

Table 1. World total revenue traffic — international and domestic
(scheduled services, 2014–2023)

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 %
2014	3 327	5.7	6 190 282	6.0	51.2	3.3	198 283	4.7	6 022	8.8	785 969	5.9
2015	3 567	7.2	6 654 454	7.5	51.5	0.5	200 828	1.3	6 491	7.8	833 986	6.1
2016	3 806	6.7	7 146 283	7.4	53.4	3.7	208 016	3.6	6 622	2.0	885 238	6.1
2017	4 075	7.1	7 718 470	8.0	57.2	7.1	227 177	9.2	7 383	11.5	960 662	8.5
2018	4 341	6.5	8 280 851	7.3	59.0	3.2	233 819	2.9	7 311	-1.0	1 019 691	6.1
2019	4 490	3.4	8 664 032	4.6	58.0	-1.7	228 384	-2.3	7 186	-1.7	1 049 611	2.9
2020	1 781	-60.3	2 960 574	-65.8	49.5	-14.6	193 776	-15.2	4 903	-31.8	475 756	-54.7
2021	2 279	27.9	3 621 985	22.3	57.1	15.4	231 446	19.4	4 368	-10.9	572 409	20.3
2022	3 261	43.1	5 938 271	64.0	55.2	-3.4	217 784	-5.9	3 740	-14.4	775 668	35.5
2023	4 319	32.4	8 231 549	38.6	57.4	4.0	223 758	2.7	3 448	-7.8	990 342	27.7

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

Table 2. World revenue traffic — international
(scheduled services, 2014–2023)

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 %
2014	1 336	6.4	3 888 699	6.2	32.9	3.6	170 644	4.9	4 260	9.8	544 998	6.1
2015	1 440	7.7	4 178 466	7.5	33.1	0.8	172 984	1.4	4 557	7.0	576 254	5.7
2016	1 549	7.6	4 499 232	7.7	34.3	3.5	178 954	3.5	4 846	6.4	611 004	6.0
2017	1 655	6.9	4 877 507	8.4	37.5	9.4	197 052	10.1	5 401	11.4	667 405	9.2
2018	1 770	6.9	5 223 964	7.1	38.8	3.4	203 130	3.1	5 354	-0.9	706 501	5.9
2019	1 848	4.4	5 466 130	4.6	37.9	-2.3	197 509	-2.8	5 377	0.4	723 904	2.5
2020	460	-75.1	1 328 744	-75.7	30.9	-18.5	164 568	-16.7	3 379	-37.2	295 923	-59.1
2021	525	14.1	1 338 902	0.8	37.5	21.3	200 132	21.6	2 451	-27.5	332 358	12.3
2022	1 211	130.8	3 382 626	152.6	36.5	-2.6	189 013	-5.6	2 080	-15.1	514 461	54.8
2023	1 685	39.2	4 884 146	44.4	38.1	4.3	194 538	2.9	2 103	1.1	660 151	28.3

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

Table 3. Trends in load factors — international and domestic
(scheduled services, 2014–2023)

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 %
2014	6 190 282	7 765 176	80	198 283	6 022	785 969	1 174 140	67
2015	6 654 454	8 293 327	80	200 828	6 491	833 986	1 241 775	67
2016	7 146 283	8 901 086	80	208 016	6 622	885 238	1 324 432	67
2017	7 718 470	9 473 126	81	227 177	7 383	960 662	1 400 144	69
2018	8 280 851	10 147 668	82	233 819	7 311	1 019 691	1 455 258	70
2019	8 664 032	10 516 737	82	228 384	7 186	1 049 611	1 523 964	69
2020	2 960 574	4 540 414	65	193 776	4 903	475 756	795 162	60
2021	3 621 985	5 355 569	68	231 446	4 368	572 409	926 332	62
2022	5 938 271	7 554 424	79	217 784	3 740	775 668	1 182 878	66
2023	8 231 549	10 018 335	82	223 758	3 448	990 342	1 475 512	67

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

Table 4. Regional distribution of scheduled traffic — 2023

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	12,787	8,191	1,105,069	2,181,580	84.7	51,588	262,082	361,025	73
Percentage of world traffic	23.7	23.2	25.6	26.5		23.1	26.5	24.5	
Africa	1,454	1,054	95,351	178,580	73.0	5,494	23,611	39,515	60
Percentage of world traffic	2.7	3.0	2.2	2.2		2.5	2.4	2.7	
Middle East	3,784	1,436	237,543	809,384	80.1	31,241	106,708	164,230	65
Percentage of world traffic	7.0	4.1	5.5	9.8		14.0	10.8	11.1	
Asia and Pacific	17,194	11,638	1,534,145	2,647,162	80.1	83,868	323,603	469,670	69
Percentage of world traffic	31.9	33.0	35.5	32.2		37.5	32.7	31.8	
North America	15,461	10,346	1,030,175	1,962,590	84.1	44,799	225,953	367,936	61
Percentage of world traffic	28.7	29.3	23.9	23.8		20.0	22.8	24.9	
Latin America and Caribbean	3,193	2,639	316,283	452,251	82.4	6,768	48,385	73,137	66
Percentage of world traffic	5.9	7.5	7.3	5.5		3.0	4.9	5.0	
Total	53,873	35,302	4,318,565	8,231,549	82.2	223,758	990,342	1,475,512	67
International services									
Europe	10,633	5,767	844,323	1,864,957	85	50,081	230,794	318,290	73
Percentage of world traffic	38.1	50.4	50.1	38.2		25.7	35.0	32.5	
Africa	1,176	542	59,034	154,652	72	5,467	21,239	36,042	59
Percentage of world traffic	4.2	4.7	3.5	3.2		2.8	3.2	3.7	
Middle East	3,523	1,117	196,237	774,611	80	31,200	103,563	159,683	65
Percentage of world traffic	12.6	9.8	11.6	15.9		16.0	15.7	16.3	
Asia and Pacific	6,743	2,107	343,359	1,205,246	80	74,288	187,897	268,854	70
Percentage of world traffic	24.1	18.4	20.4	24.7		38.2	28.5	27.4	
North America	4,340	1,332	167,456	661,399	86	27,545	89,522	155,720	57
Percentage of world traffic	15.5	11.7	9.9	13.5		14.2	13.6	15.9	
Latin America and Caribbean	1,527	569	74,755	223,282	83	5,959	27,136	41,858	65
Percentage of world traffic	5.5	5.0	4.4	4.6		3.1	4.1	4.3	
Total	27,943	11,436	1,685,166	4,884,146	82	194,538	660,151	980,446	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 2023³)

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 2023	2023	2022	Increase or decrease (%)	Rank number in 2023	2023	2022	Increase or decrease (%)	Rank number in 2023	2023	2022	Increase or decrease (%)	Rank number in 2023	2023	2022	Increase or decrease (%)
United States	1	201 038	185 632	8	1	71 210	63 018	13	1	1 734 754	1 525 790	14	1	493 344	387 860	27	
China ⁴	2	117 051	53 714	118	3	30 435	15 187	100	2	1 029 852	389 167	165	6	122 593	10 252	1096	
Hong Kong SAR ⁵		17 085	7 941	115		17 085	7 941	115		88 013	16 011	450		88 013	16 011	450	
		357	66	445		357	66	445		3 485	641	443		3 485	641	443	
Macao SAR ⁶	3	51 053	40 227	27	2	51 053	40 227	27	3	393 462	289 088	36	2	393 462	289 088	36	
United Arab Emirates	4	35 284	30 520	16	4	32 330	27 961	16	5	263 041	213 592	23	5	231 779	186 786	24	
Türkiye	5	32 087	28 113	14	5	32 087	28 113	14	10	200 741	154 373	30	7	200 741	154 373	30	
Qatar	6	31 471	25 879	22	6	30 756	25 295	22	4	299 980	237 580	26	3	292 037	231 092	26	
United Kingdom	7	30 628	27 960	10	7	30 144	27 551	9	13	180 925	152 452	19	8	176 349	148 633	19	
Germany	8	27 022	20 332	33	8	25 804	18 919	36	16	153 703	67 824	127	12	141 371	53 986	162	
Republic of Korea	9	24 915	20 063	24	12	18 311	14 298	28	9	227 836	168 169	35	9	168 055	119 122	41	
Canada	10	24 558	17 721	39	16	10 820	6 406	69	7	246 968	179 652	37	15	100 351	60 132	67	
India	11	24 215	21 658	12	11	19 251	16 663	16	11	197 013	173 320	14	11	152 658	129 003	18	
France	12	24 042	19 615	23	13	15 992	13 297	20	12	183 576	118 355	55	17	84 966	42 638	99	
Japan	13	23 371	13 600	72	9	23 371	13 600	72	14	165 637	92 139	80	10	165 637	92 139	80	
Singapore	14	23 274	20 574	13	25	6 318	4 684	35	8	243 397	208 025	17	19	65 935	41 849	58	
Russian Federation	15	23 005	19 862	16	10	23 004	19 849	16	6	249 841	218 514	14	4	249 824	218 370	14	
Ireland	16	17 791	14 699	21	15	14 991	12 234	23	15	161 410	132 419	22	13	134 335	108 422	24	
Spain	17	15 002	13 792	9	14	14 993	13 785	9	20	117 715	104 710	12	14	117 624	104 643	12	
Netherlands	18	14 527	10 929	33	20	7 729	5 073	52	17	133 546	97 249	37	20	65 566	38 689	69	
Australia	19	13 116	11 688	12	27	5 640	4 879	16	19	120 214	106 105	13	26	46 727	39 279	19	
Mexico	20	12 240	10 863	13	33	4 083	3 130	30	18	127 338	110 537	15	32	34 491	23 454	47	
Brazil	21	10 217	5 886	74	19	7 994	4 314	85	24	85 750	45 691	88	21	63 773	29 405	117	
Thailand	22	10 149	7 959	28	17	10 026	7 884	27	30	51 399	35 105	46	25	50 155	34 332	46	
Ethiopia	23	9 601	7 056	36	18	9 430	6 762	39	22	94 562	69 227	37	16	92 846	66 301	40	
Hungary	24	9 290	4 033	130	21	7 417	2 426	206	23	92 471	38 337	141	18	71 589	20 583	248	
Saudi Arabia	25	9 035	5 490	65	55	1 333	654	104	21	106 321	60 475	76	49	14 158	5 697	149	
Indonesia	26	8 653	4 857	78	24	6 844	3 281	109	25	80 759	39 367	105	22	62 848	23 170	171	
Malaysia	27	8 095	5 676	43	30	4 817	2 178	121	26	79 651	54 594	46	27	45 307	17 389	161	
Viet Nam	28	7 217	8 282	-13	22	7 217	8 282	-13	75	3 616	2 957	22	70	3 616	2 957	22	
Luxembourg	29	6 974	5 772	21	23	6 965	5 764	21	29	56 685	44 274	28	24	56 598	44 197	28	
Switzerland	30	6 642	4 409	51	28	4 964	3 085	61	27	61 534	38 660	59	28	44 463	25 583	74	
Philippines	31	6 253	5 644	11	29	4 910	3 998	23	31	47 017	40 875	15	34	31 589	23 495	34	
Colombia	32	5 960	5 322	12	26	5 954	5 316	12	28	57 421	51 081	12	23	57 355	51 024	12	
Austria	33	5 190	4 256	22	32	4 357	3 418	27	33	44 228	35 225	26	30	36 188	27 113	33	
Scandinavia ⁷	34	4 795	4 164	15	31	4 446	3 872	15	32	46 425	39 523	17	29	42 814	36 507	17	
Portugal	35	4 545	5 752	-21	39	3 168	4 214	-25	34	39 057	48 116	-19	39	22 662	29 714	-24	
Chile	36	4 315	3 165	36	34	3 783	2 771	37	37	32 438	19 832	64	35	27 312	16 135	69	
Italy ⁸	37	3 658	2 730	34	37	3 531	2 620	35	35	35 142	24 310	45	33	33 864	23 211	46	
Egypt ⁸	38	3 651	3 235	13	35	3 644	3 225	13	36	35 078	30 515	15	31	35 008	30 417	15	
Panama	39	3 632	3 645	0	36	3 621	3 628	0	50	17 981	19 559	-8	43	17 940	19 487	-8	
Belgium ⁸	40	3 388	2 640	28	41	2 744	2 105	30	40	26 201	18 271	43	41	20 443	13 486	52	
New Zealand ⁸	41	3 269	2 658	23	38	3 181	2 581	23	39	27 356	20 856	31	36	26 336	19 962	32	
Finland	42	3 055	2 400	27	51	1 540	883	74	38	32 020	24 599	30	47	15 224	8 411	81	
Argentina	43	3 001	2 510	20	40	2 983	2 495	20	42	23 748	18 247	30	37	23 553	18 084	30	
Israel	44	2 715	2 266	20	48	1 781	1 478	21	41	24 057	19 691	22	48	14 850	11 650	27	
Peru	45	2 514	1 866	35	42	2 514	1 866	35	44	22 825	16 681	37	38	22 825	16 681	37	
Kuwait	46	2 491	1 519	64	43	2 279	1 461	56	45	21 211	13 358	59	42	19 049	12 741	50	
Oman	47	2 236	1 875	19	44	2 160	1 805	20	43	23 102	17 813	30	40	22 280	17 115	30	
Morocco	48	2 122	1 890	12	45	2 122	1 890	12	53	14 156	11 536	23	50	14 156	11 536	23	
Bahrain	49	2 115	1 715	23	46	2 077	1 683	23	49	18 157	14 345	27	44	17 720	13 977	27	
Poland	50	1 934	1 562	24	61	909	693	31	46	20 253	16 297	24	56	9 401	7 138	32	
Kazakhstan ⁸	51	1 934	1 934	0	60	917	880	4	47	19 577	18 841	4	58	8 289	7 095	17	
Iran (Islamic Republic of)	52	1 929	1 555	24	47	1 790	1 378	30	51	17 291	15 614	11	45	15 902	13 800	15	
Pakistan	53	1 858	1 459	27	50	1 591	1 234	29	48	18 412	14 407	28	46	15 755	12 167	29	
Greece	54	1 793	1 948	-8	49	1 747	1 903	-8	72	3 961	3 198	24	72	3 490	2 717	28	
Azerbaijan	55	1 543	1 098	41	74	340	179	90	52	15 044	10 821	39	75	3 007	1 686	78	
South Africa ⁸	56	1 452	1 273	14	54	1 382	1 215	14	57	11 364	7 669	48	54	10 660	7 091	50	
Kenya	57	1 440	1 181	22	52	1 439	1 180	22	55	12 841	10 635	21	51	12 833	10 626	21	
Iceland	58	1 427	1 311	9	53	1 427	1 311	9	56	12 712	11 067	15	52	12 712	11 067	15	
Sri Lanka	59	1 286	1 069	20	56	1 242	1 021	22	54	13 151	10 925	20	53	12 666	10 399	22	
Uzbekistan	60	1 150	1 218	-6	57	1 088	1 166	-7	58	10 863	9 904	10	55	10 209	9 385	9	
Bangladesh	61	958	819	17	58	956	818	17	59	9 308	7 650	22	57	9 282	7 636	22	
Jordan	62	927	640	45	59	920	635	45	61	7 701	4 791	61	60	7 636	4 740	61	
Fiji	63	845	489	73	64	700	363	93	60	9 268	5 303	75	59	7 674	3 917	96	

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 2023			Increase or decrease (%)	Rank number in 2023			Increase or decrease (%)	Rank number in 2023			Increase or decrease (%)	Rank number in 2023			Increase or decrease (%)
		2023	2022			2023	2022			2023	2022			2023	2022	
Afghanistan	85	265	220	20	85	232	174	33	85	2 641	2 174	21	84	2 311	1 717	35
Myanmar	86	262	148	77	93	143	69	106	83	2 762	1 500	84	90	1 472	660	123
Brunei Darussalam	87	262	133	97	82	262	133	97	86	2 392	1 129	112	83	2 392	1 129	112
Mongolia	88	245	122	100	84	239	118	103	87	2 280	1 211	88	85	2 216	1 163	91
Libya ^a	89	197	161	22	87	187	149	25	95	1 369	1 137	20	92	1 292	1 050	23
Kyrgyzstan ^b	90	187	181	3	89	179	173	4	88	1 868	1 811	3	86	1 784	1 726	3
Togo ^b	91	187	150	25	88	186	150	25	96	1 280	1 163	10	93	1 279	1 163	10
Turkmenistan ^b	92	182	79	130	95	124	32	283	98	1 189	502	137	100	839	219	283
Papua New Guinea	93	167	151	11	120	23	83	-72	91	1 593	1 167	37	119	201	543	-63
Senegal ^b	94	165	204	-19	90	161	199	-19	89	1 646	1 950	-16	87	1 612	1 901	-15
Dominican Republic	95	158	52	201	91	158	52	201	92	1 579	524	201	89	1 577	524	201
Yemen ^b	96	153	9	1603	92	149	9	1555	101	1 035	65	1485	95	1 006	65	1440
United Republic of Tanzania	97	143	122	18	103	82	60	38	94	1 391	1 220	14	105	716	542	32
Republic of Moldova	98	133	123	8	94	133	123	8	93	1 470	1 359	8	91	1 470	1 359	8
Sudan	99	132	256	-48	97	116	217	-47	99	1 117	2 229	-50	96	987	1 907	-48
Zambia ^a	100	128	112	13	96	118	107	10	124	202	129	56	123	135	85	58
Croatia	101	121	103	17	98	108	92	18	97	1 196	1 016	18	94	1 065	903	18
Venezuela (Bolivarian Republic of)	102	105	83	26	111	36	33	7	100	1 050	827	27	109	355	329	8
Cambodia	103	103	27	281	99	100	26	290	102	1 002	264	280	97	979	252	289
Total for above countries (103) ^c		970 660	761 078	28		640 982	500 338	28		8 121 733	5 905 148	38		4 779 205	3 353 816	43
Rest of the World		19 681	14 590			19 169	14 122			109 815	33 123			104 941	28 810	
World total		990 342	775 668	28		660 151	514 461	28		8 231 549	5 938 271	39		4 884 146	3 382 626	44

Data coverage — **99.0%** official statistics reported by Member States, 1.0 % 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.

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 2023³)

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 2023	2023	2022	Increase or decrease (%)	Rank number in 2023	2023	2022	Increase or decrease (%)	Rank number in 2023	2023	2022	Increase or decrease (%)	Rank number in 2023	2023	2022	Increase or decrease (%)
United States	1	228 368	213 808	7	1	89 638	81 911	9	1	1 743 011	1 533 725	14	1	497 472	391 903	27
China ⁴	2	118 833	59 928	98	3	32 101	21 142	52	2	1 030 899	391 388	163	6	122 952	10 887	1029
Hong Kong SAR ⁵		17 091	7 968	114		17 091	7 968	114		88 013	16 011	450		88 013	16 011	450
Macao SAR ⁶		357	66	445		357	66	445		3 485	641	443		3 485	641	443
United Arab Emirates	3	51 252	40 358	27	2	51 252	40 358	27	3	393 473	289 101	36	2	393 473	289 101	36
Türkiye	4	37 587	33 557	12	5	34 621	30 988	12	5	280 516	231 073	21	5	249 116	204 143	22
United Kingdom	5	36 263	30 114	20	4	35 513	29 498	20	4	332 837	269 722	23	3	324 847	263 184	23
Qatar	6	32 087	28 113	14	6	32 087	28 113	14	11	200 741	154 373	30	7	200 741	154 373	30
Germany	7	31 465	28 741	9	7	30 977	28 329	9	12	190 154	161 063	18	8	185 577	157 244	18
Republic of Korea	8	27 129	20 484	32	8	25 910	19 070	36	16	154 493	68 325	126	12	142 159	54 484	161
Canada	9	24 915	20 063	24	12	18 311	14 298	28	9	227 836	168 169	35	9	168 055	119 122	41
France	10	24 876	22 152	12	11	19 879	17 137	16	10	202 613	177 262	14	11	158 011	132 808	19
India	11	24 644	19 405	27	16	10 864	7 990	36	7	247 653	193 731	28	15	100 702	73 796	36
Japan	12	24 042	19 615	23	13	15 992	13 297	20	13	183 576	118 355	55	17	84 966	42 638	99
Singapore	13	23 372	13 603	72	9	23 372	13 603	72	14	165 650	92 174	80	10	165 650	92 174	80
Russian Federation	14	23 274	20 574	13	25	6 318	4 684	35	8	243 397	208 025	17	19	65 935	41 849	58
Ireland	15	23 007	19 862	16	10	23 005	19 849	16	6	249 841	218 514	14	4	249 824	218 370	14
Spain	16	17 914	14 900	20	14	15 105	12 429	22	15	162 654	133 317	22	13	135 488	109 256	24
Netherlands	17	15 091	13 888	9	15	15 081	13 881	9	21	118 801	105 755	12	14	118 711	105 688	12
Australia	18	14 589	10 929	33	21	7 729	5 073	52	17	134 226	97 249	38	20	65 566	38 689	69
Mexico	19	13 149	11 750	12	27	5 668	4 937	15	19	120 515	106 518	13	27	46 979	39 645	18
Brazil	20	12 856	12 012	7	33	4 305	3 536	22	18	130 942	117 360	12	32	35 172	24 733	42
Ethiopia	21	10 661	8 816	21	17	10 536	8 737	21	31	53 061	36 817	44	25	51 809	36 011	44
Thailand	22	10 325	6 057	70	19	8 097	4 475	81	24	86 804	45 959	89	21	64 760	29 610	119
Indonesia	23	10 156	6 526	56	45	2 297	1 526	50	20	120 000	71 494	68	38	26 489	15 779	68
Hungary	24	9 670	7 125	36	18	9 497	6 830	39	23	95 250	69 921	36	16	93 521	66 973	40
Saudi Arabia	25	9 564	4 154	130	22	7 689	2 545	202	22	95 453	39 752	140	18	74 547	21 978	239
Malaysia	26	8 696	4 917	77	24	6 880	3 322	107	26	80 905	39 380	105	22	62 978	23 180	172
Viet Nam	27	8 254	5 717	44	29	4 976	2 217	124	25	81 398	54 888	48	26	47 051	17 665	166
Luxembourg	28	7 780	8 819	-12	20	7 780	8 819	-12	78	3 620	2 960	22	74	3 620	2 960	22
Switzerland	29	6 983	5 778	21	23	6 974	5 770	21	30	56 766	44 332	28	24	56 680	44 256	28
Philippines	30	6 800	4 504	51	28	5 121	3 173	61	27	63 256	39 183	61	28	46 183	26 046	77
Scandinavia ⁷	31	6 512	6 019	8	32	4 358	3 420	27	29	56 834	52 523	8	30	36 195	27 127	33
Colombia	32	6 261	5 696	10	30	4 914	4 039	22	32	47 112	40 993	15	34	31 623	23 499	35
Austria	33	6 063	5 413	12	26	6 057	5 407	12	28	58 445	51 960	12	23	58 378	51 904	12
Portugal	34	4 834	4 262	13	31	4 484	3 967	13	33	46 835	40 227	16	29	43 197	37 187	16
Chile	35	4 545	5 752	-21	41	3 168	4 214	-25	34	39 057	48 116	-19	41	22 662	29 714	-24
Italy ⁸	36	4 393	3 234	36	34	3 861	2 840	36	37	32 711	19 986	64	36	27 581	16 278	69
Egypt ⁹	37	3 902	3 034	29	35	3 744	2 903	29	35	37 591	27 240	38	31	35 987	25 945	39
Panama	38	3 652	3 235	13	36	3 644	3 225	13	36	35 079	30 516	15	33	35 008	30 417	15
Belgium ⁹	39	3 634	4 044	-10	37	3 622	4 026	-10	50	17 981	19 830	-9	45	17 940	19 758	-9
Poland	40	3 467	2 833	22	38	3 427	2 797	23	39	31 996	25 483	26	35	31 539	25 079	26
Azerbaijan	41	3 403	3 490	-2	39	3 357	3 444	-3	72	4 748	3 370	41	73	4 273	2 886	48
New Zealand ⁸	42	3 388	2 640	28	43	2 744	2 105	30	41	26 201	18 271	43	43	20 443	13 486	52
Finland	43	3 294	2 685	23	40	3 206	2 608	23	40	27 626	21 157	31	37	26 607	20 262	31
Argentina	44	3 088	2 410	28	52	1 548	888	74	38	32 383	24 711	31	48	15 314	8 462	81
Israel	45	3 058	2 593	18	42	3 040	2 578	18	43	24 278	19 025	28	39	24 083	18 862	28
Peru	46	2 728	2 284	19	50	1 787	1 489	20	44	24 170	19 851	22	49	14 902	11 741	27
Kuwait	47	2 514	1 866	35	44	2 514	1 866	35	46	22 825	16 681	37	40	22 825	16 681	37
Oman	48	2 497	1 519	64	46	2 284	1 461	56	47	21 271	13 358	59	44	19 109	12 741	50
Kazakhstan ⁸	49	2 432	1 893	28	57	1 400	1 019	37	42	25 779	19 958	29	50	14 849	10 739	38
Morocco	50	2 264	1 895	19	47	2 188	1 825	20	45	23 377	17 999	30	42	22 551	17 300	30
Bahrain	51	2 126	1 897	12	48	2 126	1 897	12	53	14 199	11 611	22	51	14 199	11 611	22
Iran (Islamic Republic of)	52	2 049	2 047	0	59	998	955	4	48	20 620	19 837	4	59	8 982	7 704	17
Greece	53	2 018	1 572	28	51	1 750	1 347	30	49	20 009	15 532	29	46	17 346	13 289	31
Pakistan	54	1 937	1 594	21	49	1 797	1 417	27	51	17 371	16 012	8	47	15 978	14 196	13
South Africa ⁸	55	1 546	1 113	39	77	343	194	77	52	15 061	10 871	39	78	3 022	1 725	75
Kenya	56	1 474	1 555	-5	56	1 404	1 497	-6	57	11 364	7 686	48	55	10 660	7 107	50
Uzbekistan	57	1 468	1 069	37	55	1 424	1 021	39	54	13 792	10 925	26	52	13 307	10 399	28
Iceland	58	1 442	1 187	21	53	1 441	1 186	21	55	12 863	10 683	20	53	12 855	10 674	20
Sri Lanka	59	1 427	1 311	9	54	1 427	1 311	9	56	12 713	11 067	15	54	12 713	11 067	15
Bangladesh	60	1 150	1 218	-6	58	1 088	1 166	-7	58	10 863	9 904	10	56	10 209	9 385	9
Jordan	61	987	914	8	60	984	913	8	59	9 592	8 641	11	57	9 566	8 627	11
Fiji	62	927	640	45	61	920	635	45	62	7 701	4 791	61	61	7 636	4 740	61
Algeria ⁸	63	849	495	72	68	704	369	91								

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 2023	Increase or decrease (%)			Rank number in 2023	Increase or decrease (%)			Rank number in 2023	Increase or decrease (%)			Rank number in 2023	Increase or decrease (%)		
		2023	2022			2023	2022			2023	2022			2023	2022	
Armenia	83	300	57	421	81	300	57	421	83	2 882	606	376	79	2 882	606	376
Tajikistan ⁸	84	294	208	41	82	292	207	41	94	1 621	1 147	41	91	1 609	1 140	41
Bulgaria	85	284	485	-41	83	277	478	-42	87	2 698	3 793	-29	82	2 618	3 717	-30
Myanmar	86	283	164	72	94	163	85	91	84	2 867	1 643	75	93	1 567	798	96
Mongolia	87	280	157	79	87	259	141	83	88	2 587	1 420	82	87	2 343	1 252	87
Afghanistan	88	275	221	25	88	242	175	38	85	2 747	2 187	26	86	2 418	1 730	40
Ukraine	89	273	420	-35	84	273	413	-34	106	992	2 410	-59	99	992	2 333	-57
Rwanda ⁸	90	270	232	16	85	269	231	16	86	2 701	2 322	16	81	2 693	2 313	16
Brunei Darussalam	91	266	136	96	86	266	136	96	89	2 440	1 151	112	85	2 440	1 151	112
Libya ⁸	92	197	161	22	91	187	149	25	98	1 369	1 137	20	94	1 292	1 050	23
Republic of Moldova	93	189	179	6	90	189	179	6	90	2 113	1 987	6	88	2 113	1 987	6
Kyrgyzstan ⁸	94	187	187	0	93	179	178	0	91	1 868	1 867	0	89	1 784	1 783	0
Togo ⁹	95	187	150	25	92	186	150	25	100	1 280	1 163	10	95	1 279	1 163	10
Turkmenistan ⁸	96	182	79	130	98	124	32	283	101	1 189	502	137	105	839	219	283
Papua New Guinea	97	167	151	10	125	23	83	-72	95	1 597	1 172	36	123	201	546	-63
Senegal ⁸	98	166	205	-19	95	162	199	-19	92	1 664	1 956	-15	90	1 622	1 901	-15
Venezuela (Bolivarian Republic of)	99	163	176	-7	108	82	103	-20	93	1 623	1 596	2	107	815	875	-7
Dominican Republic	100	158	52	201	96	158	52	201	96	1 579	524	201	92	1 577	524	201
Yemen ⁸	101	153	9	1603	97	149	9	1555	104	1 035	65	1485	98	1 006	65	1440
United Republic of Tanzania	102	144	122	18	109	82	60	38	97	1 396	1 224	14	109	717	542	32
Sudan	103	132	261	-49	101	116	220	-47	103	1 124	2 283	-51	100	990	1 943	-49
Croatia	104	131	112	17	99	118	100	18	99	1 300	1 104	18	96	1 169	991	18
Zambia ⁸	105	128	112	13	100	118	107	10	128	202	129	56	128	135	85	58
Suriname	106	114	72	58	102	114	72	58	111	834	514	62	106	834	514	62
Slovakia	107	105	79	32	103	105	79	32	102	1 135	777	46	97	1 135	777	46
Cambodia	108	104	27	284	104	101	26	294	105	1 012	264	283	101	989	252	293
Total for above countries (108) ⁹		1 021 688	820 277	25		680 684	546 933	24		8 299 109	6 086 489	36		4 931 133	3 503 303	41
Rest of the World		19 623	14 444			20 432	15 745			109 312	31 657			117 064	44 726	
World total		1 041 311	834 721	25		701 116	562 678	25		8 408 421	6 118 145	37		5 048 197	3 548 029	42

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 2023¹)

Country or group of countries	FREIGHT TONNE-KILOMETRES (millions)							
	Total services (international and domestic)				International services			
	Rank number in 2023	2023	2022	Increase or decrease (%)	Rank number in 2023	2023	2022	Increase or decrease (%)
United States	1	42 763	45 973	-7	2	26 122	27 507	-5
China ⁴	2	26 170	18 964	38	1	19 606	14 232	38
<i>Hong Kong SAR</i> ⁵		8 638	6 347	36		8 638	6 347	36
<i>Macao SAR</i> ⁶		9	1	497		9	1	497
Qatar	3	13 927	14 087	-1	3	13 927	14 087	-1
United Arab Emirates	4	13 566	12 995	4	4	13 566	12 995	4
Germany	5	12 767	12 857	-1	5	12 731	12 824	-1
Republic of Korea	6	12 294	13 741	-11	6	12 264	13 712	-11
Japan	7	8 474	9 689	-13	8	7 868	9 098	-14
Türkiye	8	8 367	8 422	-1	7	8 336	8 393	-1
Singapore	9	7 604	4 696	62	9	7 604	4 696	62
Luxembourg	10	6 873	7 989	-14	10	6 873	7 989	-14
United Kingdom	11	4 414	4 020	10	11	4 414	4 020	10
France	12	4 302	4 090	5	13	3 881	3 647	6
Ethiopia	13	4 015	3 753	7	12	4 015	3 753	7
Netherlands	14	3 293	3 372	-2	14	3 293	3 372	-2
Canada	15	2 036	3 098	-34	21	1 423	2 255	-37
Colombia	16	1 936	1 730	12	15	1 880	1 649	14
Malaysia	17	1 910	1 125	70	18	1 506	1 089	38
Belgium ⁸	18	1 831	1 687	9	16	1 824	1 677	9
India	19	1 807	1 462	24	26	1 015	671	51
Thailand	20	1 650	1 366	21	17	1 640	1 358	21
Chile	21	1 499	2 018	-26	19	1 443	1 902	-24
Azerbaijan	22	1 434	1 656	-13	20	1 431	1 654	-13
Brazil	23	1 387	1 434	-3	30	873	906	-4
Russian Federation	24	1 269	1 726	-26	41	370	882	-58
Switzerland	25	1 258	1 313	-4	22	1 257	1 313	-4
Australia	26	1 188	1 178	1	23	1 188	1 178	1
Spain	27	1 131	956	18	25	1 084	929	17
Italy ⁸	28	1 121	1 213	-8	24	1 097	1 185	-7
Mexico	29	1 091	1 076	1	28	964	950	1
Saudi Arabia	30	1 037	630	65	27	1 011	594	70
Viet Nam	31	928	766	21	32	736	611	21
Bahrain	32	895	899	0	29	895	899	0
Indonesia	33	871	581	50	50	187	126	48
Finland	34	816	789	4	31	816	788	4
New Zealand ⁸	35	768	813	-6	34	700	756	-7
Scandinavia ⁶	36	756	722	5	33	727	696	5
Philippines	37	649	630	3	38	510	524	-3
Israel	38	610	671	-9	35	610	671	-9
Portugal	39	569	567	0	36	560	558	0
Oman	40	542	282	93	37	542	281	93
Egypt ⁸	41	493	512	-4	39	493	512	-4
Ireland	42	430	129	235	40	430	129	235
Poland	43	344	308	12	42	344	308	12
Kuwait	44	331	262	26	43	331	262	26
Pakistan	45	310	95	225	44	302	90	234

Country or group of countries	FREIGHT TONNE-KILOMETRES (millions)							
	Total services (international and domestic)				International services			
	Rank number in 2023	2023	2022	Increase or decrease (%)	Rank number in 2023	2023	2022	Increase or decrease (%)
Peru	46	299	324	-8	46	280	309	-9
Kenya	47	289	506	-43	45	288	506	-43
Sri Lanka	48	278	315	-12	47	278	315	-12
Austria	49	208	205	1	48	208	205	1
Iceland	50	192	147	30	49	192	147	30
Mauritius	51	170	156	9	51	170	156	9
Fiji	52	156	152	3	52	156	152	3
Hungary	53	145	133	9	53	145	132	10
Panama	54	144	183	-22	54	143	183	-22
Iran (Islamic Republic of)	55	137	214	-36	57	124	206	-40
Argentina	56	136	131	4	56	127	120	6
Tajikistan ⁸	57	132	93	41	55	131	93	41
Ecuador	58	120	9	1219	58	115	5	2061
Jordan	59	110	121	-9	59	110	121	-9
Zambia ⁸	60	104	100	5	60	103	99	4
Bangladesh	61	99	228	-57	61	99	227	-57
Uzbekistan	62	96	83	16	62	96	83	16
Morocco	63	93	93	-1	63	92	93	-1
Angola	64	71	60	17	64	70	60	17
Turkmenistan ⁸	65	63	29	119	71	40	11	282
Libya ⁸	66	60	47	27	66	57	44	30
South Africa	67	60	20	191	67	51	13	290
Togo ⁸	68	59	33	75	65	59	33	75
Kazakhstan ⁸	69	53	51	4	73	30	29	5
Yemen ⁸	70	50	2	1917	68	48	2	1859
Brunei Darussalam	71	46	31	50	69	46	31	50
Trinidad and Tobago	72	46	37	23	70	46	37	23
Lebanon	73	34	36	-5	72	34	36	-5
Vanuatu	74	30	17	75	74	29	16	79
Maldives	75	29	25	16	87	8	7	8
El Salvador	76	28	12	128	75	28	12	128
Mongolia	77	27	13	108	76	27	13	108
Total for above countries (77) ⁷		213 937	206 301	4		184 766	177 574	4
Rest of the World		9 820	11 484			9 772	11 439	
World total		223 758	217 784	3		194 538	189 013	3

Data coverage — **98.6%** official statistics reported by Member States, **1.4%** other sources and ICAO estimation methodology.

1. Some 2023 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, 2014–2023

Category	Millions revenue passenger-kilometres performed									
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Non-scheduled traffic ¹	236 320	216 615	185 241	203 033	214 706	236 737	103 553	152 519	165 403	164 050
Annual change (%)	2.9	-8.3	-14.5	9.6	5.7	10.3	-56.3	47.3	8.4	-0.8
Scheduled traffic	3 888 699	4 178 466	4 499 232	4 877 507	5 223 964	5 466 130	1 328 744	1 338 902	3 382 626	4 884 146
Annual change (%)	6.2	7.5	7.7	8.4	7.1	4.6	-75.7	0.8	152.6	44.4
Total traffic	4 125 019	4 395 081	4 684 473	5 080 541	5 438 670	5 702 867	1 432 298	1 491 421	3 548 029	5 048 197
Annual change (%)	6.0	6.5	6.6	8.5	7.0	4.9	-74.9	4.1	137.9	42.3
Non-scheduled traffic as percentage of total	5.7	4.9	4.0	4.0	3.9	4.2	7.2	10.2	4.7	3.2

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, 2023

Rank No.	City	Airport	Passengers embarked and disembarked ¹			Aircraft movements ²		
			2023 (thousands)	2022 (thousands)	2023/2022 (%)	2023 (thousands)	2022 (thousands)	2023/2022 (%)
1	Atlanta GA	Hartsfield-Jackson Atlanta International Airport	104,653	93,700	11.7	416	343	21.3
2	Dubai	Dubai International Airport	86,994	66,070	31.7	690	657	5.0
3	Dallas/Fort Worth TX	Dallas/Ft Worth International Airport	81,756	73,363	11.4	457	380	20.1
4	London	Heathrow Airport	79,183	61,614	28.5	465	388	19.8
5	Tokyo	Tokyo International (Haneda) Airport	78,719	50,756	55.1	657	608	8.1
6	Denver CO	Denver International Airport	77,838	69,286	12.3	506	426	18.8
7	Istanbul	Istanbul International Airport	76,027	64,289	18.3	575	557	3.3
8	Los Angeles CA	Los Angeles International Airport	75,051	65,924	13.8	721	712	1.3
9	Chicago IL	O'Hare International Airport	73,894	68,341	8.1	453	421	7.6
10	New Delhi	Indira Gandhi International Airport	72,215	59,490	21.4	455	409	11.2
11	Paris	Aéroport de Paris-Charles de Gaulle	67,421	57,474	17.3	456	267	71.1
12	Guangzhou	Guangzhou Bai Yun International Airport	63,169	26,105	142.0	481	449	7.2
13	New York NY	John F. Kennedy International Airport	62,464	55,288	13.0	465	422	10.0
14	Amsterdam	Amsterdam Airport Schiphol	61,890	52,472	17.9	389	352	10.6
15	Madrid	Aeropuerto de Adolfo Suárez Madrid-Barajas	60,182	50,603	18.9	430	382	12.6
16	Frankfurt	Flughafen Frankfurt/Main	59,355	48,918	21.3	333	223	49.4
17	Singapore	Singapore Changi Airport	58,946	32,202	83.1	406	353	14.8
18	Orlando FL	Orlando International Airport	57,736	50,178	15.1	612	581	5.3
19	Las Vegas NV	McCarran International Airport	57,666	52,694	9.4	345	188	83.3
20	Incheon	Incheon International Airport	56,235	17,924	213.7	434	204	112.3
21	Shanghai	Pudong International Airport	54,476	14,178	284.2	539	506	6.6
22	Charlotte NC	Charlotte Douglas International Airport	53,446	47,759	11.9	380	158	140.9
23	Beijing	Beijing Capital International Airport	52,879	12,703	316.3	393	236	66.8
24	Shenzhen	Shenzhen Baoan International Airport	52,735	21,563	144.6	462	458	0.7
25	Miami FL	Miami International Airport	52,341	50,684	3.3	232	200	16.5
Total			1,677,273	1,263,580	32.7	11,752	9,880	18.9

Top 25 airports ranked by international passengers, 2023

Rank No.	City	Airport	Passengers embarked and disembarked ¹			Aircraft movements ²		
			2023 (thousands)	2022 (thousands)	2023/2022 (%)	2023 (thousands)	2022 (thousands)	2023/2022 (%)
1	Dubai	Dubai International Airport	86 994	66 070	31.7	416	343	21.3
2	London	Heathrow Airport	74 909	58 243	28.6	422	350	20.6
3	Amsterdam	Amsterdam Airport Schiphol	61 883	52 467	17.9	442	397	11.1
4	Paris	Aéroport de Paris-Charles de Gaulle	61 412	51 764	18.6	399	356	12.1
5	Singapore	Singapore Changi Airport	58 411	31 902	83.1	328	219	49.8
6	Istanbul	Istanbul International Airport	58 233	48 522	20.0	373	311	19.8
7	Incheon	Incheon International Airport	55 764	17 824	212.9	334	171	95.6
8	Frankfurt	Flughafen Frankfurt/Main	54 089	44 772	20.8	368	327	12.5
9	Doha	Hamad International Airport	45 914	35 727	28.5	246	209	17.7
10	Madrid	Aeropuerto de Adolfo Suárez Madrid-Barajas	43 800	36 231	20.9	252	224	12.4
11	Bangkok	Suvarnabhumi International Airport	39 726	17 590	125.9	205	108	89.6
12	Hong Kong SAR	Hong Kong International Airport	39 389	5 639	598.5	268	134	99.3
13	London	Gatwick Airport	37 941	30 145	25.9	229	193	19.2
14	Barcelona	Aeropuerto de Barcelona-El Prat	36 183	29 423	23.0	218	189	15.5
15	New York NY	John F. Kennedy International Airport	33 370	26 838	24.3	187	156	19.8
16	Dublin	Dublin Airport	33 096	27 681	19.6	315	270	16.8
17	Kuala Lumpur	Kuala Lumpur International Airport	32 521	14 104	130.6	215	111	93.9
18	Rome	Aeroporto di Roma-Fiumicino	31 582	22 120	42.8	189	146	29.7
19	Munich	Munich Airport	31 295	26 824	16.7	235	220	6.8
20	Lisbon	Lisbon Airport	29 723	24 797	19.9	193	170	13.6
21	Antalya	Antalya International Airport	29 510	25 267	16.8	175	150	16.7
22	Jeddah	King Abdulaziz International Airport	29 403	19 288	52.4	165	115	43.3
23	Vienna	Vienna International Airport	29 199	23 385	24.9	215	184	17.3
24	Zurich	Flughafen Zürich	28 442	22 160	28.3	210	176	19.2
25	Toronto ON	Toronto Pearson International Airport	28 259	21 273	32.8	232	200	16.5
Total			1,091,049	780,055	39.9	6,831	5,427	25.9

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.

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
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	508,600	547,600	-39,000	-7.7	-44,497	-8.7
2022 ⁽³⁾	730,500	718,000	12,500	1.7	-3,500	-0.5
2023 ^(3,4)	902,300	841,000	61,300	6.8	34,500	3.8

Analysis of variance in operating result (2023 over 2022)

	2023	2022	Difference
Operating revenues, USD (millions)	902,300	730,500	171,800
Operating expenses, USD (millions)	841,000	718,000	123,000
Operating result, USD (millions)	61,300	12,500	48,800
RTK (millions)	1,041,311	834,721	206,590
ATK (millions)	1,576,239	1,298,627	277,612
Yield, USD (cent)	86.7	87.5	-0.9
Cost/ATK, USD (cent)	53.4	55.3	-1.9
Weight load factor (%)	66.1	64.3	1.8
Break-even weight load factor (%)	61.6	63.2	-1.6

Analysis of difference in operating revenues (2023 over 2022)

Due to decrease in yield, USD (millions)	-8,996	(A)
Due to increase in traffic, USD (millions)	180,796	
Net increase in operating revenues, USD (millions)	171,800	

Analysis of difference in operating expenses (2023 over 2022)

Due to decrease in unit cost, USD (millions)	-30,489	(B)
Due to increase in capacity offered, USD (millions)	153,489	
Net increase in operating expenses, USD (millions)	123,000	
Net increase in operating result (2023 over 2022), USD (millions)	48,800	(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
3. The net results for 2022 and 2023 have been provisionally estimated and exclude exceptional accounting items.
4. Complete financial data for 2023 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, 2014 - 2023**

Year	Turbojet		Turboprop		Total aircraft All types
	Number	Percentage	Number	Percentage	
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
2023	30 657	88.3	4 075	11.7	34 732

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	9	34	2	9	2	0	26	82
2023	10	16	1	1	1	0	3	2