

2019



11

Mobility and
transport

Neuchâtel 2020

Swiss civil aviation 2019



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1 Aviation infrastructure

Civil aerodromes: overview 2019

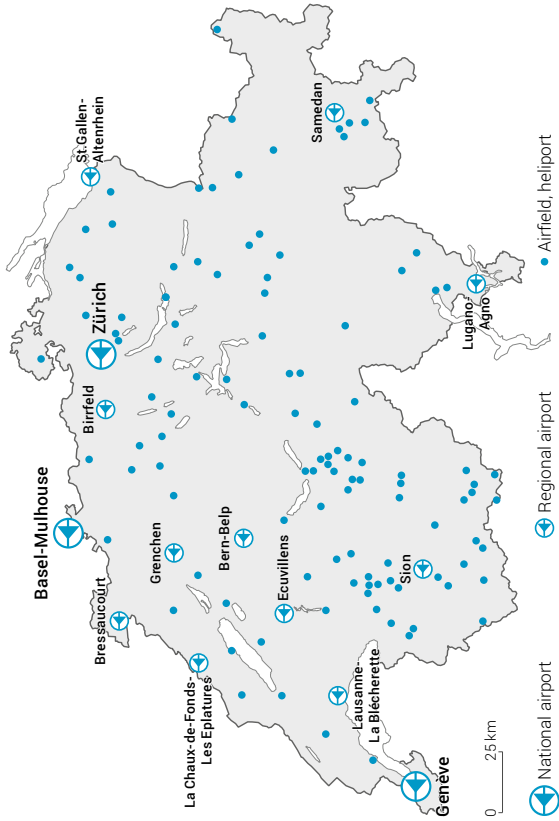
T1

	Foundation Year	Longest runway Metres	Paved runways (concrete/ asphalt) Number	Instrument Flight Rules (IFR) Procedures (yes/no)
Total airports and airfields with paved runways			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
Ecuwillens	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 with paved runways			16	

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

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Civil aerodromes, 2019



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

2 Aircraft

Registered aircraft

T.2.1

	2000	2005	2010	2015	2018	2019
Total aircraft	4 048	3 841	3 705	3 494	3 284	3 211
Total aeroplanes	2 014	1 892	1 913	1 850	1 773	1 730
< 2 250 kg MTOM	1 572	1 502	1 413	1 397	1 349	1 324
2 250–5 700 kg MTOM	157	149	197	169	162	146
> 5 700 kg MTOM	285	241	303	284	262	260
Helicopters	254	285	327	326	335	345
Gliders	1 024	949	824	696	599	579
Powered gliders	246	254	251	253	245	241
Airships	6	9	9	11	9	8
Free balloons	504	452	381	358	323	308

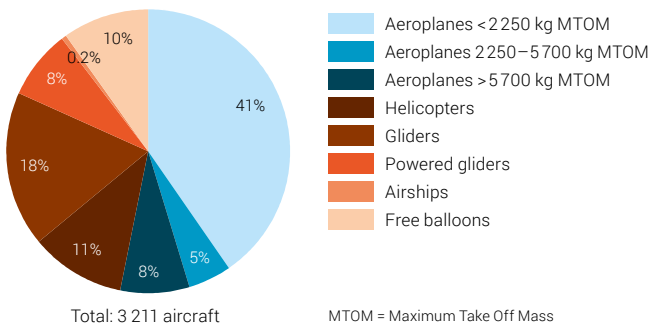
MTOM = Maximum Take Off Mass

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

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Registered aircraft, 2019

G2.1

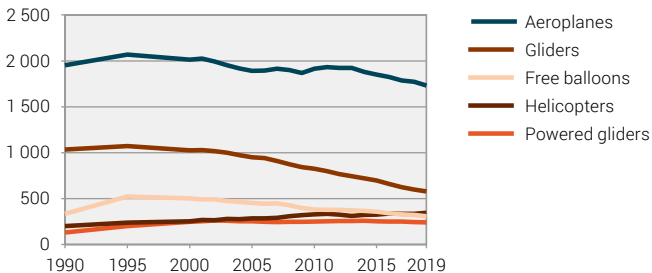


Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Registered aircraft

G2.2



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

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3 Companies and employment

Swiss aviation companies

T3.1

	2000	2005	2010	2015	2018	2019
Total companies	420	355	322	299	267	252
Companies with scheduled traffic	5	5	9	9	5	5
Other companies with commercial traffic	172	109	81	66	38	38
Maintenance companies	94	87	90	84	83	80
Flying schools	149	154	142	140	141	129

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

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Flight personnel

Licence holders

T3.2

	2000	2005	2010	2015	2018	2019
Private pilots	6 792	5 928	5 581	4 872	4 536	4 422
Commercial pilots	1 421	1 000	952	1 050	1 062	1 096
Airline transport pilots	2 223	2 086	2 266	2 571	2 437	2 508
Multi-Crew pilots	0	0	46	87	27	22
Helicopter pilots ¹	1 036	1 082	1 168	1 043	1 060	1 072
Glider pilots	3 145	2 764	2 617	1 715	1 717	1 761
Free balloon pilots	449	428	340	255	227	211
Validations ²	420	38	8	11	8	7
Flight engineers	14	8	2	2	0	0
Radio navigators	30	27	10	4	5	3

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	2018	2019
Total airports	537 813	418 956	416 111	460 978	471 872	469 667
Total national airports	509 584	404 428	404 921	445 349	462 376	465 030
Zurich	291 044	229 982	227 815	231 095	244 430	243 115
Geneva	118 950	116 545	123 173	146 440	144 721	145 527
Basel-Mulhouse ¹	99 590	57 901	53 933	67 814	73 225	76 388
Total regional airports	28 229	14 528	11 190	15 629	9 496	4 637
Bern-Belp	12 489	4 128	3 486	7 928	4 003	326
Lugano-Agno	12 017	7 741	5 479	5 397	2 753	2 107
Sion	530	80	92	572	508	129
St. Gallen-Altenrhein	3 193	2 579	2 133	1 732	2 232	2 075

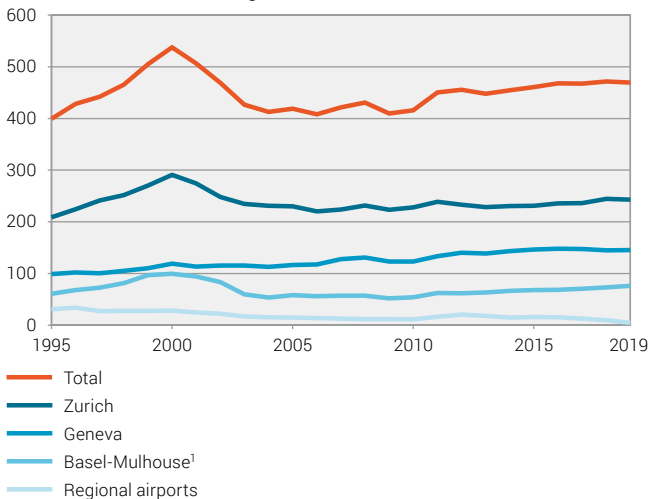
¹ Swiss and French traffic

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

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Aircraft movements: scheduled and charter traffic G 4.1

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, 2019

Takeoffs and landings, including general aviation

T4.2

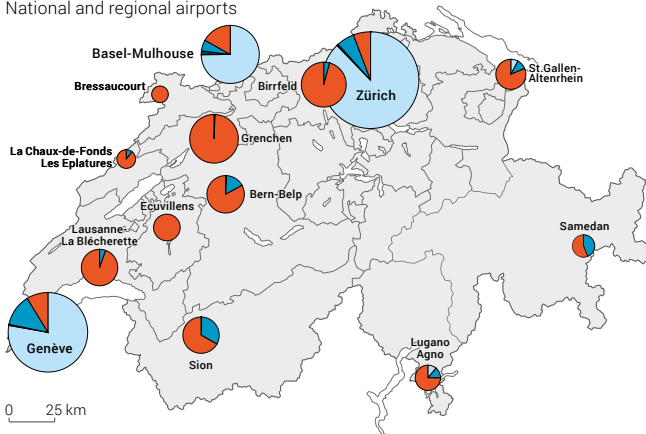
	Commercial flights		Non commercial flights	Total
	Aeroplane ²	Helicopter		
Total airports and airfields	534 187	114 332	741 498	1 390 017
Total national airports	507 677	4 151	48 810	560 638
Zurich	258 595	901	15 829	275 325
Geneva	167 573	2 250	16 220	186 043
Basel-Mulhouse ¹	81 509	1 000	16 761	99 270
Total regional airports	20 281	22 033	304 657	346 971
Bern-Belp	3 358	3 650	34 113	41 121
Lugano-Agno	3 724	1 003	14 067	18 794
Sion	4 387	8 463	25 958	38 808
St. Gallen-Altenrhein	4 833	105	21 558	26 496
Birrfield	716	1 795	56 767	59 278
Bressaucourt	5	4	8 123	8 132
Ecuvillens	1	0	20 793	20 794
Grenchen	285	240	69 026	69 551
La Chaux-de-Fonds- Les Eplatures	892	220	9 111	10 223
Lausanne- La Blécherette	454	1 684	36 909	39 047
Samedan	1 626	4 869	8 232	14 727
Total airfields	6 229	88 148	388 031	482 408

¹ Swiss and French traffic

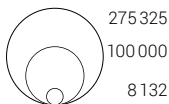
² powered planes (without powered glider)

Aircraft movements in civil aviation, 2019

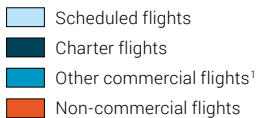
National and regional airports



Number of takeoffs and landings



Type of traffic



¹ excluding commercial pleasure flights

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	2018	2019
Total airports	49 392 700	57 554 795	58 561 919
Zurich	26 251 507	31 069 873	31 478 748
Geneva	15 682 128	17 577 577	17 826 513
Basel-Mulhouse ²	7 028 970	8 559 352	9 068 206
Bern-Belp	175 024	137 042	22 233
Lugano-Agno	156 435	88 570	56 201
Sion	6 660	8 782	2 381
St. Gallen-Altenrhein	91 976	113 599	107 637

¹ local and transfer passengers

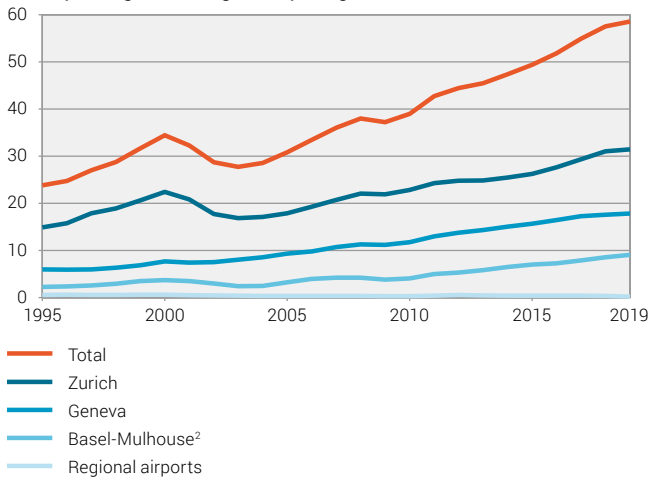
² Swiss and French traffic

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

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Air passengers: scheduled and charter traffic

G5.1

Million passengers¹ arriving and departing¹ local and transfer passengers² Swiss and French traffic

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

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Air passengers by continent of final destination, 2019

Passengers¹ in scheduled and charter traffic

T5.2

	Europe	Africa	Asia	Oceania
Total airports	22 920 452	1 082 036	2 915 945	133 794
Zurich	11 006 945	563 408	2 194 540	114 366
Geneva	7 469 036	377 202	676 317	19 428
Basel-Mulhouse ²	4 355 576	140 959	43 646	0
Bern-Belp	11 151	0	0	0
Lugano-Agno	22 076	467	1 441	0
Sion	1 204	0	1	0
St. Gallen-Altenrhein	54 464	0	0	0

	North America	Central America	South America	Total all continents
Total airports	2 085 531	196 460	351 254	29 685 472
Zurich	1 627 617	167 848	280 781	15 955 505
Geneva	449 281	28 357	70 021	9 089 642
Basel-Mulhouse ²	5 609	0	0	4 545 790
Bern-Belp	0	0	0	11 151
Lugano-Agno	3 024	255	452	27 715
Sion	0	0	0	1 205
St. Gallen-Altenrhein	0	0	0	54 464

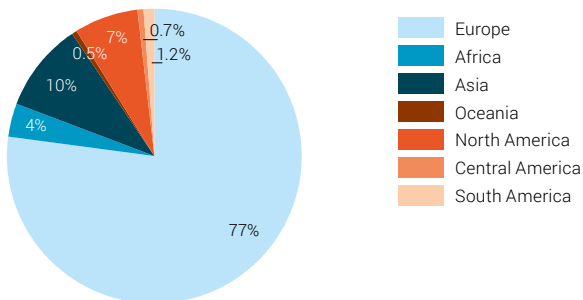
¹ local and transfer passengers

² Swiss and French traffic

Air passengers by continent of final destination, 2019

Local and transfer passengers in scheduled and charter traffic

G5.2



Total: 29.7 million passengers

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

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Transport performance by airport

Incoming and outgoing scheduled and charter traffic

T5.3

	Scheduled traffic: Passenger-km performed, in millions			Charter traffic: Passenger-km performed, in millions		
	2018	2019	Change	2018	2019	Change
Total	106 978	111 475	+4%	1 156	940	-19%
Zurich	76 426	79 743	+4%	483	379	-22%
Geneva	21 833	22 316	+2%	130	125	-4%
Basel-Mulhouse ¹	8 565	9 335	+9%	496	420	-15%
Bern-Belp	77	7	-91%	42	15	-64%
Lugano-Agno	8	5	-38%	0	0	0%
Sion	2	1	-50%	5	1	-80%
St. Gallen-Altenrhein	67	68	+1%	0	0	0%

¹ Swiss and French traffic

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

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Transport performance 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	
	2018	2019	2018	2019	2018	2019
Total	108 134	112 415	134 613	139 483	80%	81%
Europe	44 335	45 231	54 668	55 819	81%	81%
Africa	5 296	6 185	6 570	7 994	81%	77%
Asia	31 559	32 648	40 619	41 836	78%	78%
Oceania ¹	0	0	0	0	*	*
North America	22 691	23 215	27 869	28 035	81%	83%
Central America	1 634	1 877	1 898	2 117	86%	89%
South America	2 619	3 259	2 989	3 682	88%	89%

¹ no direct flights from/to Switzerland

* not indicated because data was not applicable

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

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6 Energy consumption and emissions

Fuel consumption and gaseous emissions of civil aviation

Including general aviation

T6.1

	2000	2010	2018	2019
Fuel consumption, in tonnes				
filled up in Switzerland	1 540 307	1 390 824	1 823 917	1 846 453
consumed in the Swiss airspace	513 678	580 808	612 230	619 179
Gaseous emissions, in tonnes¹				
CO ₂	4 851 967	4 377 758	5 736 147	5 807 021
NO _x	18 470	17 635	28 076	28 368
CO	8 782	6 701	6 511	6 449
HC	905	734	812	810
BC	34	32
PM	46	44

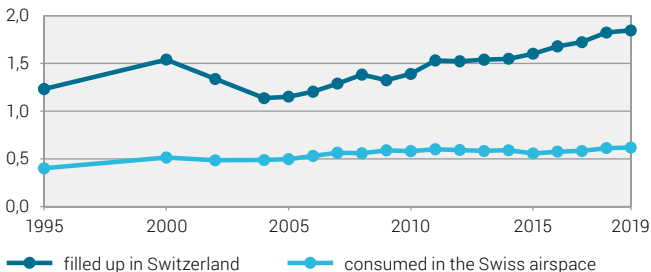
¹ International and domestic flights. The calculation is based on the fuel quantity actually filled up in Switzerland.

Fuel consumption of civil aviation

Including general aviation

G6.1

Million tonnes



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

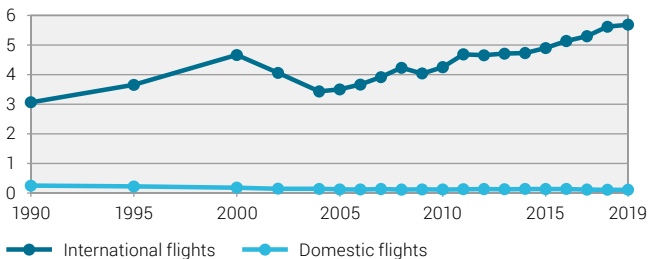
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CO₂ emissions of civil aviation

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

T7.1

	2000	2005	2010	2015	2018	2019
Total	80	71	45	75	99	61

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

T7.2

	2000	2005	2010	2015	2018	2019
Total	51	15	8	12	38	5
Total aeroplanes	36	8	5	7	31	4
< 2 250 kg MTOM	4	7	5	7	11	4
2 250–5 700 kg MTOM	1	1	0	0	0	0
> 5 700 kg MTOM	31	0	0	0	20	0
Helicopters	12	6	0	1	5	1
Powered gliders and gliders	3	1	3	4	2	0
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	2018	2019
Total	23	1	7	7	3	5
Total aeroplanes	18	1	3	4	1	2
< 2 250 kg MTOM	5	0	1	4	1	2
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	1	2
Powered gliders and gliders	2	0	0	0	1	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

Source: STSB – Aviation accident statistics

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www.statistics.admin.ch
Federal Statistical Office
CH-2010 Neuchâtel
order@bfs.admin.ch
tel. +41 58 463 60 60

Online

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