

QUARTERLY BULLETIN ON SOLAR ACTIVITY

Published by the Eidgen. Sternwarte in Zürich

with financial support from UNESCO

I. SUNSPOTS

Sunspot Relative-Numbers and Sunspot-Areas

Cooperating Observatories for Sunspot Relative-Numbers: Arcetri, Arosa, Athens (National Observatory), Athens (Eugenides Planetarium), Beirut, Bucarest, Catania, Herstmonceux, Istanbul, Kandilli, Kanzelhöhe, Kiev, Kislovodsk, Locarno, Madrid, Manila, Mitaka-Tokyo, Potsdam, Quezon City, Roma - Monte Mario, Roquetas - Tortosa, Rosario, San Miguel, Santiago de Chile, Skalnaté Pleso, Tashkent, Tokyo (Science Museum), Uccle, Zürich.

The first column gives the Relative-Numbers for the whole disk of the sun (R), the second that for the central zone (R_C). The diameter of the central zone is half that of the sun's disk.

The Sunspot-Areas A are based upon measurements made at Catania A_C , Roma - Monte Mario A_R , and at Locarno and Zürich (combined values) A_Z . The apparent total area of the umbra plus penumbra is uncorrected for foreshortening and expressed in millionths of the solar disk.

| 1972 | Jan. | R | R_C | A_C | A_R | A_Z |
|------|------|------|-------|-------|-------|-------|
| | 1 | 50 | 31 | 541 | -- | 454 |
| | 2 | 47 | 22 | 478 | -- | -- |
| | 3 | 49 | 25 | 497 | -- | 436 |
| | 4 | 50 | 17 | -- | -- | 308 |
| | 5 | 54 | 17 | 423 | -- | 292 |
| | 6 | 55 | 7 | 457 | -- | 246 |
| | 7 | 53 | 22 | 318 | -- | 174 |
| | 8 | 50 | 8 | 276 | -- | 77 |
| | 9 | 39 | 7 | 181 | -- | 26 |
| | 10 | 29 | 18 | 106 | -- | 6 |
| | 11 | 22 | 22 | 75 | -- | 54 |
| | 12 | 27 | 27 | 296 | -- | -- |
| | 13 | 28 | 15 | 255 | -- | -- |
| | 14 | 37 | 9 | 313 | -- | 159 |
| | 15 | 40 | 0 | 471 | -- | -- |
| | 16 | 37 | 0 | 573 | -- | -- |
| | 17 | 45 | 7 | 668 | -- | -- |
| | 18 | 54 | 16 | -- | -- | 516 |
| | 19 | 61 | 52 | 790 | -- | 578 |
| | 20 | 69 | 69 | 1208 | -- | -- |
| | 21 | 78 | 66 | 1398 | -- | -- |
| | 22 | 89 | 47 | 1219 | -- | 1025 |
| | 23 | 105 | 20 | 869 | -- | -- |
| | 24 | 121 | 31 | 853 | -- | 536 |
| | 25 | 102 | 41 | 997 | -- | -- |
| | 26 | 91 | 36 | -- | -- | 319 |
| | 27 | 92 | 30 | 487 | -- | -- |
| | 28 | 101 | 33 | 526 | -- | -- |
| | 29 | 102 | 42 | 499 | -- | 266 |
| | 30 | 72 | 47 | 716 | -- | 452 |
| | 31 | 56 | 16 | 842 | -- | -- |
| Mean | | 61.5 | 25.8 | 583 | -- | 329 |

| 1972 | Feb. | R | R _C | A _C | A _R | A _Z |
|------|------|------|----------------|----------------|----------------|----------------|
| | 1 | 53 | 24 | 477 | -- | 210 |
| | 2 | 49 | 31 | 259 | -- | 106 |
| | 3 | 42 | 7 | 295 | -- | 140 |
| | 4 | 44 | 11 | 515 | -- | 267 |
| | 5 | 45 | 20 | 307 | -- | 128 |
| | 6 | 40 | 18 | 376 | -- | 235 |
| | 7 | 45 | 15 | -- | -- | 175 |
| | 8 | 54 | 17 | -- | -- | 94 |
| | 9 | 50 | 7 | 376 | -- | -- |
| | 10 | 52 | 7 | 588 | -- | 468 |
| | 11 | 57 | 20 | 1028 | -- | 756 |
| | 12 | 60 | 21 | 853 | -- | -- |
| | 13 | 71 | 41 | 1065 | -- | 833 |
| | 14 | 85 | 42 | 949 | -- | 898 |
| | 15 | 104 | 62 | -- | -- | 1151 |
| | 16 | 129 | 39 | -- | -- | 1329 |
| | 17 | 135 | 62 | 2422 | -- | 1970 |
| | 18 | 144 | 56 | -- | -- | 2862 |
| | 19 | 158 | 65 | 4281 | -- | 3569 |
| | 20 | 157 | 64 | 4357 | -- | -- |
| | 21 | 154 | 91 | 3913 | -- | 3576 |
| | 22 | 157 | 77 | 3767 | -- | 3266 |
| | 23 | 136 | 73 | 3762 | -- | 2630 |
| | 24 | 112 | 53 | -- | -- | 2185 |
| | 25 | 93 | 32 | 1929 | -- | 1630 |
| | 26 | 88 | 21 | 1802 | -- | 1408 |
| | 27 | 79 | 35 | 1224 | -- | 934 |
| | 28 | 85 | 22 | 817 | -- | 702 |
| | 29 | 87 | 25 | 684 | -- | 346 |
| | Mean | 88.4 | 36.5 | 1567 | -- | 1226 |

| 1972 | March | R | R _C | A _C | A _R | A _Z |
|------|-------|------|----------------|----------------|----------------|----------------|
| | 1 | 77 | 35 | 630 | -- | 560 |
| | 2 | 83 | 19 | -- | -- | 1012 |
| | 3 | 86 | 39 | 1321 | -- | 1424 |
| | 4 | 79 | 32 | 1839 | -- | -- |
| | 5 | 69 | 21 | 1865 | -- | 1848 |
| | 6 | 64 | 52 | 2231 | -- | 2018 |
| | 7 | 69 | 57 | 2660 | -- | -- |
| | 8 | 81 | 45 | 2581 | -- | 2222 |
| | 9 | 79 | 43 | 2946 | -- | 2257 |
| | 10 | 79 | 9 | 2475 | -- | -- |
| | 11 | 72 | 9 | 2661 | -- | -- |
| | 12 | 73 | 18 | 1962 | -- | -- |
| | 13 | 85 | 53 | 1867 | -- | 1506 |
| | 14 | 98 | 58 | 1148 | -- | 1041 |
| | 15 | 110 | 65 | 1644 | -- | 1141 |
| | 16 | 104 | 48 | 1335 | -- | 1002 |
| | 17 | 109 | 58 | -- | -- | 842 |
| | 18 | 104 | 45 | 918 | -- | 688 |
| | 19 | 103 | 58 | 927 | -- | 746 |
| | 20 | 107 | 47 | 1125 | -- | 857 |
| | 21 | 107 | 51 | 1394 | -- | 861 |
| | 22 | 102 | 38 | 1176 | -- | 885 |
| | 23 | 114 | 50 | 1289 | -- | 860 |
| | 24 | 109 | 46 | 1368 | -- | 922 |
| | 25 | 98 | 46 | 1001 | -- | 609 |
| | 26 | 55 | 22 | 590 | -- | 249 |
| | 27 | 34 | 7 | 297 | -- | 120 |
| | 28 | 29 | 0 | 191 | -- | 86 |
| | 29 | 30 | 7 | 170 | -- | 136 |
| | 30 | 38 | 12 | 286 | -- | 179 |
| | 31 | 37 | 8 | 302 | -- | 181 |
| | Mean | 80.1 | 35.4 | 1386 | -- | 933 |

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The first column gives the Relative-Numbers for the whole disk of the sun (R), the second that for the central zone (R_C). The diameter of the central zone is half that of the sun's disk.

The Sunspot-Areas A are based upon measurements made at Catania A_C , Roma - Monte Mario A_R , and at Locarno and Zürich (combined values) A_Z . The apparent total area of the umbra plus penumbra is uncorrected for foreshortening and expressed in millionths of the solar disk.

| 1972 | Apr. | R | R_C | A_C | A_R | A_Z |
|------|------|------|-------|-------|-------|-------|
| | 1 | 40 | 14 | 216 | -- | 163 |
| | 2 | 43 | 36 | 267 | -- | 222 |
| | 3 | 43 | 36 | 243 | -- | 148 |
| | 4 | 38 | 30 | 278 | -- | 138 |
| | 5 | 42 | 24 | 189 | -- | 83 |
| | 6 | 56 | 21 | 257 | -- | 198 |
| | 7 | 71 | 28 | 583 | -- | 438 |
| | 8 | 73 | 28 | 714 | -- | -- |
| | 9 | 79 | 20 | 951 | -- | 496 |
| | 10 | 82 | 48 | 966 | -- | 424 |
| | 11 | 74 | 38 | 814 | -- | 522 |
| | 12 | 80 | 42 | 1223 | -- | 420 |
| | 13 | 74 | 60 | 557 | -- | 257 |
| | 14 | 63 | 36 | 484 | -- | 286 |
| | 15 | 67 | 15 | 520 | -- | 232 |
| | 16 | 60 | 31 | 589 | -- | -- |
| | 17 | 55 | 25 | 801 | -- | 583 |
| | 18 | 59 | 25 | 877 | -- | 616 |
| | 19 | 58 | 22 | -- | -- | -- |
| | 20 | 65 | 36 | 914 | -- | 505 |
| | 21 | 77 | 48 | 840 | -- | 439 |
| | 22 | 81 | 41 | 751 | -- | 400 |
| | 23 | 83 | 37 | 742 | -- | 509 |
| | 24 | 82 | 34 | 725 | -- | 598 |
| | 25 | 88 | 27 | 872 | -- | 528 |
| | 26 | 83 | 43 | 913 | -- | 695 |
| | 27 | 63 | 20 | 988 | -- | 603 |
| | 28 | 58 | 27 | 672 | -- | 464 |
| | 29 | 38 | 11 | 362 | -- | 181 |
| | 30 | 22 | 7 | 158 | -- | 98 |
| | Mean | 63.2 | 30.3 | 637 | -- | 379 |

| 1972 | May | R | R _C | A _C | A _R | A _Z |
|------|------|------|----------------|----------------|----------------|----------------|
| | 1 | 28 | 0 | 90 | -- | 70 |
| | 2 | 39 | 0 | 131 | -- | 40 |
| | 3 | 32 | 0 | 122 | -- | 50 |
| | 4 | 34 | 0 | 273 | -- | 202 |
| | 5 | 49 | 7 | 257 | -- | 200 |
| | 6 | 68 | 23 | 1050 | -- | 694 |
| | 7 | 79 | 79 | 1333 | -- | 852 |
| | 8 | 78 | 78 | 1980 | -- | 1030 |
| | 9 | 97 | 76 | 2143 | -- | 901 |
| | 10 | 94 | 71 | 2116 | 1339 | 1272 |
| | 11 | 88 | 18 | 4307 | -- | 1323 |
| | 12 | 92 | 7 | 1565 | -- | 926 |
| | 13 | 106 | 35 | 1554 | -- | 1006 |
| | 14 | 133 | 40 | 1785 | -- | 1110 |
| | 15 | 123 | 44 | 3144 | -- | -- |
| | 16 | 125 | 71 | 3287 | -- | 2646 |
| | 17 | 140 | 83 | 3580 | -- | 3044 |
| | 18 | 133 | 60 | 3455 | -- | 2820 |
| | 19 | 127 | 109 | 3712 | -- | 2813 |
| | 20 | 115 | 81 | 3104 | 2549 | 2817 |
| | 21 | 96 | 57 | 2735 | -- | 2216 |
| | 22 | 79 | 56 | 2363 | 1529 | 1804 |
| | 23 | 65 | 8 | 1801 | -- | 1397 |
| | 24 | 58 | 0 | 1438 | -- | 1078 |
| | 25 | 56 | 0 | 1376 | 1210 | 1101 |
| | 26 | 52 | 0 | 1412 | -- | 779 |
| | 27 | 44 | 0 | 914 | -- | 684 |
| | 28 | 44 | 0 | 814 | -- | 894 |
| | 29 | 58 | 38 | 982 | 915 | 865 |
| | 30 | 79 | 47 | 1087 | 1502 | 1019 |
| | 31 | 85 | 46 | 1541 | 1291 | 1181 |
| | Mean | 80.5 | 36.6 | 1789 | 1476 | 1228 |
| 1972 | June | R | R _C | A _C | A _R | A _Z |
| | 1 | 85 | 42 | 1471 | -- | 1246 |
| | 2 | 96 | 21 | 1240 | -- | 1450 |
| | 3 | 105 | 51 | 1928 | -- | 1378 |
| | 4 | 121 | 96 | 2027 | -- | 1514 |
| | 5 | 139 | 89 | 2389 | 2546 | 1969 |
| | 6 | 115 | 94 | 2998 | 2647 | 2455 |
| | 7 | 99 | 75 | 2579 | -- | 1915 |
| | 8 | 90 | 50 | 2494 | -- | 2069 |
| | 9 | 79 | 21 | 2105 | -- | 1820 |
| | 10 | 68 | 14 | 1287 | 1235 | 1188 |
| | 11 | 63 | 0 | 1019 | -- | -- |
| | 12 | 52 | 7 | 588 | -- | 416 |
| | 13 | 48 | 7 | 961 | 900 | 837 |
| | 14 | 62 | 35 | 1040 | -- | 789 |
| | 15 | 88 | 51 | 1213 | 1152 | 1167 |
| | 16 | 98 | 43 | 1607 | -- | 1479 |
| | 17 | 105 | 36 | 1801 | 2142 | 1608 |
| | 18 | 95 | 24 | 2027 | -- | -- |
| | 19 | 88 | 25 | 1544 | 2218 | 1781 |
| | 20 | 92 | 57 | 1948 | 2021 | 1629 |
| | 21 | 100 | 55 | 1922 | 2009 | 1678 |
| | 22 | 97 | 56 | 2048 | 2149 | 1736 |
| | 23 | 92 | 30 | 2085 | 2130 | 1613 |
| | 24 | 88 | 17 | 1806 | 1674 | 1483 |
| | 25 | 83 | 35 | 1381 | -- | 896 |
| | 26 | 77 | 26 | 856 | 578 | 604 |
| | 27 | 79 | 26 | 551 | 530 | 336 |
| | 28 | 81 | 25 | 667 | 671 | 386 |
| | 29 | 78 | 26 | 741 | -- | 657 |
| | 30 | 78 | 44 | 1061 | -- | 709 |
| | Mean | 88.0 | 39.3 | 1579 | 1640 | 1315 |

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| 1972 | July | R | R_C | A_C | A_R | A_Z |
|------|------|------|-------|-------|-------|-------|
| | 1 | 68 | 44 | 914 | 854 | 695 |
| | 2 | 74 | 48 | 1072 | -- | 722 |
| | 3 | 82 | 43 | 877 | -- | 812 |
| | 4 | 91 | 25 | 1491 | 1376 | 900 |
| | 5 | 104 | 12 | 1485 | 1373 | 1118 |
| | 6 | 95 | 43 | 1650 | 1503 | 1018 |
| | 7 | 91 | 35 | 1453 | -- | 961 |
| | 8 | 82 | 50 | 1161 | -- | 894 |
| | 9 | 75 | 43 | 987 | -- | 650 |
| | 10 | 64 | 26 | 887 | -- | 630 |
| | 11 | 62 | 28 | 741 | -- | -- |
| | 12 | 74 | 14 | 662 | -- | -- |
| | 13 | 84 | 20 | 745 | 755 | 458 |
| | 14 | 80 | 14 | 798 | 884 | 774 |
| | 15 | 61 | 8 | 966 | 802 | 764 |
| | 16 | 53 | 8 | 1008 | -- | -- |
| | 17 | 59 | 28 | 1192 | 1119 | 932 |
| | 18 | 55 | 47 | 955 | 1085 | 875 |
| | 19 | 66 | 53 | 882 | 1019 | 658 |
| | 20 | 56 | 36 | 903 | -- | 662 |
| | 21 | 66 | 7 | 740 | -- | 435 |
| | 22 | 69 | 7 | 457 | -- | 366 |
| | 23 | 65 | 7 | 290 | -- | 255 |
| | 24 | 62 | 7 | 457 | -- | 309 |
| | 25 | 62 | 24 | 646 | -- | 428 |
| | 26 | 77 | 34 | 835 | 779 | 579 |
| | 27 | 82 | 45 | 1162 | -- | 720 |
| | 28 | 86 | 68 | 1287 | 1228 | 986 |
| | 29 | 102 | 47 | 1277 | 1130 | 1166 |
| | 30 | 108 | 52 | 1854 | -- | 1568 |
| | 31 | 115 | 56 | 2573 | 2234 | 2064 |
| Mean | | 76.5 | 31.6 | 1045 | 1153 | 800 |

| 1972 | Aug. | R | R _C | A _C | A _R | A _Z |
|------|------|------|----------------|----------------|----------------|----------------|
| | 1 | 103 | 33 | 983 | 2569 | 2484 |
| | 2 | 93 | 18 | 2704 | 2703 | 2282 |
| | 3 | 89 | 57 | 2457 | 2864 | 2353 |
| | 4 | 85 | 65 | 2725 | — | 2322 |
| | 5 | 93 | 71 | 2646 | 2432 | 2396 |
| | 6 | 85 | 51 | 2626 | — | 2281 |
| | 7 | 65 | 0 | 2032 | 1947 | 1794 |
| | 8 | 60 | 0 | 1554 | 1311 | 1182 |
| | 9 | 59 | 0 | 1029 | — | 970 |
| | 10 | 47 | 0 | 636 | 494 | 512 |
| | 11 | 31 | 0 | 452 | 383 | 434 |
| | 12 | 50 | 7 | 462 | 270 | 294 |
| | 13 | 55 | 21 | 336 | — | 73 |
| | 14 | 40 | 24 | 231 | — | 32 |
| | 15 | 42 | 25 | 210 | — | 97 |
| | 16 | 57 | 26 | 311 | — | 202 |
| | 17 | 59 | 18 | 442 | 487 | 340 |
| | 18 | 57 | 15 | 740 | — | 658 |
| | 19 | 57 | 20 | 635 | — | 462 |
| | 20 | 60 | 15 | 546 | — | — |
| | 21 | 62 | 0 | 426 | — | 308 |
| | 22 | 85 | 34 | 809 | — | 705 |
| | 23 | 79 | 34 | 1009 | 994 | 815 |
| | 24 | 82 | 37 | 1134 | — | 927 |
| | 25 | 71 | 46 | 1125 | — | 1023 |
| | 26 | 79 | 28 | 1318 | 1308 | 1194 |
| | 27 | 93 | 36 | 1230 | — | — |
| | 28 | 118 | 60 | 1628 | — | 1022 |
| | 29 | 147 | 21 | 1944 | 1778 | 1248 |
| | 30 | 141 | 58 | 1745 | — | 1156 |
| | 31 | 137 | 55 | 1501 | 1525 | 902 |
| | Mean | 76.8 | 28.2 | 1214 | 1505 | 1051 |
| 1972 | Sep. | R | R _C | A _C | A _R | A _Z |
| | 1 | 127 | 63 | 709 | — | 442 |
| | 2 | 99 | 52 | 767 | — | 469 |
| | 3 | 79 | 41 | 946 | — | — |
| | 4 | 78 | 45 | 599 | — | 414 |
| | 5 | 80 | 41 | 262 | — | 310 |
| | 6 | 81 | 31 | 253 | — | 165 |
| | 7 | 73 | 23 | 352 | — | 356 |
| | 8 | 71 | 9 | 374 | — | 335 |
| | 9 | 59 | 22 | 478 | — | 374 |
| | 10 | 46 | 13 | 463 | — | — |
| | 11 | 43 | 18 | 579 | — | 340 |
| | 12 | 36 | 12 | 572 | 344 | 365 |
| | 13 | 32 | 13 | 404 | — | 330 |
| | 14 | 37 | 9 | 273 | — | 285 |
| | 15 | 45 | 28 | 283 | — | 228 |
| | 16 | 53 | 31 | 279 | — | 278 |
| | 17 | 44 | 24 | 257 | — | 220 |
| | 18 | 38 | 10 | 73 | — | 126 |
| | 19 | 33 | 8 | 174 | 175 | 156 |
| | 20 | 47 | 10 | 436 | — | 242 |
| | 21 | 60 | 10 | 641 | — | 451 |
| | 22 | 69 | 8 | 1013 | 865 | 866 |
| | 23 | 65 | 8 | 888 | 1513 | 919 |
| | 24 | 77 | 28 | 1517 | — | 1181 |
| | 25 | 82 | 39 | 1292 | — | 1102 |
| | 26 | 78 | 37 | 1639 | — | 1017 |
| | 27 | 77 | 40 | 1145 | — | 572 |
| | 28 | 67 | 31 | 578 | — | 468 |
| | 29 | 70 | 26 | 483 | — | 406 |
| | 30 | 75 | 23 | 793 | — | 535 |
| | Mean | 64.0 | 25.1 | 617 | 724 | 463 |

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| 1972 | Oct. | R | R_C | A_C | A_R | A_Z |
|------|------|------|-------|-------|-------|-------|
| | 1 | 70 | 29 | 747 | -- | 768 |
| | 2 | 65 | 26 | 887 | -- | 696 |
| | 3 | 73 | 17 | 1005 | -- | 475 |
| | 4 | 73 | 41 | 699 | -- | 415 |
| | 5 | 67 | 35 | 384 | 396 | 311 |
| | 6 | 57 | 33 | 352 | -- | 216 |
| | 7 | 54 | 32 | 284 | -- | 220 |
| | 8 | 52 | 19 | 221 | -- | 136 |
| | 9 | 34 | 0 | -- | -- | 88 |
| | 10 | 30 | 0 | 105 | -- | 47 |
| | 11 | 34 | 0 | 121 | -- | 41 |
| | 12 | 23 | 0 | 21 | -- | 35 |
| | 13 | 15 | 7 | -- | -- | 4 |
| | 14 | 8 | 8 | 26 | -- | 7 |
| | 15 | 14 | 0 | 52 | -- | 26 |
| | 16 | 34 | 0 | 252 | 287 | 190 |
| | 17 | 30 | 0 | 604 | 525 | 484 |
| | 18 | 28 | 0 | 929 | -- | 636 |
| | 19 | 44 | 13 | 872 | -- | 801 |
| | 20 | 60 | 35 | -- | -- | 1059 |
| | 21 | 69 | 44 | 1513 | -- | 1169 |
| | 22 | 78 | 46 | 1350 | -- | -- |
| | 23 | 85 | 58 | 1550 | -- | -- |
| | 24 | 94 | 11 | 2709 | 2467 | 2386 |
| | 25 | 105 | 24 | 3398 | -- | 2919 |
| | 26 | 111 | 32 | 1959 | -- | 3457 |
| | 27 | 110 | 26 | 3733 | -- | 3381 |
| | 28 | 104 | 94 | 3707 | -- | -- |
| | 29 | 89 | 59 | 3554 | -- | -- |
| | 30 | 98 | 68 | 3922 | -- | 3276 |
| | 31 | 93 | 72 | 3339 | 3489 | 2908 |
| Mean | | 61.3 | 26.7 | 1368 | 1433 | 969 |

| 1972 | Nov. | R | R _C | A _C | A _R | A _Z |
|------|------|------|----------------|----------------|----------------|----------------|
| | 1 | 75 | 26 | 1543 | -- | 2070 |
| | 2 | 67 | 31 | 2027 | 1671 | 1381 |
| | 3 | 49 | 21 | 1076 | 901 | 709 |
| | 4 | 30 | 0 | 478 | -- | 238 |
| | 5 | 23 | 10 | 100 | -- | 22 |
| | 6 | 19 | 0 | 173 | -- | 175 |
| | 7 | 8 | 0 | 37 | -- | 61 |
| | 8 | 7 | 0 | 11 | -- | 2 |
| | 9 | 14 | 8 | 5 | -- | 4 |
| | 10 | 12 | 0 | 53 | 128 | 28 |
| | 11 | 30 | 0 | 215 | -- | 255 |
| | 12 | 33 | 0 | 284 | -- | -- |
| | 13 | 30 | 0 | 268 | 310 | -- |
| | 14 | 27 | 0 | 452 | -- | 408 |
| | 15 | 21 | 8 | 509 | -- | 456 |
| | 16 | 25 | 25 | 530 | 477 | -- |
| | 17 | 32 | 25 | 499 | -- | 460 |
| | 18 | 28 | 17 | 389 | 369 | 403 |
| | 19 | 42 | 22 | 453 | -- | 377 |
| | 20 | 58 | 27 | 799 | -- | 636 |
| | 21 | 65 | 26 | 941 | 1006 | -- |
| | 22 | 69 | 30 | 961 | -- | -- |
| | 23 | 79 | 52 | 920 | -- | -- |
| | 24 | 77 | 32 | 820 | -- | -- |
| | 25 | 65 | 28 | 1019 | 853 | 715 |
| | 26 | 57 | 31 | 792 | -- | 512 |
| | 27 | 55 | 25 | 510 | 576 | 410 |
| | 28 | 61 | 32 | 414 | 375 | 287 |
| | 29 | 47 | 31 | 358 | 308 | 193 |
| | 30 | 43 | 25 | -- | -- | -- |
| | Mean | 41.6 | 17.7 | 574 | 634 | 446 |

| 1972 | Dec. | R | R _C | A _C | A _R | A _Z |
|------|------|------|----------------|----------------|----------------|----------------|
| | 1 | 40 | 8 | 409 | -- | -- |
| | 2 | 31 | 10 | 195 | -- | -- |
| | 3 | 28 | 11 | 117 | -- | -- |
| | 4 | 24 | 12 | 68 | -- | -- |
| | 5 | 21 | 11 | 42 | -- | 10 |
| | 6 | 18 | 0 | 74 | 108 | 38 |
| | 7 | 24 | 0 | 137 | 172 | 60 |
| | 8 | 29 | 0 | 635 | -- | -- |
| | 9 | 42 | 0 | 1176 | 1007 | -- |
| | 10 | 53 | 53 | 1019 | 1245 | 758 |
| | 11 | 61 | 52 | 866 | 1125 | 546 |
| | 12 | 64 | 38 | 1118 | 1203 | 702 |
| | 13 | 67 | 36 | 1254 | -- | 1056 |
| | 14 | 69 | 47 | -- | 1561 | 1315 |
| | 15 | 71 | 39 | -- | 1554 | 1192 |
| | 16 | 66 | 39 | -- | 1302 | 1021 |
| | 17 | 71 | 41 | 826 | -- | 745 |
| | 18 | 58 | 21 | 751 | 650 | -- |
| | 19 | 49 | 37 | 672 | 736 | -- |
| | 20 | 54 | 30 | 646 | 805 | -- |
| | 21 | 67 | 27 | -- | -- | 560 |
| | 22 | 59 | 52 | 1298 | -- | 770 |
| | 23 | 57 | 36 | 872 | -- | 742 |
| | 24 | 48 | 33 | 919 | -- | 585 |
| | 25 | 43 | 23 | 741 | -- | -- |
| | 26 | 39 | 0 | -- | -- | -- |
| | 27 | 34 | 7 | -- | 504 | -- |
| | 28 | 26 | 0 | -- | -- | -- |
| | 29 | 25 | 13 | -- | -- | 92 |
| | 30 | 29 | 0 | -- | -- | -- |
| | 31 | 37 | 0 | -- | -- | -- |
| | Mean | 45.3 | 21.8 | 659 | 921 | 637 |