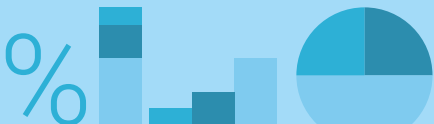


2020



11

Mobility and
transport

Neuchâtel 2021

Swiss civil aviation 2020



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1 Aviation infrastructure

Civil aerodromes: overview 2020

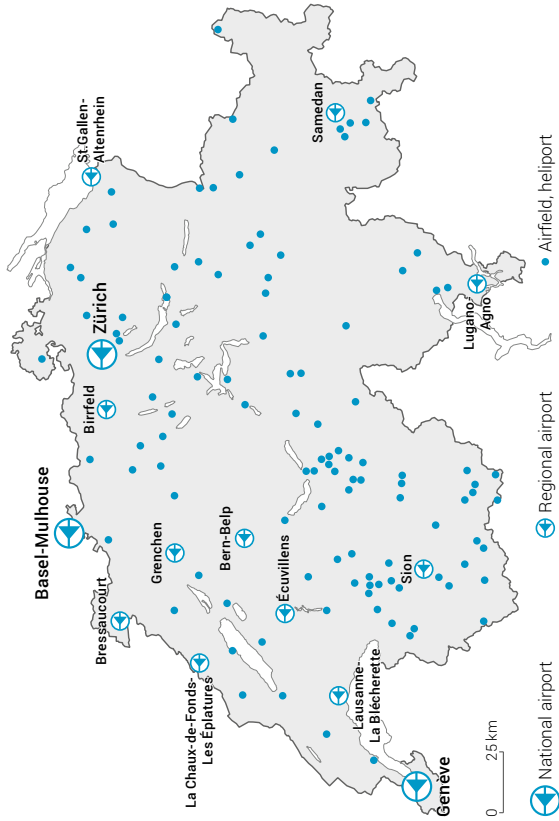
T1

	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
Écuvillens	1953	800	1	no
Grenchen	1931	1 000	1	yes
La Chaux-de-Fonds- Les Éplatures	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, 2020



2 Aircraft

Registered aircraft

T.2.1

	2000	2005	2010	2015	2019	2020
Total aircraft	4 048	3 841	3 705	3 494	3 211	3 181
Total aeroplanes	2 014	1 892	1 913	1 850	1 730	1 723
< 2 250 kg MTOM	1 572	1 502	1 413	1 397	1 324	1 309
2 250–5 700 kg MTOM	157	149	197	169	146	150
> 5 700 kg MTOM	285	241	303	284	260	264
Helicopters	254	285	327	326	345	345
Gliders	1 024	949	824	696	579	554
Powered gliders	246	254	251	253	241	240
Airships	6	9	9	11	8	8
Free balloons	504	452	381	358	308	311

MTOM = Maximum Take Off Mass

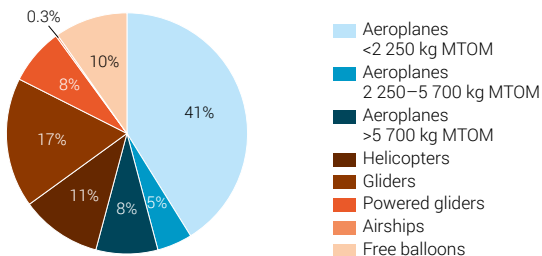
Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Registered aircraft, 2020

G2.1

Total: 3 181 aircraft



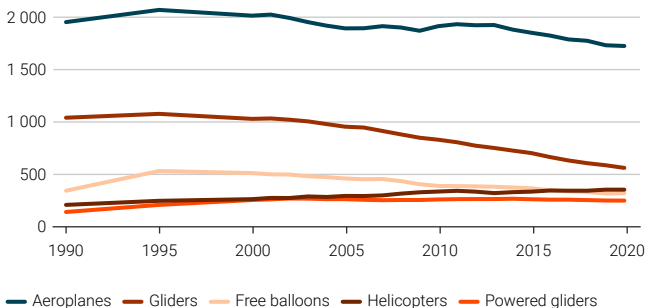
MTOM = Maximum Take Off Mass

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 Companies and employment

Swiss aviation companies

T3.1

	2000	2005	2010	2015	2019	2020
Total companies	420	355	322	299	252	248
Companies with scheduled traffic	5	5	9	9	5	5
Other companies with commercial traffic	172	109	81	66	38	37
Maintenance companies	94	87	90	84	80	78
Flying schools	149	154	142	140	129	128

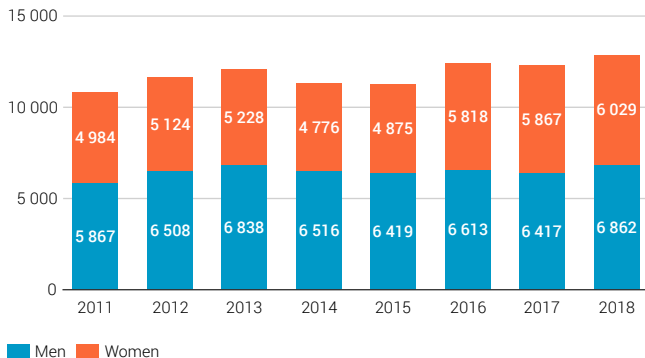
Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Jobs in aviation by gender

G3.1

Number of jobs



Source: FSO – Structural business statistics (STATENT)

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Flight personnel

Licence holders

T3.2

	2000	2005	2010	2015	2019	2020
Private pilots	6 792	5 928	5 581	4 872	4 422	4 369
Commercial pilots	1 421	1 000	952	1 050	1 096	1 076
Airline transport pilots	2 223	2 086	2 266	2 571	2 508	2 397
Multi-Crew pilots	0	0	46	87	22	14
Helicopter pilots ¹	1 036	1 082	1 168	1 043	1 072	1 099
Glider pilots	3 145	2 764	2 617	1 715	1 761	2 196
Free balloon pilots	449	428	340	255	211	208
Validations ²	420	38	8	11	7	7
Flight engineers	14	8	2	2	0	0
Radio navigators	30	27	10	4	3	1

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	2019	2020
Total airports	537 813	418 956	416 111	460 978	469 667	166 758
Total national airports	509 584	404 428	404 921	445 349	465 030	165 882
Zurich	291 044	229 982	227 815	231 095	243 115	83 081
Geneva	118 950	116 545	123 173	146 440	145 527	53 854
Basel-Mulhouse ¹	99 590	57 901	53 933	67 814	76 388	28 947
Total regional airports	28 229	14 528	11 190	15 629	4 637	876
Bern-Belp	12 489	4 128	3 486	7 928	326	95
Lugano-Agno	12 017	7 741	5 479	5 397	2 107	40
Sion	530	80	92	572	129	113
St.Gallen-Altenrhein	3 193	2 579	2 133	1 732	2 075	628

¹ Swiss and French traffic

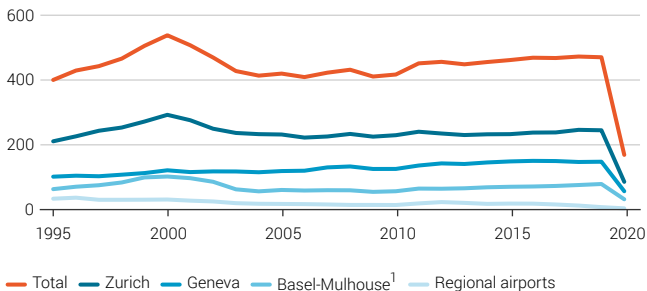
Source: FSO, FOCA – Aviation, scheduled and charter traffic (AVIA_LC)

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Aircraft movements: scheduled and charter traffic

G4.1

Thousand takeoffs and landings



¹ Swiss and French traffic

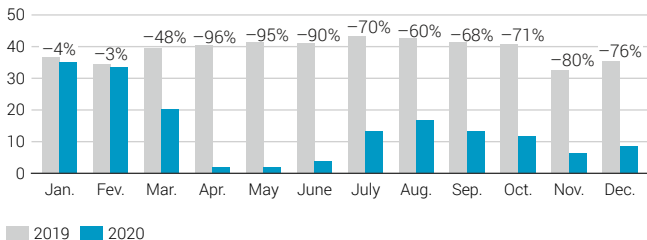
Source: FSO, FOCA – Aviation, scheduled and charter traffic (AVIA_LC)

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Aircraft movements by month, 2019/2020: scheduled and charter traffic

G4.2

Thousand takeoffs and landings; change as %



Source: FSO, FOCA – Aviation, scheduled and charter traffic (AVIA_LC)

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Total aircraft movements in civil aviation, 2020

Takeoffs and landings, including general aviation

T4.2

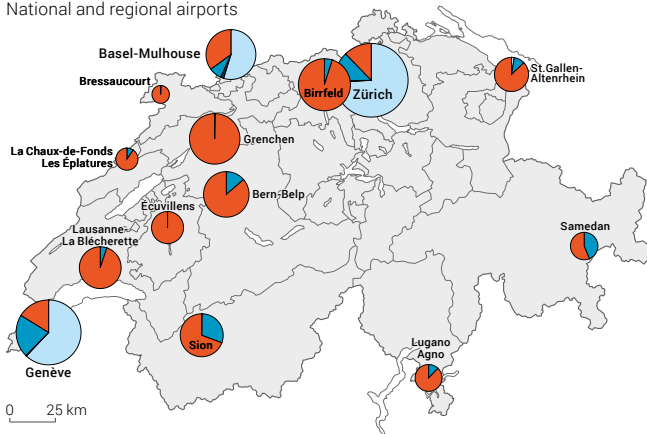
	Commercial flights		Non commercial flights	Total
	Aeroplane ²	Helicopter		
Total airports and airfields	219 393	98 406	734 364	1 052 163
Total national airports	199 043	4 150	45 475	248 668
Zurich	97 079	600	13 639	111 318
Geneva	70 800	1 549	14 000	86 349
Basel-Mulhouse ¹	31 164	2 001	17 836	51 001
Total regional airports	14 591	20 263	280 656	315 510
Bern-Belp	2 381	3 457	36 614	42 452
Lugano-Agno	1 236	592	12 942	14 770
Sion	3 956	7 671	26 206	37 833
St.Gallen-Altenrhein	3 034	57	20 759	23 850
Birrfield	418	2 302	52 770	55 490
Bressaucourt	29	10	6 495	6 534
Écuvillens	0	2	21 014	21 016
Grenchen	145	8	52 150	52 303
La Chaux-de-Fonds- Les Éplatures	935	37	9 069	10 041
Lausanne- La Blécherette	454	1 377	33 967	35 798
Samedan	2 003	4 750	8 670	15 423
Total airfields	5 759	73 993	408 233	487 985

¹ Swiss and French traffic

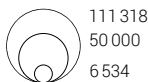
² powered planes (without powered glider)

Aircraft movements in civil aviation, 2020

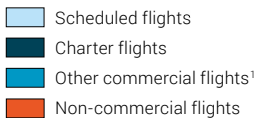
National and regional airports



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	2019	2020
Total airports	49 392 700	58 561 919	16 457 821
Zurich	26 251 507	31 478 748	8 305 066
Geneva	15 682 128	17 826 513	5 536 435
Basel-Mulhouse ²	7 028 970	9 068 206	2 586 340
Bern-Belp	175 024	22 233	5 618
Lugano-Agno	156 435	56 201	275
Sion	6 660	2 381	1 673
St.Gallen-Altenrhein	91 976	107 637	22 414

¹ local and transfer passengers

² Swiss and French traffic

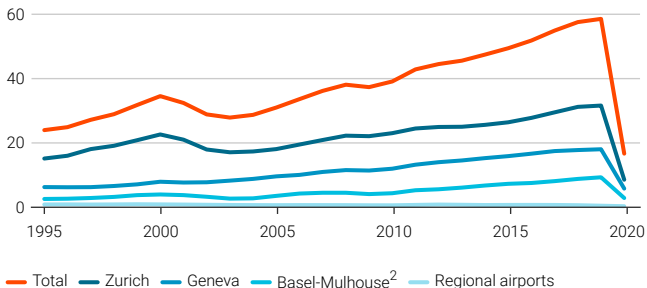
Source: FSO, FOCA – Aviation, scheduled and charter traffic (AVIA_LC)

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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

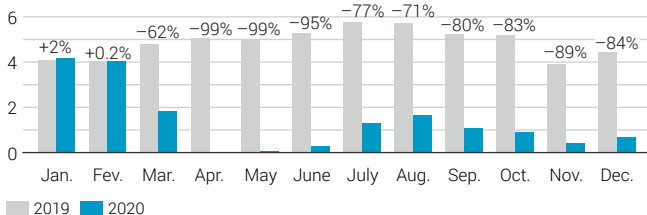
Source: FSO, FOCA – Aviation, scheduled and charter traffic (AVIA_LC)

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Air passengers by month, 2019/2020: scheduled and charter traffic

G5.2

Million passengers¹ arriving and departing; change as %



¹ local and transfer passengers

Source: FSO, FOCA – Aviation, scheduled and charter traffic (AVIA_LC)

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Air passengers by continent of final destination, 2020

Departing local passengers in scheduled and charter traffic

T5.2

	Europe	Africa	Asia	Oceania
Total airports	6 156 978	258 155	432 495	34 298
Zurich	2 456 492	112 219	284 302	27 245
Geneva	2 435 796	110 859	140 762	7 053
Basel-Mulhouse ¹	1 249 688	35 077	7 431	0
Bern-Belp	2 818	0	0	0
Lugano-Agno	150	0	0	0
Sion	786	0	0	0
St.Gallen-Altenrhein	11 248	0	0	0
	North America	Central America	South America	Total all continents
Total airports	256 405	46 186	80 063	7 264 580
Zurich	171 379	37 110	55 615	3 144 362
Geneva	85 026	9 076	24 448	2 813 020
Basel-Mulhouse ¹	0	0	0	1 292 196
Bern-Belp	0	0	0	2 818
Lugano-Agno	0	0	0	150
Sion	0	0	0	786
St.Gallen-Altenrhein	0	0	0	11 248

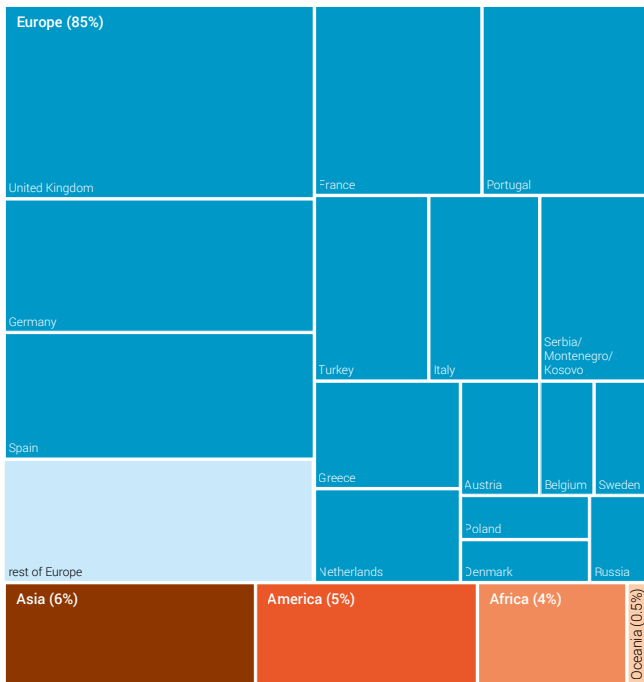
¹ Swiss and French traffic

Air passengers by final destination, 2020

Departing local passengers from Swiss airports
in scheduled and charter traffic

G5.3

Total 7 264 580 passengers



Source: FSO, FOCA – Aviation, scheduled and charter traffic (AVIA_LC)

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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		
	2019	2020	Change	2019	2020	Change
Total	111 475	28 185	-75%	940	271	-71%
Zurich	79 743	18 824	-76%	379	95	-75%
Geneva	22 316	6 543	-71%	125	40	-68%
Basel-Mulhouse ¹	9 335	2 803	-70%	420	128	-70%
Bern-Belp	7	1	-86%	15	8	-47%
Lugano-Agno	5	0	-100%	0	0	0%
Sion	1	1	0%	1	0	-100%
St.Gallen-Altenrhein	68	13	-81%	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	
	2019	2020	2019	2020	2019	2020
Total	112 415	28 456	139 483	47 718	81%	60%
Europe	45 231	14 028	55 819	20 848	81%	67%
Africa	6 185	1 785	7 994	2 885	77%	62%
Asia	32 648	6 924	41 836	13 731	78%	50%
Oceania ¹	0	4	0	15	*	24%
North America	23 215	4 214	28 035	8 092	83%	52%
Central America	1 877	598	2 117	740	89%	81%
South America	3 259	904	3 682	1 407	89%	64%

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	2019	2020
Fuel consumption, in tonnes				
filled up in Switzerland	1 540 307	1 390 824	1 846 453	677 093
consumed in the Swiss airspace	513 678	580 808	619 179	226 301
Gaseous emissions, in tonnes¹				
CO ₂	4 851 967	4 377 758	5 807 021	2 129 430
NO _x	18 470	17 635	28 368	11 251 ^P
CO	8 782	6 701	6 449	3 319
HC	905	734	810	294
BC	32	14 ^P
PM	44	18 ^P

^P provisional number

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

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

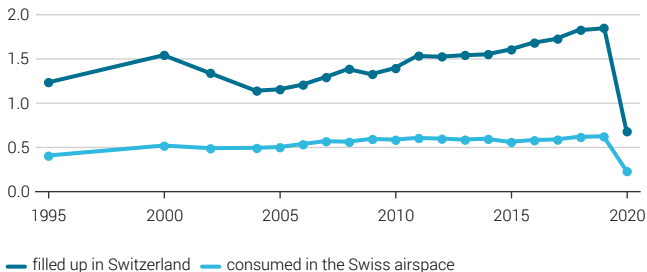
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Fuel consumption of civil aviation

Including general aviation

G6.1

Million tonnes



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

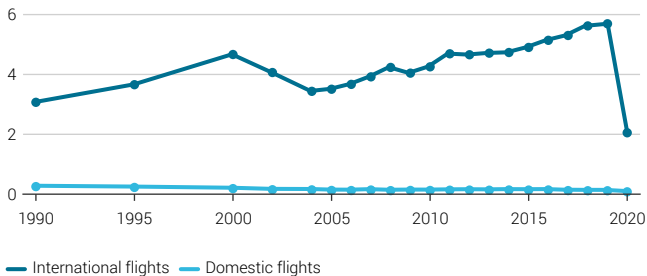
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CO₂ emissions of civil aviation

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	2019	2020
Total	80	71	45	75	61	63

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	2019	2020
Total	51	15	8	12	5	10
Total aeroplanes	36	8	5	7	4	8
< 2 250 kg MTOM	4	7	5	7	4	8
2 250–5 700 kg MTOM	1	1	0	0	0	0
> 5 700 kg MTOM	31	0	0	0	0	0
Helicopters	12	6	0	1	1	0
Powered gliders and gliders	3	1	3	4	0	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	2019	2020
Total	23	1	7	7	5	5
Total aeroplanes	18	1	3	4	2	4
< 2 250 kg MTOM	5	0	1	4	2	2
2 250–5 700 kg MTOM	0	1	2	0	0	2
> 5 700 kg MTOM	13	0	0	0	0	0
Helicopters	3	0	4	3	2	0
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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