



11

Mobility and Transport

409-1500

Swiss civil aviation 2015



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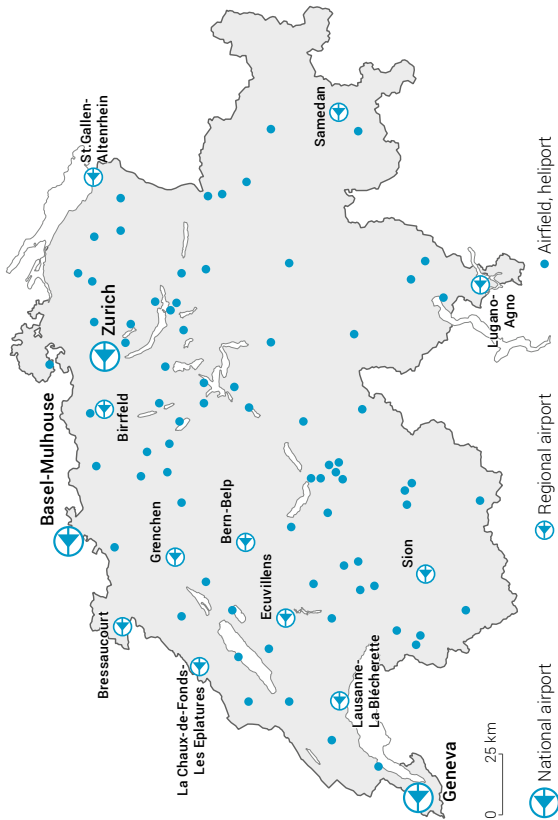
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Civil aviation 2015

1



Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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1 Aerodrome infrastructure

Swiss aerodromes: overview 2015

T 1

Aerodrome	Foundation	Longest runway	Concrete s. runw.	Instrument Flight Rules (IFR) Procedures (y/n)
	Year	m	Numbers	
Total airports and airfields			33	
Total airfields			16	
Total national airports			6	
Zurich	1948	3700	3	y
Geneva	1922	3900	1	y
Basel-Mulhouse	1946	3900	2	y
Total regional airports			11	
Bern-Belp	1929	1730	1	y
Lugano-Agno	1947	1350	1	y
Sion	1935	2000	1	y
St. Gallen-Altenrhein	1926	1500	1	y
Birrfeld	1937	725	1	n
Bressaucourt	2011	800	1	n
Ecuvillens	1953	800	1	n
Grenchen	1931	1000	1	y
La Chaux-de-Fonds- Les Eplatures	1912	1130	1	y
Lausanne- La Blécherette	1910	875	1	n
Samedan	1937	1800	1	n

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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2 Aircraft

Swiss aircraft register

T 2.1

Type of aircraft	2010	2011	2012	2013	2014	2015
Total aircraft	3705	3709	3657	3620	3556	3494
Aeroplanes	1913	1932	1922	1924	1880	1850
< 2,250 kg MTOM ¹	1413	1419	1461	1458	1425	1397
2,250–5,700 kg MTOM ¹	197	214	167	176	171	169
> 5,700 kg MTOM ¹	303	299	294	290	284	284
Helicopters	327	334	326	312	321	326
Gliders	824	800	767	745	720	696
Powered gliders	251	254	255	255	258	253
Airships	9	10	10	11	11	11
Free balloons	381	379	377	373	366	358

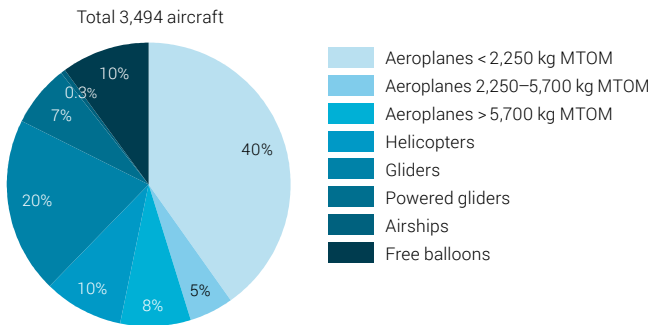
¹ Maximum Take Off Mass

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Swiss aircraft register 2015

G 2.1



MTOM (Maximum Take Off Mass)

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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3 Employment

Swiss companies

T 3.1

Companies	2010	2011	2012	2013	2014	2015
Total companies with scheduled traffic	9	8	8	8	8	9
Other companies with commercial traffic	81	77	70	70	68	67
Total maintenance companies	90	90	89	91	85	84
Total flying schools	142	137	142	142	138	140

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Flight personnel (licences)

T 3.2

Type of licence	2010	2011	2012	2013	2014	2015
Private pilots	5581	5565	5604	5146	4904	4872
Commercial pilots	952	947	1136	1133	1107	1050
Airline transport pilots	2266	2201	2362	2470	2478	2571
Multi-Crew pilots	46	63	84	69	94	87
Helicopter pilots ¹	1168	1208	1003	976	1025	1043
Glider pilots	2617	2324	2116	1832	1729	1715
Free balloon pilots	340	346	334	303	278	255
Validations	8	26	25	11	15	11
Flight engineers	2	1	1	1	3	2
Radio navigators	10	7	4	2	4	4

¹ Including Air Transport Pilot License ATPL (H)

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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4 Aircraft movements

Scheduled and charter traffic

T4.1

Airport	Movements					
	2010	2011	2012	2013	2014	2015
Total airports	416 111	450 690	455 422	447 737	454 837	460 978
Total national airports	404 921	434 493	435 147	429 911	440 135	445 349
Zurich	227 815	238 569	233 064	228 314	230 652	231 095
Geneva	123 173	133 755	140 329	138 503	143 265	146 440
Basel-Mulhouse	53 933	62 169	61 754	63 094	66 218	67 814
Total regional airports	11 190	16 197	20 275	17 826	14 702	15 629
Bern-Belp	3 486	7 185	11 211	10 559	7 981	7 928
Lugano-Agno	5 479	5 412	5 364	4 830	4 576	5 397
Sion	92	557	550	446	475	572
St.Gallen-Altenrhein	2 133	3 043	3 150	1 991	1 670	1 732

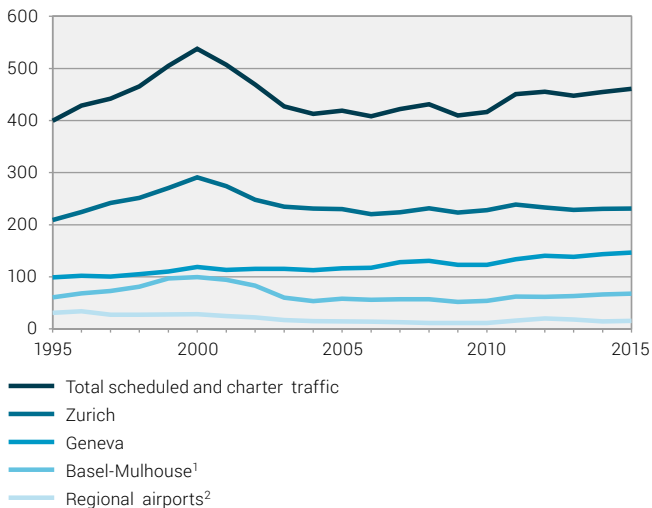
Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Aircraft movements

G 4.1

Movements, in 1000



¹ Swiss and French traffic

² Regional airports with scheduled and charter traffic

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Total airport movements 2015

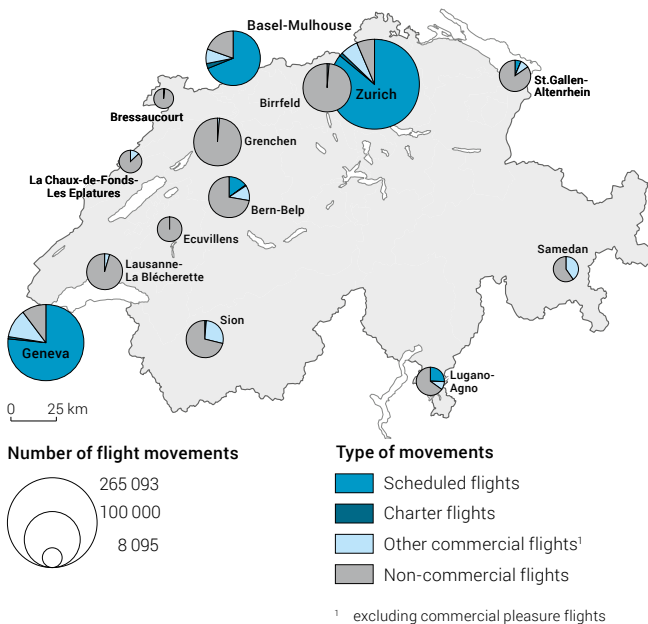
T4.2

Airport	Movements			
	Commercial traffic		Non commercial traffic	Total
	Aeroplane	Helicopter		
Total airports and airfields	523 579	103 481	812 571	1 439 631
Total airfields	6 417	77 938	433 877	518 232
Total national airports	486 746	6 580	54 958	548 284
Zurich	246 961	1 032	17 100	265 093
Geneva	167 416	2 004	19 407	188 827
Basel-Mulhouse	72 369	3 544	18 451	94 364
Total regional airports	30 416	18 963	323 736	373 115
Bern Belp	10 928	3 163	36 703	50 794
Lugano-Agno	7 226	199	13 837	21 262
Sion	3 394	8 435	29 187	41 016
St.Gallen-Altenrhein	4 144	43	23 114	27 301
Birrfield	992	0	71 815	72 807
Bressaucourt	54	76	7 965	8 095
Ecuvillens	2	0	15 199	15 201
Grenchen	731	246	69 893	70 870
La Chaux-de-Fonds- Les Eplatures	1 253	305	10 383	11 941
Lausanne- La Blécherette	154	1 579	36 088	37 821
Samedan	1 538	4 917	9 552	16 007

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Take-offs and landings in civil aviation, 2015



Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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5 Traffic performance

Total passengers: scheduled and charter traffic

T 5.1

Airport	2010	2011	2012
Total airports	39 009 046	42 773 339	44 444 210
Zurich	22 854 358	24 313 250	24 789 083
Geneva	11 748 972	13 003 611	13 785 309
Basel-Mulhouse	4 087 931	5 020 987	5 322 516
Bern-Belp	85 981	169 288	258 543
Lugano-Agno	159 497	165 054	167 371
Sion	3 912	6 315	5 678
St.Gallen-Altenrhein	68 395	94 834	115 710

Airport	2013	2014	2015
Total airports	45 501 533	47 406 431	49 392 700
Zurich	24 853 679	25 451 017	26 251 507
Geneva	14 328 107	15 057 335	15 682 128
Basel-Mulhouse	5 843 927	6 498 654	7 028 970
Bern-Belp	244 699	177 539	175 024
Lugano-Agno	142 570	135 530	156 435
Sion	2 591	2 258	6 660
St.Gallen-Altenrhein	85 960	84 098	91 976

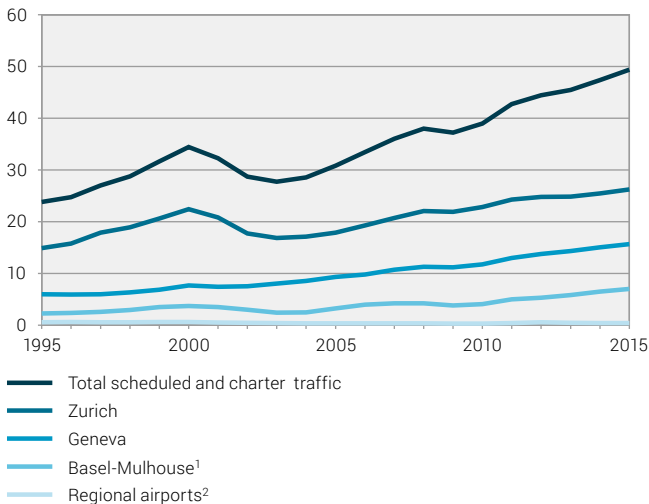
Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Number of passengers per airport

G 5.1

Passengers arriving and departing, in millions



¹ Swiss and French traffic

² Regional airports with scheduled and charter traffic

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Destinations of departing passengers: scheduled and charter traffic 2015

T 5.2

Continent	Zurich	Geneva	Basel-Mulhouse	Total
Total	13 349 562	7 853 196	3 511 823	24 714 581
Europe	9 611 601	6 745 346	3 200 276	19 557 223
Africa	410 654	237 153	141 533	789 340
Asia	1 708 647	491 789	71 922	2 272 358
Oceania	80 625	4 619	862	86 106
North America	1 258 828	327 800	79 915	1 666 543
Central America	97 285	7 428	8 449	113 162
South America	181 922	39 061	8 866	229 849

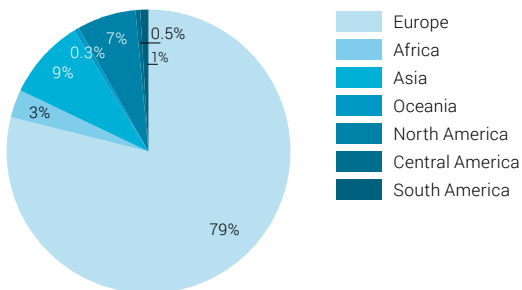
Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Passenger traffic flows by continent of destination, 2015

G 5.2

Total passengers: 24,714,581



Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Passenger-kilometres performed: scheduled and charter traffic

T 5.3

Airport	Scheduled traffic: Passenger-km performed, in millions			Charter traffic: Passenger-km performed, in millions		
	2014	2015	Change	2014	2015	Change
Total	82 756	86 196	4%	1 497	1 305	-13%
Zurich	57 818	60 112	4%	772	740	-4%
Geneva	18 271	18 826	3%	340	163	-52%
Basel-Mulhouse	6 498	7 082	9%	350	366	5%
Bern-Belp	110	112	2%	34	32	-6%
Lugano-Agno	15	16	7%	0	0	0%
Sion	0	0	0%	1	4	300%
St.Gallen Altenrhein	44	48	9%	0	0	0%

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Seat load factor by continent: scheduled and charter traffic

T 5.4

Continent	Passenger-km Performed, in millions		Offered, in millions		Factor	
	2014	2015	2014	2015	2014	2015
Total	84 253	87 501	105 779	110 553	80%	79%
Europe	36 429	38 185	46 433	48 285	78%	79%
Africa	4 434	4 125	5 471	5 201	81%	79%
Asia	23 457	25 078	29 816	32 112	79%	78%
Oceania	0	0	0	0	–	–
North America	17 987	17 986	21 897	22 526	82%	80%
Central America	409	560	483	673	85%	83%
South America	1 537	1 567	1 679	1 756	92%	89%

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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6 Energy and emissions

Fuel consumption and gaseous emissions

T 6.1

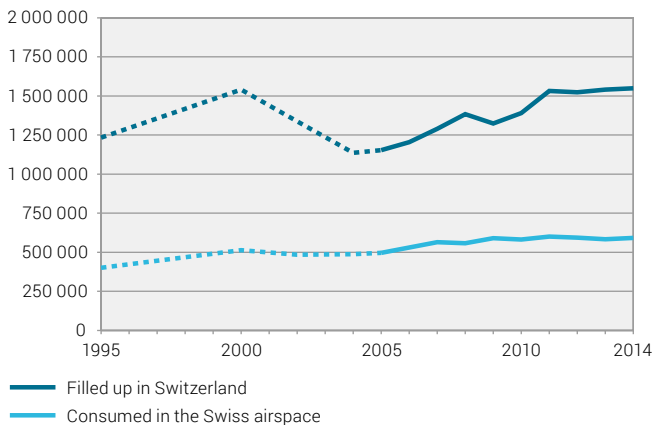
	1990	2000	2010	2013	2014
Fuel consumption [t]					
Filled up in Switzerland	1 054 448	1 540 307	1 390 824	1 539 963	1 549 228
Consumed in the Swiss airspace	–	513 678	580 808	582 264	590 830
Gaseous emissions [t]					
CO ₂	3 321 512	4 851 967	4 377 758	4 843 122	4 872 262
NO _x	12 549	18 470	17 635	19 900	19 913
CO	7 183	8 782	6 701	6 921	6 964
HC	991	905	734	805	807

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Fuel consumption (t)

G 6.1



Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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7 Accidents

Accidents and serious incidents of Swiss registered aircraft at home and abroad

T 7.1

Accidents and serious incidents	2010	2011	2012	2013	2014	2015
Total	45	58	65	64	59	75

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Fatalities in Swiss registered aircraft at home and abroad

T 7.2

Fatalities	2010	2011	2012	2013	2014	2015
Total	8	13	22	15	8	12
Total aeroplanes	5	8	13	4	2	7
up to 2,250 kg MTOM	5	2	9	4	2	7
over 2,250 up to 5,700 kg MTOM	0	6	4	0	0	0
over 5,700 kg MTOM	0	0	0	0	0	0
Helicopters	0	3	4	8	5	1
Powered gliders and gliders	3	1	5	2	1	4
Free balloons and airships	0	1	0	1	0	0

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Severely injured persons by Swiss registered aircraft at home and abroad

T 7.3

Severely injured persons	2010	2011	2012	2013	2014	2015
Total	7	12	6	14	14	7
Total aeroplanes	3	0	4	2	9	4
up to 2,250 kg MTOM	1	0	4	2	9	4
over 2,250 up to 5,700 kg MTOM	2	0	0	0	0	0
over 5,700 kg MTOM	0	0	0	0	0	0
Helicopters	4	8	2	6	4	3
Powered gliders and gliders	0	4	0	1	0	0
Free balloons and airships	0	0	0	5	1	0

Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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