



11

Mobility and Transport

409-1400

Swiss civil aviation 2014



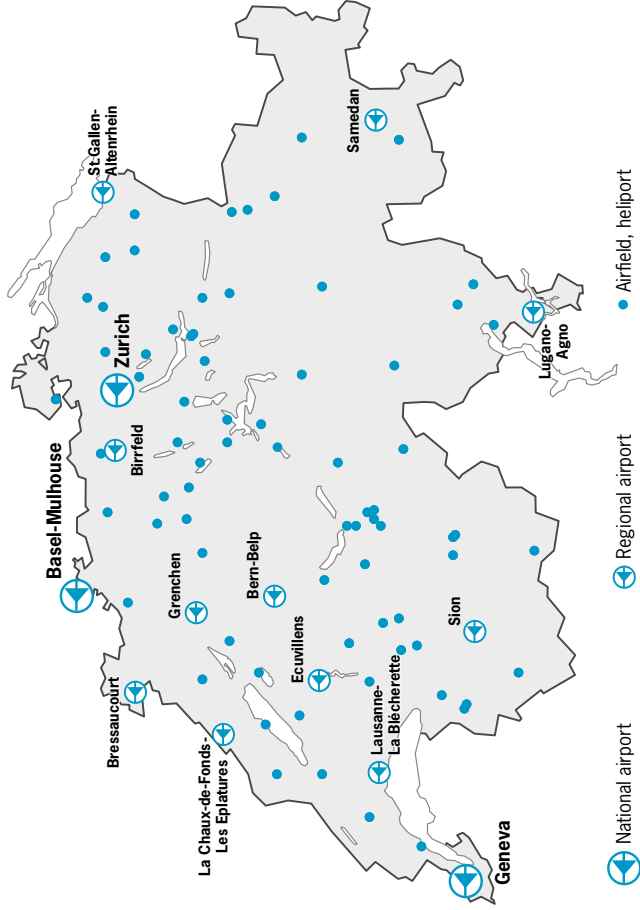
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Neuchâtel 2015



1. Aerodrome infrastructure

F1 Swiss aerodromes: overview 2014

Aerodrome	Foundation	Longest runway m	Concrete runway numbers	Instrument Flight Rules (IFR)
	Year			Procedures (y/n)
Zurich	1948	3,700	3	y
Geneva	1922	3,900	1	y
Basel-Mulhouse	1946	3,900	2	y
Total national airports			6	
Bern-Belp	1929	1,730	1	y
Lugano-Agno	1947	1,350	1	y
Sion	1935	2,000	1	y
St.Gallen-Altenrhein	1926	1,500	1	y
Birrfeld	1937	725	1	n
Bressaucourt	2011	800	1	n
Ecuwillens	1953	800	1	n
Grenchen	1931	1,000	1	y
La Chaux-de-Fonds-Les Eplatures	1912	1,130	1	y
Lausanne-La Blécherette	1910	875	1	n
Samedan	1937	1,800	1	n
Total regional airports			11	
Total airfields			16	
Total airports and airfields			33	

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

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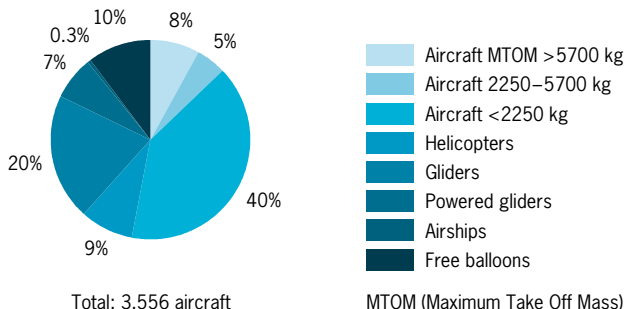
2. Aircraft

F2.1 Swiss aircraft register

Aircraft	2009	2010	2011	2012	2013	2014
Max. take-off mass						
> 5700 kg	293	303	299	294	290	284
2250–5700 kg	140	197	214	167	176	171
< 2250 kg	1,436	1,413	1,419	1,461	1,458	1,425
Total fixed-wing aircraft	1,869	1,913	1,932	1,922	1,924	1,880
Helicopters	320	327	334	326	312	321
Gliders	843	824	800	767	745	720
Powered gliders	246	251	254	255	255	258
Airships	10	9	10	10	11	11
Free balloons	397	381	379	377	373	366
Total aircraft	3,685	3,705	3,709	3,657	3,620	3,556

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

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

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3. Employment

F3.1 Swiss companies

Companies	2009	2010	2011	2012	2013	2014
Total companies with scheduled traffic	9	9	8	8	8	8
Other companies with commercial traffic	90	81	77	70	70	67
Total maintenance companies	90	90	90	89	91	85
Total flying schools	143	142	137	142	142	138

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

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F3.2 Flight personnel (licences)

Type of licence	2009	2010	2011	2012	2013	2014
Private pilots	5,586	5,581	5,565	5,604	5,146	4,904
Commercial pilots	940	952	947	1,136	1,133	1,107
Airline transport pilots	2,203	2,266	2,201	2,362	2,470	2,478
Multi-Crew pilots	17	46	63	84	69	94
Helicopter pilots*	1,135	1,168	1,208	1,003	976	1,025
Glider pilots	2,453	2,617	2,324	2,116	1,832	1,729
Free balloon pilots	360	340	346	334	303	278
Validations	11	8	26	25	11	15
Flight engineers	2	2	1	1	1	3
Radio navigators	12	10	7	4	2	4

* Including Air Transport Pilot License ATPL (H)

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

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4. Aircraft movements

F4.1 Scheduled and charter traffic

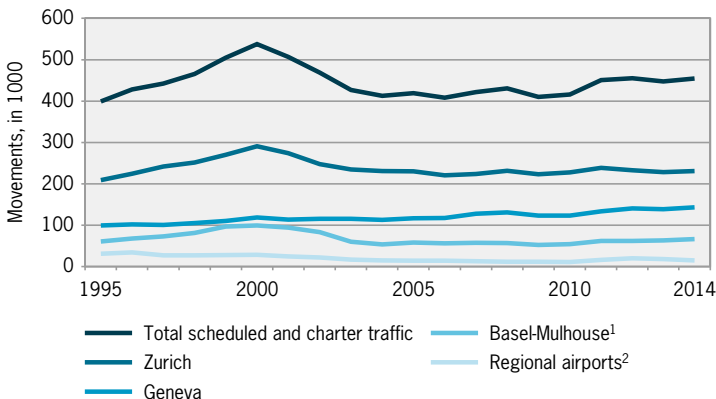
Airport	Movements					
	2009	2010	2011	2012	2013	2014
Zurich	223,333	227,815	238,569	233,064	228,314	230,652
Geneva	123,050	123,173	133,755	140,329	138,503	143,265
Basel-Mulhouse	52,013	53,933	62,169	61,754	63,094	66,218
Total national airports	398,396	404,921	434,493	435,147	429,911	440,135
Bern-Belp	3,449	3,486	7,185	11,211	10,559	7,981
Lugano-Agno	5,516	5,479	5,412	5,364	4,830	4,576
Sion	24	92	557	550	446	475
St.Gallen-Altenrhein	2,462	2,133	3,043	3,150	1,991	1,670
Total regional airports	11,451	11,190	16,197	20,275	17,826	14,702
Total airports	409,847	416,111	450,690	455,422	447,737	454,837

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

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Aircraft movements

G 4.1



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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F 4.2 Total airport movements 2014

Airport	Movements			
	Commercial traffic		Non commercial traffic	Total
	Aeroplane	Helicopter		
Zurich	246,156	1,084	17,701	264,941
Geneva	165,506	1,608	20,485	187,599
Basel-Mulhouse	70,841	3,323	15,305	89,469
Total national airports	482,503	6,015	53,491	542,009
Bern Belp	11,222	3,282	37,097	51,601
Lugano-Agno	6,293	204	14,065	20,562
Sion	3,168	8,167	28,606	39,941
St.Gallen-Altenrhein	4,173	52	25,551	29,776
Birrfeld	1,051	0	68,327	69,378
Bressaucourt	90	50	8,171	8,311
Ecuvillens	0	4	15,387	15,391
Grenchen	952	471	72,652	74,075
La Chaux-de-Fonds-Les Eplatures	1,308	248	10,387	11,943
Lausanne-La Blécherette	88 ^r	1,641 ^r	38,036 ^r	39,765 ^r
Samedan	1,423	4,973	7,888	14,284
Total regional airports	29,768^r	19,092^r	326,167^r	375,027^r
Total airfields	7,116	77,421	443,008	527,545
Total airports and airfields	519,387^r	102,528^r	822,666^r	1,444,581^r

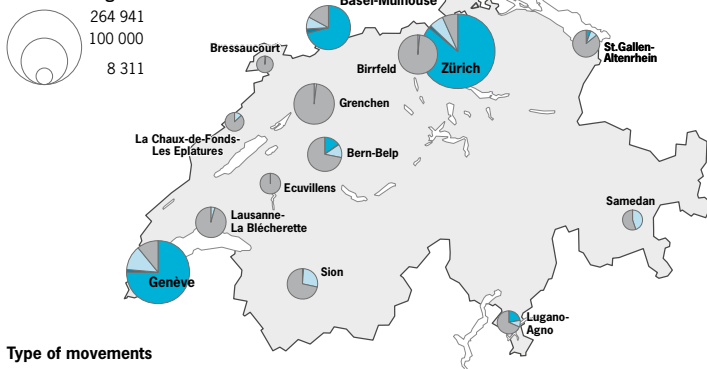
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Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Take-offs and landings in civil aviation 2014

Number of flight movements



*excluding commercial pleasure flights

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

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5. Traffic performance

F5.1 Total passengers: scheduled and charter traffic

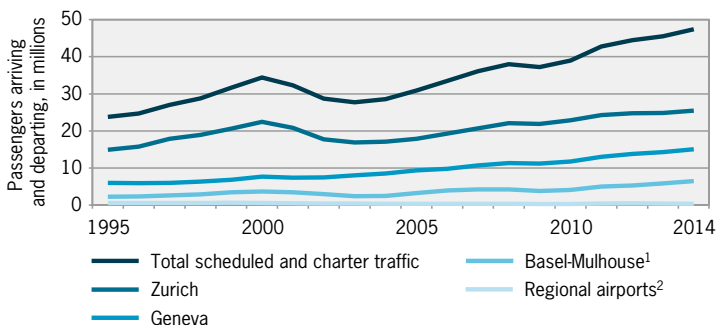
Airport	2009	2010	2011	2012	2013	2014
Zurich	21,914,287	22,854,358	24,313,250	24,789,083	24,853,679	25,451,017
Geneva	11,175,056	11,748,972	13,003,611	13,785,309	14,328,107	15,057,335
Basel-Mulhouse	3,818,984	4,087,931	5,020,987	5,322,516	5,843,927	6,498,654
Bern-Belp	95,077	85,981	169,288	258,543	244,699	177,539
Lugano-Agno	157,005	159,497	165,054	167,371	142,570	135,530
Sion	1,339	3,912	6,315	5,678	2,591	2,258
St.Gallen-Altenrhein	73,279	68,395	94,834	115,710	85,960	84,098
Total airports	37,235,027	39,009,046	42,773,339	44,444,210	45,501,533	47,406,431

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

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Number of passengers per airport

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¹ Swiss and French traffic

² Regional airports with scheduled and charter traffic

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

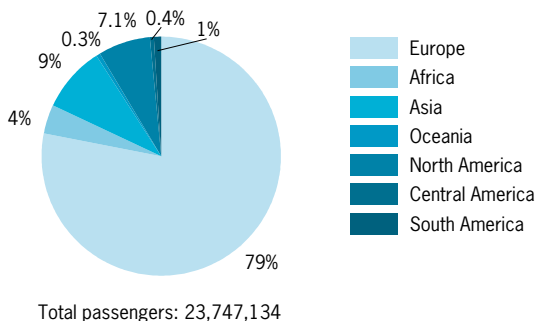
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F5.2 Destinations of departing passengers: scheduled and charter traffic 2014

Destination Continent	Origin			
	Zurich	Geneva	Basel-Mulhouse	Total
Europe	9,295,924	6,421,427	2,935,256	18,652,607
Africa	441,699	237,130	154,872	833,701
Asia	1,595,637	492,895	69,677	2,158,209
Oceania	76,397	4,935	1,058	82,390
North America	1,261,701	348,755	81,386	1,691,842
Central America	83,891	6,762	7,783	98,436
South America	178,713	41,801	9,435	229,949
Total	12,933,962	7,553,705	3,259,467	23,747,134

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

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

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F5.3 Passenger-kilometres performed: scheduled and charter traffic

Airport	Scheduled traffic:			Charter traffic:		
	Passenger-km performed, in millions			Passenger-km performed, in millions		
	2013	2014	Change (%)	2013	2014	Change (%)
Zurich	56,542	57,818	2	678	772	14
Geneva	17,296	18,271	6	417	340	-18
Basel-Mulhouse	5,754	6,498	13	414	350	-15
Bern-Belp	173	110	-36	30	34	13
Lugano-Agno	18	15	-17	0	0	0
Sion	0	0	0	1	1	0
St.Gallen-Altenrhein	45	44	-2	0	0	0
Total	79,827	82,756	4	1,541	1,497	-3

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

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F5.4 Seat load factor by continent: scheduled and charter traffic

Continent	Passenger-km				Factor	
	Performed, in millions		Offered, in millions		%	
	2013	2014	2013	2014	2013	2014
Europe	34,292	36,429	44,158	46,433	78	78
Africa	4,653	4,434	5,806	5,471	80	81
Asia	22,648	23,457	28,349	29,816	80	79
Oceania	0	0	0	0		
North America	17,956	17,987	21,403	21,897	84	82
Central America	376	409	468	483	80	85
South America	1,443	1,537	1,540	1,679	94	92
Total	81,368	84,253	101,723	105,779	80	80

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

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6. Energy and emissions

F6.1 Fuel consumption and gaseous emissions

Fuel consumption [t]	1990	2000	2010	2012	2013
Filled up in Switzerland	1,054,448	1,540,307	1,390,824	1,523,116	1,539,963
Consumed in the Swiss airspace		513,678	580,808	592,820	582,264
Gaseous emissions [t]	1990	2000	2010	2012	2013
CO ₂	3,321,512	4,851,967	4,377,758	4,794,534	4,843,122
NO _x	12,549	18,470	17,635	19,595	19,900
CO	7,183	8,782	6,701	7,097	6,921
HC	991	905	734	806	805

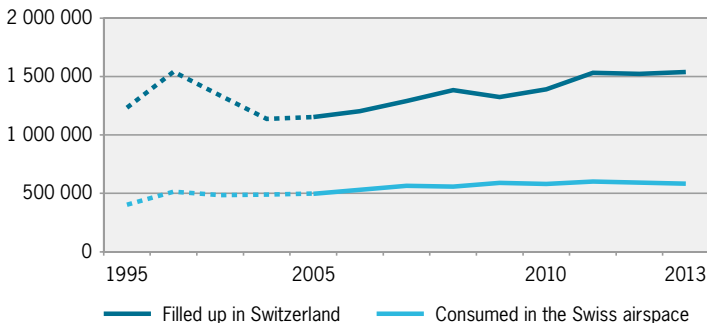
The calculation is based on the fuel quantity actually filled up in Switzerland

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

F7.1 Accidents and serious incidents of Swiss registered aircraft at home and abroad

Accidents and serious incidents	2009	2010	2011	2012	2013	2014
Total	47	45	58	65	64	59

Source: FSO, STSB – Aviation accident statistics

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F7.2 Fatalities in Swiss registered aircraft at home and abroad

Fatalities	2009	2010	2011	2012	2013	2014
Total aeroplanes	2	5	8	13	4	2
– up to 2250 kg MTOM	2	5	2	9	4	2
– over 2250 up to 5700 kg MTOM	0	0	6	4	0	0
– over 5700 kg MTOM	0	0	0	0	0	0
Helicopters	2	0	3	4	8	5
Powered gliders and gliders	1	3	1	5	2	1
Free balloons and airships	0	0	1	0	1	0
Total	5	8	13	22	15	8

Source: FSO, STSB – Aviation accident statistics

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F7.3 Severely injured persons by Swiss registered aircraft at home and abroad

Severely injured persons	2009	2010	2011	2012	2013	2014
Total aeroplanes	4	3	0	4	2	9
– up to 2250 kg MTOM	4	1	0	4	2	9
– over 2250 up to 5700 kg MTOM	0	2	0	0	0	0
– over 5700 kg MTOM	0	0	0	0	0	0
Helicopters	2	4	8	2	6	4
Powered gliders and gliders	2	0	4	0	1	0
Free balloons and airships	0	0	0	0	5	1
Total	8	7	12	6	14	14

Source: FSO, STSB – Aviation accident statistics

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