

2018

11

Mobility and
transport

Neuchâtel 2019

Swiss civil aviation 2018



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1 Aerodrome infrastructure

Civil aerodromes: overview 2018

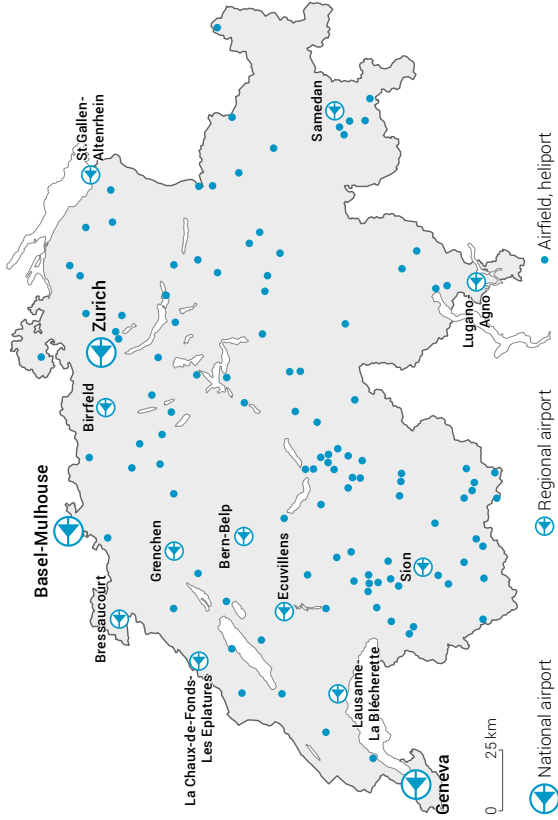
T1

	Foundation	Longest runway	Concrete surface runways	Instrument Flight Rules (IFR) Procedures (yes/no)
	Year	Metres	Number	
Total airports and airfields			33	
Total national airports			6	
Zurich	1948	3 700	3	yes
Geneva	1922	3 900	1	yes
Basel-Mulhouse	1946	3 900	2	yes
Total regional airports			11	
Bern-Belp	1929	1 730	1	yes
Lugano-Agno	1947	1 350	1	yes
Sion	1935	2 000	1	yes
St. Gallen-Altenrhein	1926	1 500	1	yes
Birrfeld	1937	725	1	no
Bressaucourt	2011	800	1	no
Ecuvillens	1953	800	1	no
Grenchen	1931	1 000	1	yes
La Chaux-de-Fonds- Les Eplatures	1912	1 130	1	yes
Lausanne- La Blécherette	1910	875	1	no
Samedan	1937	1 800	1	no
Total airfields			16	

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

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Civil aerodromes, 2018



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

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2 Aircraft

Registered aircraft

T2.1

	2000	2005	2010	2015	2017	2018
Total aircraft	4 048	3 841	3 705	3 494	3 333	3 284
Total aeroplanes	2 014	1 892	1 913	1 850	1 786	1 773
< 2 250 kg MTOM	1 572	1 502	1 413	1 397	1 358	1 349
2 250–5 700 kg MTOM	157	149	197	169	174	162
> 5 700 kg MTOM	285	241	303	284	254	262
Helicopters	254	285	327	326	335	335
Gliders	1 024	949	824	696	625	599
Powered gliders	246	254	251	253	249	245
Airships	6	9	9	11	9	9
Free balloons	504	452	381	358	329	323

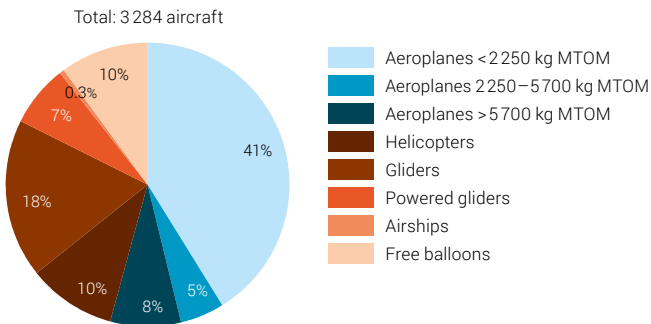
MTOM = Maximum Take Off Mass

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

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Registered aircraft, 2018

G2.1



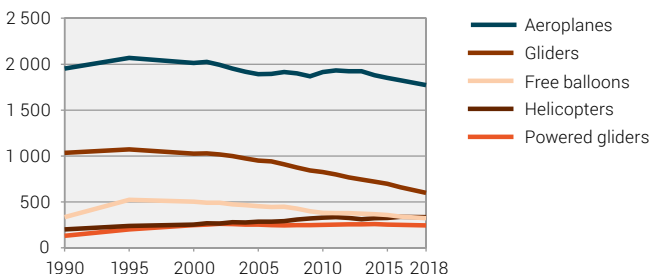
MTOM = Maximum Take Off Mass

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

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Registered aircraft

G2.2



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

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3 Employment

Swiss aviation companies

T3.1

	2000	2005	2010	2015	2017	2018
Total companies	420	355	322	299	282	267
Companies with scheduled traffic	5	5	9	9	8	5
Other companies with commercial traffic	172	109	81	66	53	38
Maintenance companies	94	87	90	84	84	83
Flying schools	149	154	142	140	137	141

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

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Flight personnel

Licence holders

T3.2

	2000	2005	2010	2015	2017	2018
Private pilots	6 792	5 928	5 581	4 872	4 695	4 536
Commercial pilots	1 421	1 000	952	1 050	1 050	1 062
Airline transport pilots	2 223	2 086	2 266	2 571	2 490	2 437
Multi-Crew pilots	0	0	46	87	52	27
Helicopter pilots ¹	1 036	1 082	1 168	1 043	1 036	1 060
Glider pilots	3 145	2 764	2 617	1 715	1 675	1 717
Free balloon pilots	449	428	340	255	242	227
Validations ²	420	38	8	11	10	8
Flight engineers	14	8	2	2	1	0
Radio navigators	30	27	10	4	6	5

¹ Including Air Transport Pilot Licence ATPL (H)

² Recognition of foreign licences (Validation)

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

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4 Aircraft movements

Aircraft movements: scheduled and charter traffic

Takeoffs and landings

T4.1

	2000	2005	2010	2015	2017	2018
Total airports	537 813	418 956	416 111	460 978	467 263	471 872
Total national airports	509 584	404 428	404 921	445 349	454 401	462 376
Zurich	291 044	229 982	227 815	231 095	236 418	244 430
Geneva	118 950	116 545	123 173	146 440	147 615	144 721
Basel-Mulhouse ¹	99 590	57 901	53 933	67 814	70 368	73 225
Total regional airports	28 229	14 528	11 190	15 629	12 862	9 496
Bern-Belp	12 489	4 128	3 486	7 928	5 832	4 003
Lugano-Agno	12 017	7 741	5 479	5 397	4 008	2 753
Sion	530	80	92	572	521	508
St. Gallen-Altenrhein	3 193	2 579	2 133	1 732	2 501	2 232

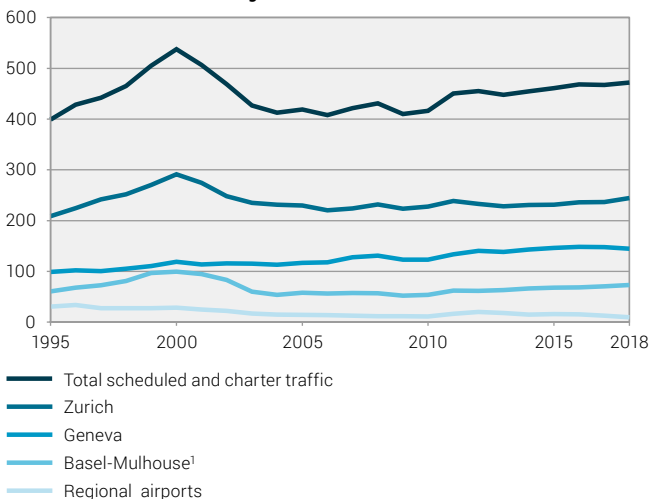
¹ Swiss and French traffic

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

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Aircraft movements: scheduled and charter traffic G4.1

Thousand takeoffs and landings



¹ Swiss and French traffic

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

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Total aircraft movements in civil aviation, 2018

Takeoffs and landings, including general aviation

T4.2

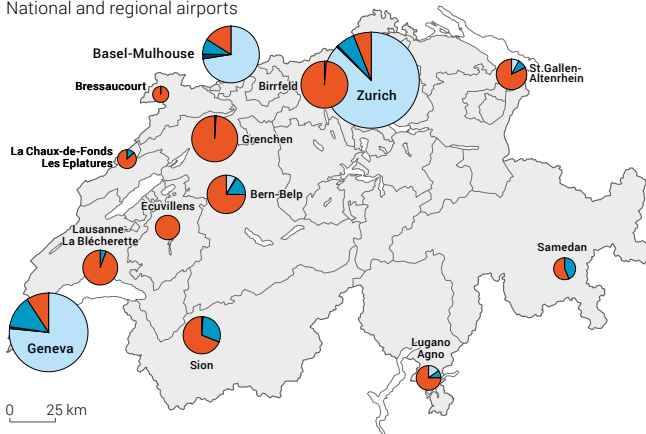
	Commercial flights		Non commercial flights	Total
	Aeroplane	Helicopter		
Total airports and airfields	537 801	111 872	759 151	1 408 824
Total national airports	506 448	6 843	49 504	562 795
Zurich	260 493	1 204	16 668	278 365
Geneva	167 680	2 235	17 247	187 162
Basel-Mulhouse	78 275	3 404	15 589	97 268
Total regional airports	25 137	19 938	305 228	350 303
Bern Belp	7 310	3 862	33 209	44 381
Lugano-Agno	4 486	100	13 720	18 306
Sion	4 241	8 754	28 919	41 914
St. Gallen-Altenrhein	4 915	60	23 084	28 059
Birrfield	850	0	65 604	66 454
Bressaucourt	10	20	7 721	7 751
Ecuvillens	0	0	17 910	17 910
Grenchen	400	247	63 100	63 747
La Chaux-de-Fonds- Les Eplatures	1 299	126	9 298	10 723
Lausanne- La Blécherette	240	1 787	34 488	36 515
Samedan	1 386	4 982	8 175	14 543
Total airfields	6 216	85 091	404 419	495 726

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

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Aircraft movements in civil aviation, 2018

National and regional airports



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

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5 Passengers

Air passengers: scheduled and charter traffic

Passengers¹ arriving and departing

T5.1

	2000	2005	2010
Total airports	34 426 801	30 860 051	39 009 046
Zurich	22 450 494	17 877 978	22 854 358
Geneva	7 677 763	9 360 621	11 748 972
Basel-Mulhouse ²	3 699 194	3 261 762	4 087 931
Bern-Belp	205 314	78 423	85 981
Lugano-Agno	286 507	181 453	159 497
Sion	8 760	4 843	3 912
St. Gallen-Altenrhein	98 769	94 971	68 395
	2015	2017	2018
Total airports	49 392 700	54 911 905	57 554 795
Zurich	26 251 507	29 361 201	31 069 873
Geneva	15 682 128	17 259 942	17 577 577
Basel-Mulhouse ²	7 028 970	7 868 537	8 559 352
Bern-Belp	175 024	167 566	137 042
Lugano-Agno	156 435	135 534	88 570
Sion	6 660	9 349	8 782
St. Gallen-Altenrhein	91 976	109 776	113 599

¹ Local and transfer passengers

² Swiss and French traffic

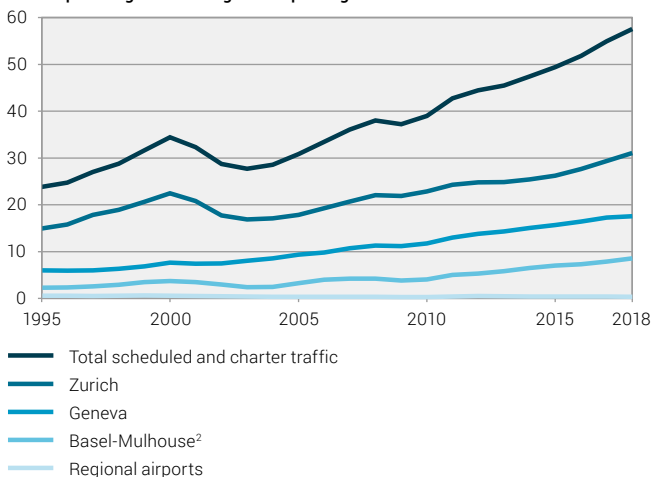
Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Air passengers: scheduled and charter traffic

G5.1

Million passengers¹ arriving and departing



¹ Local and transfer passengers

² Swiss and French traffic

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

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Air passengers by continent of true destination, 2018

Passengers¹ in scheduled and charter traffic

T5.2

	Europe	Africa	Asia	Oceania
Total airports	26 527 701	1 153 481	3 489 419	119 397
Zurich	13 887 430	655 175	2 725 594	99 488
Geneva	8 351 456	373 486	714 774	19 909
Basel-Mulhouse ²	4 122 001	124 254	46 595	0
Bern-Belp	68 128	0	0	0
Lugano-Agno	36 861	566	2 456	0
Sion	4 492	0	0	0
St. Gallen-Altenrhein	57 333	0	0	0
	North America	Central America	South America	Total all continents
Total airports	2 751 948	236 893	405 080	34 683 919
Zurich	2 237 156	208 076	333 341	20 146 260
Geneva	506 885	28 398	71 159	10 066 067
Basel-Mulhouse ²	3 549	116	0	4 296 515
Bern-Belp	0	0	0	68 128
Lugano-Agno	4 358	303	580	45 124
Sion	0	0	0	4 492
St. Gallen-Altenrhein	0	0	0	57 333

¹ Local and transfer passengers

² Swiss and French traffic

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

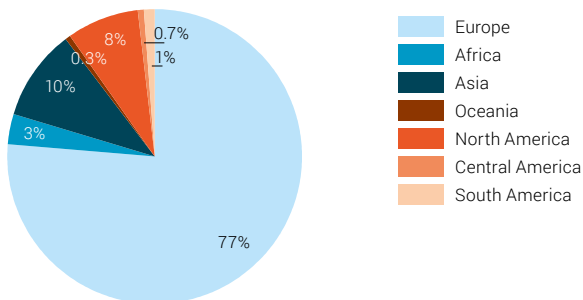
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Air passengers by continent of true destination, 2018

Passengers¹ in scheduled and charter traffic

G5.2

Total: 34.7 million passengers



¹ Local and transfer passengers

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

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Passenger-kilometres performed

Incoming and outgoing scheduled and charter traffic

T5.3

	Scheduled traffic: Passenger-km performed, in millions			Charter traffic: Passenger-km performed, in millions		
	2017	2018	Change	2017	2018	Change
Total	99 062	106 978	8%	738	1 156	57%
Zurich	70 024	76 426	9%	221	483	119%
Geneva	20 949	21 833	4%	151	130	-14%
Basel-Mulhouse ¹	7 916	8 565	8%	311	496	59%
Bern-Belp	94	77	-18%	50	42	-16%
Lugano-Agno	15	8	-47%	0	0	0%
Sion	1	2	100%	6	5	-17%
St. Gallen-Altenrhein	62	67	8%	0	0	0%

¹ Swiss and French traffic

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

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Passenger-kilometres and seat load factor by continent

Incoming and outgoing scheduled and charter traffic

T5.4

	Passenger-km performed, in millions		Passenger-km offered, in millions		Seat load factor	
	2017	2018	2017	2018	2017	2018
Total	99 800	108 134	125 161	134 613	80%	80%
Europe	42 256	44 335	52 721	54 668	80%	81%
Africa	4 347	5 296	5 326	6 570	82%	81%
Asia	29 867	31 559	37 966	40 619	79%	78%
Oceania ¹	0	0	0	0	*	*
North America	20 232	22 691	25 548	27 869	79%	81%
Central America	1 153	1 634	1 435	1 898	80%	86%
South America	1 945	2 619	2 164	2 989	90%	88%

¹ No direct flights from/to Switzerland

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

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6 Energy and Emissions

Fuel consumption and gaseous emissions of civil aviation

Including general aviation

T6.1

	2005	2010	2015	2017	2018
Fuel consumption (tonnes)					
Filled up in Switzerland	1 152 388	1 390 824	1 602 319	1 723 717	1 823 917
Consumed in the Swiss airspace	496 760	580 808	556 077	582 674	612 230
Gaseous emissions (tonnes)¹					
CO ₂	3 630 023	4 377 758	5 039 229	5 421 021	5 736 147
NO _x	13 952	17 635	21 228	25 751	28 076
CO	707	6 701	6 809	6 466	6 511
HC	6 483	734	835	795	812
BC	...	...	34	33	34
PM	...	...	47	46	46

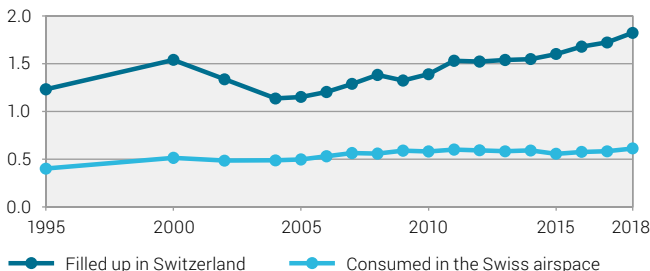
¹ International and domestic flights. The calculation is based on the fuel quantity actually filled up in Switzerland.

Fuel consumption of civil aviation

Including general aviation

G6.1

Million tonnes



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

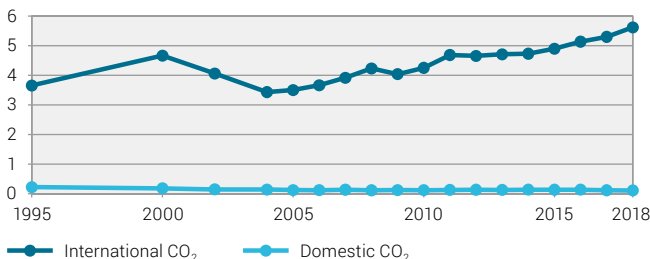
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CO₂ emissions in international and domestic civil aviation

Including general aviation

G6.2

Million tonnes



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

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7 Accidents

Accidents and serious incidents¹ of Swiss registered aircraft at home and abroad

T 7.1

	2000	2005	2010	2015	2017	2018
Total	80	71	45	75	79	99

¹ Serious incidents are events that have nearly resulted in an aviation accident such as the unintentional convergence of two aircraft with a high risk of collision (Airprox).

Source: STSB – Aviation accident statistics

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Fatalities in Swiss registered aircraft at home and abroad

T 7.2

	2000	2005	2010	2015	2017	2018
Total	51	15	8	12	18	38
Total aeroplanes	36	8	5	7	15	31
< 2 250 kg MTOM	4	7	5	7	10	11
2 250–5 700 kg MTOM	1	1	0	0	5	0
> 5 700 kg MTOM	31	0	0	0	0	20
Helicopters	12	6	0	1	1	5
Powered gliders and gliders	3	1	3	4	2	2
Free balloons and airships	0	0	0	0	0	0

MTOM = Maximum Take Off Mass

Source: STSB – Aviation accident statistics

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Severely injured persons¹ by Swiss registered aircraft at home and abroad

T7.3

	2000	2005	2010	2015	2017	2018
Total	23	1	7	7	11	3
Total aeroplanes	18	1	3	4	6	1
< 2 250 kg MTOM	5	0	1	4	6	1
2 250–5 700 kg MTOM	0	1	2	0	0	0
> 5 700 kg MTOM	13	0	0	0	0	0
Helicopters	3	0	4	3	5	1
Powered gliders and gliders	2	0	0	0	0	1
Free balloons and airships	0	0	0	0	0	0

¹ Severely injured persons whose treatment requires a hospital stay of more than 48 hours.
MTOM = Maximum Take Off Mass

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