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Mobility and Transport

409-1300

Swiss civil aviation 2013



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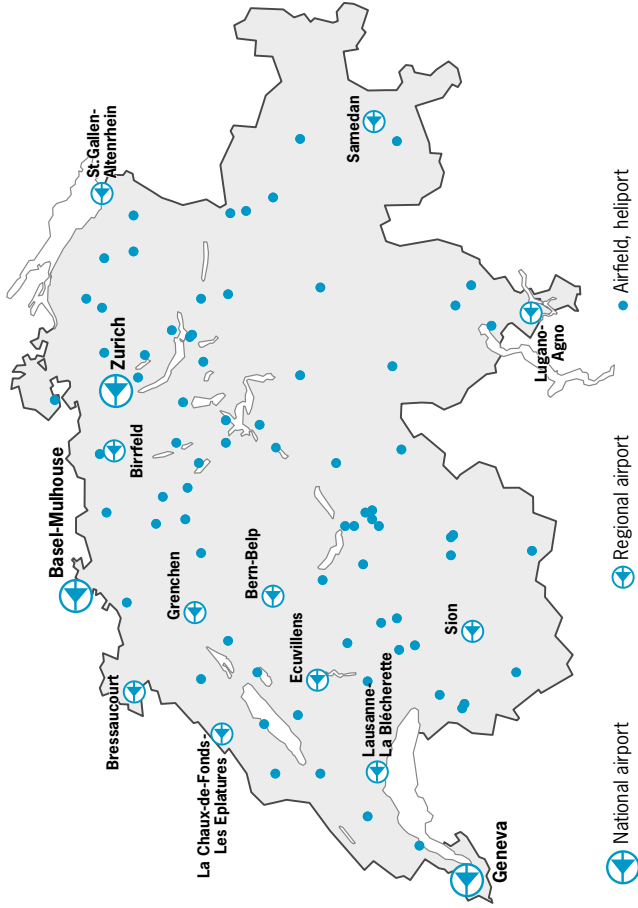
Swiss Confederation

Federal Statistical Office FSO

Federal Office of Civil Aviation FOCA

Neuchâtel, 2014

Civil aviation 2013



1. Aerodrome infrastructure

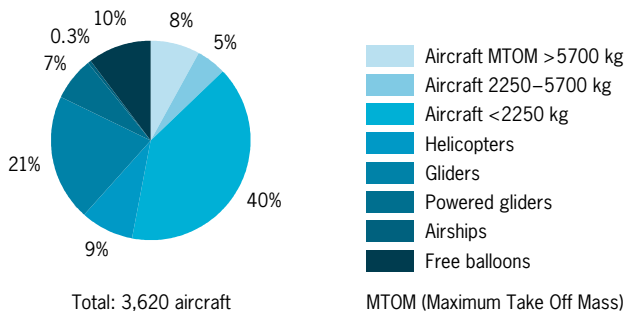
F1 Swiss aerodromes: overview 2013

Aerodrome	Foundation	Longest runway m	Concrete runway numbers	Instrument Flight Rules (IFR) Procedures (y/n)
	Year			
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
Ecuvillens	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	

2. Aircraft

F2.1 Swiss aircraft register

Aircraft	2008	2009	2010	2011	2012	2013
Max. take-off mass						
> 5700 kg	285	293	303	299	294	290
2250–5700 kg	147	140	197	214	167	176
< 2250 kg	1,468	1,436	1,413	1,419	1,461	1,458
Total fixed-wing aircraft	1,900	1,869	1,913	1,932	1,922	1,924
Helicopters	307	320	327	334	326	312
Gliders	875	843	824	800	767	745
Powered gliders	246	246	251	254	255	255
Airships	10	10	9	10	10	11
Free balloons	427	397	381	379	377	373
Total aircraft	3,765	3,685	3,705	3,709	3,657	3,620



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

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3. Employment

F3.1 Swiss companies

Companies	2008	2009	2010	2011	2012	2013
Total companies with scheduled traffic	8	9	9	8	8	8
Other companies with commercial traffic	93	90	81	77	70	70
Total maintenance companies	91	90	90	90	89	91
Total flying schools	162	143	142	137	142	142

F3.2 Flying personnel (licences)

Type of licence	2008	2009	2010	2011	2012	2013
Private pilots	5,431	5,586	5,581	5,565	5,604	5,146
Commercial pilots	916	940	952	947	1,136	1,133
Airline transport pilots	2,133	2,203	2,266	2,201	2,362	2,470
Multi-Crew pilots		17	46	63	84	69
Helicopter pilots*	1,063	1,135	1,168	1,208	1,003	976
Glider pilots	2,616	2,453	2,617	2,324	2,116	1,832
Free balloon pilots	382	360	340	346	334	303
Validations	12	11	8	26	25	11
Flight engineers	2	2	2	1	1	1
Radio navigators	18	12	10	7	4	2

* Including Air Transport Pilot License ATPL (H)

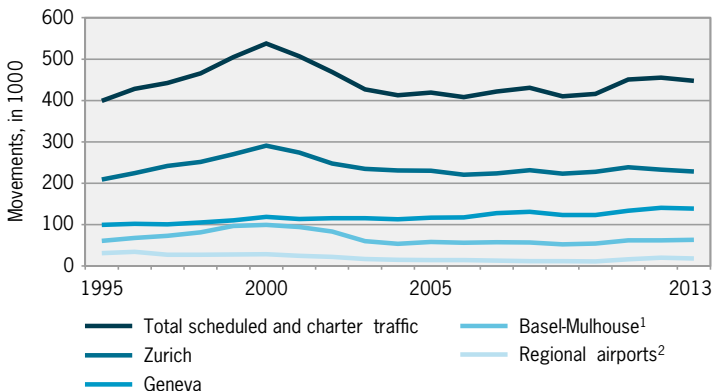
4. Aircraft movements

F4.1 Scheduled and charter traffic

Airport	Movements					
	2008	2009	2010	2011	2012	2013
Zurich	231,754	223,333	227,815	238,569	233,064	228,314
Geneva	130,852	123,050	123,173	133,755	140,329	138,503
Basel-Mulhouse	56,868	52,013	53,933	62,169	61,754	63,094
Total national airports	419,474	398,396	404,921	434,493	435,147	429,911
Bern-Belp	3,241	3,449	3,486	7,185	11,211	10,559
Lugano-Agno	5,541	5,516	5,479	5,412	5,364	4,830
Sion	102	24	92	557	550	446
St.Gallen-Altenrhein	2,585	2,462	2,133	3,043	3,150	1,991
Total regional airports	11,469	11,451	11,190	16,197	20,275	17,826
Total airports	430,943	409,847	416,111	450,690	455,422	447,737

Aircraft movements

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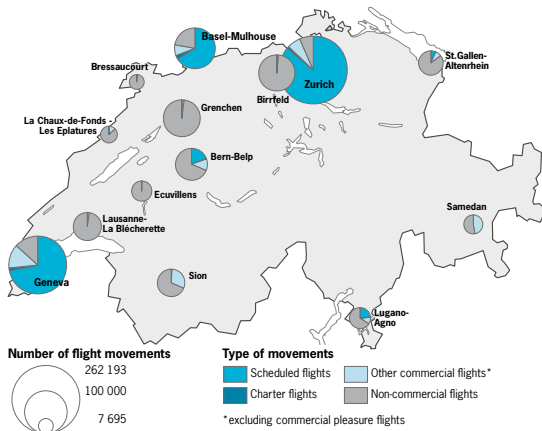
¹ Swiss and French traffic

² Regional airports with scheduled and charter traffic

F4.2 Total airport movements 2013

Airport	Movements			
	Commercial traffic		Non commercial traffic	Total
	Aeroplane	Helicopter		
Zurich	243,976	1,022	17,195	262,193
Geneva	161,009	2,760	24,998	188,767
Basel-Mulhouse	67,815	3,086	20,252	91,153
Total national airports	472,800	6,868	62,445	542,113
Bern Belp	13,616	3,288	36,877	53,781
Lugano-Agno	6,523	394	13,341	20,258
Sion	3,376	8,636	26,192	38,204
St.Gallen-Altenrhein	4,292	61	24,949	29,302
Birrfeld	926	0	69,297	70,223
Bressaucourt	50	32	7,613	7,695
Ecuwillens	0	0	18,392	18,392
Grenchen	1,038	458	71,835	73,331
La Chaux-de-Fonds-Les Eplatures	1,009	451	9,622	11,082
Lausanne-La Blécherette	90	852	39,436	40,378
Samedan	1,913	5,547	8,335	15,795
Total regional airports	32,833	19,719	325,889	378,441
Total airfields	6,919	65,581	414,176	486,676
Total airports and airfields	512,552	92,168	802,510	1,407,230

Take-offs and landings in civil aviation 2013



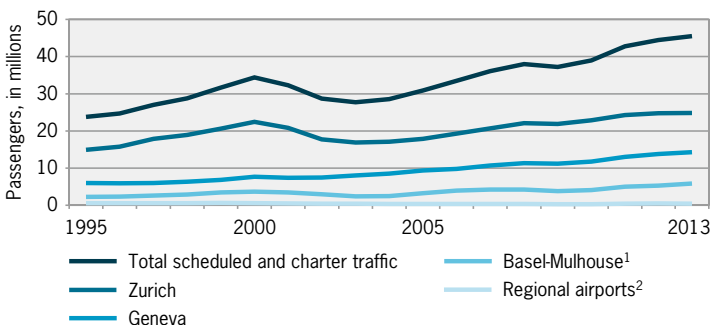
5. Traffic performance

F5.1 Total passengers: scheduled and charter traffic

Airport	2008	2009	2010	2011	2012	2013
Zurich	22,075,378	21,914,287	22,854,358	24,313,250	24,789,083	24,853,679
Geneva	11,316,567	11,175,056	11,748,972	13,003,611	13,785,309	14,328,107
Basel-Mulhouse	4,234,874	3,818,984	4,087,931	5,020,987	5,322,516	5,843,927
Bern-Belp	91,983	95,077	85,981	169,288	258,543	244,699
Lugano-Agno	180,316	157,005	159,497	165,054	167,371	142,570
Sion	5,590	1,339	3,912	6,315	5,678	2,591
St.Gallen-Altenrhein	91,136	73,279	68,395	94,834	115,710	85,960
Total airports	37,995,844	37,235,027	39,009,046	42,773,339	44,444,210	45,501,533

Number of passengers to airport

G 5.1



¹ Swiss and French traffic

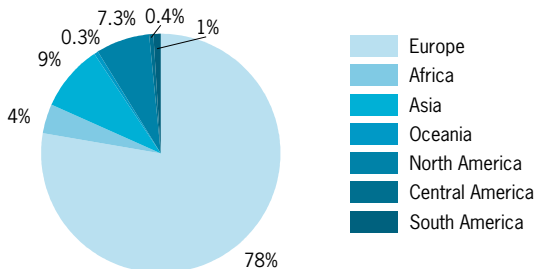
² Regional airports with scheduled and charter traffic

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

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F5.2 Destinations of departing passengers: scheduled and charter traffic 2013

Destination Continent	Origin			
	Zurich	Geneva	Basel-Mulhouse	Total
Europe	9,102,217	6,074,561	2,610,229	17,787,007
Africa	445,090	244,141	163,402	852,633
Asia	1,557,487	462,842	70,307	2,090,636
Oceania	70,035	5,180	1,084	76,299
North America	1,249,722	342,155	77,025	1,668,902
Central America	74,523	6,585	9,900	91,008
South America	172,711	40,361	10,142	223,214
Total	12,671,785	7,175,825	2,942,089	22,789,699



Total passengers: 22,789,699

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

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

Airport	Scheduled traffic: Passenger-km performed, in millions			Charter traffic: Passenger-km performed, in millions		
	2012	2013	%	2012	2013	%
	Zurich	54,757	56,542	3	955	678
Geneva	16,469	17,296	5	364	417	15
Basel-Mulhouse	4,993	5,754	15	744	414	-44
Bern-Belp	180	173	-4	30	30	0
Lugano-Agno	26	18	-31	0	0	0
Sion	2	0	-100	2	1	-50
St.Gallen-Altenrhein	59	45	-24	1	0	-100
Total	76,486	79,827	4	2,096	1,541	-26

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

Continent	Passenger-km				Factor	
	Performed, in millions		Offered, in millions		%	
	2012	2013	2012	2013	2012	2013
Europe	32,912	34,292	43,265	44,158	76	78
Africa	5,322	4,653	6,589	5,806	81	80
Asia	21,253	22,648	27,303	28,349	78	80
Oceania	0	0	0	0		
North America	17,251	17,956	20,917	21,403	82	84
Central America	401	376	500	468	80	80
South America	1,442	1,443	1,545	1,540	93	94
Total	78,582	81,368	100,120	101,723	78	80

6. Energy and emissions

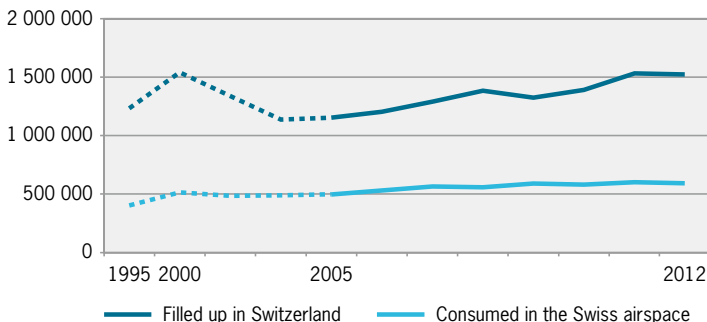
F6.1 Fuel consumption and gaseous emissions

Fuel consumption [t]	1990	2000	2010	2011	2012
Filled up in Switzerland	1,054,448	1,540,307	1,390,824	1,531,805	1,523,116
Consumed in the Swiss airspace		513,678	580,808	600,634	592,820
Gaseous emissions [t]	1990	2000	2010	2011	2012
CO ₂	3,321,512	4,851,967	4,377,758	4,821,884	4,794,534
NO _x	12,549	18,470	17,635	19,399	19,595
CO	7,183	8,782	6,701	7,347	7,097
HC	991	905	734	811	806

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

Fuel consumption (t)

G 6.1



7. Accidents

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

Accidents and serious incidents	2008	2009	2010	2011	2012	2013
Total	52	47	45	58	65	64

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

Fatalities	2008	2009	2010	2011	2012	2013
Total aeroplanes	4	2	5	8	13	4
– up to 2250 kg MTOM	4	2	5	2	9	4
– over 2250 up to 5700 kg MTOM	0	0	0	6	4	0
– over 5700 kg MTOM	0	0	0	0	0	0
Helicopters	0	2	0	3	4	8
Powered gliders and gliders	7	1	3	1	5	2
Free balloons and airships	0	0	0	1	0	1
Total	11	5	8	13	22	15

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

Severely injured persons	2008	2009	2010	2011	2012	2013
Total aeroplanes	3	4	3	0	4	2
– up to 2250 kg MTOM	3	4	1	0	4	2
– over 2250 up to 5700 kg MTOM	0	0	2	0	0	0
– over 5700 kg MTOM	0	0	0	0	0	0
Helicopters	3	2	4	8	2	6
Powered gliders and gliders	1	2	0	4	0	1
Free balloons and airships	3	0	0	0	0	5
Total	10	8	7	12	6	14

Rounding differences possible

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