**Appendix 1**

Supplementary table 1. COVID-19 cases from January 2022 to September 2024 for the Africa, Americas and Eastern Mediterranean regions

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| WEEK GROUP | AFRICA | NUMBER OF CASES OVER 4 WEEKS | PERCENTAGE CHANGE | AMERICAS | NUMBER OF CASES OVER 4 WEEKS | PERCENTAGE CHANGE | EASTERN MEDITERRANEAN | NUMBER OF CASES OVER 4 WEEKS | PERCENTAGE CHANGE |
| 1 | 259344 | 702690 | 1 | 6465719 | 30293709 | 1 | 88197 | 852145 | 1 |
| 187155 | 8462254 | 161730 |
| 129478 | 8368503 | 256313 |
| 126713 | 6997233 | 345905 |
| 2 | 106338 | 358546 | -48.97522378 | 4787358 | 11668238 | -61.48296664 | 547151 | 1668179 | 95.76234092 |
| 82582 | 3187743 | 529484 |
| 73030 | 2202277 | 362138 |
| 96596 | 1490860 | 229406 |
| 3 | 43775 | 145558 | -59.40325649 | 1098707 | 3313108 | -71.60575573 | 137333 | 324611 | -80.5409971 |
| 37576 | 867084 | 110478 |
| 34524 | 732845 | 46586 |
| 29683 | 614472 | 30214 |
| 4 | 28341 | 120877 | -16.95612745 | 536114 | 2115951 | -36.13395639 | 33179 | 111042 | -65.79228677 |
| 27034 | 507785 | 33480 |
| 27658 | 514620 | 25766 |
| 37844 | 557432 | 18617 |
| 5 | 51141 | 231724 | 91.70230896 | 628966 | 3297192 | 55.8255366 | 13399 | 47605 | -57.12883413 |
| 60794 | 737054 | 9588 |
| 66068 | 924861 | 13770 |
| 53721 | 1006311 | 10848 |
| 6 | 37327 | 133940 | -42.1984775 | 1145723 | 4833148 | 46.58375976 | 10729 | 71759 | 50.73836782 |
| 32286 | 1150475 | 12557 |
| 29086 | 1298599 | 18363 |
| 35241 | 1238351 | 30110 |
| 7 | 28345 | 91271 | -31.85680155 | 1419108 | 6585031 | 36.24724507 | 38046 | 271748 | 278.6953553 |
| 21438 | 1616733 | 56021 |
| 21746 | 1661646 | 82547 |
| 19742 | 1887544 | 95134 |
| 8 | 20917 | 79137 | -13.2944747 | 1744716 | 6117411 | -7.101257382 | 131989 | 409717 | 50.77093484 |
| 23082 | 1762203 | 120485 |
| 19161 | 1407814 | 91213 |
| 15977 | 1202678 | 66030 |
| 9 | 14053 | 54012 | -31.74873953 | 1045581 | 3472615 | -43.23391055 | 59147 | 143135 | -65.06491066 |
| 14518 | 947597 | 37149 |
| 14176 | 840140 | 25368 |
| 11265 | 639297 | 21471 |
| 10 | 9187 | 28792 | -46.69332741 | 565879 | 1914179 | -44.87788021 | 19771 | 68090 | -52.42952457 |
| 7233 | 498690 | 18876 |
| 6609 | 452630 | 15462 |
| 5763 | 396980 | 13981 |
| 11 | 10045 | 31154 | 8.203667685 | 353627 | 1517255 | -20.73599178 | 12685 | 43584 | -35.99060068 |
| 6664 | 399372 | 11337 |
| 6364 | 386062 | 10252 |
| 8081 | 378194 | 9310 |
| 12 | 10578 | 46486 | 49.21358413 | 442012 | 2150141 | 41.71256644 | 8272 | 27480 | -36.94933921 |
| 12424 | 468392 | 7056 |
| 12561 | 574073 | 6100 |
| 10923 | 665664 | 6052 |
| 13 | 7707 | 32911 | -29.20234049 | 876523 | 3772542 | 75.45556315 | 5738 | 16386 | -40.37117904 |
| 9110 | 1044173 | 4304 |
| 9643 | 1018566 | 3434 |
| 6451 | 833280 | 2910 |
| 14 | 6992 | 30575 | -7.097930783 | 795179 | 2496070 | -33.83585922 | 2507 | 11652 | -28.89051629 |
| 7152 | 711318 | 4741 |
| 8368 | 533338 | 2275 |
| 8063 | 456235 | 2129 |
| 15 | 5873 | 16532 | -45.92968111 | 428885 | 1561254 | -37.45151378 | 1852 | 8851 | -24.03879162 |
| 4309 | 401766 | 1940 |
| 3707 | 370505 | 2504 |
| 2643 | 360098 | 2555 |
| 16 | 6315 | 17326 | 4.802806678 | 345666 | 1120725 | -28.21635685 | 4056 | 27786 | 213.9306293 |
| 3984 | 246058 | 5681 |
| 3273 | 255752 | 8302 |
| 3754 | 273249 | 9747 |
| 17 | 1456 | 6159 | -64.45226827 | 281162 | 830710 | -25.8774454 | 11331 | 40288 | 44.99388181 |
| 1347 | 190916 | 11194 |
| 1676 | 179731 | 10417 |
| 1680 | 178901 | 7346 |
| 18 | 2222 | 9002 | 46.16009092 | 156483 | 452237 | -45.56018346 | 5995 | 22270 | -44.72299444 |
| 2526 | 141538 | 6465 |
| 2335 | 143790 | 5833 |
| 1919 | 10426 | 3977 |
| 19 | 1325 | 7618 | -15.37436125 | 9873 | 21806 | -95.17819197 | 3174 | 6936 | -68.85496183 |
| 3127 | 6267 | 1654 |
| 975 | 2848 | 1105 |
| 2191 | 2818 | 1003 |
| 20 | 2207 | 6045 | -20.64846416 | 3737 | 11141 | -48.90855728 | 521 | 1464 | -78.89273356 |
| 1548 | 2744 | 247 |
| 1574 | 2314 | 451 |
| 716 | 2346 | 245 |
| 21 | 580 | 2958 | -51.06699752 | 2276 | 8689 | -22.00879634 | 345 | 1386 | -5.327868852 |
| 206 | 2245 | 301 |
| 299 | 2090 | 330 |
| 1873 | 2078 | 410 |
| 22 | 412 | 1537 | -48.03921569 | 2612 | 12746 | 46.69121878 | 439 | 2425 | 74.96392496 |
| 225 | 3004 | 479 |
| 286 | 3396 | 396 |
| 614 | 3734 | 1111 |
| 23 | 358 | 2761 | 79.63565387 | 4375 | 22737 | 78.3853758 | 1293 | 4962 | 104.6185567 |
| 1531 | 5143 | 1176 |
| 455 | 6486 | 1209 |
| 417 | 6733 | 1284 |
| 24 | 577 | 1970 | -28.6490402 | 6799 | 32699 | 43.81404759 | 1561 | 5670 | 14.26844015 |
| 419 | 8285 | 1352 |
| 451 | 8797 | 1470 |
| 523 | 8818 | 1287 |
| 25 | 598 | 6397 | 224.7208122 | 9585 | 40618 | 24.21786599 | 1024 | 3009 | -46.93121693 |
| 1143 | 10371 | 830 |
| 2054 | 10634 | 575 |
| 2602 | 10028 | 580 |
| 26 | 3311 | 9773 | 52.77473816 | 8842 | 37773 | -7.004283815 | 387 | 1876 | -37.65370555 |
| 3436 | 8655 | 514 |
| 433 | 9688 | 504 |
| 2593 | 10588 | 471 |
| 27 | 2161 | 5050 | -48.32702343 | 21752 | 83835 | 121.9442459 | 449 | 1702 | -9.275053305 |
| 1571 | 20044 | 380 |
| 779 | 20358 | 407 |
| 539 | 21681 | 466 |
| 28 | 501 | 1400 | -72.27722772 | 21690 | 70327 | -16.11260214 | 508 | 2190 | 28.67215041 |
| 389 | 17025 | 552 |
| 228 | 15441 | 518 |
| 282 | 16171 | 612 |
| 29 | 132 | 739 | -47.21428571 | 15780 | 49616 | -29.44957129 | 632 | 1251 | -42.87671233 |
| 106 | 12760 | 163 |
| 242 | 12428 | 259 |
| 259 | 8648 | 197 |
| 30 | 196 | 811 | 9.742895805 | 4610 | 12864 | -74.07287972 | 222 | 1106 | -11.59072742 |
| 221 | 3529 | 342 |
| 202 | 2556 | 396 |
| 192 | 2169 | 146 |
| 31 | 222 | 779 | -3.945745993 | 2060 | 8859 | -31.13339552 | 352 | 990 | -10.48824593 |
| 192 | 2070 | 638 |
| 203 | 2201 | NR |
| 162 | 2528 | NR |
| 32 | 229 | 812 | 4.236200257 | 2337 | 8045 | -9.188395981 | NR | 6 | -99.39393939 |
| 184 | 2207 | NR |
| 204 | 1698 | NR |
| 195 | 1803 | NR |
| 33 | 192 | 749 | -7.75862069 | 2024 | 9384 | 16.64387819 | NR | 7 | 16.66666667 |
| 151 | 2182 | NR |
| 210 | 2322 | NR |
| 196 | 2856 | NR |
| 34 | 223 | 726 | -3.070761015 | 3282 | 10977 | 16.97570332 | NR | 8 | 14.28571429 |
| 197 | 3136 | NR |
| 164 | 2729 | NR |
| 142 | 1830 | NR |
| 35 | 100 | 221 | -69.55922865 | 1751 | 5243 | -52.23649449 | NR | 9 | 12.5 |
| 43 | 1410 | NR |
| 44 | 1106 | NR |
| 34 | 976 | NR |
| 36 | 55 | 55 | -75.11312217 | 781 | 826 | -84.24566088 | NR | 10 | 11.11111111 |
| - | 45 | NR |
| - | - | NR |
| - | - | NR |

**COVID-19:** Coronavirus disease 2019; **NR:** Not reported.

Supplementary table 2. COVID-19 cases from January 2022 to September 2024 for Europe, South-East Asia and Western Pacific regions

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| WEEK GROUP | EUROPE | NUMBER OF CASES OVER 4 WEEKS | PERCENTAGE CHANGE | SOUTH- EAST ASIA | NUMBER OF CASES OVER 4 WEEKS | PERCENTAGE CHANGE | WESTERN PACIFIC | NUMBER OF CASES OVER 4 WEEKS | PERCENTAGE CHANGE |
| 1 | 8021477 | 40345478 | 1 | 699635 | 6875298 | 1 | 947128 | 4378896 | 1 |
| 8907925 | 1711154 | 1046887 |
| 11108888 | 2327997 | 1127546 |
| 12307188 | 2136512 | 1257335 |
| 2 | 11456137 | 33854329 | -16.08891336 | 1452690 | 3770282 | -45.16191153 | 1317379 | 7814552 | 78.45941077 |
| 9403276 | 915448 | 1613846 |
| 7291375 | 762899 | 2065785 |
| 5703541 | 639245 | 2817542 |
| 3 | 5032236 | 21430215 | -36.69874538 | 441458 | 1293456 | -65.69338845 | 4104723 | 19478873 | 149.2641037 |
| 5275366 | 348332 | 5141828 |
| 5573567 | 270861 | 5702878 |
| 5549046 | 232805 | 4529444 |
| 4 | 4710949 | 13831975 | -35.45573388 | 221989 | 760751 | -41.18462476 | 3827838 | 10002367 | -48.65017601 |
| 3694943 | 204727 | 2724044 |
| 2965845 | 172343 | 1986951 |
| 2460238 | 161692 | 1463534 |
| 5 | 2017114 | 6313547 | -54.35541924 | 123390 | 337276 | -55.66538854 | 1162418 | 5065330 | -49.3586868 |
| 1611853 | 87716 | 1109856 |
| 1481872 | 71356 | 1399579 |
| 1202708 | 54814 | 1393477 |
| 6 | 908978 | 4553225 | -27.88166462 | 50189 | 268251 | -20.46543484 | 1227446 | 4026241 | -20.51374738 |
| 973365 | 50826 | 1030783 |
| 1157619 | 67830 | 936818 |
| 1513263 | 99406 | 831194 |
| 7 | 2144931 | 11606248 | 154.9017015 | 131032 | 627451 | 133.9044402 | 795355 | 3853737 | -4.284492657 |
| 2849505 | 157080 | 538009 |
| 3325972 | 165334 | 1043547 |
| 3285840 | 174005 | 1476826 |
| 8 | 2925985 | 8704794 | -24.99906947 | 197268 | 741931 | 18.24524943 | 2107308 | 10893917 | 182.6844956 |
| 2438944 | 191934 | 2630537 |
| 1839889 | 186248 | 3372426 |
| 1499976 | 166481 | 2783646 |
| 9 | 1306605 | 4840919 | -44.38789706 | 137349 | 416409 | -43.87496951 | 2810469 | 8748477 | -19.69392644 |
| 1232950 | 115936 | 2405938 |
| 1161895 | 90523 | 2151337 |
| 1139469 | 72601 | 1380733 |
| 10 | 1319335 | 6505006 | 34.37543574 | 66777 | 213614 | -48.70091665 | 1411349 | 4321489 | -50.60295638 |
| 1463277 | 59932 | 1167186 |
| 1769596 | 49708 | 933878 |
| 1952798 | 37197 | 809076 |
| 11 | 1909104 | 5560829 | -14.51462151 | 36258 | 148891 | -30.29904407 | 851575 | 3628235 | -16.042017 |
| 1612695 | 34905 | 829217 |
| 1169163 | 34075 | 925062 |
| 869867 | 43653 | 1022381 |
| 12 | 814032 | 3720100 | -33.1017012 | 50214 | 190758 | 28.11922816 | 1161641 | 5242311 | 44.48653409 |
| 875607 | 54194 | 1262214 |
| 951934 | 49880 | 1381023 |
| 1078527 | 36470 | 1437433 |
| 13 | 1128125 | 3890265 | 4.574204994 | 24400 | 58908 | -69.11898846 | 2570577 | 83784096 | 1498.228262 |
| 1104049 | 15680 | 12798619 |
| 966315 | 10819 | 42225968 |
| 691776 | 8009 | 26188932 |
| 14 | 527476 | 1483200 | -61.87406256 | 5878 | 17267 | -70.68819176 | 9640287 | 15894804 | -81.02885302 |
| 384065 | 4858 | 3772694 |
| 288274 | 3683 | 1676912 |
| 283385 | 2848 | 804911 |
| 15 | 315794 | 1480389 | -0.1895226537 | 2672 | 10971 | -36.46261655 | 628956 | 1767649 | -88.87907646 |
| 339439 | 2927 | 495523 |
| 396781 | 2566 | 368233 |
| 428375 | 2806 | 274937 |
| 16 | 403178 | 1494671 | 0.9647464281 | 3602 | 27679 | 152.2924073 | 263667 | 937568 | -46.95960567 |
| 367098 | 4807 | 265064 |
| 372323 | 7530 | 229292 |
| 352072 | 11740 | 179545 |
| 17 | 304084 | 1006250 | -32.67749224 | 22255 | 211969 | 665.8116261 | 175961 | 826041 | -11.89535052 |
| 251366 | 38514 | 204305 |
| 233461 | 68858 | 197672 |
| 217339 | 82342 | 248103 |
| 18 | 185107 | 545394 | -45.79935404 | 67193 | 146614 | -30.83233869 | 265399 | 1052174 | 27.37551768 |
| 150321 | 40107 | 266759 |
| 121363 | 25014 | 267757 |
| 88603 | 14300 | 252259 |
| 19 | 104938 | 293834 | -46.12445315 | 11568 | 32139 | -78.07917389 | 215968 | 696734 | -33.78148481 |
| 76308 | 8433 | 193987 |
| 67091 | 6871 | 200776 |
| 45497 | 5267 | 86003 |
| 20 | 38778 | 97351 | -66.86870818 | 3825 | 10270 | -68.0450543 | 155763 | 638703 | -8.329003608 |
| 23679 | 2154 | 146071 |
| 17259 | 2533 | 158180 |
| 17635 | 1758 | 178689 |
| 21 | 18472 | 100366 | 3.097040606 | 1581 | 5139 | -49.96105161 | 226873 | 1284083 | 101.0453998 |
| 22044 | 1396 | 290777 |
| 27928 | 1206 | 669785 |
| 31922 | 956 | 96648 |
| 22 | 38954 | 224826 | 124.0061375 | 973 | 3365 | -34.5203347 | 233751 | 961514 | -25.12057242 |
| 51185 | 849 | 300912 |
| 58552 | 766 | 276382 |
| 76135 | 777 | 150469 |
| 23 | 95072 | 452838 | 101.4170959 | 822 | 2832 | -15.83952452 | 18325 | 94991 | -90.12068467 |
| 110691 | 705 | 17397 |
| 121013 | 598 | 27502 |
| 126062 | 707 | 31767 |
| 24 | 113732 | 430954 | -4.832633304 | 461 | 3121 | 10.20480226 | 27794 | 116991 | 23.16008885 |
| 101328 | 1722 | 27404 |
| 100338 | 437 | 30665 |
| 115556 | 501 | 31128 |
| 25 | 128009 | 696486 | 61.61492874 | 409 | 2680 | -14.13008651 | 35024 | 151203 | 29.24327512 |
| 158384 | 557 | 35546 |
| 189825 | 716 | 33676 |
| 220268 | 998 | 46957 |
| 26 | 252327 | 909419 | 30.57247382 | 3254 | 21922 | 717.9850746 | 64279 | 351989 | 132.7923388 |
| 265720 | 4319 | 98862 |
| 228744 | 7124 | 109894 |
| 162628 | 7225 | 78954 |
| 27 | 115997 | 325809 | -64.17393963 | 7801 | 21413 | -2.321868443 | 50581 | 202531 | -42.460986 |
| 84211 | 6278 | 75280 |
| 68325 | 4150 | 43685 |
| 57276 | 3184 | 32985 |
| 28 | 51703 | 182596 | -43.95612153 | 2720 | 8250 | -61.47200299 | 23362 | 79744 | -60.6262745 |
| 48657 | 1890 | 20256 |
| 43622 | 1753 | 17168 |
| 38614 | 1887 | 18958 |
| 29 | 34951 | 128655 | -29.54117286 | 2468 | 8467 | 2.63030303 | 17954 | 52870 | -33.70034109 |
| 31663 | 2059 | 14165 |
| 31413 | 2033 | 11606 |
| 30628 | 1907 | 9145 |
| 30 | 27061 | 96884 | -24.69472621 | 1637 | 6552 | -22.61721979 | 80326 | 108489 | 105.1995461 |
| 25275 | 1649 | 9382 |
| 23137 | 1479 | 12134 |
| 21411 | 1787 | 6647 |
| 31 | 20227 | 71894 | -25.79373271 | 2596 | 10926 | 66.75824176 | 9279 | 45298 | -58.24645817 |
| 16450 | 2775 | 9315 |
| 17072 | 2834 | 12094 |
| 18145 | 2721 | 14610 |
| 32 | 19417 | 85428 | 18.82493671 | 2374 | 11218 | 2.672524254 | 7868 | 33935 | -25.08499271 |
| 20888 | 2466 | 9125 |
| 22705 | 3255 | 8036 |
| 22418 | 3123 | 8906 |
| 33 | 24843 | 116208 | 36.03034134 | 2174 | 8934 | -20.3601355 | 7748 | 44162 | 30.13702667 |
| 27068 | 3850 | 13739 |
| 29312 | 1718 | 14328 |
| 34985 | 1192 | 8347 |
| 34 | 41870 | 197335 | 69.81188903 | 1621 | 4783 | -46.46295053 | 6705 | 23040 | -47.8284498 |
| 47707 | 1227 | 6123 |
| 52529 | 986 | 5288 |
| 55229 | 949 | 4924 |
| 35 | 54544 | 232263 | 17.69985051 | 756 | 2804 | -41.37570562 | 4016 | 12822 | -44.34895833 |
| 57108 | 517 | 3566 |
| 58638 | 909 | 3190 |
| 61973 | 622 | 2050 |
| 36 | 61973 | 213078 | -8.260032808 | 573 | 1047 | -62.66048502 | 1501 | 2525 | -80.30728436 |
| 71508 | 474 | 1024 |
| 79597 | - | - |
| - | - | - |

**COVID-19:** Coronavirus disease 2019.