996 10.5 ; 146.7 29.0 -37.4 -65.3 -67.4
87.25 49.25 131.3 ; 2010 18.1 ; 190.5 41.3 -38.9 -58.4 -40.6
87.25 49.75 53.1 ; 2001 14.3 ; 200.1 42.4 -36.7 -60.7 -38.5
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87.75 27.75 268.3 ; 2042 34.8 ; 405.4 31.5 -5.7 -24.5 9.4
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87.75 32.25 37.6 ; 2041 49.3 ; 298.1 86.5 -10.4 -36.1 -21.2
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87.75 37.25 128.8 ; 2033 49.2 ; 286.4 84.1 -10.5 -42.6 -3.6
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87.75 42.75 4.3 ; 2019 65.6 ; 333.9 73.2 -8.9 -62.1 -26.8
87.75 43.25 14.2 ; 2022 45.3 ; 335.7 85.2 -20.3 -67.2 -35.7
87.75 48.25 0.4 ; 1998 12.4 ; 157.2 26.9 -34.5 -70.4 -9999.0
87.75 48.75 70.1 ; 2001 15.6 ; 197.6 44.9 -38.9 -60.0 -47.7
87.75 49.25 152.1 ; 2021 25.9 ; 246.8 54.2 -40.6 -58.4 -34.2
87.75 49.75 126.1 ; 2013 20.2 ; 193.9 39.4 -39.5 -56.4 -34.2
87.75 50.25 101.8 ; 2007 18.2 ; 210.6 46.8 -36.0 -57.2 -33.4
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88.25 37.75 112.4 ; 2033 50.3 ; 325.1 91.5 -12.5 -41.5 27.2
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88.25 43.75 100.2 ; 2031 51.8 ; 300.0 83.9 -12.4 -40.1 -4.4
88.25 48.25 3.5 ; 1998 10.2 ; 150.3 29.2 -42.6 -65.7 -73.5
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88.25 54.25 2.5 ; 1995 8.1 ; 118.4 24.3 -33.0 -61.0 -74.5
88.75 27.75 226.6 ; 2048 26.3 ; 208.6 24.3 -7.7 -26.1 -0.5
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88.75 36.75 0.6 ; 2028 1554.5 ; 607.4 183.0 58.0 -20.2 -9999.0
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88.75 43.25 65.4 ; 2028 44.1 ; 279.6 76.3 -15.2 -54.2 -27.2
88.75 43.75 7.9 ; 2026 54.7 ; 344.2 87.3 -15.9 -62.6 17.6
88.75 48.25 26.7 ; 2004 16.6 ; 205.5 43.9 -40.5 -63.8 -65.3
88.75 48.75 4.1 ; 1996 12.0 ; 153.8 29.2 -37.0 -64.7 -76.9
88.75 49.25 51.3 ; 2004 16.6 ; 216.2 45.6 -41.0 -62.0 -43.8

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89.25 27.75 102.0 ; 2050 20.5 ; 141.3 17.2 -7.5 -25.1 -13.0
89.25 28.25 13.8 ; 2031 18.9 ; 260.4 14.2 -9.0 -30.2 -26.9
89.25 29.75 0.1 ; 2018 46.3 ; 626.5 92.4 -22.0 -72.6 -9999.0
89.25 30.25 43.1 ; 2023 44.1 ; 329.3 75.9 -18.5 -59.9 -17.5
89.25 33.75 158.7 ; 2053 86.4 ; 295.2 110.2 20.4 8.0 71.6
89.25 34.25 31.9 ; 2053 90.5 ; 367.8 146.8 9.5 -8.4 116.2
89.25 34.75 39.1 ; 2044 64.3 ; 370.4 99.7 -3.9 -24.0 27.9
89.25 35.75 101.5 ; 2047 73.7 ; 325.2 101.7 8.7 -12.5 12.1
89.25 36.75 6.4 ; 2024 59.5 ; 343.5 92.4 -16.6 -65.8 -30.0
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89.25 38.25 89.8 ; 2039 52.6 ; 279.5 87.9 -10.1 -40.3 -9.7
89.25 43.25 38.2 ; 2022 48.8 ; 315.1 81.7 -16.2 -61.9 9.6
89.25 43.75 2.3 ; 2020 74.9 ; 336.1 75.9 -11.0 -63.2 -6.0
89.25 47.75 0.5 ; 1997 12.4 ; 191.9 24.9 -43.5 -69.3 -9999.0
89.25 48.75 6.5 ; 2005 12.8 ; 198.4 45.1 -39.8 -61.9 -66.0
89.25 49.25 2.3 ; 2005 14.2 ; 170.5 41.2 -40.0 -64.0 -41.5
89.25 49.75 3.6 ; 2000 16.7 ; 250.8 47.7 -43.3 -65.2 -5.5
89.25 50.75 3.9 ; 2007 18.8 ; 192.9 46.2 -39.7 -63.4 -66.0
89.25 51.25 3.0 ; 1998 11.6 ; 202.2 31.5 -39.2 -66.7 -78.5
89.25 53.75 3.0 ; 1997 7.5 ; 116.3 25.1 -32.5 -61.4 -77.7
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89.75 27.75 39.9 ; 2036 20.1 ; 146.4 10.3 -8.8 -29.5 32.2
89.75 28.25 321.8 ; 2040 21.6 ; 182.5 22.4 -9.3 -28.4 2.6
89.75 28.75 0.5 ; 2019 38.3 ; 289.4 51.6 -22.8 -70.2 -25.3
89.75 29.25 0.2 ; 2013 20.2 ; 460.2 65.4 -25.4 -80.3 -82.6
89.75 29.75 20.5 ; 2023 56.4 ; 330.1 76.2 -9.8 -56.6 20.2
89.75 30.25 23.4 ; 2029 60.2 ; 369.7 98.3 -6.8 -48.2 21.6
89.75 33.75 218.5 ; 2058 76.8 ; 261.3 94.5 16.4 4.6 18.4
89.75 34.75 41.0 ; 2043 58.2 ; 293.4 94.4 -7.6 -27.2 -10.7
89.75 35.75 87.4 ; 2050 66.0 ; 240.2 69.6 -1.1 -14.7 32.4
89.75 36.25 55.9 ; 2028 47.8 ; 302.4 81.6 -14.3 -55.6 -3.1
89.75 36.75 53.6 ; 2023 57.0 ; 320.3 86.0 -11.7 -57.5 24.1
89.75 38.25 4.9 ; 2040 98.6 ; 311.3 97.5 -8.7 -41.8 42.9
89.75 43.25 20.1 ; 2027 47.2 ; 335.9 77.6 -16.0 -60.1 3.9
89.75 43.75 20.0 ; 2026 70.1 ; 310.6 83.6 -6.2 -57.1 24.7
89.75 47.75 3.2 ; 1998 10.0 ; 129.1 24.4 -38.5 -67.3 -70.2
89.75 48.75 0.4 ; 2006 9.4 ; 157.3 28.9 -41.3 -64.3 -78.6
89.75 49.25 24.4 ; 2008 18.1 ; 211.2 44.4 -38.1 -62.6 -51.0
89.75 50.75 16.9 ; 1998 13.6 ; 172.4 34.4 -40.6 -66.7 -70.0
89.75 51.25 0.6 ; 1999 12.4 ; 239.1 29.4 -38.1 -62.0 -75.3
89.75 68.75 0.1 ; 2011 13.0 ; 133.5 23.1 -30.5 -50.6 -9999.0
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90.25 47.75 4.4 ; 1996 9.7 ; 135.4 29.0 -37.5 -66.8 -76.2
90.25 48.25 9.5 ; 1998 11.6 ; 175.2 36.4 -40.2 -65.9 -56.5
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90.25 49.75 0.3 ; 1995 11.8 ; 180.1 32.4 -37.5 -67.4 -90.4
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90.75 29.75 25.9 ; 2024 47.7 ; 309.9 75.6 -12.1 -57.7 -12.4
90.75 30.25 199.8 ; 2045 49.1 ; 292.3 85.9 -5.2 -31.7 4.0
90.75 30.75 1.5 ; 2025 62.0 ; 325.7 66.7 -10.2 -66.6 -54.9
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90.75 33.75 176.2 ; 2052 72.2 ; 304.0 99.8 9.3 -5.9 24.1
90.75 34.25 19.2 ; 2031 49.5 ; 359.0 97.9 -16.8 -52.2 -9.2
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90.75 47.25 5.5 ; 2000 13.4 ; 186.5 37.3 -39.3 -66.2 -69.3
90.75 48.25 15.5 ; 2002 16.3 ; 183.0 37.9 -39.5 -62.9 -43.5
90.75 49.25 10.7 ; 2011 17.4 ; 218.9 47.1 -33.5 -60.5 -54.0
90.75 49.75 27.9 ; 2007 22.1 ; 224.1 46.3 -41.1 -59.1 -52.4
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91.25 32.75 164.7 ; 2057 58.6 ; 243.3 88.6 6.2 -8.6 15.7
91.25 33.25 523.2 ; 2058 72.7 ; 229.8 84.4 12.7 1.7 48.2
91.25 33.75 132.9 ; 2048 60.8 ; 325.6 92.8 -3.8 -28.1 4.3
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91.25 46.75 50.0 ; 2015 22.5 ; 289.2 59.7 -33.7 -57.0 -44.1
91.25 47.75 4.7 ; 2012 14.8 ; 440.6 79.2 -30.6 -65.2 -60.3
91.25 48.75 13.6 ; 2008 25.3 ; 283.2 51.4 -42.9 -62.8 -50.5
91.25 49.25 104.8 ; 2026 31.2 ; 274.5 59.6 -33.3 -54.1 -36.1
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91.75 27.75 50.0 ; 1999 8.3 ; 57.2 -2.6 -22.6 -36.4 -26.7
91.75 28.25 89.2 ; 2036 19.5 ; 202.1 28.7 -7.5 -29.3 -23.2
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91.75 31.25 5.9 ; 2024 53.0 ; 350.3 83.0 -13.0 -56.2 28.2
91.75 32.75 29.9 ; 2032 53.2 ; 323.9 95.4 -14.2 -50.7 -28.6
91.75 33.25 99.4 ; 2039 54.6 ; 315.4 89.4 -4.8 -26.2 22.9
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91.75 36.25 205.9 ; 2039 44.6 ; 211.7 69.4 -7.4 -29.8 -1.5
91.75 36.75 6.8 ; 2021 51.3 ; 316.9 79.5 -15.2 -61.3 -41.2
91.75 47.25 12.1 ; 2024 37.6 ; 396.6 66.0 -33.4 -54.7 -55.9
91.75 49.25 39.7 ; 2017 21.8 ; 242.9 58.9 -39.4 -58.4 -47.4
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92.25 31.25 0.4 ; 2020 67.5 ; 431.0 59.3 -18.6 -63.3 63.0
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92.25 47.25 14.2 ; 2017 24.3 ; 364.0 67.7 -36.1 -59.9 -34.7
92.25 69.75 0.7 ; 2001 10.4 ; 171.1 31.5 -35.4 -61.2 -78.8
92.75 27.75 360.7 ; 2030 11.7 ; 36.2 6.7 -11.3 -25.3 -6.5
92.75 28.25 334.1 ; 2055 19.8 ; 80.2 17.0 -4.0 -22.7 7.9
92.75 28.75 1.1 ; 2030 59.8 ; 540.8 145.3 -10.1 -60.7 106.6
92.75 29.25 16.2 ; 2027 54.6 ; 338.7 86.8 -15.4 -61.8 1.3
92.75 29.75 135.2 ; 2025 44.3 ; 293.9 78.3 -15.0 -56.4 -15.2
92.75 30.25 14.7 ; 2023 63.5 ; 322.8 91.8 -11.9 -59.6 21.8
92.75 32.25 11.4 ; 2025 41.1 ; 321.6 76.6 -17.6 -61.0 -19.2
92.75 32.75 61.2 ; 2029 44.0 ; 313.9 81.1 -16.8 -54.8 15.0
92.75 33.25 148.3 ; 2033 50.1 ; 270.6 84.3 -13.0 -43.5 -4.7
92.75 33.75 0.5 ; 2026 119.4 ; 381.4 95.4 -5.8 -65.1 -1.8
92.75 35.75 42.1 ; 2031 62.2 ; 353.6 94.2 -10.6 -49.6 10.8
92.75 46.75 6.8 ; 2018 49.5 ; 385.8 68.9 -31.4 -53.1 -9999.0
93.25 27.75 4.7 ; 1994 3.1 ; -45.1 -52.4 -59.6 -65.5 -63.1
93.25 28.75 122.1 ; 2025 17.4 ; 86.1 24.9 -12.8 -36.2 48.5
93.25 29.25 14.0 ; 2020 68.1 ; 353.9 85.3 -11.5 -60.2 15.0
93.25 29.75 128.3 ; 2025 48.1 ; 292.0 85.2 -14.8 -56.9 -18.8
93.25 30.25 326.9 ; 2040 45.5 ; 249.1 75.5 -8.4 -36.8 -3.3
93.25 30.75 74.3 ; 2025 42.1 ; 300.5 80.3 -15.6 -57.1 -26.8
93.25 31.25 65.2 ; 2025 49.8 ; 319.1 81.5 -14.7 -56.3 -13.6
93.25 31.75 104.4 ; 2050 57.4 ; 310.0 45.7 -15.1 -31.4 64.5
93.25 32.25 2.9 ; 2021 100.1 ; 395.1 95.4 0.1 -54.2 -13.3
93.25 32.75 15.0 ; 2023 50.8 ; 282.9 76.3 -13.3 -63.6 -20.0
93.25 33.25 36.6 ; 2027 49.5 ; 330.8 86.2 -15.7 -54.0 -16.0
93.25 33.75 0.4 ; 2029 68.7 ; 589.8 110.1 -13.1 -53.4 -9999.0
93.25 34.25 0.3 ; 2034 86.3 ; 357.2 68.8 3.6 -52.3 -14.1
93.25 35.75 115.9 ; 2033 51.4 ; 324.3 87.3 -13.3 -44.3 28.6
93.25 46.75 7.2 ; 2010 23.9 ; 274.8 53.0 -39.9 -61.5 -71.0
93.75 28.75 43.6 ; 2031 30.2 ; 130.8 49.0 -8.5 -39.8 36.5
93.75 29.25 23.0 ; 2040 64.3 ; 286.7 89.8 -7.9 -34.7 19.2

93.75 29.75 54.0 ; 2025 45.5 ; 314.4 77.6 -13.8 -53.3 -5.8
93.75 30.25 852.3 ; 2044 45.7 ; 158.3 50.5 -7.5 -21.8 13.3
93.75 30.75 352.0 ; 2036 44.3 ; 278.0 80.8 -14.0 -47.1 3.8
93.75 31.25 139.6 ; 2029 40.3 ; 260.9 72.7 -15.3 -48.6 -6.3
93.75 31.75 2.2 ; 2029 111.8 ; 367.1 124.0 -1.6 -20.4 12.5
93.75 32.25 7.5 ; 2021 51.1 ; 361.3 75.7 -16.1 -64.9 -14.7
93.75 32.75 2.5 ; 2024 192.5 ; 460.2 132.0 28.5 9.5 17.2
93.75 33.25 0.3 ; 2013 24.1 ; 489.4 55.2 -34.1 -81.6 -9999.0
93.75 34.25 3.7 ; 2032 35.7 ; 373.9 76.4 -18.5 -60.9 9.7
93.75 35.25 21.2 ; 2043 53.0 ; 322.9 88.2 -10.7 -37.8 -31.3
93.75 35.75 55.0 ; 2035 56.1 ; 296.8 82.1 -10.0 -39.4 49.7
93.75 39.25 51.8 ; 2030 49.0 ; 301.7 82.5 -14.8 -50.4 -1.4
93.75 46.75 7.8 ; 2006 20.2 ; 363.8 61.3 -30.7 -55.9 -54.0
94.25 29.25 18.1 ; 2032 57.4 ; 295.6 92.6 -6.1 -46.2 -7.9
94.25 29.75 10.4 ; 2028 49.6 ; 336.2 90.5 -14.0 -53.6 15.8
94.25 30.25 792.9 ; 2043 39.4 ; 121.5 46.2 -7.3 -24.4 42.3
94.25 30.75 444.1 ; 2046 49.7 ; 194.2 60.4 -4.4 -20.8 18.8
94.25 31.25 24.9 ; 2021 43.4 ; 302.9 74.7 -16.2 -61.9 -20.4
94.25 31.75 3.8 ; 2033 46.8 ; 334.6 85.7 -12.8 -55.6 17.2
94.25 32.25 22.9 ; 2024 59.8 ; 349.9 88.9 -13.0 -60.8 22.8
94.25 32.75 11.8 ; 2023 38.7 ; 349.5 77.5 -22.7 -69.0 -41.5
94.25 33.25 0.9 ; 2026 28.4 ; 371.2 58.5 -23.3 -65.9 24.4
94.25 35.25 14.6 ; 2027 64.9 ; 399.6 113.1 -15.3 -59.3 -13.8
94.25 35.75 94.6 ; 2037 59.3 ; 312.5 100.8 -6.8 -39.6 7.5
94.75 29.25 87.9 ; 2044 26.9 ; 91.3 38.5 -5.8 -30.7 21.0
94.75 29.75 247.9 ; 2049 54.6 ; 182.4 64.1 2.5 -10.7 14.4
94.75 30.25 704.8 ; 2060 46.5 ; 149.4 50.0 1.1 -10.6 51.0
94.75 30.75 467.3 ; 2053 43.0 ; 109.7 33.6 -0.8 -7.6 36.5
94.75 31.25 214.0 ; 2048 51.6 ; 230.0 70.0 0.8 -17.3 30.7
94.75 31.75 214.7 ; 2051 54.0 ; 272.8 81.7 -0.4 -20.8 29.8
94.75 32.25 9.6 ; 2025 46.6 ; 315.4 80.6 -21.1 -67.3 -37.4
94.75 32.75 1.0 ; 2024 39.1 ; 427.5 112.6 -21.4 -65.6 4.0
94.75 33.25 7.0 ; 2021 82.4 ; 279.9 80.3 -0.5 -55.5 4.3
94.75 33.75 148.4 ; 2034 51.5 ; 283.2 84.4 -10.9 -41.3 4.9
94.75 34.25 1.4 ; 2034 70.2 ; 463.8 79.0 -10.2 -57.2 114.2
94.75 35.75 84.9 ; 2032 46.2 ; 301.4 86.3 -15.1 -50.0 -8.7
95.25 29.25 0.7 ; 2052 13.1 ; 35.6 13.1 -1.1 -21.5 12.4
95.25 29.75 383.4 ; 2050 26.1 ; 56.1 20.3 -1.5 -11.5 11.3
95.25 30.25 745.3 ; 2054 28.3 ; 100.3 27.5 1.0 -10.7 23.3
95.25 30.75 299.2 ; 2056 36.6 ; 233.4 41.0 0.3 -17.0 41.7
95.25 31.25 63.2 ; 2043 60.8 ; 307.3 75.2 -5.4 -27.9 8.3
95.25 31.75 127.8 ; 2036 52.8 ; 281.3 80.5 -5.7 -36.8 22.8
95.25 32.25 18.9 ; 2021 46.5 ; 347.0 76.2 -13.4 -57.3 5.9
95.25 33.25 32.5 ; 2024 49.7 ; 303.5 82.6 -16.9 -58.4 -9.6
95.25 33.75 73.2 ; 2027 39.5 ; 320.5 79.0 -17.5 -55.4 -24.9
95.25 34.25 2.4 ; 2021 110.8 ; 417.1 120.3 -5.5 -61.3 -11.8
95.25 35.75 8.6 ; 2022 59.9 ; 339.8 96.3 -7.8 -56.9 3.6
95.25 37.25 3.0 ; 2030 78.2 ; 374.0 85.3 -12.8 -63.3 31.9
95.25 37.75 21.4 ; 2036 61.3 ; 343.5 94.3 -6.1 -41.8 -1.8
95.25 38.25 1.8 ; 2028 43.7 ; 546.5 114.1 -15.4 -61.9 51.3
95.25 39.25 83.0 ; 2031 40.5 ; 259.9 69.0 -15.5 -46.6 -7.4
95.25 54.25 1.4 ; 2004 17.6 ; 323.3 42.7 -41.5 -66.8 -9999.0
95.75 29.25 83.9 ; 2043 11.0 ; 56.6 12.8 -2.4 -20.1 49.4
95.75 29.75 506.9 ; 2045 13.1 ; 71.2 12.8 -2.9 -17.1 29.7

95.75 30.25 460.0 ; 2046 21.3 ; 156.0 23.9 0.7 -21.7 34.6
95.75 30.75 13.9 ; 2043 31.3 ; 508.0 47.9 -0.9 -35.9 -36.1
95.75 31.25 205.4 ; 2052 64.4 ; 316.4 86.8 2.1 -15.7 78.9
95.75 31.75 6.1 ; 2050 101.5 ; 600.1 172.8 3.2 -6.1 -9999.0
95.75 33.25 0.2 ; 2029 100.5 ; 529.1 203.8 2.3 -43.1 -9999.0
95.75 33.75 17.8 ; 2030 40.5 ; 320.7 70.8 -16.7 -48.5 -19.6
95.75 37.75 12.3 ; 2026 62.7 ; 333.5 84.3 -16.0 -54.6 17.8
95.75 38.25 51.9 ; 2037 53.9 ; 366.0 91.6 -13.2 -40.5 19.1
95.75 38.75 10.4 ; 2023 52.9 ; 349.7 96.1 -13.4 -59.8 -27.0
95.75 39.25 10.6 ; 2023 67.1 ; 371.7 102.2 -5.1 -46.6 32.7
95.75 53.75 4.9 ; 2000 15.9 ; 214.3 39.5 -41.6 -64.3 -57.9
95.75 54.25 0.8 ; 1999 13.5 ; 169.8 29.9 -41.3 -68.9 -84.7
96.25 28.75 42.9 ; 2024 6.8 ; 24.9 2.9 -12.4 -27.0 2.6
96.25 29.25 731.9 ; 2030 7.5 ; 52.9 9.0 -10.1 -24.8 17.4
96.25 29.75 677.9 ; 2037 10.7 ; 105.2 19.3 -5.2 -25.4 12.1
96.25 30.25 51.6 ; 2030 16.5 ; 283.7 38.3 -4.8 -37.8 -8.7
96.25 31.25 37.3 ; 2044 59.8 ; 342.3 99.3 -2.4 -11.7 55.4
96.25 37.75 296.2 ; 2038 56.5 ; 251.0 83.0 -7.7 -33.7 1.4
96.25 38.25 147.6 ; 2035 60.3 ; 314.4 85.8 -9.5 -35.8 11.9
96.25 38.75 73.2 ; 2036 55.9 ; 338.2 88.5 -10.5 -42.8 -7.2
96.25 39.25 8.8 ; 2038 51.8 ; 325.4 103.1 -14.8 -57.7 -21.5
96.25 39.75 23.1 ; 2026 49.7 ; 301.8 79.7 -15.1 -49.6 -19.5
96.25 53.75 3.5 ; 1999 13.9 ; 201.1 33.2 -38.3 -64.5 -69.1
96.25 54.25 1.2 ; 2002 20.8 ; 202.2 35.0 -44.7 -67.6 -92.1
96.75 28.25 25.8 ; 1997 3.7 ; 11.5 -14.4 -37.1 -50.0 -31.3
96.75 28.75 73.9 ; 2020 5.1 ; 31.5 6.6 -12.3 -29.9 6.0
96.75 29.25 1030.1 ; 2034 9.3 ; 58.3 12.0 -9.8 -21.7 18.5
96.75 29.75 196.1 ; 2034 12.3 ; 230.5 31.1 -5.2 -31.9 4.9
96.75 30.25 183.3 ; 2027 14.3 ; 267.2 35.2 -6.3 -37.6 2.9
96.75 35.75 5.6 ; 2032 68.0 ; 347.4 90.3 -10.5 -58.1 -8.2
96.75 38.25 19.8 ; 2033 49.5 ; 324.0 93.1 -17.3 -52.5 -26.0
96.75 38.75 180.7 ; 2034 48.7 ; 257.8 82.8 -10.0 -37.8 2.7
96.75 39.25 158.2 ; 2037 43.7 ; 227.7 75.2 -6.5 -33.3 -2.6
96.75 39.75 6.1 ; 2026 60.1 ; 422.8 84.3 -17.0 -63.0 15.1
96.75 53.75 1.8 ; 1996 11.2 ; 148.6 29.6 -39.7 -67.4 -67.1
97.25 28.25 21.8 ; 2055 13.0 ; 86.8 20.4 -0.6 -27.1 17.3
97.25 28.75 161.4 ; 2020 6.9 ; 46.6 10.5 -10.8 -30.9 21.1
97.25 29.25 504.9 ; 2032 9.5 ; 113.9 18.9 -6.8 -28.3 25.5
97.25 30.25 130.9 ; 2026 16.0 ; 409.3 45.0 -7.1 -43.0 -45.5
97.25 35.75 0.9 ; 2016 85.5 ; 396.5 117.7 -19.1 -75.0 3.3
97.25 37.75 2.3 ; 2025 52.4 ; 418.1 86.8 -16.5 -66.8 -34.4
97.25 38.25 47.5 ; 2031 42.5 ; 298.3 79.9 -14.5 -47.4 -26.4
97.25 38.75 215.2 ; 2035 52.1 ; 300.1 83.3 -10.5 -37.8 37.8
97.25 39.25 5.0 ; 2037 36.0 ; 296.7 62.6 -16.4 -56.3 45.0
97.25 39.75 0.2 ; 2020 38.1 ; 349.0 48.9 -18.8 -60.8 -9999.0
97.75 28.25 51.9 ; 2030 10.1 ; 57.9 16.4 -2.7 -27.2 20.2
97.75 28.75 17.5 ; 2038 12.7 ; 77.6 21.0 -0.6 -27.6 29.6
97.75 29.25 184.1 ; 2034 11.7 ; 120.2 24.4 -3.6 -29.9 24.8
97.75 29.75 143.1 ; 2027 14.5 ; 302.2 35.4 -4.4 -36.4 -14.7
97.75 35.25 2.2 ; 2023 47.6 ; 352.4 69.8 -14.7 -66.4 -39.1
97.75 35.75 0.3 ; 2018 46.6 ; 304.8 48.0 -17.4 -66.1 -20.6
97.75 38.25 21.8 ; 2025 51.6 ; 255.2 88.1 -12.1 -55.5 9.4
97.75 38.75 37.0 ; 2027 57.2 ; 344.6 88.3 -12.0 -51.0 22.3
97.75 39.25 10.5 ; 2030 48.7 ; 338.5 80.1 -12.2 -59.7 -13.6

98.25 28.25 1.8 ; 2029 14.4 ; 18.7 13.1 -2.2 -21.9 33.6
98.25 28.75 103.8 ; 2041 14.6 ; 107.4 23.4 -1.3 -27.1 32.9
98.25 29.25 11.7 ; 2043 16.9 ; 110.7 16.5 -3.1 -24.1 24.0
98.25 37.75 5.0 ; 2022 77.6 ; 338.8 78.9 -4.4 -55.3 28.6
98.25 38.25 88.3 ; 2043 61.0 ; 327.8 96.6 -2.6 -27.2 -3.7
98.25 38.75 0.4 ; 2018 27.0 ; 337.1 42.3 -24.4 -71.1 -62.3
98.25 39.25 11.8 ; 2025 32.2 ; 289.0 70.8 -21.1 -62.6 -40.4
98.25 39.75 23.4 ; 2022 59.1 ; 339.2 88.0 -12.0 -55.8 23.3
98.25 53.25 0.3 ; 1999 17.7 ; 433.1 32.2 -42.9 -59.4 -9999.0
98.75 27.75 0.7 ; 2015 15.3 ; 25.8 16.6 -2.9 -28.3 58.8
98.75 28.25 113.5 ; 2042 15.9 ; 51.1 14.5 -4.6 -15.9 8.7
98.75 28.75 44.5 ; 2044 15.2 ; 48.6 11.4 -2.4 -13.4 16.1
98.75 31.75 11.1 ; 2024 50.3 ; 413.3 88.3 -12.8 -54.2 -31.5
98.75 32.25 20.8 ; 2030 45.3 ; 329.0 79.1 -16.7 -52.1 -30.0
98.75 34.75 67.7 ; 2043 55.4 ; 276.5 85.1 -9.7 -33.2 6.1
98.75 37.75 0.1 ; 2013 9928.1 ; 422.5 106.1 46.9 -17.0 -9999.0
98.75 38.25 84.1 ; 2037 52.3 ; 312.5 92.5 -14.0 -44.2 -19.0
98.75 39.25 7.2 ; 2027 36.7 ; 356.7 63.6 -18.4 -63.3 -8.9
98.75 39.75 149.8 ; 2030 45.6 ; 285.0 77.2 -16.7 -53.1 -18.2
98.75 52.25 3.1 ; 2002 16.4 ; 188.0 35.2 -39.8 -62.3 -71.9
98.75 52.75 8.7 ; 1998 12.7 ; 189.1 37.0 -38.4 -65.0 -63.8
99.25 28.25 0.7 ; 2035 14.1 ; 55.9 18.0 -1.1 -26.3 32.1
99.25 30.25 18.2 ; 2042 21.1 ; 265.1 18.3 -10.0 -27.7 -33.8
99.25 30.75 23.7 ; 2063 34.7 ; 295.2 19.8 -1.4 -8.7 101.4
99.25 31.25 201.8 ; 2001 5.4 ; 189.4 -22.2 -62.9 -71.0 -85.3
99.25 31.75 48.8 ; 2058 41.7 ; 280.3 34.9 -0.2 -10.1 44.5
99.25 34.25 0.5 ; 2029 954.9 ; 427.1 115.3 46.5 -44.8 75.7
99.25 35.75 1.2 ; 2021 70.4 ; 321.2 72.4 -2.7 -57.6 -56.1
99.25 38.25 0.8 ; 2022 23.2 ; 278.9 51.5 -21.1 -75.4 -62.6
99.25 38.75 0.4 ; 2025 245.9 ; 413.9 127.6 43.4 -27.1 -5.4
99.25 39.25 15.7 ; 2023 57.3 ; 315.2 75.2 -11.0 -59.6 5.1
99.25 39.75 100.1 ; 2034 46.4 ; 290.3 79.3 -12.6 -46.5 -12.3
99.25 51.75 0.5 ; 1999 14.5 ; 243.1 30.8 -39.4 -62.6 -9999.0
99.25 52.25 1.0 ; 1999 18.0 ; 269.0 33.0 -50.2 -66.8 -9999.0
99.25 52.75 0.1 ; 2001 8.2 ; 290.3 29.3 -34.3 -60.1 -9999.0
99.75 28.25 1.4 ; 2035 14.1 ; 85.7 18.5 -6.9 -30.7 101.7
99.75 29.75 51.6 ; 2044 20.0 ; 253.4 18.2 -9.6 -26.1 -28.3
99.75 30.25 14.3 ; 2042 21.0 ; 244.0 17.2 -10.1 -27.0 -29.0
99.75 30.75 18.4 ; 2049 27.7 ; 286.9 20.7 -10.0 -24.3 -0.1
99.75 31.25 0.5 ; 2042 28.4 ; 447.4 29.5 -5.4 -28.7 -21.4
99.75 31.75 14.7 ; 2043 30.5 ; 459.7 29.7 -5.8 -27.0 11.3
99.75 34.75 62.6 ; 2059 75.3 ; 270.3 93.9 15.5 2.8 69.3
99.75 35.75 1.3 ; 2029 134.6 ; 429.6 124.5 8.6 -53.4 31.0
99.75 38.25 7.5 ; 2023 54.8 ; 343.0 84.9 -11.6 -60.1 -11.3
99.75 38.75 1.0 ; 2030 89.8 ; 411.0 85.6 -3.0 -57.1 -25.6
99.75 39.25 45.1 ; 2023 52.2 ; 309.7 82.5 -13.5 -57.3 -4.1
99.75 39.75 16.2 ; 2032 60.3 ; 353.7 101.0 -11.5 -50.7 4.7
99.75 51.75 0.5 ; 2007 26.8 ; 424.2 49.1 -50.5 -69.6 -9999.0
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100.25 28.25 8.7 ; 2027 11.0 ; 84.0 10.6 -14.1 -29.5 83.3
100.25 30.25 108.5 ; 2047 25.0 ; 144.7 10.9 -10.5 -24.0 7.4
100.25 31.25 13.7 ; 2045 26.5 ; 214.2 23.9 -9.7 -23.0 35.3
100.25 38.25 20.3 ; 2026 36.4 ; 334.0 73.9 -18.2 -61.0 -35.0
100.25 38.75 0.1 ; 2014 23.1 ; 498.7 54.7 -24.8 -71.1 -9999.0

100.25 39.25 7.0 ; 2022 50.7 ; 341.7 80.6 -16.7 -67.2 -28.3
100.75 38.25 30.6 ; 2023 52.8 ; 320.4 88.5 -11.0 -53.3 27.4
100.75 51.75 2.3 ; 2002 17.5 ; 224.1 33.3 -47.2 -64.5 -68.7
101.25 29.25 22.1 ; 2023 14.0 ; 152.8 17.4 -12.0 -40.1 77.3
101.25 30.75 0.2 ; 2039 13.4 ; 69.9 16.3 -4.8 -34.0 54.9
101.25 31.25 6.4 ; 2040 19.1 ; 158.4 20.4 -8.7 -38.2 12.1
101.25 32.75 5.1 ; 2031 43.6 ; 462.2 83.0 -15.9 -51.0 -37.4
101.25 37.75 24.3 ; 2035 46.8 ; 343.9 85.4 -11.9 -53.3 -18.7
101.25 38.25 14.3 ; 2028 60.6 ; 326.9 84.0 -7.0 -53.4 -14.4
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101.75 29.75 274.3 ; 2033 16.3 ; 89.6 18.4 -10.9 -20.3 -5.3
101.75 30.25 8.5 ; 2032 22.8 ; 248.9 23.9 -15.2 -42.4 -9.8
101.75 30.75 2.8 ; 2044 17.7 ; 143.5 19.5 -7.3 -37.4 15.0
101.75 31.25 0.7 ; 2034 18.4 ; 278.3 24.1 -10.0 -41.6 -43.4
101.75 37.25 29.9 ; 2033 51.6 ; 351.0 86.9 -12.7 -50.9 17.4
101.75 37.75 46.9 ; 2031 58.0 ; 325.9 92.3 -11.5 -49.2 36.3
102.25 29.75 11.1 ; 2021 15.5 ; 267.0 29.4 -14.3 -45.1 -54.9
102.25 30.25 1.3 ; 2019 14.4 ; 227.8 30.3 -11.8 -48.2 -51.6
102.25 30.75 2.8 ; 2031 16.9 ; 142.9 20.3 -8.7 -39.2 44.5
102.25 37.75 22.6 ; 2027 42.0 ; 338.3 73.1 -17.8 -64.6 -6.1
102.75 31.25 19.1 ; 2020 12.0 ; 489.0 41.0 -10.8 -51.4 42.2
102.75 31.75 3.2 ; 2017 16.2 ; 700.1 48.8 -12.0 -59.2 -16.5
102.75 32.25 6.1 ; 2022 37.2 ; 337.1 77.0 -22.6 -68.0 -21.0
103.25 31.25 11.9 ; 2021 14.2 ; 678.3 47.0 -13.7 -53.9 4.4
103.25 31.75 0.9 ; 2021 16.0 ; 710.3 47.3 -14.1 -57.6 10.1
103.75 32.75 2.8 ; 2035 83.1 ; 452.7 101.2 -7.0 -52.2 77.5
107.25 76.25 0.6 ; 1995 9.9 ; 135.0 27.8 -33.9 -62.6 -85.7
107.75 75.75 28.2 ; 2002 14.2 ; 201.6 47.6 -36.2 -61.6 -50.8
108.25 76.25 1.9 ; 1998 12.3 ; 161.4 34.0 -41.2 -67.1 -72.5
117.25 56.75 5.1 ; 2000 13.1 ; 182.6 37.0 -40.0 -65.0 -76.8
117.25 57.25 0.9 ; 2000 10.8 ; 153.7 28.2 -37.3 -64.0 -73.6
117.75 56.75 8.6 ; 1999 11.6 ; 158.6 34.4 -42.5 -64.9 -57.8
117.75 57.25 0.4 ; 2004 20.9 ; 378.7 53.0 -36.4 -60.8 -9999.0
127.75 67.25 0.7 ; 1997 9.8 ; 185.1 25.1 -33.8 -64.8 -85.1
127.75 67.75 0.1 ; 2001 8.2 ; 290.3 29.3 -34.3 -60.1 -9999.0
128.25 67.25 0.9 ; 1995 8.3 ; 134.5 26.9 -29.2 -60.8 -71.1
128.25 67.75 1.9 ; 2000 14.5 ; 171.3 33.6 -44.2 -67.4 -79.0
128.25 68.25 7.4 ; 2010 17.4 ; 224.0 40.5 -43.5 -63.7 -70.0
128.25 68.75 2.0 ; 1994 7.8 ; 148.7 25.0 -35.0 -62.4 -78.3
128.25 69.25 0.1 ; 2008 13.7 ; 242.8 34.5 -33.8 -61.1 -9999.0
128.75 68.25 0.3 ; 2007 6.1 ; 150.5 23.8 -33.6 -55.6 -72.5
128.75 68.75 3.4 ; 1998 11.1 ; 172.3 29.8 -37.4 -63.9 -77.1
128.75 69.25 1.7 ; 1997 11.9 ; 174.4 31.5 -42.1 -64.0 -67.1
137.25 -4.25 2.1 ; 2001 31.9 ; -36.4 -32.8 -15.0 -15.7 -29.5
138.75 67.25 0.6 ; 2003 14.2 ; 248.6 40.5 -35.6 -63.9 -9999.0
138.75 67.75 0.7 ; 1999 17.5 ; 384.9 42.0 -46.3 -66.0 -9999.0
139.25 65.75 1.0 ; 1999 14.4 ; 182.9 29.3 -40.9 -62.5 -80.0
139.25 66.75 1.2 ; 1999 14.6 ; 205.2 36.7 -38.7 -65.0 -74.8
139.75 66.25 0.5 ; 1999 14.4 ; 295.7 30.1 -40.0 -62.9 -87.5
139.75 66.75 1.8 ; 2005 18.0 ; 235.8 39.7 -35.7 -64.3 -70.1
140.25 65.75 0.5 ; 2000 14.7 ; 220.8 28.2 -36.9 -62.3 -9999.0
140.25 66.25 33.9 ; 2001 16.1 ; 209.8 41.9 -39.7 -64.8 -38.9
140.25 66.75 2.2 ; 2001 17.4 ; 386.0 48.3 -40.7 -60.1 -80.5
140.25 67.25 0.4 ; 1997 16.7 ; 353.2 37.7 -47.0 -70.0 -9999.0

140.75 62.25 13.1 ; 2000 12.0 ; 176.3 34.8 -38.8 -64.3 -55.9
140.75 62.75 60.1 ; 2005 16.8 ; 220.1 47.0 -36.8 -62.1 -42.2
140.75 65.75 8.9 ; 1999 14.3 ; 197.1 34.7 -42.0 -66.2 -79.2
140.75 66.25 1.5 ; 2001 18.1 ; 266.3 44.2 -47.4 -69.0 -78.6
140.75 66.75 0.2 ; 1996 12.5 ; 248.3 32.1 -36.3 -67.5 -90.4
141.25 61.75 31.9 ; 2008 19.5 ; 237.0 51.2 -37.7 -59.4 -43.8
141.25 62.25 18.7 ; 2002 16.1 ; 243.0 49.3 -40.7 -61.5 -53.4
141.25 62.75 1.0 ; 1997 10.5 ; 188.9 32.5 -39.3 -61.2 -71.9
141.25 65.75 0.2 ; 1996 12.7 ; 162.7 30.8 -35.0 -67.8 -9999.0
141.75 61.75 28.3 ; 2010 17.9 ; 221.2 49.1 -40.1 -63.0 -52.7
141.75 62.25 2.8 ; 2000 14.4 ; 190.5 38.5 -39.8 -67.3 -70.3
141.75 65.25 3.3 ; 2014 20.9 ; 230.3 47.9 -33.4 -57.5 -71.3
141.75 65.75 0.8 ; 1998 20.2 ; 252.8 38.6 -44.3 -68.4 -76.6
142.25 61.75 0.8 ; 2005 26.7 ; 476.1 54.3 -41.4 -63.7 -9999.0
142.25 65.25 2.2 ; 1999 12.8 ; 191.8 36.2 -39.8 -65.6 -70.1
142.75 65.75 0.8 ; 1997 13.9 ; 249.9 29.7 -40.9 -66.8 -88.8
143.75 61.75 2.1 ; 1999 14.0 ; 159.8 27.1 -43.8 -66.5 -65.1
144.25 64.75 0.2 ; 1999 9.7 ; 165.5 24.7 -31.2 -61.6 -54.3
144.75 66.75 1.8 ; 2014 27.3 ; 206.9 55.6 -21.8 -49.5 -59.9
145.25 64.75 0.2 ; 1999 13.7 ; 196.6 25.2 -36.1 -68.6 -63.9
145.25 65.25 0.9 ; 1995 9.2 ; 145.6 23.1 -35.4 -63.8 -67.3
145.75 65.25 18.7 ; 2008 16.3 ; 194.8 40.9 -34.2 -56.0 -46.4
146.25 64.75 0.7 ; 1999 12.1 ; 181.8 30.3 -36.1 -70.1 -71.6
146.25 65.25 47.2 ; 2017 18.3 ; 229.4 44.4 -32.4 -53.5 2.8
146.75 65.75 0.2 ; 2001 8.2 ; 290.3 29.3 -34.3 -60.1 -9999.0
148.75 76.25 63.9 ; 2056 101.6 ; 565.5 103.9 -15.9 -6.3 672.2
149.25 65.25 0.2 ; 1996 12.5 ; 248.3 32.1 -36.3 -67.5 -90.4
149.25 76.25 4.6 ; 2017 42.4 ; 306.1 57.3 -36.6 -47.1 -9999.0
156.75 51.25 3.0 ; 2011 19.2 ; 239.4 49.6 -37.7 -65.0 -71.5
157.75 55.75 22.0 ; 2013 21.9 ; 268.7 57.8 -43.5 -62.6 -69.0
157.75 56.25 7.5 ; 2017 31.1 ; 333.5 76.3 -34.4 -55.6 -41.9
158.25 52.25 2.0 ; 2005 19.3 ; 342.7 37.8 -48.9 -61.9 -73.4
158.25 53.25 3.8 ; 2000 15.2 ; 239.2 39.3 -35.0 -61.6 -71.8
158.25 53.75 7.5 ; 2001 13.7 ; 230.8 38.4 -38.2 -63.4 -60.9
158.25 54.25 1.4 ; 2000 19.5 ; 229.2 44.2 -45.0 -68.0 -76.7
158.75 53.25 12.7 ; 2004 18.2 ; 273.2 50.9 -34.5 -61.6 -58.6
159.25 53.75 5.3 ; 2004 22.8 ; 266.2 47.2 -34.1 -61.0 -49.0
159.25 56.75 34.9 ; 2031 33.9 ; 271.3 59.2 -33.7 -52.9 17.3
159.75 56.25 0.7 ; 2011 30.7 ; 366.1 43.9 -49.5 -68.0 -9999.0
159.75 56.75 26.8 ; 2013 22.4 ; 293.8 58.9 -33.8 -59.9 -26.8
159.75 57.25 8.2 ; 2018 21.6 ; 376.4 53.4 -33.7 -59.6 -60.1
160.25 54.25 0.9 ; 2002 12.9 ; 265.7 33.2 -38.3 -60.3 -67.9
160.25 55.25 0.3 ; 2002 26.6 ; 283.2 30.6 -37.6 -61.5 -9999.0
160.25 55.75 34.0 ; 2018 20.8 ; 280.5 63.1 -27.5 -56.8 -23.5
160.25 56.25 51.0 ; 2032 34.3 ; 393.0 101.0 -31.9 -47.7 17.3
160.25 56.75 27.8 ; 2025 24.8 ; 319.2 61.0 -25.7 -55.2 -41.1
160.25 57.75 94.7 ; 2036 30.1 ; 527.1 88.8 -22.1 -42.5 112.4
160.25 58.25 39.4 ; 2021 22.8 ; 323.3 70.7 -26.7 -53.2 40.3
160.75 54.75 5.3 ; 2016 27.0 ; 292.5 60.5 -31.1 -49.6 -54.4
160.75 55.25 1.3 ; 2008 24.6 ; 241.9 47.2 -46.0 -59.9 -9999.0
160.75 55.75 0.1 ; 2001 8.2 ; 290.3 29.3 -34.3 -60.1 -9999.0
160.75 56.25 143.1 ; 2042 43.3 ; 562.9 131.8 -9.7 -24.7 106.2
160.75 57.25 10.7 ; 2007 19.4 ; 315.9 57.8 -36.0 -61.7 -12.3
160.75 57.75 80.6 ; 2014 22.8 ; 274.4 66.1 -35.9 -55.5 -41.4

160.75 58.25 27.8 ; 2027 36.0 ; 242.5 45.4 -41.3 -55.4 -3.8
160.75 58.75 55.8 ; 2005 17.1 ; 233.0 52.6 -34.9 -60.9 -40.0
160.75 61.75 0.2 ; 1996 10.0 ; 140.0 28.7 -37.6 -62.9 -48.8
161.25 54.75 15.4 ; 2027 37.6 ; 458.9 64.3 -26.2 -48.8 5.3
161.25 55.25 10.1 ; 1999 14.0 ; 177.6 35.2 -41.5 -64.9 -59.3
161.25 56.25 2.3 ; 2008 17.9 ; 229.8 41.3 -36.2 -63.1 -69.8
161.25 56.75 30.6 ; 2022 30.1 ; 251.8 60.9 -28.8 -43.5 26.4
161.25 58.25 5.1 ; 2001 13.3 ; 192.8 45.6 -39.5 -63.0 -51.3
161.25 58.75 29.9 ; 2003 17.1 ; 213.0 49.7 -37.0 -60.4 -52.8
161.25 61.75 0.2 ; 2002 11.9 ; 145.1 26.3 -38.5 -65.9 -9999.0
161.25 62.25 0.1 ; 1995 9.3 ; 285.1 24.1 -39.8 -65.0 -9999.0
161.75 54.75 55.2 ; 2019 21.9 ; 347.4 72.8 -25.2 -58.1 -16.6
161.75 55.25 21.8 ; 2027 30.5 ; 269.0 57.4 -26.6 -49.2 -27.9
161.75 61.25 0.7 ; 1997 9.4 ; 158.1 29.2 -32.5 -61.5 -83.4
161.75 61.75 2.2 ; 1996 8.8 ; 133.9 26.4 -34.7 -65.4 -75.7
162.25 61.75 0.6 ; 1993 7.6 ; 136.9 26.5 -33.6 -61.1 -68.4
166.25 60.25 8.5 ; 1999 13.2 ; 178.4 33.7 -40.8 -65.3 -58.7
166.75 60.25 10.8 ; 1998 15.9 ; 201.3 37.3 -42.9 -64.5 -65.8
166.75 60.75 3.0 ; 2000 15.1 ; 199.1 39.4 -42.5 -67.6 -78.1
167.25 60.75 5.3 ; 1999 15.5 ; 237.1 39.9 -40.9 -64.5 -63.9
167.75 -45.25 5.0 ; 2036 28.3 ; 26.2 16.2 4.4 -17.7 -18.5
167.75 -44.75 33.0 ; 2037 28.2 ; 29.0 14.0 2.0 -18.7 -10.9
167.75 60.75 1.4 ; 2001 15.5 ; 214.0 40.7 -41.5 -64.6 -73.3
168.25 -44.75 10.0 ; 2042 29.9 ; 29.0 14.3 2.1 -16.4 -8.9
168.25 -44.25 260.5 ; 2041 28.2 ; 27.4 9.5 -0.6 -14.4 5.4
168.25 60.75 0.2 ; 1999 11.5 ; 177.1 28.4 -40.7 -72.0 -79.8
168.75 -44.75 13.9 ; 2037 29.1 ; 31.5 14.1 1.5 -19.3 -9.6
168.75 -44.25 12.6 ; 2037 28.4 ; 28.3 14.8 2.9 -19.6 -14.7
169.25 -44.25 21.6 ; 2039 29.5 ; 32.2 12.5 0.4 -18.1 -2.6
169.25 -43.75 30.2 ; 2037 28.4 ; 29.5 14.9 2.6 -19.1 -12.3
169.25 61.25 0.1 ; 2001 8.2 ; 290.3 29.3 -34.3 -60.1 -9999.0
169.75 -44.25 3.7 ; 2038 27.3 ; 25.0 15.5 3.6 -18.0 -17.3
169.75 -43.75 118.7 ; 2037 27.6 ; 28.5 10.4 -0.7 -18.2 -2.3
169.75 60.25 0.1 ; 2000 16.4 ; 143.4 22.2 -27.8 -59.4 -9999.0
169.75 61.75 0.4 ; 2000 19.4 ; 228.0 29.9 -37.8 -62.8 -9999.0
170.25 -43.75 136.6 ; 2038 25.0 ; 16.2 5.4 -0.5 -10.4 5.3
170.25 -43.25 347.3 ; 2042 26.3 ; 17.8 4.4 -2.0 -12.0 6.2
170.25 60.25 1.2 ; 1997 13.9 ; 194.4 32.7 -39.7 -66.6 -84.0
170.25 60.75 0.7 ; 1995 10.2 ; 208.2 30.2 -35.8 -65.1 -89.6
170.25 61.75 0.5 ; 1996 13.5 ; 189.9 31.9 -41.3 -68.8 -84.1
170.25 62.25 0.1 ; 1996 13.6 ; 232.0 39.9 -41.4 -66.6 -9999.0
170.75 -43.75 16.6 ; 2037 27.7 ; 28.7 13.4 1.2 -19.6 -12.2
170.75 -43.25 109.2 ; 2038 26.5 ; 24.5 7.0 -2.7 -18.9 -2.0
170.75 60.75 0.6 ; 1999 13.8 ; 194.7 28.4 -39.7 -63.5 -77.4
170.75 61.25 1.6 ; 1997 10.5 ; 144.8 27.9 -38.5 -68.0 -73.6
170.75 61.75 12.1 ; 2003 17.5 ; 210.0 37.7 -39.4 -63.8 -62.4
170.75 62.25 9.4 ; 2008 17.1 ; 216.1 48.2 -34.1 -61.3 -53.7
171.25 -43.75 5.1 ; 2033 27.0 ; 27.4 11.0 0.3 -19.1 -9.0
171.25 -42.75 28.4 ; 2036 28.5 ; 29.5 15.5 3.5 -19.6 -15.1
171.25 60.75 8.9 ; 1998 12.7 ; 159.8 29.0 -40.5 -66.3 -71.3
171.25 61.25 2.8 ; 1998 12.6 ; 173.2 31.9 -43.4 -67.3 -79.9
171.25 61.75 34.6 ; 1999 14.5 ; 193.6 38.5 -39.6 -64.1 -56.9
171.25 62.25 4.2 ; 2001 14.0 ; 194.0 39.3 -39.4 -66.5 -72.8
171.75 -43.25 2.3 ; 2037 29.9 ; 35.2 17.2 3.4 -18.5 -11.0

171.75 -42.75 1.7 ; 2036 28.9 ; 26.6 15.8 4.0 -18.4 -17.6
171.75 61.25 10.4 ; 1999 13.9 ; 171.9 36.3 -38.8 -63.6 -62.4
171.75 61.75 44.2 ; 1999 13.3 ; 181.0 35.6 -39.5 -64.9 -68.5
171.75 62.25 6.9 ; 1998 12.5 ; 157.1 32.6 -38.7 -64.5 -19.2
172.25 61.25 15.9 ; 2004 11.4 ; 167.9 32.1 -37.3 -64.2 -68.1
172.25 61.75 47.2 ; 2002 15.3 ; 186.8 39.7 -39.0 -62.3 -60.5
172.75 -42.75 0.1 ; 2037 28.3 ; 23.0 15.7 4.2 -16.2 -17.6
172.75 61.25 0.2 ; 1994 9.6 ; 222.3 31.5 -37.1 -63.2 -9999.0
172.75 62.25 1.4 ; 1996 11.0 ; 167.4 29.6 -36.5 -67.0 -81.4
173.25 61.75 1.3 ; 1996 10.7 ; 165.3 26.6 -38.4 -67.1 -75.1
175.25 -38.75 5.9 ; 2037 28.2 ; 30.9 11.6 -0.5 -19.9 -5.1
176.25 62.75 43.8 ; 1999 11.7 ; 168.3 33.3 -38.2 -64.9 -65.7
176.25 63.25 0.1 ; 2011 8.8 ; 120.7 21.8 -31.1 -58.8 -7.9
176.75 62.75 4.5 ; 1996 10.4 ; 155.5 31.1 -37.8 -63.9 -71.4
176.75 63.75 3.3 ; 1998 10.5 ; 149.6 28.2 -40.5 -64.0 -75.3
177.25 63.25 3.8 ; 2002 11.0 ; 164.5 32.7 -33.5 -62.8 -48.0
177.25 63.75 0.9 ; 1996 10.4 ; 149.5 26.4 -38.6 -64.2 -74.5
178.75 70.25 0.1 ; 2014 8.1 ; 93.1 20.3 -26.7 -48.5 -58.0
178.75 70.75 1.1 ; 2005 6.2 ; 92.8 20.5 -28.1 -49.7 -48.6
179.25 70.25 0.1 ; 2015 9.9 ; 102.0 21.9 -27.3 -48.4 -73.9
179.25 70.75 1.1 ; 1998 5.8 ; 110.7 22.4 -30.8 -54.5 -63.7

Computed year of peak water (PW), runoff increase until peak water (dQ_PW), and glacier runoff change (dQ) between the periods 1990-2010 and 2080-2100 for 0.5x0.5 degree grid cells for RCP8.5.
Results refer to the sum of all glaciers within 0.5x0.5 degree grid cells and are based on the multi-model mean of 14 GCMs.
Glacier runoff is defined as runoff from the initially glacierized area (i.e. including runoff from precipitation and snow melt in the growing deglacierized portions).
Glacier runoff changes are given for the months June to October (northern hemisphere), and December to April (southern hemisphere).
For some months, no evaluation of glacier runoff change was possible (runoff in first period equal to zero). Marked with -9999.
See Methods for additional details. The data refer to those displayed in Figure 2, Suppl. Figure 1, Suppl. Figure 5 and Suppl. Figure 6.
#
Reference: Huss, M. and Hock, R. (2018). Global-scale hydrological response to future glacier mass loss. Nature Climate Change.
#

CenLon. (deg)	CenLat. (deg)	Area (km2)	PW (year)	dQ_PW (%)	dQ_June (%)	dQ_July (%)	dQ_August (%)	dQ_September (%)	dQ_October (%)
-179.25	71.25	0.7	2022	10.6	188.6	10.6	-51.2	-63.6	166.6
-178.75	71.25	0.2	2049	10.3	158.4	2.9	-48.2	-53.6	358.7
-178.25	71.25	0.1	2023	11.7	238.4	6.8	-52.7	-63.8	170.7
-175.75	52.75	4.9	2018	22.7	973.0	140.5	-43.5	-74.0	0.2
-173.75	52.75	13.4	2023	26.6	478.5	22.2	-54.2	-71.7	-36.3
-168.25	53.75	44.0	2023	24.2	145.4	-1.1	-45.4	-64.3	-26.9
-166.75	53.75	57.6	2021	22.7	296.2	18.6	-48.2	-67.2	-15.9
-166.25	53.75	1.4	2021	27.0	256.5	-18.6	-58.8	-71.9	-21.3
-164.25	54.75	112.7	2047	45.6	266.2	0.3	-39.1	-42.1	36.1
-163.75	54.75	120.6	2032	39.6	327.6	25.1	-40.7	-59.4	10.9
-162.75	55.25	10.2	2030	32.5	386.8	11.7	-48.6	-67.8	6.3
-162.25	55.25	6.2	2028	28.8	381.9	15.4	-42.5	-65.0	21.5
-162.25	55.75	13.2	2030	33.8	282.6	3.7	-43.4	-63.0	25.8
-161.75	55.25	61.8	2036	44.6	375.1	38.9	-32.1	-54.9	54.8
-161.25	55.75	0.1	2020	15.8	228.9	-3.9	-43.7	-63.5	8.4
-160.25	55.75	73.5	2038	35.1	356.7	38.4	-30.1	-54.7	180.4
-159.75	55.75	3.9	2033	31.3	594.8	84.7	-27.7	-59.7	199.8
-159.75	56.25	169.9	2070	62.4	399.0	82.1	0.5	-5.0	173.1
-159.75	59.75	3.3	2045	28.5	165.2	34.8	-22.2	-54.3	78.4
-159.25	56.25	132.4	2069	61.6	298.3	60.9	-4.1	-9.3	138.8
-159.25	59.75	11.2	2043	27.7	145.9	34.4	-20.6	-53.0	67.5
-159.25	60.25	22.4	2041	33.3	204.6	37.1	-24.2	-52.5	94.4
-158.75	56.25	6.5	2031	35.7	157.6	1.2	-38.8	-61.0	30.4
-158.75	56.75	5.4	2031	31.9	177.3	12.2	-39.0	-61.1	108.8
-158.25	56.75	4.6	2034	36.2	153.7	6.2	-41.4	-63.1	55.7
-157.75	56.75	0.1	2037	15.0	90.6	2.9	-40.5	-61.4	56.5
-157.75	57.25	12.3	2034	33.8	211.7	32.7	-31.0	-55.9	94.0
-157.25	56.75	1.9	2032	31.5	160.7	16.3	-36.3	-62.7	90.1
-156.75	57.25	111.1	2049	42.9	116.0	-2.0	-37.0	-51.2	55.2
-155.75	58.25	4.6	2040	32.5	110.6	19.6	-25.8	-53.7	143.4
-155.75	67.25	0.7	2035	38.5	1000.0	61.3	-38.5	-48.2	-94.1
-155.75	67.75	1.4	2052	79.3	1000.0	140.2	-44.2	-21.3	-63.4
-155.25	58.25	66.5	2045	47.8	284.6	52.6	-23.7	-52.7	159.0
-155.25	58.75	47.6	2059	49.1	212.1	40.1	-18.7	-38.0	111.4
-155.25	67.75	6.3	2046	46.3	1000.0	59.1	-35.0	-38.3	667.8

-155.25 68.25 0.2 ; 2041 54.4 ; 1000.0 97.4 -42.3 -39.1 72.9
-154.75 58.25 211.5 ; 2067 59.0 ; 156.4 29.0 -12.8 -24.1 139.7
-154.75 58.75 219.5 ; 2060 51.6 ; 129.1 26.7 -11.0 -23.0 107.6
-154.75 59.25 6.3 ; 2030 31.9 ; 197.2 35.3 -23.5 -63.4 121.6
-154.75 67.25 0.9 ; 2036 34.1 ; 1000.0 53.1 -40.3 -51.6 -0.6
-154.75 67.75 1.8 ; 2034 36.0 ; 1000.0 64.3 -41.8 -46.4 -55.8
-154.75 68.25 4.4 ; 2036 52.4 ; 1000.0 90.7 -47.8 -42.3 29.9
-154.25 58.25 29.6 ; 2038 37.0 ; 182.2 34.0 -21.7 -53.7 116.0
-154.25 58.75 0.7 ; 2033 34.9 ; 127.2 17.5 -33.5 -65.5 121.6
-154.25 60.25 1.5 ; 2065 25.3 ; 112.2 26.2 -31.3 -60.4 142.7
-154.25 61.25 36.9 ; 2041 47.4 ; 604.7 58.0 -31.0 -56.8 259.4
-154.25 61.75 91.5 ; 2052 50.5 ; 430.9 48.7 -22.2 -34.6 601.4
-154.25 62.25 18.9 ; 2040 48.6 ; 585.8 45.6 -34.6 -50.6 12.0
-154.25 67.25 3.2 ; 2040 41.5 ; 991.1 54.6 -39.7 -43.1 -9999.0
-154.25 67.75 1.2 ; 2030 27.5 ; 1000.0 52.5 -42.4 -51.5 13.7
-154.25 68.25 0.6 ; 2027 54.2 ; 1000.0 114.1 -51.2 -38.0 85.9
-153.75 58.75 329.2 ; 2049 54.3 ; 45.6 -20.0 -45.0 -51.3 41.7
-153.75 59.75 14.9 ; 2064 26.6 ; 132.1 29.8 -29.0 -60.3 128.5
-153.75 60.25 378.3 ; 2046 39.1 ; 243.6 39.1 -26.7 -51.1 168.2
-153.75 60.75 162.6 ; 2058 53.5 ; 364.0 56.5 -21.4 -41.8 218.9
-153.75 61.75 416.2 ; 2047 57.4 ; 608.2 57.2 -25.0 -36.7 518.9
-153.75 62.25 3.2 ; 2030 45.5 ; 793.5 58.9 -44.3 -59.5 -72.1
-153.75 67.25 1.0 ; 2041 31.6 ; 1000.0 55.0 -43.0 -49.2 -9999.0
-153.75 68.25 1.6 ; 2042 61.1 ; 1000.0 87.5 -44.8 -35.7 98.3
-153.25 57.25 24.5 ; 2033 33.5 ; 124.8 0.1 -46.0 -64.4 66.8
-153.25 57.75 4.1 ; 2030 31.4 ; 155.9 8.6 -44.7 -68.0 72.5
-153.25 59.75 24.8 ; 2052 35.7 ; 209.9 35.5 -26.6 -46.3 186.0
-153.25 60.25 403.3 ; 2062 47.7 ; 136.6 23.0 -19.8 -35.1 153.6
-153.25 61.25 408.6 ; 2065 58.3 ; 324.4 54.5 -10.7 -28.6 264.7
-153.25 61.75 128.5 ; 2038 52.7 ; 736.9 68.2 -37.5 -61.9 133.0
-153.25 62.25 5.8 ; 2038 53.3 ; 859.5 58.1 -37.8 -52.5 109.8
-153.25 62.75 1.3 ; 2042 62.1 ; 621.4 51.8 -28.6 -43.8 289.8
-153.25 68.75 0.3 ; 2038 56.6 ; 1000.0 106.5 -54.7 -45.6 -95.5
-152.75 57.75 0.8 ; 2024 25.3 ; 75.4 -9.3 -50.2 -66.4 35.6
-152.75 60.75 895.1 ; 2075 66.0 ; 225.6 47.0 -4.5 -19.1 268.8
-152.75 61.25 615.5 ; 2088 95.2 ; 317.7 61.9 17.5 17.2 393.3
-152.75 62.25 192.5 ; 2071 63.0 ; 455.7 59.6 -9.7 -22.3 820.2
-152.75 62.75 189.4 ; 2086 78.0 ; 485.0 59.1 2.2 -2.7 795.3
-152.75 68.25 1.7 ; 2038 56.4 ; 1000.0 97.3 -50.6 -45.1 -12.6
-152.25 60.75 111.9 ; 2063 50.5 ; 164.2 42.4 -12.5 -37.5 254.8
-152.25 61.25 264.8 ; 2073 55.7 ; 220.3 49.2 -3.1 -18.1 313.5
-152.25 61.75 597.7 ; 2090 89.3 ; 136.1 51.6 32.6 28.2 268.8
-152.25 62.25 543.9 ; 2086 82.0 ; 252.4 55.6 18.5 12.6 649.3
-152.25 62.75 180.4 ; 2088 92.8 ; 337.4 68.7 24.3 24.9 778.3
-152.25 68.25 0.8 ; 2037 39.7 ; 1000.0 65.0 -50.9 -49.2 -9999.0
-151.75 61.75 0.3 ; 2080 43.2 ; 185.5 53.4 3.2 -42.7 312.9
-151.75 62.25 19.5 ; 2059 53.7 ; 292.4 62.6 -0.3 -44.4 294.3
-151.75 62.75 622.5 ; 2094 98.4 ; 209.5 66.4 34.1 36.9 490.2
-151.75 63.25 6.9 ; 2042 61.9 ; 859.3 66.0 -36.0 -41.4 567.1
-151.75 68.25 1.6 ; 2034 40.4 ; 1000.0 61.4 -49.6 -47.4 -9999.0
-151.25 59.75 72.9 ; 2069 66.0 ; 61.5 -20.4 -39.9 -40.0 87.9
-151.25 62.75 642.4 ; 2092 100.9 ; 215.4 82.4 39.9 45.5 481.7
-151.25 63.25 336.6 ; 2088 88.5 ; 321.1 73.9 23.9 25.0 651.4
-151.25 68.25 7.2 ; 2036 43.4 ; 1000.0 74.6 -46.4 -42.8 31.5

-150.75 59.75 1241.8 ; 2081 84.9 ; 140.9 30.2 9.6 13.5 225.2
-150.75 60.25 30.4 ; 2048 50.9 ; 358.1 48.4 -29.1 -54.7 323.6
-150.75 62.75 570.2 ; 2092 87.6 ; 140.0 84.8 35.8 38.6 575.6
-150.75 63.75 357.5 ; 2091 112.6 ; 214.5 96.4 50.4 52.4 566.9
-150.75 67.75 0.3 ; 2032 31.9 ; 1000.0 60.3 -47.5 -47.8 -9999.0
-150.75 68.25 0.5 ; 2026 27.9 ; 1000.0 61.7 -48.8 -50.6 -9999.0
-150.75 68.75 0.3 ; 2027 58.8 ; 1000.0 149.8 -56.3 -37.7 -58.9
-150.25 59.75 98.8 ; 2089 57.3 ; 70.1 20.8 -3.4 -8.3 137.3
-150.25 60.25 651.3 ; 2087 92.8 ; 140.8 38.1 21.1 28.1 265.2
-150.25 62.75 61.5 ; 2092 81.3 ; 272.1 60.2 17.9 17.1 624.9
-150.25 63.25 38.5 ; 2077 71.0 ; 485.0 54.3 0.3 -1.2 346.1
-150.25 63.75 501.7 ; 2092 99.4 ; 207.1 80.9 39.5 40.9 675.4
-150.25 68.25 11.2 ; 2038 48.3 ; 1000.0 73.5 -47.2 -39.8 175.0
-149.75 59.75 229.2 ; 2092 82.3 ; 95.1 34.4 16.5 18.3 243.0
-149.75 60.25 162.2 ; 2055 51.4 ; 153.8 18.4 -29.8 -47.5 165.9
-149.75 60.75 0.3 ; 2078 39.2 ; 165.9 47.0 -18.2 -48.9 311.8
-149.75 63.25 28.6 ; 2048 57.2 ; 522.8 46.3 -19.1 -28.3 142.7
-149.75 63.75 32.9 ; 2047 55.3 ; 556.9 49.1 -20.5 -30.4 120.4
-149.75 67.75 0.8 ; 2038 47.5 ; 1000.0 69.0 -47.0 -41.6 193.4
-149.75 68.25 2.6 ; 2037 70.0 ; 1000.0 115.9 -52.3 -36.1 46.5
-149.25 60.25 39.1 ; 2049 46.0 ; 197.7 27.7 -33.3 -57.6 166.4
-149.25 60.75 42.9 ; 2067 44.1 ; 147.1 45.5 -17.6 -46.2 273.1
-149.25 61.25 138.1 ; 2077 81.4 ; 349.6 62.5 -3.9 -11.7 454.2
-149.25 61.75 3.6 ; 2056 64.8 ; 600.0 67.9 -22.5 -40.4 643.0
-149.25 62.25 11.2 ; 2057 78.2 ; 839.7 72.2 -27.2 -40.0 572.0
-149.25 63.75 17.9 ; 2049 52.5 ; 558.1 47.3 -20.6 -29.7 336.6
-149.25 67.75 0.2 ; 2028 37.7 ; 1000.0 72.4 -53.1 -46.5 -9999.0
-149.25 68.25 12.2 ; 2038 56.6 ; 1000.0 87.3 -47.2 -34.7 264.6
-148.75 60.25 1219.5 ; 2077 83.6 ; 85.4 10.6 -11.5 -7.2 124.2
-148.75 60.75 631.3 ; 2088 67.2 ; 74.7 25.2 -4.1 -5.7 184.8
-148.75 61.25 407.7 ; 2091 84.3 ; 214.4 58.4 8.3 8.0 394.8
-148.75 62.25 175.5 ; 2062 106.0 ; 887.2 89.9 -15.1 -21.0 767.5
-148.75 63.75 0.9 ; 2047 45.8 ; 679.1 41.2 -28.7 -44.3 142.6
-148.75 67.75 0.6 ; 2032 43.2 ; 1000.0 87.9 -48.4 -35.1 -9999.0
-148.75 68.25 1.1 ; 2035 65.8 ; 1000.0 119.6 -51.0 -29.6 -9999.0
-148.25 60.25 5.3 ; 2053 22.5 ; -11.5 -38.7 -59.8 -53.7 -12.2
-148.25 61.25 1111.8 ; 2092 96.9 ; 144.5 77.8 28.9 27.2 209.1
-148.25 61.75 131.2 ; 2063 97.4 ; 533.6 96.2 -9.2 -18.0 189.5
-148.25 62.25 133.2 ; 2072 143.0 ; 870.0 101.7 14.2 16.0 878.0
-148.25 63.75 3.2 ; 2044 52.0 ; 509.3 50.4 -27.1 -43.8 -51.6
-148.25 67.75 2.9 ; 2039 58.2 ; 1000.0 86.7 -49.1 -36.2 -9999.0
-148.25 68.25 13.2 ; 2038 69.0 ; 1000.0 111.7 -44.9 -23.9 407.8
-147.75 60.25 4.4 ; 2031 22.9 ; -10.2 -37.6 -59.0 -52.8 -19.1
-147.75 61.25 24.3 ; 2081 53.2 ; 82.4 42.0 -8.5 -21.6 266.2
-147.75 61.75 1622.2 ; 2088 121.0 ; 246.6 111.4 42.5 37.6 197.7
-147.75 62.25 10.6 ; 2063 121.4 ; 952.4 104.6 -19.8 -25.4 758.3
-147.75 63.75 210.2 ; 2089 85.3 ; 393.2 76.8 15.2 19.8 481.9
-147.75 68.25 1.0 ; 2025 35.7 ; 1000.0 79.0 -48.9 -40.3 21.1
-147.75 68.75 0.5 ; 2036 71.6 ; 1000.0 106.4 -51.5 -33.1 7.5
-147.25 60.75 0.2 ; 2033 18.4 ; -16.0 -39.0 -59.0 -52.1 -22.5
-147.25 61.25 15.1 ; 2055 49.8 ; 98.6 8.6 -45.7 -46.9 141.2
-147.25 61.75 252.9 ; 2094 176.7 ; 345.2 128.1 77.7 70.5 837.3
-147.25 63.25 7.5 ; 2050 59.3 ; 542.1 60.5 -21.0 -34.5 74.2
-147.25 63.75 417.0 ; 2092 110.8 ; 345.6 89.1 37.8 52.1 717.1

-147.25 68.25 2.2 ; 2037 51.6 ; 1000.0 69.2 -48.1 -40.5 30.6
-147.25 68.75 0.2 ; 2026 42.1 ; 1000.0 76.2 -53.9 -47.4 -9999.0
-146.75 61.25 1122.1 ; 2088 126.3 ; 162.2 101.2 48.6 41.5 174.3
-146.75 61.75 431.2 ; 2094 166.2 ; 342.6 103.9 64.0 71.7 624.6
-146.75 63.25 36.2 ; 2061 69.3 ; 626.2 61.8 -13.5 -17.4 656.7
-146.75 63.75 349.9 ; 2092 99.0 ; 274.9 87.8 30.8 47.6 702.6
-146.75 68.25 1.2 ; 2035 55.6 ; 1000.0 90.6 -50.6 -36.0 50.5
-146.25 61.25 449.0 ; 2081 75.2 ; 243.1 70.5 4.8 -2.0 393.8
-146.25 61.75 10.6 ; 2056 105.8 ; 820.1 108.4 -24.8 -42.9 184.1
-146.25 63.25 404.9 ; 2092 108.8 ; 385.2 83.3 34.2 52.3 653.3
-146.25 63.75 194.1 ; 2088 92.1 ; 205.1 93.9 34.1 37.8 425.9
-146.25 69.25 0.7 ; 2039 60.7 ; 1000.0 82.7 -44.8 -33.8 -9999.0
-145.75 60.75 79.2 ; 2087 54.3 ; 155.8 50.6 -1.0 -11.8 538.0
-145.75 61.25 415.4 ; 2074 69.2 ; 295.2 66.3 -2.9 -12.3 620.7
-145.75 63.25 19.6 ; 2071 74.9 ; 757.6 68.7 -5.5 -5.5 791.8
-145.75 63.75 109.1 ; 2083 89.4 ; 492.0 79.5 14.0 26.0 706.4
-145.75 69.25 6.8 ; 2029 26.1 ; 240.6 34.7 -43.7 -64.8 46.1
-145.25 60.75 757.5 ; 2081 65.4 ; 92.1 31.4 4.1 4.7 159.2
-145.25 61.25 158.8 ; 2066 64.1 ; 322.7 60.9 -11.5 -18.5 743.5
-145.25 63.25 92.7 ; 2092 116.0 ; 448.4 91.0 40.0 53.7 960.8
-145.25 63.75 485.4 ; 2092 112.5 ; 495.5 97.5 33.1 48.9 876.8
-145.25 68.75 1.1 ; 2055 94.8 ; 1000.0 118.4 -32.3 -4.6 -9999.0
-144.75 60.25 0.1 ; 2076 26.9 ; 113.3 49.5 -19.4 -47.8 390.2
-144.75 60.75 959.4 ; 2074 59.1 ; 55.5 17.0 -4.8 -3.4 130.5
-144.75 61.25 202.1 ; 2059 62.1 ; 432.6 62.1 -25.6 -37.6 514.3
-144.75 62.25 83.6 ; 2069 85.6 ; 413.7 69.3 12.8 0.1 835.1
-144.75 63.25 45.4 ; 2076 84.4 ; 531.3 78.1 6.0 17.1 915.2
-144.75 63.75 137.7 ; 2085 93.6 ; 537.4 84.5 19.0 26.2 912.4
-144.75 69.25 52.8 ; 2039 31.8 ; 209.9 36.2 -31.0 -49.8 104.7
-144.25 61.25 268.0 ; 2047 44.9 ; 299.7 54.7 -28.0 -42.5 284.6
-144.25 61.75 288.6 ; 2080 88.1 ; 142.0 76.8 32.4 37.7 618.3
-144.25 62.25 414.2 ; 2083 113.2 ; 428.1 94.2 42.3 33.2 888.8
-144.25 62.75 23.1 ; 2070 90.7 ; 697.5 68.1 1.0 2.8 904.2
-144.25 63.25 114.9 ; 2082 92.8 ; 487.2 80.4 20.7 23.4 969.6
-144.25 68.75 7.2 ; 2041 62.0 ; 660.6 92.5 -36.1 -39.3 92.6
-144.25 69.25 86.0 ; 2039 38.4 ; 303.0 39.1 -36.0 -58.2 169.9
-143.75 60.25 792.9 ; 2080 61.0 ; 69.8 31.0 9.3 9.7 176.1
-143.75 61.25 245.3 ; 2067 51.7 ; 234.6 49.4 -12.7 -17.8 277.8
-143.75 61.75 309.6 ; 2081 88.3 ; 233.1 73.7 22.1 21.7 295.1
-143.75 62.25 525.4 ; 2083 112.5 ; 388.6 102.3 41.2 39.1 764.1
-143.75 68.75 46.5 ; 2038 39.3 ; 275.6 45.2 -34.4 -56.7 124.5
-143.75 69.25 51.1 ; 2040 39.2 ; 222.1 43.1 -33.7 -53.3 151.9
-143.25 60.25 5.3 ; 2045 30.7 ; 137.1 33.9 -37.9 -54.6 309.6
-143.25 60.75 992.0 ; 2075 55.3 ; 102.7 27.9 -1.5 -2.0 157.5
-143.25 61.25 21.9 ; 2036 53.4 ; 729.7 78.0 -49.8 -68.3 480.9
-143.25 61.75 1535.5 ; 2091 167.1 ; 230.6 125.1 90.4 97.3 397.0
-143.25 62.25 11.8 ; 2038 70.6 ; 957.9 112.4 -49.9 -61.4 282.4
-143.25 62.75 0.4 ; 2023 41.6 ; 975.0 83.9 -56.3 -69.7 -9999.0
-143.25 68.75 3.7 ; 2047 44.8 ; 332.5 62.2 -27.2 -47.6 416.2
-143.25 69.25 3.8 ; 2031 31.8 ; 278.9 35.2 -41.7 -70.3 318.0
-142.75 60.25 3828.2 ; 2091 95.7 ; 103.4 67.7 34.1 35.7 144.1
-142.75 60.75 81.6 ; 2037 56.3 ; 543.2 70.2 -46.4 -62.6 336.4
-142.75 61.25 12.1 ; 2037 62.9 ; 770.6 73.7 -51.9 -69.4 404.5
-142.75 61.75 64.8 ; 2057 59.6 ; 204.5 54.7 -8.7 -12.7 345.4

-142.75 62.25 852.3 ; 2074 112.0 ; 357.1 105.5 19.4 28.6 709.8
-142.75 69.25 0.1 ; 2060 40.6 ; 698.3 56.1 -29.7 -58.1 423.7
-142.25 60.25 282.9 ; 2051 39.1 ; 83.9 14.0 -23.0 -23.2 68.9
-142.25 60.75 1134.9 ; 2086 124.5 ; 206.9 77.6 44.5 39.9 604.7
-142.25 61.25 199.1 ; 2060 84.7 ; 396.3 60.6 -9.5 -13.4 328.9
-142.25 61.75 214.1 ; 2056 95.5 ; 705.6 73.9 -15.6 -18.1 650.2
-142.25 62.25 388.5 ; 2085 130.5 ; 336.3 118.6 41.0 51.8 725.8
-141.75 60.75 415.7 ; 2069 109.4 ; 600.4 72.1 -12.5 -9.2 437.6
-141.75 61.25 1186.2 ; 2085 115.3 ; 188.8 78.2 44.3 45.1 285.1
-141.75 61.75 46.1 ; 2062 133.7 ; 831.6 77.1 -19.5 -25.3 467.6
-141.75 62.25 12.9 ; 2041 68.5 ; 915.5 53.3 -47.7 -57.5 345.9
-141.25 60.25 1614.9 ; 2085 165.3 ; 310.7 105.6 51.9 58.3 382.7
-141.25 60.75 3257.3 ; 2092 158.1 ; 219.7 112.7 78.8 84.5 393.3
-141.25 61.25 972.9 ; 2094 216.4 ; 206.6 176.5 126.7 132.9 481.0
-141.25 61.75 50.2 ; 2051 97.0 ; 554.6 42.3 -28.7 -32.7 287.1
-141.25 62.25 38.4 ; 2042 77.0 ; 895.0 57.2 -39.7 -45.1 603.4
-140.75 60.25 165.7 ; 2095 180.7 ; 241.0 118.0 81.5 82.7 308.6
-140.75 60.75 281.3 ; 2080 151.7 ; 293.7 116.3 73.5 81.2 727.5
-140.75 61.25 68.7 ; 2043 100.0 ; 756.4 70.3 -29.4 -25.5 401.1
-140.75 61.75 41.3 ; 2033 71.3 ; 468.9 31.3 -30.5 -35.3 185.1
-140.25 60.25 4587.1 ; 2081 88.0 ; 83.0 70.2 28.1 14.5 86.5
-140.25 60.75 606.1 ; 2079 158.8 ; 204.7 112.0 100.9 105.7 166.9
-140.25 61.25 178.6 ; 2037 105.7 ; 855.8 30.3 -48.0 -48.8 -13.3
-140.25 61.75 5.0 ; 2023 37.0 ; 570.0 11.3 -49.9 -65.1 -63.7
-139.75 60.25 3764.4 ; 2094 198.9 ; 223.2 136.6 115.2 111.7 286.0
-139.75 60.75 23.3 ; 2060 135.5 ; 689.7 70.6 -23.6 -25.8 372.3
-139.75 61.25 168.8 ; 2057 103.3 ; 747.1 68.3 -21.0 -20.1 53.3
-139.25 59.75 81.2 ; 2035 31.6 ; 98.8 11.0 -48.0 -59.2 98.0
-139.25 60.75 441.4 ; 2082 172.5 ; 553.1 119.3 56.0 60.0 652.9
-139.25 61.25 70.5 ; 2042 86.4 ; 833.0 88.3 -47.3 -54.3 212.9
-138.75 59.25 572.6 ; 2075 59.7 ; 49.3 10.9 -6.5 -10.0 130.5
-138.75 59.75 1081.0 ; 2074 70.2 ; 45.3 10.6 -11.8 -15.0 61.2
-138.75 60.25 1907.4 ; 2093 195.3 ; 241.3 134.1 113.2 106.9 525.0
-138.75 60.75 114.3 ; 2049 88.1 ; 700.3 92.7 -37.5 -41.6 157.5
-138.75 61.25 11.3 ; 2031 80.0 ; 857.8 84.0 -59.9 -69.2 91.3
-138.25 59.25 74.0 ; 2066 41.1 ; 89.8 13.1 -32.5 -38.0 168.2
-138.25 59.75 1187.7 ; 2085 84.4 ; 98.5 47.1 26.5 16.8 213.1
-138.25 60.25 914.7 ; 2085 113.5 ; 304.5 67.0 27.1 21.6 482.4
-138.25 60.75 18.4 ; 2035 70.5 ; 794.6 68.3 -51.6 -68.9 10.1
-137.75 58.75 774.2 ; 2083 63.2 ; 62.4 47.3 20.6 5.4 70.1
-137.75 59.25 1161.0 ; 2074 66.7 ; 114.2 43.4 10.2 1.4 135.7
-137.75 59.75 392.2 ; 2056 53.9 ; 284.5 34.2 -38.6 -50.1 369.7
-137.75 60.25 96.0 ; 2039 42.5 ; 358.4 45.6 -45.6 -59.7 151.4
-137.75 60.75 43.7 ; 2034 52.5 ; 804.5 57.5 -53.4 -69.7 186.9
-137.25 58.75 1381.6 ; 2079 69.7 ; 56.4 25.0 5.2 1.0 62.4
-137.25 59.25 253.9 ; 2074 64.1 ; 135.7 44.1 0.0 -15.4 133.5
-137.25 59.75 1079.0 ; 2058 57.5 ; 222.0 17.2 -31.1 -43.7 334.7
-137.25 60.25 8.8 ; 2026 32.5 ; 540.1 45.6 -54.2 -75.4 39.2
-137.25 60.75 5.2 ; 2026 32.2 ; 473.1 41.2 -54.9 -76.2 273.4
-136.75 58.75 167.4 ; 2079 48.1 ; 38.2 -0.8 -24.7 -29.2 54.4
-136.75 59.25 560.2 ; 2082 72.7 ; 85.5 29.9 13.4 7.6 200.1
-136.75 59.75 164.5 ; 2070 41.7 ; 141.4 14.4 -25.0 -37.6 202.5
-136.75 60.25 47.5 ; 2023 29.7 ; 326.7 38.7 -51.4 -75.2 205.3
-136.25 58.25 0.3 ; 2032 15.4 ; 30.2 -9.2 -48.4 -60.8 18.7

-136.25 58.75 33.5 ; 2025 20.0 ; 40.1 -13.1 -52.8 -61.9 17.6
-136.25 59.25 311.3 ; 2072 61.1 ; 89.0 11.4 -10.9 -18.0 206.7
-136.25 59.75 35.2 ; 2023 29.7 ; 343.8 37.4 -53.6 -76.6 245.7
-136.25 60.25 89.1 ; 2029 35.7 ; 499.4 36.6 -56.8 -76.4 281.2
-135.75 58.75 230.7 ; 2076 57.9 ; 98.9 12.9 -12.6 -21.5 218.7
-135.75 59.25 310.8 ; 2069 36.7 ; 123.5 8.9 -34.4 -45.1 270.3
-135.75 59.75 324.7 ; 2044 30.6 ; 216.4 21.6 -32.8 -42.0 219.2
-135.75 60.25 181.1 ; 2040 41.9 ; 608.9 27.7 -52.6 -65.9 605.2
-135.25 56.75 0.2 ; 2019 12.9 ; 5.7 -48.0 -73.5 -72.2 -15.9
-135.25 57.25 72.5 ; 2020 20.9 ; 12.1 -44.7 -70.4 -71.3 -8.9
-135.25 58.75 132.3 ; 2025 18.3 ; 95.1 3.8 -52.8 -66.1 142.7
-135.25 59.25 202.2 ; 2041 23.8 ; 119.7 7.4 -41.9 -54.3 237.1
-135.25 59.75 118.9 ; 2029 25.8 ; 236.0 20.4 -49.9 -65.4 299.6
-135.25 60.25 26.2 ; 2022 25.7 ; 513.2 26.7 -60.2 -78.7 300.1
-134.75 58.75 117.3 ; 2020 17.3 ; 139.7 10.1 -51.1 -68.3 324.4
-134.75 59.25 1030.0 ; 2080 62.9 ; 164.9 25.7 6.6 3.6 355.8
-134.75 59.75 60.7 ; 2023 25.3 ; 348.8 22.2 -58.3 -76.2 322.6
-134.25 57.25 3.7 ; 2021 18.3 ; -19.4 -53.3 -72.0 -68.2 -19.6
-134.25 57.75 1.2 ; 2022 18.7 ; 81.5 -0.2 -56.0 -70.5 182.8
-134.25 58.25 224.1 ; 2090 50.3 ; 73.6 19.8 0.6 -4.9 231.2
-134.25 58.75 1971.0 ; 2089 85.1 ; 139.5 37.5 31.4 34.4 451.0
-134.25 59.25 217.2 ; 2056 45.1 ; 421.2 20.4 -31.2 -41.8 898.8
-134.25 59.75 1.2 ; 2019 23.6 ; 721.2 18.1 -68.7 -82.3 483.1
-133.75 58.75 559.2 ; 2072 35.8 ; 137.8 13.4 -20.3 -27.2 302.6
-133.75 59.25 2.5 ; 2013 20.6 ; 443.2 16.6 -66.6 -79.4 287.8
-133.25 57.25 14.2 ; 2020 17.0 ; 114.9 -1.4 -54.2 -69.1 187.0
-133.25 57.75 175.4 ; 2020 18.5 ; 129.5 1.2 -51.4 -66.9 173.4
-133.25 58.25 3.2 ; 2018 18.5 ; 244.8 14.6 -55.7 -75.7 397.6
-133.25 58.75 594.7 ; 2047 26.4 ; 123.1 4.0 -31.9 -39.9 222.1
-133.25 59.25 1.5 ; 2014 22.5 ; 439.2 18.0 -66.5 -80.2 360.2
-133.25 64.75 1.2 ; 2009 12.3 ; 661.6 19.5 -62.3 -70.2 -98.8
-133.25 65.25 1.1 ; 2005 9.8 ; 726.1 16.0 -62.3 -69.2 -99.1
-132.75 57.25 144.3 ; 2024 18.9 ; 125.9 1.9 -50.5 -65.6 166.7
-132.75 57.75 906.5 ; 2083 88.3 ; 176.6 45.1 26.4 20.1 340.6
-132.75 58.75 143.7 ; 2029 23.3 ; 225.6 9.5 -54.4 -71.3 378.8
-132.75 65.25 3.5 ; 2003 7.9 ; 567.5 14.9 -64.0 -71.7 -96.2
-132.25 56.75 882.8 ; 2078 69.3 ; 83.5 23.8 6.8 2.4 188.4
-132.25 57.25 1725.7 ; 2077 67.0 ; 110.9 28.4 8.2 -0.2 207.7
-132.25 57.75 552.4 ; 2076 55.3 ; 164.9 18.1 -8.5 -14.0 264.5
-132.25 58.25 381.8 ; 2034 35.1 ; 309.3 13.0 -46.0 -60.6 275.3
-131.75 56.25 49.6 ; 2017 13.5 ; 83.6 -0.7 -55.2 -73.6 133.1
-131.75 56.75 169.5 ; 2026 18.3 ; 93.8 1.4 -49.1 -65.5 135.1
-131.75 57.25 210.1 ; 2023 18.3 ; 139.7 9.1 -50.2 -66.1 149.5
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42.25 42.75 205.0 ; 2017 22.4 ; 197.4 49.1 -46.1 -73.9 -40.8
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67.75 39.25 137.9 ; 2054 92.0 ; 646.8 113.8 -19.6 -29.9 253.8
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69.25 39.25 115.0 ; 2050 69.9 ; 570.4 98.3 -26.5 -42.6 161.8
69.25 40.25 12.1 ; 2039 55.8 ; 666.6 71.8 -42.4 -53.5 181.7
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71.25 35.75 76.7 ; 2030 35.9 ; 977.0 117.6 -39.7 -79.2 454.1
71.25 36.25 124.1 ; 2032 31.7 ; 1000.0 144.8 -49.3 -80.9 446.3
71.25 36.75 63.8 ; 2043 55.8 ; 713.2 106.9 -41.1 -59.0 113.2
71.25 37.25 91.4 ; 2041 57.1 ; 572.3 81.4 -37.3 -51.8 89.8
71.25 37.75 248.2 ; 2044 72.2 ; 536.9 87.1 -29.6 -43.6 142.6
71.25 38.25 282.3 ; 2048 65.5 ; 566.7 91.1 -27.4 -42.3 145.4
71.25 38.75 389.8 ; 2041 56.7 ; 570.4 72.4 -35.1 -49.5 134.8
71.25 39.25 292.3 ; 2053 75.1 ; 559.3 82.4 -16.5 -26.3 166.8
71.25 39.75 153.3 ; 2039 46.4 ; 542.0 72.8 -40.6 -58.8 102.7
71.25 41.75 43.1 ; 2040 55.8 ; 767.0 82.5 -42.5 -57.2 180.8
71.25 42.25 6.0 ; 2030 34.1 ; 696.9 65.1 -58.7 -79.2 76.1
71.75 35.75 13.2 ; 2030 34.1 ; 979.0 89.5 -35.6 -70.2 333.3
71.75 36.25 358.5 ; 2057 47.1 ; 782.9 96.1 -7.3 -26.9 234.3
71.75 36.75 488.7 ; 2046 45.5 ; 568.6 101.0 -24.5 -41.9 116.3
71.75 37.25 79.0 ; 2031 51.2 ; 579.5 63.5 -47.6 -67.0 180.1
71.75 37.75 36.0 ; 2031 47.0 ; 677.4 65.5 -48.8 -67.2 129.4
71.75 38.25 209.0 ; 2037 53.0 ; 666.0 76.2 -42.4 -60.0 138.0
71.75 38.75 709.0 ; 2058 73.1 ; 377.7 80.9 -12.9 -22.8 97.8
71.75 39.25 321.1 ; 2047 66.7 ; 544.7 81.9 -27.0 -39.6 121.8
71.75 39.75 224.3 ; 2053 94.6 ; 686.6 124.8 -6.5 -16.3 219.6
71.75 41.75 50.2 ; 2035 49.9 ; 571.1 75.5 -44.9 -63.0 94.4
71.75 42.25 11.2 ; 2036 150.3 ; 659.3 131.4 -38.2 -64.1 195.7
72.25 35.25 9.3 ; 2045 40.1 ; 345.5 30.1 -21.2 -40.8 698.9
72.25 35.75 255.8 ; 2042 37.7 ; 964.9 105.9 -27.4 -58.5 407.8
72.25 36.25 103.3 ; 2040 32.1 ; 951.0 144.0 -27.6 -63.9 164.4
72.25 36.75 328.3 ; 2056 39.4 ; 867.6 103.7 -17.8 -39.7 274.1
72.25 37.25 215.5 ; 2046 54.4 ; 766.0 94.2 -37.9 -56.2 181.7
72.25 37.75 420.7 ; 2044 62.9 ; 619.5 83.0 -34.0 -50.4 167.9
72.25 38.25 496.4 ; 2052 68.2 ; 568.8 93.8 -22.9 -37.1 146.5
72.25 38.75 1426.3 ; 2076 122.3 ; 295.8 113.3 30.7 26.8 144.8
72.25 39.25 310.8 ; 2040 56.9 ; 545.5 78.5 -39.3 -56.0 123.3
72.25 39.75 3.5 ; 2039 50.5 ; 588.1 112.3 -41.0 -61.7 177.4
72.25 40.25 95.3 ; 2044 67.8 ; 594.2 74.2 -35.7 -50.3 174.5
72.25 42.25 22.6 ; 2044 63.8 ; 734.2 85.8 -48.0 -63.0 118.5
72.75 35.25 120.4 ; 2046 37.8 ; 456.9 42.6 -15.2 -35.3 388.4
72.75 35.75 177.8 ; 2040 34.3 ; 956.7 99.3 -27.1 -62.4 497.4
72.75 36.25 87.2 ; 2027 28.0 ; 979.6 168.5 -31.6 -66.1 284.3

72.75 36.75 139.2 ; 2037 23.7 ; 929.4 145.6 -36.4 -66.0 246.4
72.75 37.25 480.7 ; 2047 53.2 ; 758.7 114.8 -33.4 -47.8 135.2
72.75 37.75 278.1 ; 2043 64.2 ; 567.0 86.9 -33.0 -49.3 102.1
72.75 38.25 322.2 ; 2041 57.6 ; 561.0 79.8 -35.7 -49.9 173.3
72.75 38.75 365.0 ; 2042 54.2 ; 523.1 70.2 -36.6 -53.0 106.1
72.75 39.25 573.5 ; 2059 79.3 ; 591.0 113.0 -5.5 -16.2 156.8
72.75 39.75 45.3 ; 2044 74.7 ; 664.6 112.8 -28.4 -47.3 127.1
72.75 40.25 146.8 ; 2040 62.1 ; 576.5 90.9 -34.9 -51.1 166.5
72.75 42.25 14.0 ; 2026 39.1 ; 694.8 47.6 -55.0 -73.6 167.9
73.25 34.75 17.1 ; 2058 42.0 ; 283.9 29.2 -10.3 -29.3 465.8
73.25 35.25 32.1 ; 2053 39.3 ; 567.5 42.4 -13.2 -34.9 611.1
73.25 35.75 55.1 ; 2041 33.4 ; 668.2 65.9 -21.3 -52.4 426.7
73.25 36.25 57.9 ; 2027 31.1 ; 962.7 123.6 -38.0 -71.9 355.5
73.25 36.75 484.2 ; 2058 39.4 ; 696.3 111.3 -13.2 -27.2 236.8
73.25 37.25 212.7 ; 2050 62.2 ; 589.8 100.8 -29.7 -44.7 158.1
73.25 37.75 102.0 ; 2037 48.4 ; 611.0 62.3 -47.0 -65.6 144.2
73.25 38.25 309.5 ; 2036 48.7 ; 594.9 65.6 -44.6 -63.7 143.5
73.25 38.75 103.8 ; 2035 49.6 ; 529.6 70.6 -45.1 -63.5 144.9
73.25 39.25 282.0 ; 2050 71.2 ; 309.2 64.8 -17.7 -31.1 206.2
73.25 39.75 30.6 ; 2040 54.2 ; 718.9 93.2 -42.6 -61.2 144.3
73.25 40.25 29.2 ; 2033 39.3 ; 601.7 63.7 -50.6 -69.1 142.0
73.25 41.75 0.1 ; 2023 51.4 ; 625.9 40.3 -60.8 -56.4 431.6
73.25 42.25 18.0 ; 2031 38.0 ; 662.6 62.8 -55.5 -75.5 107.7
73.75 34.75 53.1 ; 2051 39.2 ; 443.3 41.1 -12.2 -36.2 644.7
73.75 35.25 23.1 ; 2055 39.4 ; 738.6 45.9 -12.5 -38.5 689.9
73.75 35.75 1.2 ; 2047 36.9 ; 718.8 53.8 -17.9 -50.1 424.6
73.75 36.25 51.0 ; 2038 38.1 ; 915.7 89.7 -29.3 -60.4 304.1
73.75 36.75 517.0 ; 2075 80.5 ; 888.2 170.1 26.4 17.5 645.7
73.75 37.25 378.1 ; 2040 56.8 ; 599.3 93.8 -34.4 -51.3 164.2
73.75 37.75 2.8 ; 2028 74.9 ; 594.1 59.2 -51.1 -79.4 171.7
73.75 38.25 106.1 ; 2030 51.0 ; 615.1 67.1 -49.3 -71.4 175.4
73.75 38.75 113.2 ; 2039 50.6 ; 575.1 70.0 -43.7 -62.0 121.3
73.75 39.25 831.5 ; 2055 59.1 ; 321.7 65.7 -14.3 -23.9 80.4
73.75 39.75 55.8 ; 2033 54.2 ; 709.8 73.4 -47.3 -64.0 131.1
73.75 41.25 0.4 ; 2023 74.0 ; 657.9 44.8 -56.8 -82.9 372.9
73.75 41.75 8.8 ; 2035 49.7 ; 609.6 45.9 -51.9 -74.5 233.9
73.75 42.25 24.8 ; 2032 56.3 ; 724.6 69.5 -50.8 -69.9 125.1
73.75 42.75 1.4 ; 2030 295.7 ; 798.4 178.1 -6.0 -31.0 -9999.0
74.25 34.75 28.4 ; 2039 39.2 ; 790.2 52.8 -23.6 -52.7 819.1
74.25 35.25 126.2 ; 2061 57.2 ; 754.7 92.0 -6.2 -26.6 727.8
74.25 35.75 1.0 ; 2039 38.5 ; 901.2 75.1 -20.9 -52.8 268.7
74.25 36.25 592.7 ; 2066 63.6 ; 338.4 88.6 7.0 -5.5 183.9
74.25 36.75 447.9 ; 2063 65.9 ; 710.4 147.5 1.2 -10.6 318.6
74.25 37.25 171.2 ; 2040 64.7 ; 1000.0 347.4 -53.9 -78.6 264.2
74.25 38.75 28.6 ; 2035 58.9 ; 664.4 80.6 -46.6 -69.7 183.5
74.25 39.25 251.5 ; 2054 76.3 ; 499.2 92.5 -17.8 -35.6 102.8
74.25 39.75 13.0 ; 2033 60.4 ; 585.5 70.1 -49.4 -71.5 189.3
74.25 40.25 0.2 ; 2016 2170.4 ; 829.4 133.9 9.8 -53.5 -9999.0
74.25 40.75 43.2 ; 2045 58.2 ; 618.6 73.9 -36.5 -55.3 134.0
74.25 41.75 2.0 ; 2042 74.1 ; 648.7 67.4 -46.4 -78.2 276.8
74.25 42.25 97.6 ; 2039 55.3 ; 615.3 78.0 -40.1 -57.1 119.6
74.25 42.75 11.1 ; 2038 71.5 ; 677.5 98.7 -38.9 -56.2 200.9
74.75 34.75 95.9 ; 2037 36.2 ; 922.3 70.8 -28.5 -58.2 500.8
74.75 35.25 419.3 ; 2052 43.7 ; 470.3 81.4 -10.4 -29.1 159.6

74.75 35.75 179.7 ; 2055 47.1 ; 327.4 90.4 -4.6 -20.8 146.7
74.75 36.25 586.2 ; 2068 61.6 ; 188.7 65.7 15.1 10.7 100.0
74.75 36.75 882.7 ; 2060 59.1 ; 418.8 156.3 -2.3 -16.9 248.3
74.75 37.25 328.3 ; 2031 48.7 ; 1000.0 325.3 -61.2 -83.4 225.4
74.75 37.75 4.2 ; 2031 51.0 ; 835.1 151.5 -51.3 -75.5 267.2
74.75 38.25 5.3 ; 2036 47.5 ; 688.5 68.1 -52.8 -75.9 230.7
74.75 38.75 69.6 ; 2042 59.8 ; 560.0 62.6 -32.2 -45.4 272.0
74.75 39.25 341.1 ; 2051 67.3 ; 645.3 95.2 -30.1 -42.9 139.1
74.75 39.75 16.5 ; 2032 54.4 ; 615.0 72.7 -48.0 -70.7 154.9
74.75 40.25 8.6 ; 2036 41.0 ; 557.9 56.3 -49.1 -69.5 118.3
74.75 40.75 43.0 ; 2029 50.7 ; 610.1 69.6 -50.3 -70.5 173.3
74.75 41.25 0.2 ; 2022 39.4 ; 801.9 55.0 -68.6 -88.8 346.4
74.75 41.75 0.5 ; 2028 41.4 ; 749.4 45.7 -61.0 -80.2 243.2
74.75 42.25 135.1 ; 2048 77.5 ; 656.0 101.3 -27.8 -46.1 136.6
74.75 42.75 19.2 ; 2043 60.3 ; 664.0 81.9 -38.0 -52.1 198.0
75.25 33.75 3.2 ; 2038 26.6 ; 568.7 35.1 -30.3 -60.7 418.3
75.25 34.25 99.7 ; 2044 34.2 ; 631.9 66.9 -22.9 -52.1 222.5
75.25 34.75 36.9 ; 2034 26.4 ; 872.0 72.6 -32.3 -65.3 295.4
75.25 35.25 191.6 ; 2033 31.7 ; 1000.0 187.5 -40.4 -70.0 373.9
75.25 35.75 462.6 ; 2084 85.2 ; 389.8 107.7 21.2 12.9 248.4
75.25 36.25 1318.1 ; 2083 108.6 ; 574.4 172.6 41.7 33.9 342.2
75.25 36.75 116.6 ; 2040 49.7 ; 1000.0 192.2 -67.8 -79.4 764.7
75.25 37.25 266.4 ; 2031 44.0 ; 957.2 140.2 -55.8 -74.0 236.2
75.25 37.75 95.8 ; 2032 47.4 ; 540.8 65.0 -45.1 -62.8 128.3
75.25 38.25 543.5 ; 2058 77.8 ; 488.3 88.9 -12.8 -21.1 167.3
75.25 38.75 715.0 ; 2057 75.0 ; 270.6 59.2 -10.6 -17.9 146.4
75.25 39.25 2.1 ; 2031 240.3 ; 772.8 129.6 -24.6 -66.5 243.6
75.25 40.25 41.4 ; 2030 48.4 ; 634.2 60.5 -51.7 -73.3 155.5
75.25 40.75 0.3 ; 2024 27.5 ; 636.6 44.6 -65.7 -86.7 192.3
75.25 42.25 54.2 ; 2038 68.6 ; 685.8 86.7 -33.6 -49.8 144.8
75.75 33.25 0.3 ; 2029 12.4 ; 171.6 4.7 -39.2 -60.0 227.9
75.75 33.75 239.1 ; 2038 30.7 ; 880.6 81.9 -35.0 -57.6 412.7
75.75 34.25 309.2 ; 2046 34.4 ; 867.3 100.4 -29.4 -55.4 405.3
75.75 34.75 53.6 ; 2027 27.7 ; 1000.0 226.2 -42.7 -78.9 178.3
75.75 35.25 37.7 ; 2051 60.1 ; 918.3 184.9 -43.6 -62.2 75.2
75.75 35.75 881.9 ; 2083 179.5 ; 687.6 236.2 80.0 73.6 560.2
75.75 36.25 697.3 ; 2078 132.2 ; 725.7 223.9 33.2 27.7 438.2
75.75 36.75 630.3 ; 2050 74.4 ; 1000.0 246.7 -48.6 -57.7 446.4
75.75 37.25 106.3 ; 2022 31.5 ; 867.1 94.5 -63.6 -78.5 201.2
75.75 37.75 21.1 ; 2027 60.5 ; 681.7 74.6 -49.4 -71.8 190.4
75.75 38.25 27.3 ; 2035 52.2 ; 624.0 72.7 -39.8 -59.6 197.0
75.75 38.75 75.1 ; 2036 51.3 ; 640.9 74.6 -45.8 -65.4 103.6
75.75 40.25 8.0 ; 2039 74.5 ; 670.1 69.9 -43.5 -67.2 326.4
75.75 40.75 39.8 ; 2043 57.9 ; 660.5 76.4 -42.3 -60.3 189.0
75.75 41.25 28.2 ; 2038 76.0 ; 612.9 91.2 -38.5 -59.1 199.1
75.75 41.75 1.1 ; 2032 605.6 ; 867.3 284.1 67.1 -24.0 -9999.0
75.75 42.25 43.4 ; 2037 50.5 ; 693.8 73.3 -42.1 -57.4 167.0
76.25 32.25 4.6 ; 2037 15.7 ; 421.9 9.8 -32.1 -46.0 674.2
76.25 32.75 26.8 ; 2037 17.7 ; 203.8 7.6 -33.6 -49.2 57.1
76.25 33.25 249.9 ; 2048 24.9 ; 259.9 24.5 -33.5 -48.9 70.3
76.25 33.75 958.4 ; 2053 45.7 ; 692.1 86.0 -30.0 -48.6 260.2
76.25 34.25 161.0 ; 2039 39.8 ; 911.6 177.3 -28.7 -49.7 41.9
76.25 34.75 56.9 ; 2024 42.6 ; 1000.0 319.9 -57.7 -88.4 119.1
76.25 35.25 251.7 ; 2046 48.7 ; 932.2 189.9 -38.6 -56.9 135.1

76.25 35.75 806.4 ; 2078 143.0 ; 584.6 162.9 44.7 33.7 351.7
76.25 36.75 474.2 ; 2048 85.4 ; 1000.0 202.3 -41.2 -51.2 283.7
76.25 37.25 16.4 ; 2020 33.5 ; 709.4 81.3 -61.3 -76.8 249.7
76.25 37.75 0.7 ; 2030 150.4 ; 753.5 80.8 -37.4 -66.4 -9999.0
76.25 40.25 0.3 ; 2024 350.2 ; 629.5 130.0 -1.5 -58.9 -9999.0
76.25 40.75 34.9 ; 2047 68.1 ; 739.1 89.1 -34.8 -51.1 211.6
76.25 41.25 30.0 ; 2032 44.6 ; 593.5 53.7 -49.7 -72.5 190.0
76.25 41.75 27.7 ; 2037 55.3 ; 660.5 72.5 -47.7 -68.9 192.5
76.25 42.25 33.2 ; 2049 56.2 ; 624.7 87.3 -38.9 -55.3 182.2
76.25 42.75 11.0 ; 2035 96.1 ; 753.3 99.8 -43.7 -73.4 201.8
76.25 43.25 0.2 ; 2023 39.5 ; 563.8 38.5 -56.6 -81.9 204.3
76.75 32.25 123.9 ; 2050 20.6 ; 209.9 12.5 -20.8 -33.6 140.3
76.75 32.75 402.4 ; 2038 23.9 ; 508.7 50.0 -33.5 -54.2 119.1
76.75 33.25 836.6 ; 2047 42.0 ; 966.1 106.5 -33.2 -51.3 260.6
76.75 33.75 202.0 ; 2034 43.6 ; 1000.0 188.0 -49.0 -72.7 415.9
76.75 34.25 71.7 ; 2033 44.7 ; 1000.0 466.7 -47.1 -77.7 -9999.0
76.75 34.75 193.9 ; 2044 58.4 ; 1000.0 540.1 -41.7 -75.3 314.5
76.75 35.25 968.5 ; 2075 112.3 ; 686.2 207.2 35.9 21.9 454.7
76.75 35.75 134.3 ; 2080 174.9 ; 853.7 323.0 78.9 51.2 951.5
76.75 36.25 1989.2 ; 2069 130.9 ; 828.0 216.5 16.5 0.1 565.5
76.75 36.75 391.7 ; 2042 59.4 ; 789.8 111.4 -49.3 -66.2 128.8
76.75 37.25 1.9 ; 2028 69.7 ; 692.0 55.7 -49.1 -80.8 236.3
76.75 40.75 43.4 ; 2029 44.8 ; 605.7 52.2 -53.0 -74.8 165.7
76.75 41.25 21.5 ; 2033 54.8 ; 649.1 66.5 -49.0 -69.3 179.1
76.75 41.75 187.4 ; 2042 60.1 ; 635.7 79.8 -39.4 -57.1 145.5
76.75 42.75 90.2 ; 2032 48.9 ; 636.0 64.3 -48.4 -66.7 110.5
76.75 43.25 19.1 ; 2037 51.5 ; 691.1 68.0 -51.2 -71.2 199.9
77.25 31.75 4.9 ; 2014 10.5 ; 640.9 14.3 -31.0 -44.9 891.4
77.25 32.25 497.7 ; 2052 28.1 ; 517.2 47.3 -28.3 -43.3 197.5
77.25 32.75 544.1 ; 2037 34.5 ; 1000.0 146.7 -38.6 -62.7 357.1
77.25 33.25 99.6 ; 2028 31.2 ; 1000.0 210.2 -44.0 -72.9 880.0
77.25 33.75 49.2 ; 2039 46.6 ; 1000.0 543.7 -47.0 -73.7 503.0
77.25 34.25 134.9 ; 2050 110.4 ; 963.4 875.3 -13.8 -51.4 843.0
77.25 34.75 436.1 ; 2058 131.8 ; 1000.0 714.4 -1.6 -39.9 768.6
77.25 35.25 2199.7 ; 2083 296.5 ; 864.6 503.6 167.5 126.4 916.4
77.25 36.25 772.4 ; 2060 162.8 ; 1000.0 421.8 16.6 -5.8 858.9
77.25 36.75 352.1 ; 2055 78.8 ; 587.0 100.9 -13.4 -26.8 114.7
77.25 40.75 231.4 ; 2053 72.4 ; 484.4 77.8 -22.7 -35.7 135.4
77.25 41.25 66.6 ; 2033 44.1 ; 612.6 59.2 -50.9 -73.4 137.8
77.25 41.75 226.0 ; 2036 50.7 ; 592.2 65.8 -45.9 -63.5 155.9
77.25 42.25 0.3 ; 2021 48.1 ; 852.9 125.8 -62.5 -86.8 -9999.0
77.25 42.75 137.2 ; 2038 52.0 ; 545.3 70.3 -41.1 -58.3 114.8
77.25 43.25 263.2 ; 2062 59.7 ; 581.9 89.6 -22.5 -35.8 124.0
77.75 31.25 1.6 ; 2017 9.7 ; 681.3 6.8 -30.0 -43.7 141.0
77.75 31.75 403.3 ; 2030 19.5 ; 996.2 59.8 -38.7 -56.2 288.4
77.75 32.25 662.3 ; 2047 31.6 ; 951.9 90.4 -35.2 -50.2 411.5
77.75 32.75 212.4 ; 2026 28.5 ; 1000.0 205.8 -49.3 -73.3 794.9
77.75 33.25 24.7 ; 2023 48.4 ; 1000.0 861.4 -50.0 -75.1 -9999.0
77.75 33.75 97.4 ; 2040 95.0 ; 1000.0 869.1 -43.5 -66.1 720.8
77.75 34.25 114.4 ; 2050 141.7 ; 1000.0 915.5 -6.3 -45.3 707.5
77.75 34.75 1011.4 ; 2065 241.3 ; 1000.0 842.9 75.5 33.0 1000.0
77.75 35.25 632.8 ; 2062 182.7 ; 1000.0 669.5 45.9 6.4 1000.0
77.75 35.75 826.5 ; 2064 154.3 ; 1000.0 439.8 15.7 -10.1 778.1
77.75 36.25 132.1 ; 2057 86.0 ; 581.6 95.5 -17.6 -31.8 204.2

77.75 36.75 409.0 ; 2051 61.9 ; 533.6 73.5 -28.2 -42.0 145.8
77.75 40.75 28.0 ; 2038 52.1 ; 636.3 64.3 -39.9 -57.1 116.5
77.75 41.25 389.0 ; 2054 69.0 ; 583.4 93.4 -19.6 -31.9 191.9
77.75 41.75 270.8 ; 2033 49.5 ; 609.9 63.4 -46.3 -65.1 159.1
77.75 42.25 38.2 ; 2029 65.7 ; 646.5 76.6 -46.4 -69.2 176.8
77.75 42.75 9.6 ; 2020 45.2 ; 636.7 53.1 -56.3 -77.1 185.4
77.75 43.25 103.0 ; 2036 57.8 ; 635.2 72.8 -44.7 -65.4 185.2
78.25 30.75 39.9 ; 2022 13.3 ; 727.3 11.5 -30.0 -42.8 127.8
78.25 31.25 114.5 ; 2033 19.9 ; 973.0 49.6 -31.8 -45.3 195.0
78.25 31.75 131.2 ; 2025 16.6 ; 994.8 65.6 -40.4 -58.3 93.0
78.25 32.25 163.6 ; 2031 30.8 ; 1000.0 380.2 -46.4 -69.4 -9999.0
78.25 32.75 80.1 ; 2033 40.0 ; 1000.0 514.9 -44.8 -68.8 -9999.0
78.25 33.25 94.1 ; 2038 82.4 ; 1000.0 760.8 -42.7 -63.0 317.7
78.25 33.75 185.8 ; 2043 73.6 ; 821.9 200.3 -36.5 -55.8 220.9
78.25 34.25 458.6 ; 2061 262.7 ; 1000.0 941.3 47.5 15.5 824.5
78.25 34.75 615.3 ; 2054 230.1 ; 1000.0 931.8 22.7 -18.0 1000.0
78.25 35.25 112.1 ; 2038 114.2 ; 956.4 372.5 -32.7 -66.4 212.3
78.25 35.75 54.9 ; 2036 53.9 ; 628.7 65.6 -42.8 -63.3 163.4
78.25 36.25 335.8 ; 2038 55.0 ; 562.6 72.6 -39.0 -55.4 123.4
78.25 36.75 207.6 ; 2037 54.0 ; 583.2 71.4 -41.8 -58.8 112.2
78.25 40.75 0.7 ; 2031 930.8 ; 838.6 273.5 28.1 -53.6 -9999.0
78.25 41.25 120.1 ; 2035 53.0 ; 603.6 61.5 -47.8 -67.7 143.5
78.25 41.75 227.2 ; 2046 70.7 ; 665.3 91.1 -26.6 -42.0 204.0
78.25 42.25 240.2 ; 2050 64.2 ; 576.1 62.6 -39.5 -52.4 164.0
78.25 42.75 3.2 ; 2028 36.1 ; 586.7 31.9 -59.4 -82.1 174.8
78.25 43.25 3.7 ; 2026 67.3 ; 608.5 46.6 -48.4 -75.2 152.3
78.75 30.75 426.3 ; 2029 18.6 ; 724.9 27.1 -31.6 -44.1 7.2
78.75 31.25 167.5 ; 2033 24.4 ; 1000.0 65.4 -35.3 -49.4 484.8
78.75 31.75 116.3 ; 2032 28.1 ; 1000.0 157.9 -46.5 -63.6 420.4
78.75 32.25 87.2 ; 2036 32.2 ; 1000.0 345.1 -48.7 -65.7 -9999.0
78.75 32.75 3.2 ; 2021 24.9 ; 1000.0 384.6 -47.0 -68.4 -9999.0
78.75 33.75 32.2 ; 2045 80.6 ; 800.0 110.0 -39.9 -55.9 169.2
78.75 34.25 302.0 ; 2056 216.4 ; 932.6 449.4 18.4 3.5 310.2
78.75 34.75 103.4 ; 2044 119.9 ; 835.9 240.9 -26.8 -55.0 163.8
78.75 35.25 125.8 ; 2040 54.2 ; 640.4 78.4 -37.9 -52.5 120.9
78.75 35.75 248.9 ; 2038 57.1 ; 607.9 74.3 -37.9 -55.1 150.1
78.75 36.25 404.5 ; 2048 61.5 ; 560.5 80.0 -29.4 -41.6 125.7
78.75 36.75 17.7 ; 2025 42.2 ; 554.4 58.8 -51.9 -73.4 103.5
78.75 41.25 12.0 ; 2029 64.2 ; 616.0 63.6 -49.1 -73.0 196.9
78.75 41.75 194.8 ; 2039 53.8 ; 645.7 72.4 -40.9 -61.0 143.7
78.75 42.25 329.3 ; 2037 51.2 ; 600.1 71.4 -42.8 -60.5 106.3
78.75 44.75 1.0 ; 2027 84.6 ; 849.4 96.3 -43.2 -61.1 -9999.0
79.25 30.75 809.0 ; 2041 29.3 ; 590.8 54.4 -34.3 -46.0 54.7
79.25 31.25 67.3 ; 2034 26.2 ; 1000.0 94.7 -41.4 -54.4 43.5
79.25 32.25 10.1 ; 2009 12.2 ; 1000.0 352.3 -49.9 -66.5 -9999.0
79.25 32.75 21.3 ; 2025 28.0 ; 1000.0 457.9 -50.4 -65.0 -9999.0
79.25 33.25 51.5 ; 2030 52.6 ; 652.4 67.2 -50.1 -72.5 190.8
79.25 33.75 23.2 ; 2025 65.2 ; 648.3 68.2 -44.2 -69.9 218.5
79.25 34.25 86.5 ; 2040 66.6 ; 690.2 104.5 -42.2 -60.9 142.3
79.25 34.75 1.6 ; 2027 44.8 ; 662.7 61.5 -54.1 -80.4 240.8
79.25 35.25 7.3 ; 2041 37.2 ; 563.1 55.3 -54.1 -75.1 158.5
79.25 35.75 93.3 ; 2055 59.8 ; 600.4 78.8 -32.4 -45.9 155.1
79.25 36.25 582.8 ; 2055 79.7 ; 555.5 99.4 -14.0 -26.4 198.2
79.25 41.75 99.9 ; 2041 67.6 ; 612.7 82.4 -35.8 -54.6 131.6

79.25 42.25 182.2 ; 2040 58.1 ; 642.8 73.7 -42.9 -62.1 153.7
79.25 42.75 0.1 ; 2027 22.8 ; 713.7 39.0 -70.9 -85.1 305.3
79.25 45.25 87.0 ; 2040 58.4 ; 587.7 71.5 -41.9 -60.5 114.8
79.75 30.25 447.0 ; 2037 19.9 ; 406.6 45.8 -26.1 -37.1 -33.9
79.75 30.75 568.3 ; 2041 28.0 ; 583.5 48.1 -35.9 -46.7 29.9
79.75 31.25 61.0 ; 2043 36.3 ; 921.7 158.1 -41.9 -51.3 -9999.0
79.75 31.75 33.8 ; 2037 56.2 ; 956.8 310.6 -41.2 -48.5 -9999.0
79.75 32.25 134.4 ; 2033 40.3 ; 1000.0 304.5 -45.5 -55.0 978.2
79.75 32.75 9.3 ; 2025 55.9 ; 620.4 48.3 -55.1 -80.1 199.2
79.75 33.25 30.1 ; 2030 54.5 ; 626.4 47.1 -54.3 -77.9 212.7
79.75 33.75 42.0 ; 2032 53.1 ; 616.4 64.9 -45.6 -65.5 161.1
79.75 34.25 286.2 ; 2055 80.1 ; 528.3 90.5 -18.0 -28.8 132.1
79.75 34.75 10.4 ; 2040 70.4 ; 788.7 111.0 -41.2 -59.4 239.5
79.75 35.75 533.8 ; 2048 55.9 ; 502.1 73.4 -31.4 -45.2 105.5
79.75 36.25 209.7 ; 2044 67.0 ; 550.5 87.3 -28.2 -44.8 150.6
79.75 41.75 631.0 ; 2068 120.7 ; 287.0 82.8 2.9 -5.9 201.4
79.75 42.25 108.1 ; 2052 81.3 ; 483.5 35.7 -45.4 -55.6 145.0
79.75 44.75 49.0 ; 2026 58.6 ; 586.5 66.7 -46.6 -70.6 159.2
79.75 45.25 100.8 ; 2033 48.0 ; 628.4 63.2 -49.9 -70.4 147.3
80.25 30.25 789.9 ; 2040 31.5 ; 309.8 50.9 0.5 -13.6 28.4
80.25 30.75 187.1 ; 2034 15.2 ; 864.0 60.1 -31.8 -44.8 -39.6
80.25 31.25 8.6 ; 2021 36.8 ; 948.0 327.4 -52.3 -53.5 -9999.0
80.25 31.75 14.9 ; 2013 16.7 ; 948.4 365.2 -55.4 -57.2 -20.2
80.25 32.25 2.9 ; 2006 15.7 ; 1000.0 302.1 -51.3 -57.6 -9999.0
80.25 32.75 4.7 ; 2043 138.2 ; 811.3 309.2 -3.1 -13.7 486.9
80.25 33.75 0.7 ; 2035 219.4 ; 730.9 113.0 -33.9 -69.2 318.6
80.25 34.25 115.0 ; 2057 75.7 ; 703.7 102.6 -16.3 -25.4 234.5
80.25 34.75 17.8 ; 2056 75.5 ; 736.8 104.9 -31.0 -36.1 213.3
80.25 35.25 188.5 ; 2066 113.6 ; 347.7 89.4 6.0 -2.9 226.2
80.25 35.75 669.9 ; 2071 96.4 ; 607.1 129.2 13.1 1.1 259.4
80.25 36.25 137.6 ; 2041 51.9 ; 535.8 68.1 -35.9 -50.4 109.7
80.25 36.75 1.6 ; 2031 87.3 ; 660.9 64.8 -45.6 -73.3 250.5
80.25 41.75 372.4 ; 2054 73.7 ; 310.0 57.4 -17.7 -24.2 134.8
80.25 42.25 1283.8 ; 2055 64.2 ; 140.7 41.0 -1.3 -1.8 78.7
80.25 42.75 171.9 ; 2044 57.6 ; 589.0 80.1 -27.8 -41.2 106.1
80.25 44.25 71.8 ; 2039 55.4 ; 676.0 72.4 -42.3 -60.5 191.8
80.25 44.75 93.0 ; 2040 54.4 ; 629.0 68.6 -43.8 -60.7 168.5
80.25 45.25 70.0 ; 2046 60.8 ; 651.1 86.9 -37.7 -54.7 135.1
80.75 29.75 28.8 ; 2060 39.3 ; 240.2 52.5 7.9 -3.6 187.0
80.75 30.25 507.1 ; 2060 37.3 ; 531.2 57.9 0.5 -12.2 292.4
80.75 30.75 81.0 ; 2030 30.2 ; 1000.0 108.1 -21.4 -39.5 51.0
80.75 31.25 12.1 ; 2028 35.0 ; 932.4 197.8 -26.8 -15.7 -9999.0
80.75 31.75 40.4 ; 2010 27.7 ; 940.1 261.6 -39.3 -39.1 -9999.0
80.75 34.25 136.1 ; 2060 107.8 ; 697.2 126.8 -0.9 -9.1 191.3
80.75 34.75 155.8 ; 2055 67.2 ; 518.4 88.2 -20.0 -31.2 120.2
80.75 35.25 1435.1 ; 2087 322.2 ; 781.6 438.2 164.0 173.1 594.6
80.75 35.75 343.4 ; 2040 63.5 ; 549.8 80.0 -32.1 -48.1 120.2
80.75 36.25 8.7 ; 2037 45.6 ; 658.9 67.5 -45.3 -66.2 195.5
80.75 41.75 249.3 ; 2058 84.4 ; 486.7 98.9 -4.7 -15.4 145.1
80.75 42.25 664.9 ; 2064 90.1 ; 343.6 87.2 -3.8 -6.8 126.3
80.75 42.75 172.4 ; 2044 65.7 ; 631.1 86.4 -36.0 -52.3 159.9
80.75 44.25 26.6 ; 2032 45.6 ; 619.6 62.7 -51.2 -72.5 141.9
80.75 44.75 57.9 ; 2032 51.0 ; 639.9 67.9 -48.5 -68.4 142.2
80.75 45.25 39.8 ; 2049 57.8 ; 631.6 79.9 -30.7 -46.3 168.3

81.25 29.75 147.2 ; 2060 38.7 ; 502.1 59.6 4.1 -8.8 283.0
81.25 30.25 254.8 ; 2061 42.0 ; 708.2 79.2 2.7 -9.1 522.4
81.25 30.75 62.3 ; 2041 35.8 ; 1000.0 157.7 -20.1 -33.0 667.4
81.25 31.25 113.9 ; 2029 34.9 ; 1000.0 204.8 -32.8 -29.5 223.6
81.25 31.75 1.8 ; 2028 34.6 ; 1000.0 144.2 -26.3 -14.1 -9999.0
81.25 32.75 137.1 ; 2050 63.7 ; 582.5 100.0 -28.6 -38.4 115.7
81.25 34.25 181.1 ; 2038 58.8 ; 579.8 70.7 -36.7 -53.5 154.7
81.25 34.75 14.6 ; 2039 58.7 ; 715.0 76.9 -50.0 -71.4 239.8
81.25 35.25 1031.5 ; 2078 120.0 ; 307.0 129.7 46.0 48.0 118.6
81.25 35.75 295.0 ; 2038 60.9 ; 584.0 84.6 -35.4 -50.1 128.6
81.25 36.25 6.3 ; 2026 50.5 ; 756.9 60.8 -54.3 -75.0 204.9
81.25 41.75 38.2 ; 2045 60.1 ; 510.0 73.3 -30.0 -45.0 186.9
81.25 42.25 324.3 ; 2052 67.4 ; 519.1 77.9 -23.8 -38.0 135.7
81.25 42.75 312.5 ; 2044 55.3 ; 524.6 76.2 -31.7 -47.2 115.8
81.25 44.25 5.2 ; 2045 112.7 ; 768.0 156.9 -27.8 -35.0 293.4
81.25 44.75 4.5 ; 2037 69.9 ; 689.2 80.6 -51.8 -79.4 237.7
81.25 45.25 18.4 ; 2032 48.4 ; 681.1 67.9 -48.2 -70.7 170.4
81.75 29.75 71.8 ; 2058 39.4 ; 498.9 59.9 2.9 -12.9 35.4
81.75 30.25 182.8 ; 2056 44.8 ; 977.1 95.5 -10.8 -26.4 473.4
81.75 30.75 26.1 ; 2039 28.2 ; 968.1 170.4 -33.1 -46.9 362.5
81.75 31.25 18.5 ; 2030 30.4 ; 936.4 117.8 -36.3 -41.4 259.4
81.75 31.75 5.5 ; 2024 53.9 ; 794.4 93.7 -44.3 -59.8 183.5
81.75 33.25 4.7 ; 2037 65.8 ; 631.8 62.1 -54.7 -74.9 158.9
81.75 33.75 33.2 ; 2044 67.5 ; 683.0 81.1 -33.1 -49.9 187.6
81.75 34.25 156.5 ; 2047 67.1 ; 625.7 89.9 -27.7 -43.6 149.4
81.75 34.75 38.3 ; 2046 56.8 ; 537.2 76.1 -33.2 -49.2 103.0
81.75 35.25 370.9 ; 2055 89.2 ; 450.7 101.7 -4.4 -16.3 122.2
81.75 35.75 118.0 ; 2043 49.5 ; 564.7 67.9 -40.8 -54.6 133.5
81.75 36.25 60.2 ; 2042 52.0 ; 658.5 71.0 -43.6 -56.9 194.4
81.75 42.25 150.4 ; 2038 57.8 ; 500.7 77.1 -34.6 -51.1 96.9
81.75 42.75 244.6 ; 2038 53.4 ; 581.1 73.2 -43.8 -61.0 104.6
81.75 44.25 0.6 ; 2026 50.8 ; 686.2 44.6 -63.8 -84.5 -9999.0
81.75 44.75 21.1 ; 2046 87.9 ; 706.4 136.4 -25.6 -37.9 324.0
81.75 45.25 3.3 ; 2027 83.7 ; 561.6 54.4 -47.5 -74.4 228.0
81.75 45.75 0.2 ; 2016 92.4 ; 770.5 33.5 -50.8 -65.9 -9999.0
82.25 28.75 0.1 ; 2063 45.2 ; 877.9 45.8 22.5 5.4 134.0
82.25 29.25 7.4 ; 2058 43.2 ; 796.7 41.2 17.0 1.3 147.2
82.25 29.75 111.1 ; 2059 42.9 ; 907.9 64.5 -2.2 -15.1 296.5
82.25 30.25 308.5 ; 2055 59.6 ; 660.7 88.8 -10.7 -22.5 144.4
82.25 30.75 1.1 ; 2042 148.9 ; 609.4 78.5 -38.7 -68.5 305.5
82.25 31.25 135.4 ; 2050 57.0 ; 618.2 88.0 -27.4 -41.9 198.5
82.25 31.75 10.7 ; 2044 69.4 ; 809.1 106.3 -44.8 -57.5 238.8
82.25 33.25 14.5 ; 2040 97.0 ; 843.0 110.9 -40.3 -65.4 156.8
82.25 33.75 142.0 ; 2047 71.6 ; 539.6 87.1 -26.7 -42.7 94.3
82.25 34.25 281.0 ; 2058 101.7 ; 575.0 126.0 3.7 -4.4 143.7
82.25 34.75 44.6 ; 2043 63.5 ; 673.6 94.1 -33.4 -49.3 156.6
82.25 35.25 191.9 ; 2059 58.1 ; 394.1 66.7 -21.5 -33.2 131.6
82.25 35.75 334.3 ; 2051 67.0 ; 489.0 84.6 -19.6 -31.4 127.1
82.25 36.25 127.5 ; 2035 55.6 ; 646.5 77.4 -43.3 -63.1 123.9
82.25 42.25 50.7 ; 2033 48.8 ; 659.1 64.1 -44.9 -64.5 152.3
82.25 42.75 184.2 ; 2040 54.2 ; 580.1 77.5 -35.2 -51.1 125.8
82.25 44.25 5.7 ; 2032 59.8 ; 572.7 71.5 -46.0 -67.2 213.5
82.75 28.75 2.8 ; 2065 45.5 ; 944.9 55.0 13.1 -5.6 398.1
82.75 29.25 277.0 ; 2064 42.3 ; 781.0 80.9 9.9 -6.5 64.6

82.75 29.75 287.2 ; 2056 57.3 ; 946.0 144.6 1.3 -12.9 289.5
82.75 30.75 156.5 ; 2040 52.8 ; 621.5 73.1 -42.6 -62.2 143.2
82.75 31.25 109.6 ; 2042 59.5 ; 695.5 91.2 -35.6 -52.5 149.0
82.75 31.75 15.2 ; 2050 130.5 ; 642.4 139.6 -25.2 -55.4 152.8
82.75 33.75 3.7 ; 2037 74.5 ; 846.4 213.6 -48.2 -60.9 -9999.0
82.75 34.25 1.1 ; 2051 356.8 ; 861.9 377.5 26.9 43.5 -9999.0
82.75 34.75 3.2 ; 2033 113.2 ; 882.4 232.9 -46.7 -76.6 327.3
82.75 35.75 10.0 ; 2035 53.7 ; 625.1 55.9 -48.9 -67.3 142.3
82.75 36.25 73.1 ; 2041 45.7 ; 615.8 71.2 -41.9 -57.2 135.7
82.75 42.25 31.4 ; 2031 57.3 ; 654.0 77.0 -48.9 -70.2 174.4
82.75 42.75 189.2 ; 2040 52.5 ; 677.4 74.5 -43.2 -61.4 149.8
82.75 43.25 0.3 ; 2020 45.2 ; 875.1 56.9 -64.6 -86.4 243.3
82.75 43.75 6.4 ; 2031 49.0 ; 616.0 44.9 -55.6 -77.4 257.7
82.75 44.25 0.7 ; 2046 37.5 ; 630.7 48.1 -56.5 -81.9 160.8
83.25 28.75 330.4 ; 2064 49.6 ; 780.2 95.8 1.1 -14.4 34.8
83.25 29.25 32.3 ; 2059 36.5 ; 979.1 76.9 -20.6 -37.1 188.3
83.25 29.75 13.1 ; 2035 49.5 ; 660.4 73.8 -44.6 -64.0 190.5
83.25 30.25 0.1 ; 2021 46.5 ; 782.9 72.6 -62.9 -85.7 346.1
83.25 30.75 98.8 ; 2033 52.8 ; 554.1 68.2 -44.4 -64.2 131.2
83.25 31.25 173.1 ; 2047 61.8 ; 530.2 91.3 -33.2 -46.7 93.6
83.25 31.75 132.4 ; 2052 66.6 ; 529.8 92.4 -23.7 -34.4 118.0
83.25 33.75 7.0 ; 2049 96.1 ; 619.8 112.2 -26.2 -44.0 291.5
83.25 36.25 16.3 ; 2037 52.2 ; 729.7 69.2 -49.3 -70.4 184.0
83.25 36.75 0.8 ; 2025 273.3 ; 905.0 185.8 16.0 -5.3 -9999.0
83.25 42.25 38.3 ; 2034 42.5 ; 632.6 60.2 -53.3 -74.0 158.3
83.25 42.75 143.4 ; 2048 62.6 ; 648.3 82.8 -34.6 -51.3 143.9
83.25 43.25 11.2 ; 2027 51.1 ; 684.9 69.4 -51.7 -75.2 200.1
83.25 43.75 17.0 ; 2030 68.6 ; 612.3 62.0 -45.5 -74.1 226.0
83.25 44.25 181.5 ; 2037 60.6 ; 650.3 80.5 -39.6 -57.7 143.7
83.75 28.25 2.0 ; 2057 39.9 ; 437.2 32.7 6.3 -4.9 122.0
83.75 28.75 354.7 ; 2059 44.2 ; 499.7 65.8 4.5 -9.9 19.3
83.75 29.25 265.7 ; 2042 49.3 ; 801.3 117.0 -31.1 -45.7 144.1
83.75 29.75 1.0 ; 2037 291.0 ; 754.9 125.3 -10.3 -55.6 303.1
83.75 30.25 79.2 ; 2028 48.1 ; 643.7 62.0 -50.1 -70.1 157.3
83.75 30.75 151.1 ; 2039 47.5 ; 552.7 70.6 -42.5 -58.2 120.9
83.75 31.25 28.4 ; 2045 72.3 ; 639.7 118.1 -37.2 -50.6 194.7
83.75 31.75 106.4 ; 2054 80.5 ; 620.3 110.7 -17.9 -30.7 210.2
83.75 42.25 33.4 ; 2021 51.1 ; 614.0 60.8 -48.1 -67.5 156.8
83.75 42.75 24.3 ; 2030 58.8 ; 690.8 85.5 -46.0 -68.4 183.9
83.75 43.25 64.4 ; 2034 46.7 ; 639.7 69.7 -47.8 -67.5 134.5
83.75 43.75 77.6 ; 2046 55.1 ; 628.3 77.9 -34.4 -50.5 184.0
83.75 44.25 326.3 ; 2050 60.0 ; 460.1 69.0 -26.7 -38.1 118.1
83.75 50.25 1.5 ; 2010 10.7 ; 226.9 8.6 -57.5 -71.8 120.8
84.25 28.25 26.0 ; 2057 41.5 ; 427.3 32.8 7.2 -3.0 191.6
84.25 28.75 619.7 ; 2055 44.6 ; 465.0 69.5 -2.1 -16.4 28.7
84.25 29.25 1.5 ; 2016 73.3 ; 610.0 64.4 -49.7 -76.7 234.7
84.25 29.75 5.7 ; 2028 50.6 ; 693.8 62.9 -54.8 -80.1 178.0
84.25 30.25 11.4 ; 2035 50.2 ; 722.5 70.8 -48.5 -66.6 189.8
84.25 30.75 81.0 ; 2035 51.3 ; 639.9 70.8 -47.5 -67.5 158.0
84.25 34.25 5.0 ; 2049 83.5 ; 729.5 81.9 -31.2 -49.2 303.4
84.25 36.75 23.8 ; 2040 67.4 ; 695.4 84.9 -43.2 -60.8 236.4
84.25 42.25 39.7 ; 2031 63.5 ; 672.9 67.8 -45.2 -70.2 190.1
84.25 42.75 4.9 ; 2025 49.7 ; 626.2 40.0 -52.3 -81.0 239.2
84.25 43.25 14.0 ; 2032 60.1 ; 687.4 65.9 -51.0 -70.0 184.8

84.25 43.75 109.0 ; 2035 54.2 ; 645.9 69.7 -42.7 -61.6 185.6
84.25 44.25 97.9 ; 2031 51.2 ; 670.0 67.6 -48.6 -68.2 145.7
84.25 50.25 0.9 ; 2013 13.1 ; 253.1 16.2 -53.5 -71.2 101.7
84.25 51.25 0.2 ; 2013 10.1 ; 289.7 2.1 -60.5 -73.4 81.4
84.75 28.25 154.8 ; 2079 47.6 ; 149.9 44.0 24.0 15.4 2.8
84.75 28.75 340.1 ; 2058 39.8 ; 326.1 40.8 8.8 -4.2 18.4
84.75 29.75 196.0 ; 2039 61.7 ; 586.9 79.4 -35.8 -52.2 186.0
84.75 30.25 248.0 ; 2042 55.1 ; 594.4 75.6 -39.0 -55.3 109.6
84.75 30.75 3.6 ; 2023 74.4 ; 709.3 68.2 -47.6 -74.4 310.3
84.75 31.75 33.4 ; 2050 62.9 ; 646.6 82.6 -37.2 -57.7 144.2
84.75 33.25 4.5 ; 2036 62.4 ; 707.1 72.1 -53.4 -69.1 184.3
84.75 36.75 191.5 ; 2037 53.3 ; 640.1 76.8 -42.7 -60.1 112.5
84.75 42.25 20.5 ; 2033 54.7 ; 668.2 75.0 -49.6 -71.1 159.0
84.75 42.75 22.4 ; 2028 49.3 ; 626.7 57.0 -52.5 -76.9 183.6
84.75 43.25 247.5 ; 2042 53.0 ; 602.1 66.5 -39.6 -56.2 137.3
84.75 43.75 353.7 ; 2048 64.4 ; 581.5 79.8 -29.2 -45.2 153.7
84.75 44.25 0.8 ; 2022 146.2 ; 748.5 82.7 -37.9 -73.9 291.9
85.25 28.25 189.1 ; 2057 40.3 ; 247.9 33.0 7.9 -0.4 45.5
85.25 28.75 259.0 ; 2052 42.2 ; 654.8 39.4 0.3 -11.1 109.0
85.25 29.25 27.5 ; 2033 39.6 ; 593.1 57.8 -53.2 -69.8 118.5
85.25 29.75 40.8 ; 2033 49.5 ; 646.5 67.9 -47.8 -67.3 162.4
85.25 30.25 0.7 ; 2025 252.9 ; 677.3 123.0 -24.6 -68.2 337.3
85.25 31.25 13.5 ; 2045 60.0 ; 707.2 94.3 -42.1 -55.7 165.4
85.25 31.75 40.7 ; 2037 56.6 ; 676.7 88.6 -43.6 -56.4 125.9
85.25 33.25 29.0 ; 2038 58.3 ; 705.0 93.7 -44.0 -62.0 63.7
85.25 34.75 26.8 ; 2044 77.2 ; 788.4 130.1 -35.2 -52.8 190.3
85.25 36.75 47.6 ; 2037 52.6 ; 621.7 64.7 -43.7 -61.5 143.7
85.25 42.25 0.5 ; 2026 35.7 ; 778.2 34.7 -60.3 -75.8 229.4
85.25 42.75 207.6 ; 2037 54.6 ; 641.8 76.5 -41.7 -59.1 160.5
85.25 43.25 365.7 ; 2050 67.3 ; 657.1 83.4 -30.2 -44.1 145.9
85.25 43.75 301.6 ; 2052 64.3 ; 510.5 79.4 -25.3 -38.6 152.6
85.25 46.75 6.8 ; 2028 29.4 ; 497.8 48.3 -54.1 -61.4 75.4
85.25 48.75 0.3 ; 2020 21.5 ; 597.7 13.2 -55.2 -62.7 -9999.0
85.25 49.25 5.9 ; 2008 14.7 ; 301.9 16.7 -57.6 -71.8 63.2
85.25 49.75 0.4 ; 2010 10.4 ; 206.3 6.4 -55.2 -71.2 132.5
85.75 28.25 659.1 ; 2057 50.7 ; 599.2 55.7 0.1 -17.4 122.8
85.75 28.75 86.0 ; 2052 48.4 ; 642.7 68.3 -3.7 -25.4 69.2
85.75 29.75 21.8 ; 2029 47.9 ; 661.7 63.5 -51.2 -70.8 182.6
85.75 30.25 92.3 ; 2030 57.0 ; 606.7 65.7 -48.3 -70.7 186.2
85.75 33.25 5.8 ; 2039 145.5 ; 645.0 161.4 23.5 3.3 -9999.0
85.75 33.75 5.6 ; 2041 76.9 ; 738.7 145.4 -46.7 -60.2 -9999.0
85.75 34.25 324.8 ; 2062 115.9 ; 603.8 137.6 15.9 5.9 162.4
85.75 34.75 30.8 ; 2038 65.6 ; 779.6 99.6 -40.0 -54.8 146.7
85.75 35.75 107.2 ; 2055 84.6 ; 529.4 103.5 -6.1 -14.7 148.0
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85.75 42.75 36.2 ; 2031 50.5 ; 572.0 67.3 -46.2 -63.9 163.0
85.75 43.25 60.0 ; 2032 50.4 ; 627.8 67.0 -49.9 -70.6 155.8
85.75 43.75 180.2 ; 2038 53.9 ; 630.8 67.0 -44.2 -63.0 149.9
85.75 46.75 23.0 ; 2019 23.8 ; 510.2 53.1 -54.8 -63.6 71.1
85.75 48.75 1.0 ; 2012 14.4 ; 288.9 13.1 -56.2 -70.5 62.5
85.75 49.25 4.1 ; 2012 11.8 ; 241.1 10.0 -56.3 -70.9 94.2
85.75 49.75 23.1 ; 2000 15.0 ; 315.1 24.3 -57.8 -69.6 93.5
86.25 27.75 112.3 ; 2070 46.9 ; 716.2 48.1 -0.2 -13.0 77.8

86.25 28.25 384.4 ; 2057 55.2 ; 980.1 67.9 -2.3 -19.2 85.2
86.25 28.75 7.3 ; 2048 46.9 ; 984.9 85.9 -24.5 -32.6 201.2
86.25 29.25 28.1 ; 2022 41.9 ; 593.4 55.8 -51.5 -69.6 174.2
86.25 29.75 48.7 ; 2027 54.8 ; 641.0 64.2 -50.0 -73.9 195.2
86.25 30.25 107.7 ; 2038 49.5 ; 666.7 72.7 -44.5 -62.9 161.0
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86.25 31.25 2.9 ; 2028 60.1 ; 853.2 91.2 -55.1 -78.8 150.1
86.25 37.25 4.3 ; 2037 44.9 ; 646.1 70.4 -51.1 -74.2 184.2
86.25 43.25 1.0 ; 2027 226.0 ; 830.5 115.1 -34.7 -76.9 292.0
86.25 43.75 151.1 ; 2042 50.2 ; 592.0 63.6 -45.0 -62.2 161.1
86.25 49.25 2.1 ; 2003 11.7 ; 244.0 11.5 -55.9 -71.8 87.3
86.25 49.75 55.9 ; 2002 17.3 ; 385.2 36.2 -57.5 -70.6 92.5
86.75 27.75 497.6 ; 2067 57.2 ; 617.7 56.5 6.7 -6.7 134.9
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86.75 29.75 28.7 ; 2033 62.8 ; 571.0 56.3 -48.3 -72.2 175.7
86.75 30.25 61.8 ; 2039 55.1 ; 587.9 65.8 -38.9 -57.1 110.1
86.75 30.75 0.7 ; 2019 279.9 ; 604.3 89.7 -27.2 -74.5 271.5
86.75 31.25 45.5 ; 2035 55.3 ; 660.8 70.5 -47.8 -65.7 173.0
86.75 31.75 2.5 ; 2028 49.5 ; 691.5 49.9 -51.5 -79.6 264.2
86.75 32.25 2.8 ; 2040 113.6 ; 894.5 187.3 -36.1 -42.2 -9999.0
86.75 34.25 28.4 ; 2047 83.1 ; 686.9 90.7 -37.7 -61.8 152.5
86.75 36.25 0.8 ; 2025 63.3 ; 679.1 31.0 -56.8 -77.1 208.4
86.75 36.75 2.1 ; 2027 66.5 ; 703.9 55.3 -50.5 -71.9 252.5
86.75 37.25 6.0 ; 2040 57.7 ; 775.5 91.4 -52.7 -69.3 165.7
86.75 37.75 18.2 ; 2043 65.8 ; 693.8 78.4 -44.7 -64.9 176.0
86.75 42.75 18.5 ; 2025 39.6 ; 616.8 49.2 -56.3 -79.5 163.0
86.75 43.25 147.9 ; 2030 50.0 ; 643.0 62.4 -50.6 -73.3 174.0
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86.75 49.25 30.1 ; 2009 15.0 ; 321.0 23.0 -57.1 -71.1 73.6
86.75 49.75 152.1 ; 2025 24.4 ; 449.8 49.5 -47.1 -58.8 82.1
87.25 27.75 304.8 ; 2070 51.6 ; 275.5 51.5 5.4 -5.4 58.7
87.25 28.25 143.5 ; 2065 53.4 ; 892.1 74.2 -6.9 -24.8 116.4
87.25 28.75 37.3 ; 2037 49.0 ; 640.2 69.0 -44.1 -62.8 145.4
87.25 29.25 32.3 ; 2043 62.5 ; 768.7 85.9 -40.5 -60.4 169.5
87.25 29.75 62.0 ; 2036 46.4 ; 623.2 61.9 -49.1 -69.1 127.4
87.25 30.25 0.6 ; 2040 50.2 ; 741.4 41.1 -59.8 -84.6 244.9
87.25 31.25 5.1 ; 2021 47.7 ; 669.4 63.8 -57.8 -82.3 262.3
87.25 32.25 47.6 ; 2054 67.3 ; 660.4 94.8 -20.0 -27.4 137.0
87.25 33.25 64.7 ; 2047 56.4 ; 594.3 77.1 -35.9 -51.5 153.2
87.25 36.25 562.8 ; 2072 125.4 ; 429.0 119.9 35.7 30.3 134.1
87.25 36.75 90.4 ; 2047 61.0 ; 484.3 73.2 -35.6 -47.5 115.1
87.25 37.25 10.8 ; 2036 50.5 ; 632.9 58.9 -45.7 -63.1 215.7
87.25 37.75 103.0 ; 2057 74.0 ; 687.9 104.8 -23.7 -36.3 227.6
87.25 42.75 14.3 ; 2034 63.8 ; 606.2 68.4 -48.0 -68.7 197.1
87.25 43.25 42.8 ; 2029 42.9 ; 586.1 61.3 -50.2 -69.6 139.2
87.25 48.75 23.8 ; 1999 12.6 ; 270.5 18.6 -58.7 -72.5 98.8
87.25 49.25 131.3 ; 2018 23.1 ; 361.4 32.2 -54.4 -64.4 83.0
87.25 49.75 53.1 ; 2011 17.9 ; 399.9 41.1 -56.7 -68.6 146.5
87.25 50.25 25.7 ; 2016 17.9 ; 425.4 42.4 -55.0 -66.0 118.1
87.25 51.25 0.5 ; 2009 9.7 ; 236.5 9.0 -57.7 -70.4 120.8
87.75 27.75 268.3 ; 2059 43.9 ; 684.5 48.1 -12.6 -33.5 204.1
87.75 28.25 88.1 ; 2055 44.5 ; 915.9 74.4 -11.7 -34.7 129.1
87.75 28.75 19.9 ; 2041 45.3 ; 619.2 63.2 -40.4 -59.7 177.2

87.75 29.75 3.7 ; 2027 50.2 ; 635.4 45.6 -53.8 -81.5 279.1
87.75 30.25 6.1 ; 2030 75.0 ; 600.1 55.2 -45.7 -76.2 200.3
87.75 30.75 16.2 ; 2029 60.2 ; 655.6 71.9 -47.3 -70.8 162.0
87.75 31.25 0.9 ; 2030 250.8 ; 767.1 147.0 -23.3 -79.9 249.9
87.75 32.25 37.6 ; 2040 63.7 ; 678.8 81.7 -40.4 -54.4 203.0
87.75 32.75 15.9 ; 2048 68.8 ; 702.6 156.7 -27.4 -43.3 115.1
87.75 33.25 6.6 ; 2052 112.8 ; 655.1 130.7 -20.3 -50.5 157.4
87.75 33.75 2.5 ; 2039 122.0 ; 675.2 310.9 -27.1 -26.8 -9999.0
87.75 36.25 38.2 ; 2052 113.6 ; 828.1 170.1 -20.7 -32.9 235.3
87.75 36.75 56.0 ; 2037 55.3 ; 636.6 81.4 -41.7 -57.2 127.0
87.75 37.25 128.8 ; 2041 55.9 ; 609.5 78.8 -40.6 -56.4 141.6
87.75 37.75 26.6 ; 2029 46.6 ; 672.2 58.6 -48.6 -67.4 195.1
87.75 42.75 4.3 ; 2028 51.7 ; 577.0 42.9 -55.7 -78.8 211.3
87.75 43.25 14.2 ; 2031 58.9 ; 696.5 74.4 -48.3 -73.5 192.0
87.75 48.25 0.4 ; 2008 16.1 ; 304.6 1.7 -63.7 -77.0 -9999.0
87.75 48.75 70.1 ; 2011 18.5 ; 396.4 43.5 -54.7 -64.7 157.6
87.75 49.25 152.1 ; 2029 33.5 ; 507.4 48.6 -58.2 -65.0 220.9
87.75 49.75 126.1 ; 2022 25.2 ; 371.2 34.8 -56.0 -63.2 62.2
87.75 50.25 101.8 ; 2016 23.0 ; 420.6 49.2 -52.7 -63.7 105.9
88.25 27.75 829.7 ; 2056 48.0 ; 353.0 52.5 -5.9 -25.2 67.2
88.25 28.25 55.0 ; 2043 44.7 ; 981.7 77.1 -19.0 -46.7 211.5
88.25 28.75 13.4 ; 2033 42.1 ; 650.1 46.8 -53.2 -73.0 186.9
88.25 29.75 44.6 ; 2037 51.1 ; 662.1 77.2 -44.5 -59.6 119.6
88.25 30.25 70.9 ; 2044 58.2 ; 618.9 85.3 -37.8 -56.2 171.4
88.25 30.75 10.5 ; 2032 55.5 ; 807.4 76.4 -53.6 -73.8 167.6
88.25 31.25 16.9 ; 2031 53.9 ; 742.8 67.9 -50.0 -71.4 182.6
88.25 35.75 8.5 ; 2043 78.8 ; 828.9 126.4 -37.4 -48.8 325.8
88.25 36.75 0.8 ; 2024 34.9 ; 712.2 55.2 -59.9 -82.9 160.3
88.25 37.25 12.8 ; 2036 47.6 ; 753.6 88.7 -46.1 -64.3 162.1
88.25 37.75 112.4 ; 2041 60.6 ; 622.9 83.3 -37.5 -55.9 164.1
88.25 43.25 46.0 ; 2042 69.3 ; 701.8 83.2 -37.2 -53.6 234.1
88.25 43.75 100.2 ; 2039 57.1 ; 663.3 73.5 -37.7 -52.0 202.8
88.25 48.25 3.5 ; 2008 13.4 ; 286.7 18.1 -57.7 -69.0 138.8
88.25 49.25 138.7 ; 2049 41.0 ; 442.3 46.9 -49.1 -50.2 167.9
88.25 49.75 26.0 ; 2003 18.2 ; 420.7 36.6 -59.0 -70.6 142.1
88.25 51.25 1.0 ; 2008 8.9 ; 224.7 7.1 -57.0 -67.5 110.2
88.25 54.25 2.5 ; 2012 10.4 ; 214.2 9.2 -55.6 -67.1 127.0
88.75 27.75 226.6 ; 2063 34.4 ; 366.4 37.1 -11.6 -32.3 107.6
88.75 28.25 18.0 ; 2062 42.1 ; 722.6 43.8 -10.3 -32.9 133.2
88.75 28.75 5.8 ; 2028 38.4 ; 736.2 41.4 -44.8 -65.2 314.2
88.75 30.25 78.7 ; 2044 73.6 ; 676.7 92.9 -29.3 -49.0 165.7
88.75 30.75 31.6 ; 2043 69.9 ; 587.5 83.3 -32.1 -46.1 109.3
88.75 33.25 62.6 ; 2043 73.0 ; 734.9 99.6 -34.2 -48.8 107.0
88.75 33.75 103.2 ; 2062 117.1 ; 603.8 155.3 23.2 17.6 330.9
88.75 35.25 23.9 ; 2041 100.8 ; 806.8 103.6 -14.6 -31.6 192.5
88.75 35.75 15.2 ; 2048 79.7 ; 764.8 108.4 -35.8 -55.6 196.2
88.75 36.75 0.6 ; 2023 50.8 ; 757.9 113.2 -49.5 -76.2 -9999.0
88.75 37.75 4.8 ; 2038 37.7 ; 690.5 68.0 -58.7 -75.8 91.1
88.75 38.25 51.0 ; 2048 62.0 ; 652.4 91.6 -39.1 -54.1 158.9
88.75 43.25 65.4 ; 2038 62.9 ; 618.4 77.6 -44.3 -65.8 165.1
88.75 43.75 7.9 ; 2033 45.5 ; 617.8 52.8 -52.3 -75.5 229.8
88.75 48.25 26.7 ; 2005 20.1 ; 392.8 42.0 -57.7 -69.6 70.1
88.75 48.75 4.1 ; 2014 14.3 ; 288.8 25.9 -53.9 -67.4 67.8
88.75 49.25 51.3 ; 2009 21.5 ; 447.1 47.9 -56.7 -68.3 61.9

88.75 50.25 1.7 ; 2012 11.8 ; 202.6 10.2 -55.4 -68.0 124.4
88.75 54.25 0.6 ; 2021 9.5 ; 204.0 14.4 -53.1 -62.5 166.5
89.25 27.75 102.0 ; 2057 28.5 ; 237.3 33.1 -9.0 -30.0 42.9
89.25 28.25 13.8 ; 2050 26.0 ; 413.9 22.2 -13.5 -35.0 101.9
89.25 29.75 0.1 ; 2026 53.1 ; 872.7 90.3 -62.6 -84.8 552.0
89.25 30.25 43.1 ; 2038 44.3 ; 607.1 62.4 -50.0 -70.6 140.6
89.25 33.75 158.7 ; 2066 108.4 ; 571.1 125.9 15.2 6.2 223.2
89.25 34.25 31.9 ; 2054 100.0 ; 666.9 100.2 -22.2 -32.7 331.0
89.25 34.75 39.1 ; 2052 76.0 ; 655.5 93.9 -32.7 -47.8 153.4
89.25 35.75 101.5 ; 2050 91.6 ; 602.6 104.2 -20.2 -37.4 133.8
89.25 36.75 6.4 ; 2029 113.5 ; 643.7 85.8 -46.5 -77.0 168.0
89.25 37.75 15.5 ; 2044 83.3 ; 704.6 93.4 -37.0 -56.2 262.9
89.25 38.25 89.8 ; 2039 66.6 ; 599.1 84.4 -39.3 -59.2 135.2
89.25 43.25 38.2 ; 2028 52.9 ; 636.8 62.3 -51.3 -75.8 133.5
89.25 43.75 2.3 ; 2032 108.8 ; 611.9 63.1 -39.8 -73.7 255.7
89.25 47.75 0.5 ; 2003 12.8 ; 339.9 9.3 -58.0 -69.9 282.1
89.25 48.75 6.5 ; 2005 20.5 ; 436.1 39.6 -61.7 -68.9 104.9
89.25 49.25 2.3 ; 2009 17.1 ; 365.6 22.2 -54.1 -69.7 52.6
89.25 49.75 3.6 ; 2004 18.2 ; 465.1 30.9 -56.3 -69.9 96.8
89.25 50.75 3.9 ; 2005 17.5 ; 334.9 22.1 -56.0 -70.3 28.6
89.25 51.25 3.0 ; 2008 14.1 ; 333.4 16.2 -57.8 -71.4 68.0
89.25 53.75 3.0 ; 2019 10.4 ; 212.5 9.5 -54.8 -67.6 146.2
89.25 54.25 0.6 ; 2005 12.6 ; 260.1 9.9 -54.2 -68.6 89.6
89.75 27.75 39.9 ; 2054 26.7 ; 203.4 17.9 -12.2 -32.8 155.0
89.75 28.25 321.8 ; 2057 29.3 ; 315.3 34.0 -16.5 -36.4 99.4
89.75 28.75 0.5 ; 2029 57.9 ; 628.4 39.3 -50.0 -74.0 303.6
89.75 29.25 0.2 ; 2028 37.8 ; 847.7 110.7 -65.0 -86.0 178.0
89.75 29.75 20.5 ; 2029 44.5 ; 634.8 49.7 -54.2 -74.0 180.7
89.75 30.25 23.4 ; 2027 50.6 ; 605.0 72.3 -49.3 -68.6 164.4
89.75 33.75 218.5 ; 2065 94.1 ; 434.9 120.1 8.8 -2.6 102.7
89.75 34.75 41.0 ; 2045 80.9 ; 581.9 78.2 -38.0 -45.3 157.7
89.75 35.75 87.4 ; 2060 97.6 ; 486.5 93.8 -11.3 -21.1 189.9
89.75 36.25 55.9 ; 2030 50.7 ; 682.1 72.7 -48.7 -72.1 154.8
89.75 36.75 53.6 ; 2032 55.2 ; 642.9 64.3 -49.7 -73.1 160.3
89.75 38.25 4.9 ; 2041 68.0 ; 718.9 77.9 -47.2 -63.4 175.8
89.75 43.25 20.1 ; 2027 40.9 ; 622.1 53.3 -53.4 -76.4 143.7
89.75 43.75 20.0 ; 2028 44.8 ; 636.5 46.8 -56.6 -78.7 176.1
89.75 47.75 3.2 ; 2005 10.9 ; 222.2 7.8 -57.6 -72.1 82.1
89.75 48.75 0.4 ; 2008 14.1 ; 289.7 21.1 -54.2 -69.8 131.7
89.75 49.25 24.4 ; 2018 22.0 ; 449.9 43.4 -57.3 -68.8 43.6
89.75 50.75 16.9 ; 2008 14.8 ; 295.6 16.7 -59.9 -72.2 81.0
89.75 51.25 0.6 ; 2006 14.8 ; 284.9 10.6 -55.2 -71.2 19.0
89.75 68.75 0.1 ; 2025 74.4 ; 302.0 19.3 -50.5 -61.5 98.6
90.25 27.75 115.6 ; 2045 26.8 ; 454.1 24.0 -18.5 -38.6 151.3
90.25 28.25 666.9 ; 2061 41.1 ; 222.2 46.3 -6.3 -21.4 36.8
90.25 28.75 102.3 ; 2041 53.2 ; 619.6 76.6 -40.5 -57.0 93.8
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90.25 30.25 405.1 ; 2037 55.2 ; 586.6 73.8 -41.0 -58.3 155.1
90.25 33.75 27.8 ; 2044 78.6 ; 766.1 97.5 -34.1 -49.1 159.2
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90.25 37.75 4.0 ; 2022 76.7 ; 744.3 111.6 -40.6 -71.6 231.4
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90.25 68.75 0.2 ; 2014 16.2 ; 272.6 4.9 -62.0 -73.7 -9999.0
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90.75 27.75 43.8 ; 2047 22.1 ; 221.5 18.5 -17.8 -36.9 96.3
90.75 28.25 450.6 ; 2052 31.1 ; 358.3 33.6 -15.5 -35.3 100.1
90.75 28.75 0.8 ; 2022 32.5 ; 815.3 57.9 -65.9 -85.6 315.6
90.75 29.25 0.2 ; 2028 282.1 ; 584.9 92.4 -18.1 -72.7 350.1
90.75 29.75 25.9 ; 2033 45.2 ; 573.0 50.7 -51.1 -75.0 177.0
90.75 30.25 199.8 ; 2051 67.3 ; 660.2 90.5 -25.8 -40.2 202.4
90.75 30.75 1.5 ; 2027 79.3 ; 623.4 39.5 -47.4 -77.4 218.9
90.75 33.25 145.3 ; 2053 68.3 ; 394.0 71.5 -17.9 -27.9 116.9
90.75 33.75 176.2 ; 2061 85.7 ; 637.1 112.4 -5.3 -14.9 149.0
90.75 34.25 19.2 ; 2045 63.1 ; 669.0 77.6 -42.0 -59.8 122.9
90.75 34.75 18.7 ; 2066 255.9 ; 818.3 456.4 70.9 72.1 -9999.0
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90.75 36.25 113.5 ; 2058 101.5 ; 569.3 113.9 -2.2 -14.3 277.0
90.75 37.25 22.1 ; 2034 59.0 ; 649.2 76.8 -47.9 -65.7 185.5
90.75 37.75 22.8 ; 2036 47.5 ; 659.2 65.0 -48.0 -69.2 197.0
90.75 47.25 5.5 ; 2009 15.7 ; 319.3 23.9 -58.0 -70.9 156.4
90.75 48.25 15.5 ; 2004 18.1 ; 435.1 34.8 -57.1 -69.9 126.8
90.75 49.25 10.7 ; 2012 23.3 ; 423.4 29.2 -60.8 -66.8 68.9
90.75 49.75 27.9 ; 2018 26.3 ; 439.9 41.0 -56.5 -63.5 117.2
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90.75 69.25 0.5 ; 2013 8.4 ; 214.2 16.7 -53.4 -63.0 101.6
91.25 27.75 99.4 ; 2037 13.7 ; 71.7 15.0 -14.0 -30.0 30.2
91.25 28.25 249.0 ; 2058 25.1 ; 234.4 34.0 -9.9 -28.8 84.8
91.25 28.75 16.2 ; 2037 41.1 ; 715.6 49.5 -39.0 -56.2 398.8
91.25 30.25 62.0 ; 2040 54.0 ; 629.9 78.0 -39.6 -57.1 171.9
91.25 30.75 17.4 ; 2040 72.5 ; 696.5 89.2 -39.0 -56.3 199.3
91.25 31.25 0.9 ; 2031 93.8 ; 741.3 83.2 -42.5 -76.5 191.7
91.25 32.75 164.7 ; 2059 87.0 ; 631.0 109.4 -7.2 -16.1 214.0
91.25 33.25 523.2 ; 2065 104.5 ; 518.0 122.0 7.9 -0.7 174.0
91.25 33.75 132.9 ; 2048 83.5 ; 604.5 104.8 -22.2 -36.0 161.3
91.25 34.75 3.7 ; 2028 42.9 ; 688.7 107.3 -55.5 -71.2 96.1
91.25 35.75 447.0 ; 2077 132.4 ; 601.1 169.7 39.2 22.9 239.0
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91.25 37.25 6.3 ; 2038 58.3 ; 662.3 73.0 -45.8 -65.1 208.8
91.25 46.75 50.0 ; 2025 27.8 ; 559.0 60.0 -52.2 -62.1 62.8
91.25 47.75 4.7 ; 2030 22.2 ; 670.0 97.4 -50.0 -67.3 251.3
91.25 48.75 13.6 ; 2026 34.9 ; 627.5 68.1 -53.1 -62.0 49.5
91.25 49.25 104.8 ; 2029 34.6 ; 534.5 66.9 -51.4 -60.7 299.7
91.25 49.75 53.4 ; 2012 23.0 ; 451.6 48.9 -56.3 -68.7 56.4
91.25 69.25 0.3 ; 2013 11.0 ; 314.2 8.4 -58.8 -72.3 61.7
91.25 69.75 0.1 ; 2009 13.9 ; 234.2 4.3 -50.0 -65.1 161.4
91.75 27.75 50.0 ; 2011 9.9 ; 84.8 10.1 -22.5 -38.3 1.4
91.75 28.25 89.2 ; 2061 24.9 ; 390.0 45.4 -12.3 -34.0 57.4
91.75 28.75 1.9 ; 2042 108.7 ; 753.6 138.8 -37.5 -57.6 176.5

91.75 30.25 30.0 ; 2045 47.8 ; 660.2 63.1 -46.5 -62.8 205.5
91.75 31.25 5.9 ; 2029 70.7 ; 740.9 77.9 -51.5 -77.8 209.1
91.75 32.75 29.9 ; 2033 62.5 ; 707.1 88.8 -45.6 -67.5 165.1
91.75 33.25 99.4 ; 2052 76.1 ; 700.3 107.2 -17.9 -30.3 187.8
91.75 35.75 211.0 ; 2085 128.1 ; 600.5 159.4 41.5 25.2 210.2
91.75 36.25 205.9 ; 2049 60.5 ; 469.8 79.5 -27.0 -43.4 85.2
91.75 36.75 6.8 ; 2032 47.2 ; 614.5 62.4 -46.8 -71.4 242.1
91.75 47.25 12.1 ; 2022 39.1 ; 725.8 61.2 -59.4 -64.6 247.5
91.75 49.25 39.7 ; 2018 28.9 ; 510.6 57.5 -55.4 -65.6 163.1
91.75 69.25 0.3 ; 2000 21.8 ; 371.2 13.7 -58.2 -72.7 102.0
92.25 27.75 345.0 ; 2064 25.3 ; 110.3 19.0 -9.8 -28.4 70.6
92.25 28.25 5.3 ; 2057 23.2 ; 273.9 23.3 -13.8 -35.6 153.1
92.25 28.75 5.5 ; 2033 37.7 ; 604.6 46.0 -55.9 -73.0 203.7
92.25 29.25 10.0 ; 2033 109.5 ; 672.9 101.3 -39.3 -68.9 213.7
92.25 29.75 5.5 ; 2025 49.7 ; 576.4 40.1 -56.8 -79.3 196.0
92.25 30.25 9.6 ; 2026 38.1 ; 593.9 35.2 -58.6 -77.8 192.6
92.25 30.75 25.2 ; 2022 40.1 ; 571.7 47.8 -55.4 -76.4 159.1
92.25 31.25 0.4 ; 2027 68.9 ; 711.4 50.3 -57.5 -83.9 190.6
92.25 32.25 0.3 ; 2026 3176.0 ; 691.2 94.7 11.1 -56.7 220.9
92.25 32.75 34.6 ; 2039 66.5 ; 607.4 78.9 -40.4 -62.0 170.9
92.25 33.25 248.4 ; 2043 60.3 ; 591.4 91.4 -35.1 -50.1 122.3
92.25 35.75 171.7 ; 2040 64.0 ; 633.5 88.3 -33.9 -51.0 137.5
92.25 36.25 0.3 ; 2015 131.8 ; 663.1 62.8 -44.8 -75.9 336.8
92.25 47.25 14.2 ; 2021 32.7 ; 658.6 81.0 -57.0 -68.6 215.3
92.25 69.75 0.7 ; 2005 14.3 ; 249.2 6.7 -59.7 -70.0 -0.6
92.75 27.75 360.7 ; 2054 14.6 ; 63.1 14.0 -12.8 -28.9 8.5
92.75 28.25 334.1 ; 2066 25.7 ; 132.6 23.4 -8.3 -26.5 53.8
92.75 28.75 1.1 ; 2026 48.6 ; 634.0 116.1 -54.3 -69.0 139.3
92.75 29.25 16.2 ; 2031 39.8 ; 683.7 54.9 -51.7 -71.6 183.0
92.75 29.75 135.2 ; 2032 43.7 ; 617.7 61.7 -50.8 -71.6 150.9
92.75 30.25 14.7 ; 2029 49.3 ; 674.9 57.6 -55.7 -75.5 181.4
92.75 32.25 11.4 ; 2029 67.5 ; 719.2 84.1 -46.9 -71.4 213.8
92.75 32.75 61.2 ; 2032 59.7 ; 625.4 72.5 -44.8 -67.1 173.2
92.75 33.25 148.3 ; 2035 53.2 ; 679.2 79.5 -45.4 -62.7 127.2
92.75 33.75 0.5 ; 2013 22.9 ; 626.0 39.6 -69.1 -87.3 219.4
92.75 35.75 42.1 ; 2039 54.6 ; 700.4 83.1 -44.6 -63.9 142.2
92.75 46.75 6.8 ; 2036 75.7 ; 724.8 123.9 -49.3 -51.2 357.4
93.25 27.75 4.7 ; 1994 3.0 ; -43.7 -46.9 -55.8 -62.3 -66.0
93.25 28.75 122.1 ; 2050 23.7 ; 127.6 25.0 -25.7 -42.0 133.1
93.25 29.25 14.0 ; 2036 64.8 ; 702.7 64.6 -46.8 -71.7 232.7
93.25 29.75 128.3 ; 2029 54.8 ; 636.2 72.6 -46.8 -68.8 183.9
93.25 30.25 326.9 ; 2047 55.5 ; 560.6 81.6 -30.0 -44.3 119.4
93.25 30.75 74.3 ; 2034 48.2 ; 620.6 61.6 -47.6 -65.1 128.8
93.25 31.25 65.2 ; 2035 54.0 ; 637.6 69.7 -47.3 -69.7 135.1
93.25 31.75 104.4 ; 2052 73.6 ; 549.9 33.7 -37.4 -45.5 219.0
93.25 32.25 2.9 ; 2029 64.6 ; 689.0 56.8 -50.8 -81.4 165.9
93.25 32.75 15.0 ; 2027 55.5 ; 614.2 54.5 -47.1 -69.0 175.8
93.25 33.25 36.6 ; 2037 57.8 ; 676.9 76.5 -47.3 -69.3 149.2
93.25 33.75 0.4 ; 2016 27.7 ; 794.5 83.2 -63.0 -90.2 -9999.0
93.25 34.25 0.3 ; 2020 38.9 ; 799.8 50.4 -64.9 -87.3 237.2
93.25 35.75 115.9 ; 2038 61.7 ; 663.3 81.6 -40.7 -57.9 171.5
93.25 46.75 7.2 ; 2018 24.3 ; 531.3 40.1 -56.0 -65.9 93.0
93.75 28.75 43.6 ; 2039 30.1 ; 251.3 42.1 -35.2 -54.5 86.7
93.75 29.25 23.0 ; 2042 75.0 ; 728.7 95.5 -40.6 -61.4 170.1

93.75 29.75 54.0 ; 2028 50.6 ; 565.1 61.6 -48.5 -68.5 196.4
93.75 30.25 852.3 ; 2049 57.2 ; 348.7 57.3 -23.7 -33.9 89.2
93.75 30.75 352.0 ; 2037 54.3 ; 619.2 75.0 -39.8 -58.1 149.6
93.75 31.25 139.6 ; 2036 47.2 ; 553.3 67.3 -41.5 -59.5 124.5
93.75 31.75 2.2 ; 2024 169.9 ; 745.6 106.2 -30.9 -75.1 320.7
93.75 32.25 7.5 ; 2023 108.6 ; 655.3 79.4 -43.5 -77.2 187.3
93.75 32.75 2.5 ; 2019 35.0 ; 662.3 64.4 -63.7 -85.5 125.5
93.75 33.25 0.3 ; 2019 118.7 ; 740.0 61.3 -55.4 -83.5 404.2
93.75 34.25 3.7 ; 2021 38.7 ; 647.3 42.9 -61.8 -83.0 127.0
93.75 35.25 21.2 ; 2052 103.3 ; 673.7 117.6 -14.4 -27.0 159.4
93.75 35.75 55.0 ; 2040 58.4 ; 571.3 72.6 -42.0 -61.0 146.0
93.75 39.25 51.8 ; 2033 56.1 ; 575.6 77.0 -44.6 -63.9 165.6
93.75 46.75 7.8 ; 2016 31.7 ; 611.8 52.7 -53.8 -58.7 69.5
94.25 29.25 18.1 ; 2033 55.4 ; 595.1 75.1 -43.9 -62.5 170.8
94.25 29.75 10.4 ; 2036 74.7 ; 708.6 90.5 -43.8 -65.3 238.4
94.25 30.25 792.9 ; 2057 53.3 ; 223.1 49.8 -19.2 -31.6 88.7
94.25 30.75 444.1 ; 2055 65.2 ; 410.1 63.9 -18.7 -29.0 124.5
94.25 31.25 24.9 ; 2027 53.4 ; 621.3 62.2 -49.0 -73.9 180.2
94.25 31.75 3.8 ; 2037 73.7 ; 731.8 117.4 -46.6 -74.5 247.3
94.25 32.25 22.9 ; 2033 71.8 ; 669.0 65.6 -45.7 -70.4 250.5
94.25 32.75 11.8 ; 2030 57.1 ; 666.4 70.4 -51.4 -76.5 190.3
94.25 33.25 0.9 ; 2018 21.2 ; 592.3 31.3 -66.1 -87.1 154.2
94.25 35.25 14.6 ; 2032 69.8 ; 687.5 86.5 -46.7 -70.8 162.3
94.25 35.75 94.6 ; 2038 52.0 ; 576.8 79.9 -39.3 -55.8 123.4
94.75 29.25 87.9 ; 2053 33.2 ; 151.0 39.0 -26.0 -43.2 62.1
94.75 29.75 247.9 ; 2048 71.5 ; 380.7 77.3 -13.9 -24.6 104.5
94.75 30.25 704.8 ; 2064 68.1 ; 306.1 58.9 -5.1 -16.9 155.7
94.75 30.75 467.3 ; 2062 59.2 ; 190.5 45.3 -8.7 -16.5 87.7
94.75 31.25 214.0 ; 2059 70.5 ; 447.7 72.5 -15.6 -26.9 118.2
94.75 31.75 214.7 ; 2061 74.7 ; 560.4 92.1 -16.3 -27.9 198.7
94.75 32.25 9.6 ; 2029 63.5 ; 755.9 89.1 -47.8 -72.6 170.2
94.75 32.75 1.0 ; 2031 62.8 ; 751.9 92.1 -49.5 -83.5 192.9
94.75 33.25 7.0 ; 2030 44.6 ; 628.5 47.8 -55.2 -76.5 178.3
94.75 33.75 148.4 ; 2042 69.2 ; 707.6 89.7 -34.5 -51.2 187.5
94.75 34.25 1.4 ; 2030 36.8 ; 562.1 42.2 -59.6 -78.5 233.3
94.75 35.75 84.9 ; 2036 56.9 ; 659.2 78.4 -42.3 -60.3 135.3
95.25 29.25 0.7 ; 2071 19.6 ; 40.3 9.5 -19.9 -38.8 39.6
95.25 29.75 383.4 ; 2055 36.6 ; 85.6 29.1 -10.5 -21.3 26.4
95.25 30.25 745.3 ; 2061 39.2 ; 168.6 35.6 -9.7 -22.6 67.5
95.25 30.75 299.2 ; 2059 47.4 ; 366.8 38.8 -18.0 -34.5 156.4
95.25 31.25 63.2 ; 2040 60.9 ; 602.1 75.7 -38.2 -51.5 149.8
95.25 31.75 127.8 ; 2046 61.1 ; 616.6 71.5 -35.4 -50.9 138.4
95.25 32.25 18.9 ; 2031 58.0 ; 667.6 68.1 -48.8 -73.0 225.2
95.25 33.25 32.5 ; 2033 48.1 ; 649.9 60.9 -51.1 -71.9 108.0
95.25 33.75 73.2 ; 2036 49.5 ; 597.4 69.3 -47.6 -68.6 173.6
95.25 34.25 2.4 ; 2031 65.8 ; 725.9 80.1 -51.5 -77.5 234.3
95.25 35.75 8.6 ; 2030 43.9 ; 570.5 56.6 -54.8 -75.5 167.2
95.25 37.25 3.0 ; 2034 47.9 ; 579.7 45.8 -57.0 -73.0 230.5
95.25 37.75 21.4 ; 2034 56.8 ; 744.6 66.4 -46.4 -67.6 166.7
95.25 38.25 1.8 ; 2016 42.8 ; 794.9 80.6 -68.0 -84.2 164.4
95.25 39.25 83.0 ; 2036 48.1 ; 555.1 64.4 -41.1 -55.5 114.7
95.25 54.25 1.4 ; 2014 28.7 ; 502.4 21.0 -62.9 -71.8 -9999.0
95.75 29.25 83.9 ; 2064 15.3 ; 76.6 7.6 -14.7 -30.8 103.7
95.75 29.75 506.9 ; 2069 18.8 ; 106.5 11.9 -11.7 -27.5 84.5

95.75 30.25 460.0 ; 2059 29.0 ; 233.3 27.3 -17.7 -39.3 131.6
95.75 30.75 13.9 ; 2046 34.2 ; 766.4 36.9 -35.4 -58.3 191.6
95.75 31.25 205.4 ; 2051 72.0 ; 549.9 75.5 -23.3 -33.6 209.2
95.75 31.75 6.1 ; 2051 131.4 ; 905.4 243.8 -21.9 -23.7 479.5
95.75 33.25 0.2 ; 2028 396.0 ; 634.7 141.8 -19.9 -70.0 286.3
95.75 33.75 17.8 ; 2040 52.8 ; 730.4 72.6 -48.6 -64.8 149.6
95.75 37.75 12.3 ; 2027 61.2 ; 710.4 77.4 -50.0 -70.7 183.0
95.75 38.25 51.9 ; 2038 71.6 ; 732.7 107.8 -32.0 -52.0 226.3
95.75 38.75 10.4 ; 2043 45.9 ; 628.4 65.3 -49.6 -67.3 124.3
95.75 39.25 10.6 ; 2028 75.7 ; 666.0 68.4 -45.6 -73.3 245.4
95.75 53.75 4.9 ; 2022 22.9 ; 371.0 46.8 -54.0 -66.5 141.6
95.75 54.25 0.8 ; 2008 12.7 ; 346.3 17.2 -54.2 -73.0 93.7
96.25 28.75 42.9 ; 2042 9.6 ; 33.5 1.8 -15.4 -25.9 22.2
96.25 29.25 731.9 ; 2063 11.7 ; 72.4 2.4 -20.4 -31.5 61.0
96.25 29.75 677.9 ; 2055 15.5 ; 169.3 15.0 -19.2 -34.5 96.4
96.25 30.25 51.6 ; 2044 18.6 ; 524.0 32.4 -30.0 -50.1 228.8
96.25 31.25 37.3 ; 2047 75.5 ; 698.1 95.8 -38.2 -48.2 114.4
96.25 37.75 296.2 ; 2045 64.9 ; 581.7 90.3 -30.1 -44.3 154.7
96.25 38.25 147.6 ; 2048 66.2 ; 622.4 94.3 -29.5 -41.0 165.8
96.25 38.75 73.2 ; 2037 56.9 ; 653.5 74.1 -42.2 -60.2 159.6
96.25 39.25 8.8 ; 2047 52.8 ; 694.0 69.0 -41.7 -58.4 177.1
96.25 39.75 23.1 ; 2043 75.1 ; 602.4 82.2 -36.8 -62.3 260.3
96.25 53.75 3.5 ; 1999 15.2 ; 316.5 20.2 -56.9 -69.8 38.5
96.25 54.25 1.2 ; 2015 20.0 ; 512.1 26.0 -54.1 -70.5 -9999.0
96.75 28.25 25.8 ; 1997 3.8 ; 2.0 -21.8 -38.9 -49.0 -9.2
96.75 28.75 73.9 ; 2033 10.9 ; 38.0 -0.7 -21.1 -32.6 51.4
96.75 29.25 1030.1 ; 2067 18.1 ; 98.0 12.0 -15.8 -25.1 87.0
96.75 29.75 196.1 ; 2043 16.3 ; 427.0 25.2 -26.2 -42.2 265.4
96.75 30.25 183.3 ; 2042 16.7 ; 509.4 28.5 -31.2 -47.9 277.0
96.75 35.75 5.6 ; 2030 115.0 ; 669.8 101.5 -39.3 -76.8 161.6
96.75 38.25 19.8 ; 2039 50.7 ; 689.2 70.5 -47.9 -63.3 171.8
96.75 38.75 180.7 ; 2041 55.2 ; 563.6 71.2 -39.1 -54.6 143.2
96.75 39.25 158.2 ; 2047 52.1 ; 598.7 75.4 -33.3 -47.4 130.3
96.75 39.75 6.1 ; 2031 56.5 ; 742.8 67.7 -49.5 -75.2 207.9
96.75 53.75 1.8 ; 2002 10.3 ; 229.9 12.7 -55.3 -71.1 75.3
97.25 28.25 21.8 ; 2062 19.4 ; 159.6 21.5 -14.0 -37.2 79.6
97.25 28.75 161.4 ; 2034 11.9 ; 70.7 1.6 -26.4 -39.9 79.0
97.25 29.25 504.9 ; 2054 13.4 ; 178.1 11.7 -23.7 -37.5 157.4
97.25 30.25 130.9 ; 2039 18.5 ; 842.2 39.5 -34.0 -51.4 259.5
97.25 35.75 0.9 ; 2027 77.1 ; 756.2 86.0 -54.9 -85.0 286.5
97.25 37.75 2.3 ; 2025 157.2 ; 746.9 91.5 -37.2 -79.2 150.6
97.25 38.25 47.5 ; 2042 57.2 ; 616.5 72.0 -41.8 -58.8 206.2
97.25 38.75 215.2 ; 2040 57.3 ; 609.8 78.7 -39.7 -54.4 124.8
97.25 39.25 5.0 ; 2035 47.6 ; 658.9 58.7 -52.5 -77.4 145.5
97.25 39.75 0.2 ; 2015 2822.0 ; 700.2 85.6 0.4 -54.9 292.1
97.75 28.25 51.9 ; 2058 16.9 ; 97.0 14.4 -16.7 -34.9 97.4
97.75 28.75 17.5 ; 2047 17.2 ; 137.7 18.7 -18.9 -41.6 116.8
97.75 29.25 184.1 ; 2052 17.3 ; 215.0 20.2 -23.2 -40.2 159.0
97.75 29.75 143.1 ; 2042 18.2 ; 606.1 30.0 -29.9 -46.3 272.9
97.75 35.25 2.2 ; 2032 38.5 ; 654.7 34.7 -58.6 -78.8 218.9
97.75 35.75 0.3 ; 2019 41.2 ; 627.8 30.2 -56.9 -78.8 306.0
97.75 38.25 21.8 ; 2030 53.6 ; 613.3 65.8 -49.1 -71.8 144.7
97.75 38.75 37.0 ; 2030 60.4 ; 662.1 80.0 -44.3 -66.3 172.3
97.75 39.25 10.5 ; 2026 47.8 ; 588.9 52.1 -56.3 -77.9 142.3

98.25 28.25 1.8 ; 2063 18.8 ; 35.6 9.3 -14.5 -32.6 41.9
98.25 28.75 103.8 ; 2044 18.9 ; 193.9 22.8 -18.5 -40.9 147.6
98.25 29.25 11.7 ; 2060 21.3 ; 192.5 16.2 -16.2 -34.2 154.7
98.25 37.75 5.0 ; 2026 51.0 ; 566.0 48.1 -54.3 -77.6 229.7
98.25 38.25 88.3 ; 2051 100.1 ; 707.9 126.4 -22.3 -42.6 197.3
98.25 38.75 0.4 ; 2028 46.2 ; 679.9 42.2 -57.0 -81.3 308.8
98.25 39.25 11.8 ; 2030 50.1 ; 635.2 63.7 -52.7 -71.2 211.4
98.25 39.75 23.4 ; 2039 42.7 ; 576.6 57.5 -46.9 -67.7 141.7
98.25 53.25 0.3 ; 2015 21.1 ; 447.4 12.4 -56.8 -69.2 -9999.0
98.75 27.75 0.7 ; 2044 18.9 ; 47.7 9.9 -17.4 -36.9 81.0
98.75 28.25 113.5 ; 2053 21.7 ; 104.9 20.3 -11.2 -24.6 48.3
98.75 28.75 44.5 ; 2083 23.3 ; 96.6 16.5 -9.0 -20.8 69.5
98.75 31.75 11.1 ; 2037 51.9 ; 641.7 67.8 -44.2 -66.2 159.7
98.75 32.25 20.8 ; 2032 55.3 ; 703.9 79.9 -45.2 -63.5 221.0
98.75 34.75 67.7 ; 2046 74.5 ; 610.5 87.2 -24.1 -40.7 207.4
98.75 37.75 0.1 ; 2027 26.3 ; 601.2 16.0 -68.5 -87.8 -9999.0
98.75 38.25 84.1 ; 2043 66.3 ; 731.6 90.5 -34.0 -50.6 151.6
98.75 39.25 7.2 ; 2036 56.3 ; 636.5 48.9 -52.4 -73.9 187.2
98.75 39.75 149.8 ; 2036 49.1 ; 612.5 68.0 -45.6 -64.2 158.3
98.75 52.25 3.1 ; 2012 19.2 ; 352.0 22.2 -58.2 -69.6 136.5
98.75 52.75 8.7 ; 2015 18.0 ; 374.6 35.4 -54.3 -66.2 106.1
99.25 28.25 0.7 ; 2046 17.9 ; 94.7 13.9 -19.7 -40.7 105.8
99.25 30.25 18.2 ; 2057 25.0 ; 463.9 12.1 -23.4 -32.9 197.3
99.25 30.75 23.7 ; 2075 46.1 ; 458.1 15.3 -5.4 -11.5 412.7
99.25 31.25 201.8 ; 2001 5.7 ; 214.2 -38.8 -64.6 -70.7 -13.3
99.25 31.75 48.8 ; 2063 52.0 ; 463.7 32.6 -15.5 -22.3 191.2
99.25 34.25 0.5 ; 2027 99.2 ; 780.1 75.3 -44.0 -70.9 373.9
99.25 35.75 1.2 ; 2036 35.6 ; 659.8 35.7 -59.5 -77.5 232.6
99.25 38.25 0.8 ; 2017 22.7 ; 623.6 28.3 -65.8 -83.9 170.3
99.25 38.75 0.4 ; 2010 27.3 ; 728.1 91.5 -68.2 -88.6 -9999.0
99.25 39.25 15.7 ; 2034 50.6 ; 584.1 49.8 -52.3 -76.9 185.1
99.25 39.75 100.1 ; 2036 49.8 ; 647.7 72.1 -45.3 -64.3 140.7
99.25 51.75 0.5 ; 2015 16.4 ; 289.9 9.3 -54.5 -71.2 -24.5
99.25 52.25 1.0 ; 2005 23.3 ; 646.4 63.8 -58.5 -71.0 -9999.0
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99.75 28.25 1.4 ; 2042 17.4 ; 130.8 5.7 -24.8 -39.0 366.3
99.75 29.75 51.6 ; 2054 23.7 ; 442.3 12.4 -22.7 -31.7 197.3
99.75 30.25 14.3 ; 2056 24.8 ; 408.6 9.9 -23.2 -32.1 204.6
99.75 30.75 18.4 ; 2057 33.1 ; 462.4 14.4 -20.6 -30.8 218.8
99.75 31.25 0.5 ; 2057 32.5 ; 676.6 26.4 -24.0 -36.3 478.2
99.75 31.75 14.7 ; 2055 35.1 ; 707.7 27.1 -24.0 -35.8 493.9
99.75 34.75 62.6 ; 2061 100.9 ; 701.5 155.8 8.7 3.9 245.4
99.75 35.75 1.3 ; 2028 58.0 ; 640.0 77.2 -49.6 -66.4 231.8
99.75 38.25 7.5 ; 2023 55.8 ; 622.1 66.7 -56.1 -79.0 230.3
99.75 38.75 1.0 ; 2038 77.1 ; 666.3 60.8 -53.3 -79.9 390.2
99.75 39.25 45.1 ; 2028 46.3 ; 606.0 57.8 -50.9 -72.3 133.5
99.75 39.75 16.2 ; 2036 45.6 ; 785.2 88.0 -50.0 -67.5 201.7
99.75 51.75 0.5 ; 2002 24.3 ; 672.8 31.7 -57.4 -66.2 -9999.0
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100.25 28.25 8.7 ; 2030 13.2 ; 128.8 -0.9 -25.0 -35.8 283.8
100.25 30.25 108.5 ; 2054 29.6 ; 201.1 4.3 -22.3 -32.4 101.1
100.25 31.25 13.7 ; 2052 31.3 ; 350.7 18.8 -25.6 -34.8 241.2
100.25 38.25 20.3 ; 2026 61.5 ; 659.4 69.5 -49.2 -72.2 194.3
100.25 38.75 0.1 ; 2024 70.4 ; 668.6 40.9 -49.7 -71.2 342.2

100.25 39.25 7.0 ; 2029 57.3 ; 661.0 61.4 -51.1 -74.1 263.3
100.75 38.25 30.6 ; 2024 57.1 ; 676.4 68.5 -51.0 -73.8 169.9
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101.25 29.25 22.1 ; 2043 15.2 ; 233.9 2.6 -35.4 -50.4 618.5
101.25 30.75 0.2 ; 2059 16.1 ; 98.6 6.4 -28.9 -44.2 252.4
101.25 31.25 6.4 ; 2050 21.2 ; 237.4 12.1 -33.1 -48.7 253.4
101.25 32.75 5.1 ; 2036 96.7 ; 677.9 130.4 -42.5 -68.9 199.0
101.25 37.75 24.3 ; 2039 54.6 ; 700.0 70.1 -40.6 -59.1 253.7
101.25 38.25 14.3 ; 2031 45.8 ; 658.0 58.3 -54.4 -77.2 178.0
101.75 29.25 22.5 ; 2032 17.2 ; 463.0 17.4 -40.0 -55.8 273.9
101.75 29.75 274.3 ; 2056 20.8 ; 192.1 23.2 -22.9 -31.7 64.2
101.75 30.25 8.5 ; 2046 23.8 ; 399.3 15.3 -36.1 -53.2 311.0
101.75 30.75 2.8 ; 2055 20.2 ; 208.8 11.1 -31.5 -47.5 269.5
101.75 31.25 0.7 ; 2053 20.9 ; 444.0 16.9 -37.3 -51.9 255.5
101.75 37.25 29.9 ; 2037 57.3 ; 688.9 74.8 -46.4 -64.2 204.2
101.75 37.75 46.9 ; 2035 55.1 ; 640.3 74.9 -41.0 -62.1 180.7
102.25 29.75 11.1 ; 2037 16.2 ; 514.3 21.1 -40.7 -57.3 125.8
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