

Table 1. World total revenue traffic — international and domestic
(scheduled services, 2013–2022)

| Year | Passengers | | Passenger-km | | Freight tonnes | | Freight tonne-km | | Mail tonne-km | | Revenue tonne-km | |
|------|------------|-------------------|--------------|-------------------|----------------|-------------------|------------------|-------------------|---------------|-------------------|------------------|-------------------|
| | (millions) | Annual increase % | (millions) | Annual increase % | (millions) | Annual increase % | (millions) | Annual increase % | (millions) | Annual increase % | (millions) | Annual increase % |
| 2013 | 3 146 | 4.5 | 5 837 777 | 5.5 | 50.3 | 2.3 | 194 136 | 0.4 | 5 540 | 7.5 | 750 620 | 4.2 |
| 2014 | 3 325 | 5.7 | 6 186 702 | 6.0 | 52.0 | 3.3 | 203 173 | 4.7 | 6 026 | 8.8 | 794 630 | 5.9 |
| 2015 | 3 565 | 7.2 | 6 650 605 | 7.5 | 52.3 | 0.5 | 205 781 | 1.3 | 6 495 | 7.8 | 843 176 | 6.1 |
| 2016 | 3 804 | 6.7 | 7 142 150 | 7.4 | 54.2 | 3.7 | 213 146 | 3.6 | 6 626 | 2.0 | 894 993 | 6.1 |
| 2017 | 4 073 | 7.1 | 7 714 006 | 8.0 | 58.0 | 7.1 | 232 780 | 9.2 | 7 388 | 11.5 | 971 247 | 8.5 |
| 2018 | 4 338 | 6.5 | 8 276 062 | 7.3 | 59.9 | 3.2 | 239 586 | 2.9 | 7 316 | -1.0 | 1 030 927 | 6.1 |
| 2019 | 4 487 | 3.4 | 8 659 021 | 4.6 | 58.8 | -1.7 | 234 017 | -2.3 | 7 191 | -1.7 | 1 061 177 | 2.9 |
| 2020 | 1 781 | -60.3 | 2 960 574 | -65.8 | 49.5 | -15.8 | 193 776 | -17.2 | 4 903 | -31.8 | 475 756 | -55.2 |
| 2021 | 2 285 | 28.3 | 3 627 762 | 22.5 | 57.0 | 15.1 | 233 070 | 20.3 | 4 265 | -13.0 | 574 727 | 20.8 |
| 2022 | 3 262 | 42.8 | 5 888 775 | 62.3 | 56.5 | -0.8 | 220 209 | -5.5 | 3 794 | -11.0 | 773 714 | 34.6 |

Source.— ICAO Air Transport Reporting Form A and A-S plus ICAO estimates.

Table 2. World revenue traffic — international
(scheduled services, 2013–2022)

| Year | Passengers | | Passenger-km | | Freight tonnes | | Freight tonne-km | | Mail tonne-km | | Revenue tonne-km | |
|------|------------|-------------------|--------------|-------------------|----------------|-------------------|------------------|-------------------|---------------|-------------------|------------------|-------------------|
| | (millions) | Annual increase % | (millions) | Annual increase % | (millions) | Annual increase % | (millions) | Annual increase % | (millions) | Annual increase % | (millions) | Annual increase % |
| 2013 | 1 255 | 5.2 | 3 662 030 | 5.7 | 32.5 | 2.2 | 167 387 | 0.3 | 3 883 | 8.8 | 523 255 | 4.0 |
| 2014 | 1 335 | 6.4 | 3 889 573 | 6.2 | 33.7 | 3.6 | 175 642 | 4.9 | 4 264 | 9.8 | 555 099 | 6.1 |
| 2015 | 1 439 | 7.7 | 4 179 405 | 7.5 | 33.9 | 0.8 | 178 050 | 1.4 | 4 561 | 7.0 | 586 935 | 5.7 |
| 2016 | 1 548 | 7.6 | 4 500 243 | 7.7 | 35.1 | 3.5 | 184 195 | 3.5 | 4 851 | 6.4 | 622 329 | 6.0 |
| 2017 | 1 654 | 6.9 | 4 878 603 | 8.4 | 38.4 | 9.4 | 202 823 | 10.1 | 5 406 | 11.4 | 679 776 | 9.2 |
| 2018 | 1 769 | 6.9 | 5 225 138 | 7.1 | 39.7 | 3.4 | 209 080 | 3.1 | 5 359 | -0.9 | 719 596 | 5.9 |
| 2019 | 1 847 | 4.4 | 5 467 358 | 4.6 | 38.8 | -2.3 | 203 294 | -2.8 | 5 383 | 0.4 | 737 322 | 2.5 |
| 2020 | 460 | -75.1 | 1 328 744 | -75.7 | 30.9 | -20.4 | 164 568 | -19.0 | 3 379 | -37.2 | 295 923 | -59.9 |
| 2021 | 528 | 14.8 | 1 342 499 | 1.0 | 37.1 | 20.0 | 201 695 | 22.6 | 2 465 | -27.1 | 334 299 | 13.0 |
| 2022 | 1 215 | 130.3 | 3 379 047 | 151.7 | 36.7 | -1.0 | 191 141 | -5.2 | 2 128 | -13.7 | 516 486 | 54.5 |

Source.— ICAO Air Transport Reporting Form A and A-S plus ICAO estimates.

Presentation of 2022 Air Transport Statistical Results

Table 3. Trends in load factors — international and domestic
(scheduled services, 2013–2022)

| Year | Passenger-km (millions) | Seat-km available (millions) | Passenger load factor % | Freight tonne-km (millions) | Mail tonne-km (millions) | Revenue tonne-km (millions) | Total tonne-km available (millions) | Weight load factor % |
|------|----------------------------|------------------------------------|-------------------------------|-----------------------------------|--------------------------------|-----------------------------------|--|----------------------------|
| 2013 | 5 837 777 | 7 344 775 | 79 | 194 136 | 5 540 | 750 620 | 1 123 302 | 67 |
| 2014 | 6 186 702 | 7 760 685 | 80 | 203 173 | 6 026 | 794 630 | 1 187 077 | 67 |
| 2015 | 6 650 605 | 8 288 531 | 80 | 205 781 | 6 495 | 843 176 | 1 255 458 | 67 |
| 2016 | 7 142 150 | 8 895 938 | 80 | 213 146 | 6 626 | 894 993 | 1 339 026 | 67 |
| 2017 | 7 714 006 | 9 467 647 | 81 | 232 780 | 7 388 | 971 247 | 1 415 572 | 69 |
| 2018 | 8 276 062 | 10 141 799 | 82 | 239 586 | 7 316 | 1 030 927 | 1 471 294 | 70 |
| 2019 | 8 659 021 | 10 510 655 | 82 | 234 017 | 7 191 | 1 061 177 | 1 540 757 | 69 |
| 2020 | 2 960 574 | 4 540 414 | 65 | 193 776 | 4 903 | 475 756 | 795 162 | 60 |
| 2021 | 3 627 762 | 5 359 836 | 68 | 233 070 | 4 265 | 574 727 | 928 215 | 62 |
| 2022 | 5 888 775 | 7 525 183 | 78 | 220 209 | 3 794 | 773 714 | 1 177 261 | 66 |

Source.— ICAO Air Transport Reporting Form A and A-S plus ICAO estimates.

Table 4. Regional distribution of scheduled traffic — 2022

| By ICAO statistical region | Aircraft kilometres (millions) | Aircraft departures (thousands) | Passengers carried (thousands) | Passenger-kilometres (millions) | Passenger load factor (%) | Freight tonne-km (millions) | Revenue tonne-km (millions) | Tonne-kilometres available (millions) | Weight load factor (%) |
|--|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------|-----------------------------|-----------------------------|---------------------------------------|------------------------|
| Total (international and domestic) services | | | | | | | | | |
| Europe | 11,019 | 7,351 | 937,734 | 1,768,976 | 81 | 53,035 | 224,940 | 311,250 | 72 |
| Percentage of world traffic | 25.7 | 24.7 | 28.7 | 30.0 | | 24.1 | 29.1 | 26.4 | |
| Africa | 1,201 | 950 | 75,115 | 131,740 | 71 | 5,491 | 18,988 | 32,272 | 59 |
| Percentage of world traffic | 2.8 | 3.2 | 2.3 | 2.2 | | 2.5 | 2.5 | 2.7 | |
| Middle East | 3,075 | 1,293 | 178,082 | 575,509 | 74 | 31,009 | 84,731 | 133,826 | 63 |
| Percentage of world traffic | 7.2 | 4.3 | 5.5 | 9.8 | | 14.1 | 11.0 | 11.4 | |
| Asia and Pacific | 10,661 | 7,826 | 870,260 | 1,318,763 | 71 | 74,574 | 195,528 | 292,577 | 67 |
| Percentage of world traffic | 24.9 | 26.3 | 26.7 | 22.4 | | 33.9 | 25.3 | 24.9 | |
| North America | 13,899 | 9,789 | 919,704 | 1,693,958 | 83 | 49,070 | 205,695 | 340,087 | 60 |
| Percentage of world traffic | 32.5 | 32.9 | 28.2 | 28.8 | | 22.3 | 26.6 | 28.9 | |
| Latin America and Caribbean | 2,945 | 2,588 | 281,386 | 399,830 | 81 | 7,029 | 43,832 | 67,250 | 65 |
| Percentage of world traffic | 6.9 | 8.7 | 8.6 | 6.8 | | 3.2 | 5.7 | 5.7 | |
| Total | 42,801 | 29,797 | 3,262,280 | 5,888,775 | 78 | 220,209 | 773,714 | 1,177,261 | 66 |
| International services | | | | | | | | | |
| Europe | 9,138 | 5,026 | 704,757 | 1,517,383 | 82 | 51,992 | 200,068 | 274,533 | 73 |
| Percentage of world traffic | 41.9 | 54.7 | 58.0 | 44.9 | | 27.2 | 38.7 | 35.6 | |
| Africa | 958 | 484 | 44,223 | 111,454 | 71 | 5,364 | 16,869 | 29,156 | 58 |
| Percentage of world traffic | 4.4 | 5.3 | 3.6 | 3.3 | | 2.8 | 3.3 | 3.8 | |
| Middle East | 2,815 | 957 | 142,016 | 546,205 | 74 | 30,547 | 81,554 | 128,907 | 63 |
| Percentage of world traffic | 12.9 | 10.4 | 11.7 | 16.2 | | 16.0 | 15.8 | 16.7 | |
| Asia and Pacific | 3,928 | 1,076 | 131,991 | 515,240 | 72 | 67,345 | 117,282 | 168,323 | 70 |
| Percentage of world traffic | 18.0 | 11.7 | 10.9 | 15.2 | | 35.2 | 22.7 | 21.8 | |
| North America | 3,673 | 1,172 | 134,114 | 506,982 | 82 | 29,761 | 77,317 | 133,905 | 58 |
| Percentage of world traffic | 16.8 | 12.8 | 11.0 | 15.0 | | 15.6 | 15.0 | 17.4 | |
| Latin America and Caribbean | 1,318 | 472 | 58,277 | 181,782 | 81 | 6,133 | 23,397 | 36,444 | 64 |
| Percentage of world traffic | 6.0 | 5.1 | 4.8 | 5.4 | | 3.2 | 4.5 | 4.7 | |
| Total | 21,831 | 9,187 | 1,215,378 | 3,379,047 | 78 | 191,141 | 516,486 | 771,268 | 67 |

Note.— The sum of the individual regions may not match the totals due to rounding.

Source.— ICAO Air Transport Reporting Form A and A-S plus ICAO estimates.

Table 5. Revenue tonne-kilometres and passenger-kilometres on scheduled services^{1,2}
(countries and groups of countries whose airlines performed more than 100 million total tonne-kilometres in 2022³)

| Country or group of countries | REVENUE TONNE-KILOMETRES (millions) (passengers, freight and mail) | | | | | | | | REVENUE PASSENGER-KILOMETRES (millions) | | | | | | | |
|----------------------------------|---|---------|---------|-----------------------------------|---------------------------|--------|--------|-----------------------------------|--|-----------|-----------|-----------------------------------|---------------------------|---------|---------|-----------------------------------|
| | Total services (international and domestic) | | | | International services | | | | Total services (international and domestic) | | | | International services | | | |
| | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) |
| United States | 1 | 185 632 | 147 768 | 26 | 1 | 63 018 | 44 239 | 42 | 1 | 1 525 790 | 1 107 096 | 38 | 1 | 387 860 | 186 819 | 108 |
| China ⁴ | 2 | 53 714 | 79 206 | -32 | 7 | 15 187 | 15 183 | 0 | 2 | 389 167 | 652 334 | -40 | 28 | 10 252 | 8 840 | 16 |
| Hong Kong SAR ⁵ | | 7 941 | 9 516 | -17 | | 7 941 | 9 516 | -17 | | 16 011 | 4 240 | 278 | | 16 011 | 4 240 | 278 |
| Macao SAR ⁶ | | 66 | 119 | -45 | | 66 | 119 | -45 | | 641 | 1 176 | -45 | | 641 | 1 176 | -45 |
| United Arab Emirates | 3 | 40 227 | 25 561 | 57 | 2 | 40 227 | 25 561 | 57 | 3 | 289 088 | 106 901 | 170 | 2 | 289 088 | 106 901 | 170 |
| Türkiye | 4 | 30 520 | 21 939 | 39 | 4 | 27 961 | 19 616 | 43 | 6 | 213 592 | 119 308 | 79 | 5 | 186 786 | 95 212 | 96 |
| Qatar | 5 | 28 113 | 22 569 | 25 | 3 | 28 113 | 22 569 | 25 | 11 | 154 373 | 72 290 | 114 | 6 | 154 373 | 72 290 | 114 |
| Germany | 6 | 27 960 | 19 945 | 40 | 5 | 27 551 | 19 712 | 40 | 12 | 152 452 | 70 226 | 117 | 7 | 148 633 | 68 224 | 118 |
| United Kingdom | 7 | 25 879 | 9 738 | 166 | 6 | 25 295 | 9 442 | 168 | 4 | 237 580 | 60 547 | 292 | 3 | 231 092 | 57 257 | 304 |
| France | 8 | 21 658 | 12 925 | 68 | 10 | 16 663 | 9 384 | 78 | 8 | 173 320 | 85 545 | 103 | 8 | 129 003 | 56 439 | 129 |
| Republic of Korea | 9 | 20 332 | 17 697 | 15 | 9 | 18 919 | 16 395 | 15 | 21 | 67 824 | 22 638 | 200 | 15 | 53 986 | 9 921 | 444 |
| Canada | 10 | 20 063 | 8 568 | 134 | 11 | 14 298 | 5 233 | 173 | 9 | 168 169 | 51 917 | 224 | 9 | 119 122 | 27 321 | 336 |
| Ireland | 11 | 19 862 | 9 589 | 107 | 8 | 19 849 | 9 579 | 107 | 5 | 218 514 | 95 000 | 130 | 4 | 218 370 | 94 900 | 130 |
| Japan | 12 | 19 615 | 16 401 | 20 | 14 | 13 297 | 11 689 | 14 | 14 | 118 355 | 51 369 | 130 | 18 | 42 638 | 10 119 | 321 |
| India | 13 | 17 721 | 8 758 | 102 | 19 | 6 406 | 977 | 555 | 7 | 179 652 | 88 510 | 103 | 14 | 60 132 | 7 818 | 669 |
| Russian Federation ⁸ | 14 | 15 300 | 24 507 | -38 | 26 | 4 019 | 8 836 | -55 | 10 | 157 724 | 204 942 | -23 | 22 | 36 190 | 41 825 | -13 |
| Spain | 15 | 14 699 | 7 574 | 94 | 15 | 12 234 | 5 957 | 105 | 13 | 132 419 | 64 459 | 105 | 10 | 108 422 | 48 713 | 123 |
| Netherlands | 16 | 13 792 | 9 575 | 44 | 12 | 13 785 | 9 574 | 44 | 17 | 104 710 | 52 169 | 101 | 11 | 104 643 | 52 153 | 101 |
| Singapore | 17 | 13 600 | 4 914 | 177 | 13 | 13 600 | 4 914 | 177 | 19 | 92 139 | 11 597 | 695 | 12 | 92 139 | 11 597 | 695 |
| Mexico | 18 | 11 688 | 8 811 | 33 | 22 | 4 879 | 3 437 | 42 | 16 | 106 105 | 78 477 | 35 | 19 | 39 279 | 25 865 | 52 |
| Brazil | 19 | 10 863 | 7 417 | 46 | 34 | 3 130 | 1 302 | 140 | 15 | 110 537 | 73 352 | 51 | 31 | 23 454 | 5 602 | 319 |
| Australia | 20 | 10 376 | 3 979 | 161 | 23 | 4 824 | 1 248 | 287 | 18 | 93 447 | 29 027 | 222 | 20 | 36 640 | 1 784 | 1953 |
| Luxembourg | 21 | 8 282 | 8 760 | -5 | 16 | 8 282 | 8 760 | -5 | 74 | 2 957 | 1 718 | 72 | 69 | 2 957 | 1 718 | 72 |
| Ethiopia | 22 | 7 959 | 6 252 | 27 | 17 | 7 884 | 6 200 | 27 | 34 | 35 105 | 21 895 | 60 | 23 | 34 332 | 21 326 | 61 |
| Hungary | 23 | 7 056 | 3 112 | 127 | 18 | 6 762 | 3 112 | 117 | 20 | 69 227 | 31 124 | 122 | 13 | 66 301 | 31 124 | 113 |
| Thailand | 24 | 5 886 | 1 526 | 286 | 24 | 4 314 | 727 | 493 | 26 | 45 291 | 9 177 | 398 | 27 | 29 405 | 1 362 | 2059 |
| Switzerland | 25 | 5 772 | 3 222 | 79 | 20 | 5 764 | 3 218 | 79 | 27 | 44 274 | 19 582 | 126 | 17 | 44 197 | 19 540 | 126 |
| Chile | 26 | 5 752 | 2 631 | 119 | 25 | 4 214 | 1 738 | 142 | 25 | 48 116 | 14 912 | 223 | 26 | 29 714 | 5 148 | 477 |
| Viet Nam | 27 | 5 676 | 1 862 | 205 | 41 | 2 178 | 556 | 292 | 23 | 54 594 | 13 063 | 318 | 38 | 17 389 | 307 | 5559 |
| Colombia | 28 | 5 644 | 3 406 | 66 | 27 | 3 998 | 2 273 | 76 | 28 | 40 875 | 19 788 | 107 | 30 | 23 495 | 7 375 | 219 |
| Indonesia | 29 | 5 490 | 4 131 | 33 | 60 | 654 | 356 | 84 | 22 | 60 475 | 35 377 | 71 | 58 | 5 697 | 550 | 937 |
| Austria | 30 | 5 322 | 2 470 | 116 | 21 | 5 316 | 2 467 | 115 | 24 | 51 081 | 23 414 | 118 | 16 | 51 024 | 23 389 | 118 |
| Saudi Arabia ⁸ | 31 | 4 873 | 4 194 | 16 | 37 | 2 842 | 2 519 | 13 | 33 | 36 392 | 37 987 | -4 | 35 | 19 816 | 20 571 | -4 |
| Malaysia | 32 | 4 858 | 1 572 | 209 | 31 | 3 281 | 1 199 | 174 | 31 | 39 371 | 4 442 | 786 | 33 | 23 170 | 818 | 2733 |
| Scandinavia ^{7,8} | 33 | 4 526 | 2 241 | 102 | 30 | 3 430 | 1 503 | 128 | 31 | 40 097 | 18 097 | 122 | 25 | 30 168 | 11 357 | 166 |
| Philippines | 34 | 4 409 | 1 552 | 184 | 36 | 3 085 | 1 080 | 185 | 32 | 38 660 | 10 238 | 278 | 29 | 25 583 | 6 549 | 291 |
| Portugal | 35 | 4 164 | 2 129 | 96 | 28 | 3 872 | 1 953 | 98 | 30 | 39 523 | 17 709 | 123 | 21 | 36 507 | 15 935 | 129 |
| Italy ⁸ | 36 | 3 647 | 1 398 | 161 | 32 | 3 233 | 1 303 | 148 | 39 | 20 725 | 2 491 | 732 | 40 | 16 941 | 1 904 | 790 |
| Belgium ⁸ | 37 | 3 645 | 2 893 | 26 | 29 | 3 628 | 2 888 | 26 | 41 | 19 559 | 10 767 | 82 | 36 | 19 487 | 10 767 | 81 |
| Panama | 38 | 3 235 | 1 918 | 69 | 33 | 3 225 | 1 911 | 69 | 35 | 30 515 | 17 672 | 73 | 24 | 30 417 | 17 612 | 73 |
| Azerbaijan | 39 | 3 141 | 3 330 | -6 | 35 | 3 096 | 3 296 | -6 | 71 | 3 198 | 1 402 | 128 | 72 | 2 717 | 1 036 | 162 |
| Egypt | 40 | 2 730 | 1 616 | 69 | 38 | 2 620 | 1 553 | 69 | 37 | 24 310 | 11 152 | 118 | 32 | 23 211 | 10 509 | 121 |
| Finland | 41 | 2 658 | 1 213 | 119 | 39 | 2 581 | 1 174 | 120 | 38 | 20 856 | 5 082 | 310 | 34 | 19 962 | 4 628 | 331 |
| New Zealand ⁸ | 42 | 2 640 | 863 | 206 | 42 | 2 105 | 410 | 413 | 43 | 18 271 | 5 796 | 215 | 44 | 13 486 | 1 611 | 737 |
| Israel | 43 | 2 510 | 1 443 | 74 | 40 | 2 495 | 1 428 | 75 | 44 | 18 247 | 7 254 | 152 | 37 | 18 084 | 7 095 | 155 |
| Argentina | 44 | 2 400 | 992 | 142 | 56 | 883 | 287 | 208 | 36 | 24 599 | 9 806 | 151 | 53 | 8 411 | 2 253 | 273 |
| Peru | 45 | 2 266 | 1 311 | 73 | 48 | 1 478 | 749 | 97 | 40 | 19 691 | 10 456 | 88 | 47 | 11 650 | 4 998 | 133 |
| Iran (Islamic Republic of) | 46 | 1 934 | 1 489 | 30 | 57 | 880 | 588 | 50 | 42 | 18 841 | 13 360 | 41 | 55 | 7 095 | 3 416 | 108 |
| Bangladesh ⁸ | 47 | 1 924 | 647 | 197 | 45 | 1 831 | 597 | 207 | 57 | 9 904 | 5 180 | 91 | 52 | 9 385 | 4 645 | 102 |
| Bahrain | 48 | 1 890 | 857 | 120 | 43 | 1 890 | 857 | 120 | 53 | 11 536 | 4 115 | 180 | 48 | 11 536 | 4 115 | 180 |
| Morocco | 49 | 1 875 | 943 | 99 | 46 | 1 805 | 891 | 102 | 45 | 17 813 | 8 839 | 102 | 39 | 17 115 | 8 324 | 106 |
| Kuwait | 50 | 1 866 | 659 | 183 | 44 | 1 866 | 659 | 183 | 46 | 16 681 | 4 749 | 251 | 41 | 16 681 | 4 749 | 251 |
| Poland | 51 | 1 715 | 847 | 103 | 47 | 1 683 | 830 | 103 | 50 | 14 345 | 6 375 | 125 | 42 | 13 977 | 6 192 | 126 |
| Kazakhstan | 52 | 1 639 | 1 183 | 39 | 59 | 729 | 334 | 118 | 48 | 15 444 | 12 413 | 24 | 57 | 6 911 | 3 433 | 101 |
| Pakistan | 53 | 1 555 | 824 | 89 | 50 | 1 378 | 550 | 151 | 47 | 15 614 | 7 903 | 98 | 43 | 13 800 | 5 098 | 171 |
| Oman | 54 | 1 519 | 625 | 143 | 49 | 1 461 | 581 | 151 | 51 | 13 358 | 3 819 | 250 | 45 | 12 741 | 3 381 | 277 |
| Greece | 55 | 1 459 | 771 | 89 | 52 | 1 234 | 626 | 97 | 49 | 14 407 | 7 580 | 90 | 46 | 12 167 | 6 142 | 98 |
| Sri Lanka | 56 | 1 311 | 668 | 96 | 51 | 1 311 | 668 | 96 | 54 | 11 067 | 2 844 | 289 | 49 | 11 067 | 2 844 | 289 |
| South Africa | 57 | 1 305 | 883 | 48 | 73 | 255 | 91 | 181 | 52 | 11 620 | 8 709 | 33 | 78 | 2 189 | 884 | 148 |
| Kenya | 58 | 1 273 | 661 | 92 | 53 | 1 215 | 607 | 100 | 58 | 7 669 | 3 617 | 112 | 56 | 7 091 | 3 081 | 130 |
| Iceland | 59 | 1 181 | 531 | 122 | 54 | 1 180 | 529 | 123 | 56 | 10 635 | 3 913 | 172 | 50 | 10 626 | 3 895 | 173 |
| Uzbekistan | 60 | 1 069 | 466 | 129 | 55 | 1 021 | 439 | 133 | 55 | 10 925 | 4 731 | 131 | 51 | 10 399 | 4 433 | 135 |
| Jordan | 61 | 819 | 470 | 74 | 58 | 818 | 468 | 75 | 59 | 7 650 | 3 981 | 92 | 54 | 7 636 | 3 969 | 92 |
| Mauritius | 62 | 600 | 160 | 274 | 61 | 591 | 159 | 273 | 64 | 4 927 | 800 | 516 | 62 | 4 831 | 780 | 519 |
| Fiji ⁸ | 63 | 566 | 41 | 1274 | 62 | 566 | 41 | 1274 | 65 | 4 598 | 348 | 1223 | 63 | 4 598 | 348 | 1223 |
| Tunisia ⁸ | 64 | 559 | 254 | 120 | 63 | 556 | 251 | 122 | 60 | 5 592 | 2 477 | 126 | 59 | 5 555 | 2 439 | 128 |
| El Salvador | 65 | 543 | 369 | 47 | 64 | 543 | 369 | 47 | 63 | 5 124 | 3 243 | 58 | 61 | 5 124 | 3 243 | 58 |
| Lebanon | 66 | 520 | 321 | 62 | 65 | 520 | 321 | 62 | 67 | 4 473 | 2 989 | 50 | 65 | 4 473 | 2 989 | 50 |
| Latvia | 67 | 520 | 196 | 165 | 66 | 520 | 196 | 165 | 61 | 5 305 | 2 088 | 154 | 60 | 5 305 | 2 088 | 154 |
| Algeria | 68 | 489 | 163 | 200 | 69 | 363 | 70 | 422 | 62 | 5 303 | 1 669 | 218 | 66 | 3 917 | 636 | 516 |
| Czechia | 69 | 409 | 255 | 60 | 67 | 409 | 255 | 60 | 66 | 4 582 | 2 818 | 63 | 64 | 4 582 | 2 818 | 63 |
| Malta | 70 | 392 | 94 | 318 | 68 | 392 | 94 | 318 | 69 | 3 836 | 910 | 322 | 67 | 3 836 | 910 | 322 |
| Bolivia (Plurinational State of) | 71 | 340 | 262 | 30 | 83 | 190 | 122 | 56 | 68 | 4 041 | 3 000 | 35 | 76 | 2 229 | 1 390 | 60 |
| Nepal | 72 | 326 | 221 | 47 | 74 | 253 | 179 | 41 | 72 | 2 997 | 2 050 | 46 | 75 | 2 271 | 1 635 | 39 |
| Iraq | 73 | 299 | 192 | 56 | 71 | 284 | 179 | 59 | 70 | 3 321 | 1 917 | 73 | 68 | 3 154 | 1 785 | 77 |
| Belarus | 74 | 292 | 180 | 63 | 70 | 292 | 180 | 63 | 75 | 2 855 | 1 765 | 62 | 70 | 2 855 | 1 765 | 62 |
| Nigeria | 75 | 292 | 253 | 16 | 120 | 23 | 2 | 1030 | 73 | 2 963 | 2 558 | 16 | 112 | 231 | 20 | 1030 |
| Serbia | 76 | 281 | 164 | 71 | 72 | 281 | 164 | 71 | 76 | 2 752 | 1 481 | 86 | 71 | 2 750 | 1 481 | 86 |

| Country or group of countries | REVENUE TONNE-KILOMETRES (millions) (passengers, freight and mail) | | | | | | | | REVENUE PASSENGER-KILOMETRES (millions) | | | | | | | |
|--|---|---------|---------|--------------------------|------------------------|---------|---------|--------------------------|--|-----------|-----------|--------------------------|------------------------|-----------|-----------|--------------------------|
| | Total services (international and domestic) | | | | International services | | | | Total services (international and domestic) | | | | International services | | | |
| | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) |
| | | | | | | | | | | | | | | | | |
| Ecuador | 77 | 265 | 94 | 182 | 91 | 124 | 31 | 300 | 77 | 2 582 | 952 | 171 | 87 | 1 258 | 304 | 314 |
| Angola | 78 | 264 | 99 | 168 | 76 | 242 | 89 | 171 | 81 | 2 262 | 732 | 209 | 80 | 2 020 | 633 | 219 |
| Trinidad and Tobago | 79 | 248 | 153 | 62 | 75 | 243 | 151 | 62 | 84 | 2 106 | 946 | 123 | 79 | 2 058 | 919 | 124 |
| Sudan | 80 | 242 | 220 | 10 | 82 | 200 | 188 | 7 | 83 | 2 150 | 1 945 | 11 | 82 | 1 773 | 1 676 | 6 |
| Costa Rica | 81 | 240 | 101 | 137 | 77 | 237 | 99 | 139 | 78 | 2 535 | 992 | 156 | 73 | 2 511 | 970 | 159 |
| Rwanda | 82 | 232 | 149 | 55 | 78 | 231 | 149 | 55 | 80 | 2 322 | 1 493 | 55 | 74 | 2 313 | 1 491 | 55 |
| Romania | 83 | 228 | 229 | -1 | 80 | 201 | 197 | 2 | 79 | 2 508 | 2 372 | 6 | 77 | 2 208 | 2 035 | 8 |
| Afghanistan | 84 | 220 | 116 | 90 | 85 | 174 | 69 | 153 | 82 | 2 174 | 1 066 | 104 | 84 | 1 717 | 598 | 187 |
| Tajikistan | 85 | 208 | 35 | 489 | 79 | 207 | 35 | 488 | 94 | 1 147 | 343 | 234 | 90 | 1 140 | 342 | 234 |
| Senegal | 86 | 205 | 49 | 315 | 81 | 200 | 47 | 327 | 85 | 1 948 | 460 | 323 | 81 | 1 901 | 435 | 337 |
| Kyrgyzstan | 87 | 186 | 21 | 793 | 84 | 177 | 15 | 1046 | 86 | 1 856 | 208 | 792 | 83 | 1 770 | 155 | 1045 |
| Libya | 88 | 161 | 127 | 27 | 87 | 149 | 123 | 21 | 95 | 1 137 | 1 137 | 0 | 92 | 1 050 | 1 096 | -4 |
| Papua New Guinea | 89 | 156 | 104 | 49 | 97 | 83 | 49 | 71 | 91 | 1 216 | 663 | 83 | 98 | 543 | 149 | 265 |
| Syrian Arab Republic | 90 | 150 | 95 | 58 | 88 | 148 | 92 | 61 | 88 | 1 484 | 919 | 62 | 85 | 1 462 | 889 | 64 |
| Togo | 91 | 150 | 93 | 61 | 86 | 150 | 93 | 61 | 93 | 1 163 | 748 | 56 | 89 | 1 163 | 747 | 56 |
| Myanmar | 92 | 148 | 35 | 319 | 99 | 69 | 8 | 765 | 87 | 1 500 | 349 | 329 | 97 | 660 | 69 | 861 |
| Brunei Darussalam | 93 | 133 | 31 | 328 | 89 | 133 | 31 | 328 | 96 | 1 129 | 85 | 1230 | 91 | 1 129 | 85 | 1230 |
| Republic of Moldova | 94 | 123 | 85 | 45 | 92 | 123 | 85 | 45 | 89 | 1 359 | 877 | 55 | 86 | 1 359 | 877 | 55 |
| Mongolia | 95 | 122 | 9 | 1197 | 93 | 118 | 7 | 1693 | 92 | 1 211 | 103 | 1079 | 88 | 1 163 | 71 | 1534 |
| United Republic of Tanzania | 96 | 122 | 74 | 64 | 101 | 60 | 21 | 186 | 90 | 1 222 | 723 | 69 | 99 | 542 | 195 | 178 |
| Zambia | 97 | 112 | 83 | 36 | 94 | 107 | 79 | 36 | 124 | 129 | 77 | 67 | 123 | 85 | 47 | 82 |
| Croatia | 98 | 103 | 55 | 88 | 96 | 92 | 47 | 93 | 98 | 1 016 | 536 | 90 | 94 | 903 | 463 | 95 |
| Ukraine | 99 | 103 | 555 | -81 | 95 | 96 | 525 | -82 | 97 | 1 050 | 5 518 | -81 | 93 | 973 | 5 191 | -81 |
| Total for above countries (101) ⁹ | | 759 048 | 561 379 | 35 | | 502 386 | 321 273 | 56 | | 5 855 401 | 3 619 008 | 62 | | 3 350 703 | 1 336 861 | 151 |
| Rest of the World | | 14 666 | 13 348 | | | 14 100 | 13 026 | | | 33 374 | 8 754 | | | 28 343 | 5 638 | |
| World total | | 773 714 | 574 727 | 35 | | 516 486 | 334 299 | 54 | | 5 888 775 | 3 627 762 | 62 | | 3 379 047 | 1 342 499 | 152 |

Data coverage — 97.7% official statistics reported by Member States, 2.3% estimated using other sources and ICAO methodology.

1. The revenue tonne-kilometres (RTK) in all tables of this Appendix are based on the actual passenger weights reported and used by Member States.
2. Previous year traffic figures may have been restated based on actual reporting from Member States.
3. The ranking and the rate of increase or decrease may change when final data become available.
4. For statistical purposes, the data for China excludes the traffic for the Hong Kong and Macao Special Administrative Regions (Hong Kong SAR and Macao SAR) of China.
5. Traffic for the Hong Kong Special Administrative Region (SAR) of China.
6. Traffic for the Macao Special Administrative Region (SAR) of China.
7. Three States – Denmark, Norway and Sweden.
8. Traffic data estimated for incomplete reporting using ICAO methodology.
9. Includes the States listed in note 7.

Source.— ICAO Air Transport Reporting Form A and A-S.

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Table 5-a. Revenue tonne-kilometres and passenger-kilometres on total (scheduled and non-scheduled) services^{1,2}
(countries and groups of countries whose airlines performed more than 100 million total tonne-kilometres in 2022³)

| Country or group of countries | REVENUE TONNE-KILOMETRES (millions) (passengers, freight and mail) | | | | | | | | REVENUE PASSENGER-KILOMETRES (millions) | | | | | | | |
|----------------------------------|---|---------|---------|--------------------------|------------------------|--------|--------|--------------------------|--|-----------|-----------|--------------------------|------------------------|---------|---------|--------------------------|
| | Total services (international and domestic) | | | | International services | | | | Total services (international and domestic) | | | | International services | | | |
| | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) |
| United States | 1 | 213 808 | 177 525 | 20 | 1 | 81 911 | 64 424 | 27 | 1 | 1 533 725 | 1 114 559 | 38 | 1 | 391 903 | 190 876 | 105 |
| China ⁴ | 2 | 59 928 | 85 675 | -30 | 5 | 21 142 | 21 561 | -2 | 2 | 391 388 | 652 969 | -40 | 28 | 10 887 | 9 056 | 20 |
| Hong Kong SAR ⁵ | | 7 968 | 9 616 | -17 | | 7 968 | 9 616 | -17 | | 16 011 | 4 243 | 277 | | 16 011 | 4 243 | 277 |
| Macao SAR ⁶ | | 66 | 119 | -45 | | 66 | 119 | -45 | | 641 | 1 176 | -45 | | 641 | 1 176 | -45 |
| United Arab Emirates | 3 | 40 358 | 25 768 | 57 | 2 | 40 358 | 25 768 | 57 | 3 | 289 101 | 106 921 | 170 | 2 | 289 101 | 106 921 | 170 |
| Türkiye | 4 | 33 557 | 23 201 | 45 | 3 | 30 988 | 20 865 | 49 | 5 | 231 073 | 126 284 | 83 | 5 | 204 143 | 102 037 | 100 |
| United Kingdom | 5 | 30 114 | 11 553 | 161 | 4 | 29 498 | 11 220 | 163 | 4 | 269 722 | 66 923 | 303 | 3 | 263 184 | 63 608 | 314 |
| Germany | 6 | 28 741 | 20 484 | 40 | 6 | 28 329 | 20 247 | 40 | 10 | 161 063 | 76 131 | 112 | 6 | 157 244 | 74 129 | 112 |
| Qatar | 7 | 28 113 | 22 569 | 25 | 7 | 28 113 | 22 569 | 25 | 12 | 154 373 | 72 290 | 114 | 7 | 154 373 | 72 290 | 114 |
| France | 8 | 22 152 | 13 095 | 69 | 10 | 17 137 | 9 517 | 80 | 8 | 177 262 | 86 494 | 105 | 8 | 132 808 | 57 215 | 132 |
| Republic of Korea | 9 | 20 484 | 17 962 | 14 | 9 | 19 070 | 16 659 | 14 | 22 | 68 325 | 22 780 | 200 | 15 | 54 484 | 10 056 | 442 |
| Canada | 10 | 20 063 | 8 568 | 134 | 11 | 14 298 | 5 233 | 173 | 9 | 168 169 | 51 917 | 224 | 9 | 119 122 | 27 321 | 336 |
| Ireland | 11 | 19 862 | 9 590 | 107 | 8 | 19 849 | 9 580 | 107 | 6 | 218 514 | 95 011 | 130 | 4 | 218 370 | 94 911 | 130 |
| Japan | 12 | 19 615 | 16 401 | 20 | 14 | 13 297 | 11 689 | 14 | 14 | 118 355 | 51 369 | 130 | 18 | 42 638 | 10 119 | 321 |
| India | 13 | 19 405 | 11 566 | 68 | 18 | 7 990 | 3 639 | 120 | 7 | 193 731 | 112 223 | 73 | 13 | 73 796 | 31 124 | 137 |
| Russian Federation ⁸ | 14 | 15 300 | 31 080 | -51 | 29 | 4 019 | 14 907 | -73 | 11 | 157 724 | 243 187 | -35 | 23 | 36 190 | 76 804 | -53 |
| Spain | 15 | 14 900 | 7 821 | 91 | 15 | 12 429 | 6 193 | 101 | 13 | 133 317 | 65 379 | 104 | 10 | 109 256 | 49 550 | 120 |
| Netherlands | 16 | 13 888 | 9 599 | 45 | 12 | 13 881 | 9 598 | 45 | 17 | 105 755 | 52 431 | 102 | 11 | 105 688 | 52 415 | 102 |
| Singapore | 17 | 13 603 | 4 918 | 177 | 13 | 13 603 | 4 918 | 177 | 19 | 92 174 | 11 639 | 692 | 12 | 92 174 | 11 639 | 692 |
| Brazil | 18 | 12 012 | 7 765 | 55 | 31 | 3 536 | 1 392 | 154 | 15 | 117 360 | 75 394 | 56 | 32 | 24 733 | 5 733 | 331 |
| Mexico | 19 | 11 750 | 8 907 | 32 | 22 | 4 937 | 3 526 | 40 | 16 | 106 518 | 78 744 | 35 | 20 | 39 645 | 26 056 | 52 |
| Australia | 20 | 10 642 | 4 014 | 165 | 23 | 4 831 | 1 283 | 276 | 18 | 96 311 | 29 323 | 228 | 22 | 36 705 | 2 080 | 1665 |
| Luxembourg | 21 | 8 819 | 9 296 | -5 | 16 | 8 819 | 9 296 | -5 | 78 | 2 960 | 1 723 | 72 | 73 | 2 960 | 1 723 | 72 |
| Ethiopia | 22 | 8 816 | 7 243 | 22 | 17 | 8 737 | 7 190 | 22 | 34 | 36 817 | 23 359 | 58 | 24 | 36 011 | 22 775 | 58 |
| Hungary | 23 | 7 125 | 3 112 | 129 | 19 | 6 830 | 3 112 | 119 | 21 | 69 921 | 31 124 | 125 | 14 | 66 973 | 31 124 | 115 |
| Indonesia | 24 | 6 526 | 4 304 | 52 | 48 | 1 526 | 430 | 255 | 20 | 71 494 | 35 750 | 100 | 43 | 15 779 | 655 | 2309 |
| Thailand | 25 | 6 057 | 1 892 | 220 | 24 | 4 475 | 1 093 | 309 | 27 | 45 959 | 9 344 | 392 | 27 | 29 610 | 1 521 | 1846 |
| Switzerland | 26 | 5 778 | 3 228 | 79 | 20 | 5 770 | 3 224 | 79 | 28 | 44 332 | 19 635 | 126 | 17 | 44 256 | 19 593 | 126 |
| Chile | 27 | 5 752 | 2 631 | 119 | 26 | 4 214 | 1 738 | 142 | 26 | 48 116 | 14 912 | 223 | 26 | 29 714 | 5 148 | 477 |
| Viet Nam | 28 | 5 717 | 1 939 | 195 | 42 | 2 217 | 630 | 252 | 23 | 54 888 | 13 403 | 310 | 39 | 17 665 | 613 | 2783 |
| Colombia | 29 | 5 715 | 3 417 | 67 | 27 | 4 043 | 2 275 | 78 | 29 | 41 162 | 19 898 | 107 | 33 | 23 529 | 7 386 | 219 |
| Scandinavia ^{7,8} | 30 | 5 547 | 2 592 | 114 | 25 | 4 450 | 1 853 | 140 | 25 | 49 891 | 21 198 | 135 | 19 | 39 960 | 14 450 | 177 |
| Austria | 31 | 5 413 | 2 550 | 112 | 21 | 5 407 | 2 547 | 112 | 24 | 51 960 | 23 983 | 117 | 16 | 51 904 | 23 958 | 117 |
| Saudi Arabia ⁸ | 32 | 4 975 | 4 195 | 19 | 37 | 2 943 | 2 519 | 17 | 33 | 37 626 | 37 997 | -1 | 35 | 21 030 | 20 575 | 2 |
| Malaysia | 33 | 4 917 | 1 644 | 199 | 32 | 3 322 | 1 235 | 169 | 31 | 39 380 | 4 453 | 784 | 34 | 23 180 | 822 | 2718 |
| Philippines | 34 | 4 504 | 1 759 | 156 | 35 | 3 173 | 1 267 | 151 | 32 | 39 183 | 10 758 | 264 | 29 | 26 046 | 6 902 | 277 |
| Portugal | 35 | 4 262 | 2 225 | 92 | 30 | 3 967 | 2 046 | 94 | 30 | 40 227 | 18 114 | 122 | 21 | 37 187 | 16 314 | 128 |
| Belgium ⁸ | 36 | 4 044 | 2 980 | 36 | 28 | 4 026 | 2 975 | 35 | 43 | 19 830 | 10 858 | 83 | 37 | 19 758 | 10 858 | 83 |
| Italy ⁸ | 37 | 3 712 | 1 472 | 152 | 33 | 3 297 | 1 376 | 140 | 40 | 20 828 | 3 242 | 542 | 41 | 17 033 | 2 648 | 543 |
| Panama | 38 | 3 235 | 1 918 | 69 | 34 | 3 225 | 1 911 | 69 | 35 | 30 516 | 17 673 | 73 | 25 | 30 417 | 17 612 | 73 |
| Azerbaijan | 39 | 3 157 | 3 824 | -17 | 36 | 3 111 | 3 789 | -18 | 74 | 3 370 | 1 468 | 130 | 75 | 2 886 | 1 102 | 162 |
| Egypt | 40 | 3 034 | 1 891 | 60 | 38 | 2 903 | 1 823 | 59 | 36 | 27 240 | 13 772 | 98 | 30 | 25 945 | 13 093 | 98 |
| Poland | 41 | 2 833 | 1 775 | 60 | 39 | 2 797 | 1 758 | 59 | 37 | 25 483 | 15 068 | 69 | 31 | 25 079 | 14 880 | 69 |
| Finland | 42 | 2 685 | 1 221 | 120 | 40 | 2 608 | 1 182 | 121 | 39 | 21 157 | 5 165 | 310 | 36 | 20 262 | 4 711 | 330 |
| New Zealand ⁸ | 43 | 2 640 | 863 | 206 | 43 | 2 105 | 410 | 413 | 45 | 18 271 | 5 796 | 215 | 45 | 13 486 | 1 611 | 737 |
| Israel | 44 | 2 593 | 1 671 | 55 | 41 | 2 578 | 1 656 | 56 | 44 | 19 025 | 7 486 | 154 | 38 | 18 862 | 7 327 | 157 |
| Argentina | 45 | 2 410 | 1 000 | 141 | 59 | 888 | 290 | 206 | 38 | 24 711 | 9 887 | 150 | 57 | 8 462 | 2 278 | 272 |
| Peru | 46 | 2 284 | 1 342 | 70 | 50 | 1 489 | 766 | 94 | 41 | 19 851 | 10 637 | 87 | 48 | 11 741 | 5 042 | 133 |
| Iran (Islamic Republic of) | 47 | 2 047 | 1 569 | 30 | 57 | 955 | 638 | 50 | 42 | 19 837 | 13 996 | 42 | 59 | 7 704 | 3 750 | 105 |
| Bangladesh ⁸ | 48 | 1 924 | 647 | 197 | 46 | 1 831 | 597 | 207 | 57 | 9 904 | 5 180 | 91 | 53 | 9 385 | 4 645 | 102 |
| Bahrain | 49 | 1 897 | 865 | 119 | 44 | 1 897 | 865 | 119 | 53 | 11 611 | 4 193 | 177 | 49 | 11 611 | 4 193 | 177 |
| Morocco | 50 | 1 895 | 950 | 99 | 47 | 1 825 | 898 | 103 | 46 | 17 999 | 8 861 | 103 | 40 | 17 300 | 8 345 | 107 |
| Kuwait | 51 | 1 866 | 659 | 183 | 45 | 1 866 | 659 | 183 | 47 | 16 681 | 4 749 | 251 | 42 | 16 681 | 4 749 | 251 |
| Kazakhstan | 52 | 1 731 | 1 436 | 21 | 61 | 818 | 583 | 40 | 48 | 16 454 | 14 795 | 11 | 58 | 7 894 | 5 796 | 36 |
| Pakistan | 53 | 1 594 | 866 | 84 | 52 | 1 417 | 591 | 140 | 49 | 16 012 | 8 298 | 93 | 44 | 14 196 | 5 491 | 159 |
| Greece | 54 | 1 572 | 823 | 91 | 53 | 1 347 | 677 | 99 | 50 | 15 532 | 8 113 | 91 | 46 | 13 289 | 6 670 | 99 |
| Kenya | 55 | 1 555 | 672 | 132 | 49 | 1 497 | 618 | 142 | 61 | 7 686 | 3 625 | 112 | 60 | 7 107 | 3 089 | 130 |
| Oman | 56 | 1 519 | 628 | 142 | 51 | 1 461 | 583 | 150 | 51 | 13 358 | 3 850 | 247 | 47 | 12 741 | 3 406 | 274 |
| South Africa | 57 | 1 321 | 896 | 47 | 78 | 270 | 102 | 164 | 52 | 11 670 | 8 749 | 33 | 80 | 2 228 | 906 | 146 |
| Sri Lanka | 58 | 1 311 | 668 | 96 | 54 | 1 311 | 668 | 96 | 54 | 11 067 | 2 844 | 289 | 50 | 11 067 | 2 844 | 289 |
| Iceland | 59 | 1 187 | 538 | 121 | 55 | 1 186 | 536 | 121 | 56 | 10 683 | 3 969 | 169 | 51 | 10 674 | 3 951 | 170 |
| Uzbekistan | 60 | 1 069 | 777 | 38 | 56 | 1 021 | 750 | 36 | 55 | 10 925 | 5 258 | 108 | 52 | 10 399 | 4 959 | 110 |
| Jordan | 61 | 914 | 524 | 74 | 58 | 913 | 523 | 74 | 60 | 8 641 | 4 490 | 92 | 56 | 8 627 | 4 477 | 93 |
| Malta | 62 | 876 | 593 | 48 | 60 | 876 | 593 | 48 | 59 | 8 673 | 5 907 | 47 | 55 | 8 673 | 5 907 | 47 |
| Czechia | 63 | 787 | 383 | 105 | 62 | 787 | 383 | 105 | 58 | 8 835 | 4 250 | 108 | 54 | 8 834 | 4 250 | 108 |
| Latvia | 64 | 668 | 262 | 155 | 63 | 668 | 262 | 155 | 62 | 6 788 | 2 725 | 149 | 61 | 6 788 | 2 725 | 149 |
| Mauritius | 65 | 600 | 161 | 274 | 64 | 591 | 159 | 272 | 66 | 4 927 | 801 | 515 | 64 | 4 831 | 781 | 519 |
| Fiji ⁸ | 66 | 566 | 41 | 1274 | 65 | 566 | 41 | 1274 | 67 | 4 598 | 348 | 1223 | 65 | 4 598 | 348 | 1223 |
| Tunisia ⁸ | 67 | 559 | 271 | 106 | 66 | 556 | 267 | 108 | 63 | 5 592 | 2 680 | 109 | 62 | 5 555 | 2 635 | 111 |
| El Salvador | 68 | 543 | 369 | 47 | 67 | 543 | 369 | 47 | 65 | 5 131 | 3 244 | 58 | 63 | 5 131 | 3 244 | 58 |
| Romania | 69 | 534 | 351 | 52 | 69 | 507 | 319 | 59 | 71 | 4 006 | 3 619 | 11 | 70 | 3 704 | 3 281 | 13 |
| Lebanon | 70 | 522 | 322 | 62 | 68 | 522 | 322 | 62 | 68 | 4 491 | 2 995 | 50 | 66 | 4 491 | 2 995 | 50 |
| Algeria | 71 | 495 | 211 | 135 | 73 | 369 | 76 | 382 | 64 | 5 303 | 2 084 | 154 | 68 | 3 917 | 645 | 507 |
| Bulgaria | 72 | 485 | 71 | 586 | 70 | 478 | 70 | 581 | 72 | 3 793 | 421 | 801 | 69 | 3 717 | 416 | 794 |
| Belarus | 73 | 438 | 463 | -5 | 71 | 438 | 463 | -5 | 69 | 4 312 | 4 601 | -6 | 67 | 4 312 | 4 601 | -6 |
| Ukraine | 74 | 420 | 3 568 | -88 | 72 | 413 | 3 537 | -88 | 81 | 2 410 | 31 809 | -92 | 77 | 2 333 | 31 471 | -93 |
| Nigeria | 75 | 404 | 312 | 29 | 96 | 117 | 43 | 170 | 77 | 2 964 | 2 560 | 16 | 116 | 232 | 22 | 962 |
| Nepal | 76 | 392 | 221 | 77 | 75 | 319 | 179 | 78 | 73 | 3 660 | 2 050 | 79 | 74 | 2 933 | 1 635 | 79 |
| Bolivia (Plurinational State of) | 77 | 342 | 269 | 27 | 85 | 191 | 129 | 48 | 70 | 4 052 | 3 010 | | | | | |

| Country or group of countries | REVENUE TONNE-KILOMETRES (millions) (passengers, freight and mail) | | | | | | | | REVENUE PASSENGER-KILOMETRES (millions) | | | | | | | |
|--|---|---------|---------|--------------------------|------------------------|---------|---------|--------------------------|--|-----------|-----------|--------------------------|------------------------|-----------|-----------|--------------------------|
| | Total services (international and domestic) | | | | International services | | | | Total services (international and domestic) | | | | International services | | | |
| | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) |
| | | | | | | | | | | | | | | | | |
| Ecuador | 81 | 270 | 99 | 174 | 95 | 128 | 35 | 264 | 79 | 2 629 | 967 | 172 | 90 | 1 292 | 314 | 311 |
| Trinidad and Tobago | 82 | 249 | 155 | 61 | 79 | 244 | 152 | 61 | 86 | 2 113 | 960 | 120 | 81 | 2 065 | 933 | 121 |
| Sudan | 83 | 242 | 226 | 7 | 84 | 200 | 192 | 4 | 85 | 2 150 | 2 001 | 7 | 86 | 1 773 | 1 724 | 3 |
| Costa Rica | 84 | 240 | 101 | 137 | 80 | 237 | 99 | 139 | 80 | 2 536 | 993 | 155 | 76 | 2 512 | 970 | 159 |
| Rwanda | 85 | 232 | 149 | 55 | 81 | 231 | 149 | 55 | 82 | 2 322 | 1 493 | 55 | 78 | 2 313 | 1 491 | 55 |
| Afghanistan | 86 | 221 | 117 | 89 | 88 | 175 | 70 | 151 | 84 | 2 187 | 1 077 | 103 | 87 | 1 730 | 608 | 184 |
| Tajikistan | 87 | 208 | 35 | 489 | 82 | 207 | 35 | 488 | 99 | 1 147 | 343 | 234 | 94 | 1 140 | 342 | 234 |
| Senegal | 88 | 205 | 50 | 312 | 83 | 200 | 47 | 326 | 88 | 1 948 | 464 | 320 | 84 | 1 901 | 437 | 336 |
| Kyrgyzstan | 89 | 192 | 21 | 820 | 86 | 183 | 15 | 1082 | 89 | 1 913 | 208 | 819 | 85 | 1 826 | 155 | 1081 |
| Republic of Moldova | 90 | 179 | 130 | 38 | 87 | 179 | 130 | 38 | 87 | 1 987 | 1 342 | 48 | 83 | 1 987 | 1 342 | 48 |
| Venezuela | 91 | 176 | 103 | 70 | 98 | 103 | 79 | 31 | 91 | 1 596 | 856 | 86 | 97 | 875 | 615 | 42 |
| Myanmar | 92 | 164 | 73 | 125 | 100 | 85 | 45 | 90 | 90 | 1 643 | 480 | 242 | 98 | 798 | 194 | 312 |
| Libya | 93 | 161 | 127 | 27 | 90 | 149 | 123 | 21 | 100 | 1 137 | 1 137 | 0 | 95 | 1 050 | 1 096 | -4 |
| Papua New Guinea | 94 | 157 | 105 | 49 | 101 | 83 | 49 | 71 | 96 | 1 222 | 669 | 83 | 102 | 546 | 151 | 262 |
| Mongolia | 95 | 157 | 86 | 82 | 92 | 141 | 80 | 76 | 94 | 1 420 | 249 | 471 | 91 | 1 252 | 187 | 570 |
| Syrian Arab Republic | 96 | 150 | 95 | 58 | 91 | 148 | 92 | 61 | 92 | 1 484 | 919 | 62 | 88 | 1 462 | 889 | 64 |
| Togo | 97 | 150 | 93 | 61 | 89 | 150 | 93 | 61 | 97 | 1 163 | 748 | 56 | 92 | 1 163 | 747 | 56 |
| Lithuania | 98 | 138 | 114 | 21 | 93 | 138 | 113 | 22 | 93 | 1 449 | 975 | 49 | 89 | 1 448 | 973 | 49 |
| Brunei Darussalam | 99 | 136 | 32 | 322 | 94 | 136 | 32 | 322 | 98 | 1 151 | 94 | 1127 | 93 | 1 151 | 94 | 1127 |
| United Republic of Tanzania | 100 | 122 | 75 | 64 | 105 | 60 | 21 | 185 | 95 | 1 226 | 730 | 68 | 103 | 542 | 195 | 178 |
| Zambia | 101 | 112 | 83 | 36 | 97 | 107 | 79 | 36 | 127 | 129 | 77 | 67 | 126 | 85 | 47 | 82 |
| Croatia | 102 | 112 | 57 | 95 | 99 | 100 | 50 | 101 | 101 | 1 104 | 562 | 96 | 96 | 991 | 489 | 103 |
| Total for above countries (104) ⁹ | | 815 803 | 622 798 | 31 | | 547 989 | 371 682 | 47 | | 6 026 851 | 3 780 129 | 59 | | 3 504 291 | 1 486 084 | 136 |
| Rest of the World | | 14 697 | 13 453 | | | 14 183 | 13 129 | | | 33 497 | 9 671 | | | 29 000 | 6 541 | |
| World total | | 830 500 | 636 250 | 31 | | 562 171 | 384 811 | 46 | | 6 060 348 | 3 789 800 | 60 | | 3 533 290 | 1 492 625 | 137 |

Due to significantly high volume of non-scheduled operations in recent years, this table shows both scheduled and non-scheduled services traffic.

1. The revenue tonne-kilometres (RTK) in all tables of this Appendix are based on the actual passenger weights reported and used by Member States.
2. Previous year traffic figures may have been restated based on actual reporting from Member States.
3. The ranking and the rate of increase or decrease may change when final data become available.
4. For statistical purposes, the data for China excludes the traffic for the Hong Kong and Macao Special Administrative Regions (Hong Kong SAR and Macao SAR) of China.
5. Traffic for the Hong Kong Special Administrative Region (SAR) of China.
6. Traffic for the Macao Special Administrative Region (SAR) of China.
7. Three States – Denmark, Norway and Sweden.
8. Traffic data estimated for incomplete reporting using ICAO methodology.
9. Includes the States listed in note 7.

Source.— ICAO Air Transport Reporting Form A and A-S.

Table 6. Freight tonne-kilometres performed on scheduled services
(countries and groups of countries whose airlines performed more than 25 million freight tonne-kilometres in 2022¹)

| Country or group of countries | FREIGHT TONNE-KILOMETRES (millions) | | | | | | | |
|-----------------------------------|--|--------|--------|--------------------------|------------------------|--------|--------|--------------------------|
| | Total services (international and domestic) | | | | International services | | | |
| | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) |
| United States | 1 | 45 973 | 46 005 | 0 | 1 | 27 507 | 26 939 | 2 |
| China ² | 2 | 18 964 | 20 961 | -10 | 2 | 14 232 | 14 340 | -1 |
| <i>Hong Kong SAR</i> ³ | | 6 347 | 9 028 | -30 | | 6 347 | 9 028 | -30 |
| <i>Macao SAR</i> ⁴ | | 1 | 1 | 30 | | 1 | 1 | 30 |
| Qatar | 3 | 14 087 | 15 862 | -11 | 3 | 14 087 | 15 862 | -11 |
| Republic of Korea | 4 | 13 741 | 15 370 | -11 | 4 | 13 712 | 15 340 | -11 |
| United Arab Emirates | 5 | 12 995 | 15 301 | -15 | 5 | 12 995 | 15 301 | -15 |
| Germany | 6 | 12 857 | 12 911 | 0 | 6 | 12 824 | 12 875 | 0 |
| Japan | 7 | 9 689 | 10 947 | -11 | 7 | 9 098 | 10 408 | -13 |
| Türkiye | 8 | 8 422 | 9 338 | -10 | 8 | 8 393 | 9 311 | -10 |
| Luxembourg | 9 | 7 989 | 8 589 | -7 | 9 | 7 989 | 8 589 | -7 |
| Singapore | 10 | 4 696 | 3 667 | 28 | 10 | 4 696 | 3 667 | 28 |
| France | 11 | 4 090 | 4 107 | 0 | 13 | 3 647 | 3 599 | 1 |
| United Kingdom | 12 | 4 020 | 4 097 | -2 | 11 | 4 020 | 4 097 | -2 |
| Ethiopia | 13 | 3 753 | 3 717 | 1 | 12 | 3 753 | 3 716 | 1 |
| Netherlands | 14 | 3 372 | 4 346 | -22 | 14 | 3 372 | 4 346 | -22 |
| Canada | 15 | 3 098 | 3 240 | -4 | 16 | 2 255 | 2 381 | -5 |
| Azerbaijan ⁵ | 16 | 2 853 | 3 174 | -10 | 15 | 2 851 | 3 172 | -10 |
| Chile | 17 | 2 018 | 1 284 | 57 | 17 | 1 902 | 1 211 | 57 |
| Colombia | 18 | 1 730 | 1 605 | 8 | 19 | 1 649 | 1 549 | 6 |
| Belgium | 19 | 1 687 | 1 827 | -8 | 18 | 1 677 | 1 822 | -8 |
| Italy ⁵ | 20 | 1 587 | 1 151 | 38 | 20 | 1 548 | 1 116 | 39 |
| India | 21 | 1 462 | 908 | 61 | 33 | 671 | 225 | 198 |
| Saudi Arabia | 22 | 1 439 | 679 | 112 | 25 | 984 | 626 | 57 |
| Brazil | 23 | 1 434 | 1 294 | 11 | 28 | 906 | 751 | 21 |
| Thailand | 24 | 1 366 | 604 | 126 | 21 | 1 358 | 587 | 131 |
| Switzerland | 25 | 1 313 | 1 231 | 7 | 22 | 1 313 | 1 231 | 7 |
| Australia | 26 | 1 197 | 1 245 | -4 | 23 | 1 136 | 1 033 | 10 |
| Malaysia | 27 | 1 125 | 1 119 | 1 | 24 | 1 089 | 1 087 | 0 |
| Mexico | 28 | 1 076 | 963 | 12 | 26 | 950 | 851 | 12 |
| Russian Federation ⁵ | 29 | 1 006 | 5 888 | -83 | 35 | 670 | 4 996 | -87 |
| Spain | 30 | 956 | 851 | 12 | 27 | 929 | 840 | 11 |
| Bangladesh | 31 | 933 | 84 | 1015 | 30 | 892 | 83 | 971 |
| Bahrain | 32 | 899 | 523 | 72 | 29 | 899 | 523 | 72 |
| New Zealand ⁵ | 33 | 813 | 318 | 156 | 32 | 756 | 259 | 192 |
| Finland | 34 | 789 | 750 | 5 | 31 | 788 | 750 | 5 |
| Viet Nam | 35 | 766 | 677 | 13 | 36 | 611 | 526 | 16 |
| Israel | 36 | 671 | 716 | -6 | 34 | 671 | 716 | -6 |
| Philippines | 37 | 630 | 530 | 19 | 38 | 524 | 425 | 23 |
| Indonesia | 38 | 581 | 773 | -25 | 54 | 126 | 302 | -58 |
| Portugal | 39 | 567 | 500 | 13 | 37 | 558 | 492 | 13 |
| Scandinavia ^{5,6} | 40 | 515 | 423 | 22 | 41 | 404 | 355 | 14 |
| Egypt | 41 | 512 | 589 | -13 | 39 | 512 | 589 | -13 |
| Kenya | 42 | 506 | 300 | 69 | 40 | 506 | 299 | 69 |
| Peru | 43 | 324 | 258 | 26 | 43 | 309 | 243 | 27 |
| Sri Lanka ⁵ | 44 | 315 | 412 | -24 | 42 | 315 | 412 | -24 |
| Poland | 45 | 308 | 215 | 43 | 44 | 308 | 215 | 43 |

| Country or group of countries | FREIGHT TONNE-KILOMETRES (millions) | | | | | | | |
|---|--|---------|---------|--------------------------|------------------------|---------|---------|--------------------------|
| | Total services (international and domestic) | | | | International services | | | |
| | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) | Rank number in 2022 | 2022 | 2021 | Increase or decrease (%) |
| Oman | 46 | 282 | 254 | 11 | 45 | 281 | 254 | 11 |
| Kuwait | 47 | 262 | 200 | 31 | 46 | 262 | 200 | 31 |
| Iran (Islamic Republic of) | 48 | 214 | 274 | -22 | 47 | 206 | 263 | -22 |
| Austria | 49 | 205 | 125 | 64 | 48 | 205 | 125 | 64 |
| Panama | 50 | 183 | 150 | 22 | 49 | 183 | 150 | 22 |
| Kazakhstan | 51 | 177 | 31 | 464 | 63 | 73 | 13 | 459 |
| Mauritius | 52 | 156 | 87 | 78 | 50 | 156 | 87 | 78 |
| Iceland | 53 | 147 | 149 | -1 | 51 | 147 | 149 | -1 |
| South Africa | 54 | 143 | 15 | 847 | 68 | 36 | 3 | 1127 |
| Hungary | 55 | 133 | - | | 52 | 132 | - | |
| Argentina | 56 | 131 | 88 | 48 | 56 | 120 | 83 | 44 |
| Ireland | 57 | 129 | 86 | 49 | 53 | 129 | 86 | 49 |
| Jordan | 58 | 121 | 103 | 17 | 55 | 121 | 103 | 17 |
| Fiji | 59 | 106 | 6 | 1560 | 57 | 106 | 6 | 1560 |
| Zambia | 60 | 100 | 75 | 32 | 58 | 99 | 75 | 33 |
| Pakistan | 61 | 95 | 76 | 26 | 61 | 90 | 72 | 26 |
| Morocco | 62 | 93 | 59 | 58 | 59 | 93 | 59 | 58 |
| Tajikistan | 63 | 93 | 1 | 9692 | 60 | 93 | 1 | 9636 |
| Uzbekistan | 64 | 83 | 38 | 119 | 62 | 83 | 38 | 119 |
| Angola | 65 | 60 | 31 | 94 | 64 | 60 | 31 | 95 |
| Libya | 66 | 47 | 14 | 249 | 65 | 44 | 14 | 226 |
| Trinidad and Tobago | 67 | 37 | 59 | -36 | 66 | 37 | 59 | -36 |
| Lebanon | 68 | 36 | 22 | 63 | 67 | 36 | 22 | 63 |
| Togo | 69 | 33 | 18 | 83 | 69 | 33 | 18 | 83 |
| Papua New Guinea | 70 | 33 | 38 | -14 | 72 | 28 | 34 | -18 |
| Nepal | 71 | 32 | 17 | 86 | 70 | 32 | 17 | 86 |
| Brunei Darussalam | 72 | 31 | 23 | 33 | 71 | 31 | 23 | 33 |
| Turkmenistan | 73 | 29 | 1 | 4086 | 83 | 11 | | 4359 |
| Maldives | 74 | 28 | 2 | 1489 | 89 | 7 | 1 | 542 |
| Sudan | 75 | 27 | 26 | 6 | 74 | 23 | 20 | 15 |
| Latvia | 76 | 25 | 2 | 990 | 73 | 25 | 2 | 990 |
| Total for above countries (78) ⁷ | | 208 747 | 220 451 | -5 | | 179 723 | 189 100 | -5 |
| Rest of the World | | 11 463 | 12 619 | | | 11 417 | 12 595 | |
| World total | | 220 209 | 233 070 | -6 | | 191 141 | 201 695 | -5 |

Data coverage — 96.7% official statistics reported by Member States, 3.3% other sources and ICAO estimation methodology.

1. Some 2022 data are estimates, thus the ranking and the rate of increase or decrease may change when final data become available.
2. For statistical purposes, the data for China excludes the traffic for the Hong Kong and Macao Special Administrative Regions (Hong Kong SAR and Macao SAR) of China.
3. Traffic for the Hong Kong Special Administrative Region (SAR) of China.
4. Traffic for the Macao Special Administrative Region (SAR) of China.
5. Traffic data estimated for incomplete reporting using ICAO methodology.
6. Three States – Denmark, Norway and Sweden.
7. Includes the States listed in note 6.

Source. — ICAO Air Transport Reporting Form A and A-S.

Table 7. Estimated international non-scheduled revenue passenger traffic, 2013–2022

| Category | Millions revenue passenger-kilometres performed | | | | | | | | | |
|--|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| Non-scheduled traffic ¹ | 229 660 | 236 320 | 216 615 | 185 241 | 203 033 | 214 706 | 236 737 | 103 553 | 150 126 | 154 244 |
| Annual change (%) | 1.9 | 2.9 | -8.3 | -14.5 | 9.6 | 5.7 | 10.3 | -56.3 | 45.0 | 2.7 |
| Scheduled traffic | 3 662 030 | 3 889 573 | 4 179 405 | 4 500 243 | 4 878 603 | 5 225 138 | 5 467 358 | 1 328 744 | 1 342 499 | 3 379 047 |
| Annual change (%) | 5.7 | 6.2 | 7.5 | 7.7 | 8.4 | 7.1 | 4.6 | -75.7 | 1.0 | 151.7 |
| Total traffic | 3 891 690 | 4 125 893 | 4 396 020 | 4 685 484 | 5 081 637 | 5 439 844 | 5 704 095 | 1 432 298 | 1 492 625 | 3 533 290 |
| Annual change (%) | 5.5 | 6.0 | 6.5 | 6.6 | 8.5 | 7.0 | 4.9 | -74.9 | 4.2 | 136.7 |
| Non-scheduled traffic as percentage of total | 5.9 | 5.7 | 4.9 | 4.0 | 4.0 | 3.9 | 4.2 | 7.2 | 10.1 | 4.4 |

1. Covers the non-scheduled traffic of scheduled airlines and non-scheduled operators.

Source.— ICAO Air Transport Reporting Form A and A-S plus ICAO estimates.

Table 8. Traffic at world's major airports
Top 25 airports ranked by total passengers, 2022

| Rank No. | City | Airport | Passengers embarked and disembarked ¹ | | | Aircraft movements ² | | |
|--------------|----------------------|--|--|---------------------|------------------|---------------------------------|---------------------|------------------|
| | | | 2022 (thousands) | 2021 (thousands) | 2022/2021 (%) | 2022 (thousands) | 2021 (thousands) | 2022/2021 (%) |
| 1 | Atlanta GA | Hartsfield-Jackson Atlanta International Airport | 93,700 | 75,705 | 23.8 | 724 | 708 | 2.3 |
| 2 | Dallas/Fort Worth TX | Dallas/Ft Worth International Airport | 73,363 | 62,466 | 17.4 | 657 | 652 | 0.7 |
| 3 | Denver CO | Denver International Airport | 69,286 | 58,829 | 17.8 | 608 | 581 | 4.6 |
| 4 | Chicago IL | O'Hare International Airport | 68,341 | 54,025 | 26.5 | 712 | 684 | 4.0 |
| 5 | Dubai | Dubai International Airport | 66,070 | 29,111 | 127.0 | 343 | 233 | 47.1 |
| 6 | Los Angeles CA | Los Angeles International Airport | 65,924 | 48,009 | 37.3 | 557 | 507 | 9.9 |
| 7 | Istanbul | Istanbul International Airport | 64,289 | 36,988 | 73.8 | 426 | 280 | 52.0 |
| 8 | London | Heathrow Airport | 61,614 | 19,395 | 217.7 | 380 | 195 | 94.7 |
| 9 | New Delhi | Indira Gandhi International Airport | 59,490 | 37,140 | 60.2 | 421 | 327 | 28.7 |
| 10 | Paris | Aéroport de Paris-Charles de Gaulle | 57,474 | 26,197 | 119.4 | 409 | 256 | 59.8 |
| 11 | New York NY | John F. Kennedy International Airport | 55,288 | 30,788 | 79.6 | 449 | 291 | 54.4 |
| 12 | Las Vegas NV | McCarran International Airport | 52,694 | 39,754 | 32.5 | 581 | 487 | 19.4 |
| 13 | Amsterdam | Amsterdam Airport Schiphol | 52,472 | 25,493 | 105.8 | 422 | 286 | 47.9 |
| 14 | Miami FL | Miami International Airport | 50,684 | 37,302 | 35.9 | 458 | 388 | 18.2 |
| 15 | Madrid | Aeropuerto de Adolfo Suárez Madrid-Barajas | 50,603 | 24,121 | 109.8 | 352 | 218 | 61.8 |
| 16 | Tokyo | Tokyo International (Haneda) Airport | 50,334 | 26,170 | 92.3 | 388 | 274 | 41.5 |
| 17 | Orlando FL | Orlando International Airport | 50,178 | 40,351 | 24.4 | 353 | 310 | 13.9 |
| 18 | Frankfurt | Flughafen Frankfurt/Main | 48,918 | 24,813 | 97.1 | 382 | 262 | 45.9 |
| 19 | Charlotte NC | Charlotte Douglas International Airport | 47,759 | 43,302 | 10.3 | 506 | 520 | -2.8 |
| 20 | Mexico City | Aeropuerto Internacional de la Ciudad de México "Lic E | 46,259 | 36,057 | 28.3 | 387 | 328 | 18.2 |
| 21 | Seattle WA | Seattle-Tacoma International Airport | 45,964 | 36,154 | 27.1 | 401 | 375 | 7.2 |
| 22 | Phoenix AZ | Sky Harbor International Airport | 44,398 | 38,847 | 14.3 | 419 | 408 | 2.6 |
| 23 | Newark NJ | Newark Liberty International Airport | 43,565 | 29,050 | 50.0 | 401 | 282 | 42.2 |
| 24 | San Francisco CA | San Francisco International Airport | 42,282 | 24,344 | 73.7 | 355 | 266 | 33.7 |
| 25 | Barcelona | Aeropuerto de Barcelona-El Prat | 41,616 | 18,862 | 120.6 | 283 | 164 | 73.1 |
| Total | | | 1,402,567 | 923,271 | 51.9 | 11,377 | 9,281 | 22.6 |

Top 25 airports ranked by international passengers, 2022

| Rank No. | City | Airport | Passengers embarked and disembarked ¹ | | | Aircraft movements ² | | |
|--------------|-------------------|--|--|---------------------|------------------|---------------------------------|---------------------|------------------|
| | | | 2022 (thousands) | 2021 (thousands) | 2022/2021 (%) | 2022 (thousands) | 2021 (thousands) | 2022/2021 (%) |
| 1 | Dubai | Dubai International Airport | 66 070 | 29 111 | 127.0 | 343 | 233 | 47.1 |
| 2 | London | Heathrow Airport | 58 243 | 17 625 | 230.5 | 350 | 173 | 102.4 |
| 3 | Amsterdam | Amsterdam Airport Schiphol | 52 467 | 25 489 | 105.8 | 397 | 267 | 49.0 |
| 4 | Paris | Aéroport de Paris-Charles de Gaulle | 51 764 | 22 617 | 128.9 | 356 | 214 | 66.7 |
| 5 | Istanbul | Istanbul International Airport | 48 522 | 26 466 | 83.3 | 311 | 198 | 57.2 |
| 6 | Frankfurt | Flughafen Frankfurt/Main | 44 772 | 22 697 | 97.3 | 327 | 228 | 43.6 |
| 7 | Madrid | Aeropuerto de Adolfo Suárez Madrid-Barajas | 36 231 | 15 338 | 136.2 | 224 | 124 | 81.7 |
| 8 | Doha | Hamad International Airport | 35 727 | 17 702 | 101.8 | 209 | 167 | 24.8 |
| 9 | Singapore | Singapore Changi Airport | 31 902 | 3 030 | 952.9 | 219 | 109 | 100.9 |
| 10 | London | Gatwick Airport | 30 145 | 5 011 | 501.5 | 193 | 42 | 357.5 |
| 11 | Barcelona | Aeropuerto de Barcelona-El Prat | 29 422 | 11 225 | 162.1 | 189 | 93 | 102.4 |
| 12 | Dublin | Dublin Airport | 27 681 | 8 235 | 236.1 | 196 | 79 | 147.5 |
| 13 | New York NY | John F. Kennedy International Airport | 26 838 | 12 751 | 110.5 | 156 | 110 | 41.7 |
| 14 | Munich | Munich Airport | 26 824 | 10 197 | 163.0 | 208 | 223 | -6.8 |
| 15 | Antalya | Antalya International Airport | 25 267 | 17 248 | 46.5 | 150 | 95 | 58.8 |
| 16 | Lisbon | Lisbon Airport | 24 797 | 10 288 | 141.0 | 170 | 92 | 84.4 |
| 17 | Vienna | Vienna International Airport | 23 385 | 10 252 | 128.1 | 184 | 108 | 69.6 |
| 18 | London | Stansted Airport | 22 479 | 6 724 | 234.3 | 150 | 70 | 114.5 |
| 19 | Paris | Aéroport de Paris-Orly | 22 382 | 10 764 | 107.9 | 136 | 72 | 90.0 |
| 20 | Zurich | Flughafen Zürich | 22 160 | 10 004 | 121.5 | 176 | 94 | 87.0 |
| 21 | Rome | Aeroporto di Roma-Fiumicino | 22 120 | 7 173 | 208.4 | 146 | 68 | 115.3 |
| 22 | Manchester | Manchester Airport | 22 059 | 5 406 | 308.0 | 135 | 45 | 200.0 |
| 23 | Miami FL | Miami International Airport | 21 389 | 13 066 | 63.7 | 199 | 157 | 26.3 |
| 24 | Toronto ON | Toronto Pearson International Airport | 21 273 | 5 927 | 258.9 | 200 | 68 | 192.8 |
| 25 | Palma de Mallorca | Aeropuerto de Palma de Mallorca | 20 690 | 9 701 | 113.3 | 131 | 73 | 80.0 |
| Total | | | 814,608 | 334,048 | 143.9 | 5,452 | 3,200 | 70.4 |

1. Revenue and non-revenue air carrier passengers and passengers in direct transit; scheduled and non-scheduled services.

2. All aircraft movements (commercial and non-commercial).

Source.— ICAO Air Transport Reporting Form I, Airports Council International (ACI) and airport websites.

Presentation of 2022 Air Transport Statistical Results

Table 9. Operating, net results¹ and variance analysis
(scheduled airlines of ICAO Member States)

| Year | Operating revenues USD (millions) | Operating expenses USD (millions) | Operating result | | Net result ² | |
|-----------|---|---|-----------------------------|--|-----------------------------|--|
| | | | Amount USD (millions) | Percentage of operating revenues | Amount USD (millions) | Percentage of operating revenues |
| 2013 | 720,200 | 694,900 | 25,300 | 3.5 | 18,100 | 2.5 |
| 2014 | 766,900 | 725,200 | 41,700 | 5.4 | 17,300 | 2.3 |
| 2015 | 720,500 | 660,700 | 59,800 | 8.3 | 37,500 | 5.2 |
| 2016 | 709,000 | 643,800 | 65,200 | 9.2 | 35,600 | 5.0 |
| 2017 | 757,600 | 697,900 | 59,700 | 7.9 | 40,100 | 5.3 |
| 2018 | 814,200 | 763,300 | 50,900 | 6.3 | 33,400 | 4.1 |
| 2019 | 840,800 | 797,100 | 43,700 | 5.2 | 31,000 | 3.7 |
| 2020 | 381,100 | 493,100 | -112,000 | -29.4 | -139,100 | -36.5 |
| 2021(3) | 508,600 | 547,600 | -39,000 | -7.7 | -44,497 | -8.7 |
| 2022(3,4) | 730,500 | 718,000 | 12,500 | 1.7 | -3,500 | -0.5 |

Analysis of variance in operating result (2022 over 2021)

| | 2022 | 2021 | Difference |
|------------------------------------|-----------|-----------|------------|
| Operating revenues, USD (millions) | 730,500 | 508,600 | 221,900 |
| Operating expenses, USD (millions) | 718,000 | 547,600 | 170,400 |
| Operating result, USD (millions) | 12,500 | -39,000 | 51,500 |
| RTK (millions) | 830,500 | 636,250 | 194,250 |
| ATK (millions) | 1,290,476 | 1,058,960 | 231,516 |
| Yield, USD (cent) | 88.0 | 79.9 | 8.0 |
| Cost/ATK, USD (cent) | 55.6 | 51.7 | 3.9 |
| Weight load factor (%) | 64.4 | 60.1 | 4.3 |
| Break-even weight load factor (%) | 63.3 | 64.7 | -1.4 |

Analysis of difference in operating revenues (2022 over 2021)

| | | |
|--|---------|-----|
| Due to increase in yield, USD (millions) | 66,622 | |
| Due to increase in traffic, USD (millions) | 155,278 | |
| Net increase in operating revenues, USD (millions) | 221,900 | (A) |

Analysis of difference in operating expenses (2022 over 2021)

| | | |
|---|---------|-------|
| Due to decrease in unit cost, USD (millions) | 50,680 | |
| Due to increase in capacity offered, USD (millions) | 119,720 | |
| Net increase in operating expenses, USD (millions) | 170,400 | (B) |
| Net increase in operating result (2022 over 2021), USD (millions) | 51,500 | (A-B) |

1. Revenues and expenses are estimated for non-reporting airlines.

2. The net result is derived from the operating result by adding (with plus or minus sign as appropriate) non-operating items (such as interest and direct subsidies) and income tax. The operating and net results quoted, are the small differences between the estimates of large figures (revenues and expenses) and are therefore susceptible to substantial uncertainties.

3. The net results for 2021 and 2022 have been provisionally estimated and exclude exceptional accounting items.

4. Complete financial data for 2022 had not been reported to ICAO at the time of writing because of variations in fiscal year reporting.

Source.— ICAO Air Transport Reporting Form EF plus ICAO estimates.

**Table 10. Commercial transport fleet¹ of ICAO Member States
at the end of each year, 2013 - 2022**

| Year | Turbojet | | Turboprop | | Total aircraft All types |
|------|----------|------------|-----------|------------|-----------------------------|
| | Number | Percentage | Number | Percentage | |
| 2013 | 22 893 | 88.2 | 3 061 | 11.8 | 25 954 |
| 2014 | 23 587 | 88.5 | 3 066 | 11.5 | 26 653 |
| 2015 | 24 259 | 88.7 | 3 093 | 11.3 | 27 352 |
| 2016 | 25 060 | 88.9 | 3 117 | 11.1 | 28 177 |
| 2017 | 26 100 | 89.3 | 3 136 | 10.7 | 29 236 |
| 2018 | 27 183 | 89.5 | 3 196 | 10.5 | 30 379 |
| 2019 | 27 790 | 89.6 | 3 233 | 10.4 | 31 023 |
| 2020 | 27 932 | 89.9 | 3 126 | 10.1 | 31 058 |
| 2021 | 28 786 | 89.9 | 3 209 | 10.1 | 31 995 |
| 2022 | 29 567 | 89.9 | 3 339 | 10.1 | 32 906 |

1. Active and parked aircraft are included; aircraft having a maximum take-off mass of less than 9 000 kg (20 000 lbs) are not included.

Source.— Reed Business Information (RBI)

Table 11. Aviation Security

| Year | Number of acts of unlawful interference | Number of acts of unlawful seizure | | Number of acts of facility attack | | Number of acts of sabotage | Other acts ¹ | Number of persons injured or killed during acts of unlawful interference | |
|---------------------|---|------------------------------------|--------------------|-----------------------------------|----------------------------|----------------------------|-------------------------|--|--------|
| | | Actual seizures | Attempted seizures | Actual facility attacks | Attempted facility attacks | | | Injured | Killed |
| 1991 | 15 | 7 | 5 | 1 | 0 | 0 | 2 | 2 | 7 |
| 1992 | 10 | 6 | 2 | 1 | 0 | 0 | 1 | 123 | 10 |
| 1993 | 48 | 30 | 7 | 3 | 0 | 0 | 8 | 38 | 112 |
| 1994 | 43 | 22 | 5 | 4 | 0 | 2 | 10 | 57 | 51 |
| 1995 | 17 | 9 | 3 | 2 | 0 | 0 | 3 | 5 | 2 |
| 1996 | 22 | 3 | 12 | 4 | 0 | 0 | 3 | 159 | 134 |
| 1997 | 15 | 6 | 5 | 2 | 0 | 1 | 1 | 2 | 4 |
| 1998 | 17 | 11 | 2 | 1 | 0 | 0 | 3 | 1 | 41 |
| 1999 | 14 | 11 | 2 | 0 | 0 | 0 | 1 | 3 | 4 |
| 2000 | 30 | 12 | 8 | 1 | 0 | 0 | 9 | 50 | 58 |
| 2001 ⁽²⁾ | 24 | 7 | 2 | 7 | 4 | 1 | 3 | 3 217 | 3 525 |
| 2002 | 40 | 2 | 8 | 24 | 2 | 2 | 2 | 14 | 186 |
| 2003 | 35 | 3 | 5 | 10 | 0 | 5 | 12 | 77 | 20 |
| 2004 | 16 | 1 | 4 | 2 | 2 | 4 | 3 | 8 | 91 |
| 2005 | 6 | 2 | 0 | 2 | 0 | 0 | 2 | 60 | 3 |
| 2006 | 17 | 1 | 3 | 4 | 0 | 1 | 8 ⁽³⁾ | 27 | 2 |
| 2007 | 22 | 4 | 2 | 2 | 3 | 0 | 11 | 33 | 18 |
| 2008 | 23 | 1 | 6 | 3 | 0 | 0 | 13 ⁽³⁾ | 31 | 11 |
| 2009 | 23 | 5 | 3 | 1 | 0 | 0 | 14 ⁽³⁾ | 4 | 3 |
| 2010 | 14 | 0 | 1 | 1 | 0 | 1 | 11 ⁽³⁾ | 13 | 6 |
| 2011 | 6 | 0 | 2 | 0 | 0 | 1 | 3 ⁽³⁾ | 152 | 35 |
| 2012 | 10 | 1 | 2 | 2 | 0 | 0 | 5 ⁽³⁾ | 44 | 20 |
| 2013 | 8 | 1 | 0 | 3 | 0 | 1 | 2 ⁽³⁾ | 7 | 34 |
| 2014 | 21 | 2 | 2 | 9 | 0 | 1 | 7 ⁽³⁾ | 44 | 334 |
| 2015 | 13 | 2 | 2 | 2 | 2 | 4 | 1 | 6 | 403 |
| 2016 | 9 | 2 | 0 | 5 | 0 | 2 | 0 | 319 | 58 |

1. Includes in-flight attacks and other acts of unlawful interference.

2. Official reports on the events of 11 September 2001 in the United States did not include the number of deaths and injuries on the ground. Therefore, estimated totals were taken from media sources.

3. Includes attempted sabotage.

Please note that starting from 2017 the categorization of the acts of unlawful interference has changed to the format presented below.

| Year | Attack on aircraft in flight | Attack on airport/other aviation facility | Attack using aircraft as a weapon | Cyber-attack which endangers aviation safety | Unlawful seizure of aircraft | Other acts | Number of persons injured or killed during acts of unlawful interference | |
|------|------------------------------|---|-----------------------------------|--|------------------------------|------------|--|----------|
| | | | | | | | Deaths | Injuries |
| 2017 | 1 | 9 | 1 | 1 | 2 | 7 | 8 | 9 |
| 2018 | 0 | 15 | 1 | 1 | 2 | 16 | 8 | 10 |
| 2019 | 2 | 10 | 2 | 5 | 3 | 25 | 6 | 12 |
| 2020 | 2 | 4 | 0 | 2 | 1 | 9 | 183 | 1 |
| 2021 | 4 | 9 | 0 | 5 | 9 | 15 | 4 | 17 |
| 2022 | 7 | 30 | 2 | 2 | 2 | 18 | 24 | 77 |