

2023



11

Mobility and
transport

Neuchâtel 2024

Swiss civil aviation 2023



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1 Aviation infrastructure

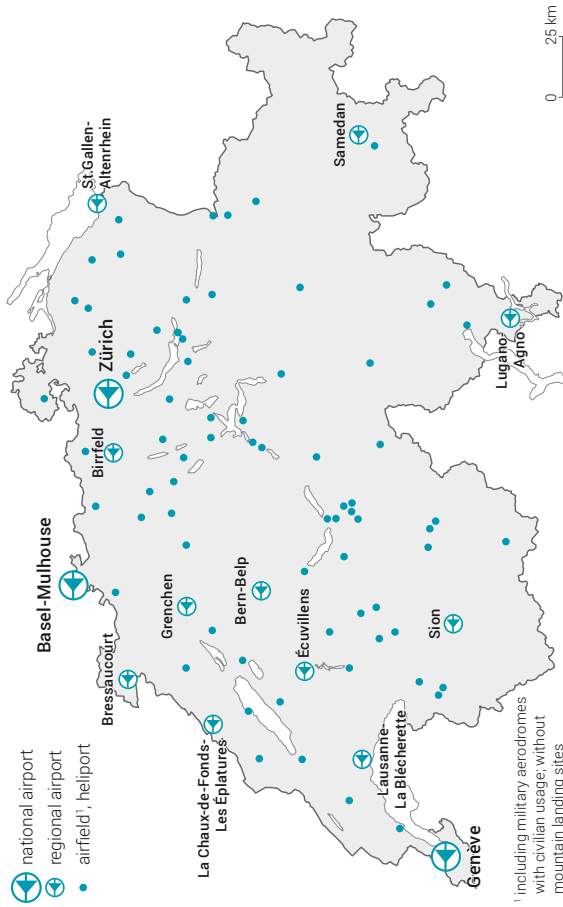
Civil aerodromes: overview 2023

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			38^r	
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	1 415	1	yes
Sion	1935	2 000	1	yes
St.Gallen-Altenrhein	1926	1 455	1	yes
Birrfield	1937	718	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	1 090	1	yes
Lausanne- La Blécherette	1910	875	1	no
Samedan	1937	1 840	1	no
Total airfields with paved runways			21 ^r	

^r revised

Civil aerodromes, 2023



Data as on: 26.06.2024

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

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2 Aircraft

Registered aircraft in Switzerland

T.2.1

	1990	2000	2010	2019	2022	2023
Total aircraft	3 653	4 048	3 705	3 211	3 134	3 140
Total aeroplanes	1 952	2 014	1 913	1 730	1 702	1 699
< 2 250 kg MTOM	...	1 572	1 413	1 324	1 304	1 317
2 250–5 700 kg MTOM	...	157	197	146	144	128
> 5 700 kg MTOM	...	285	303	260	254	254
Helicopters	199	254	327	345	354	365
Gliders	1 035	1 024	824	579	524	514
Powered gliders	131	246	251	241	238	241
Airships	1	6	9	8	7	7
Free balloons	335	504	381	308	309	314

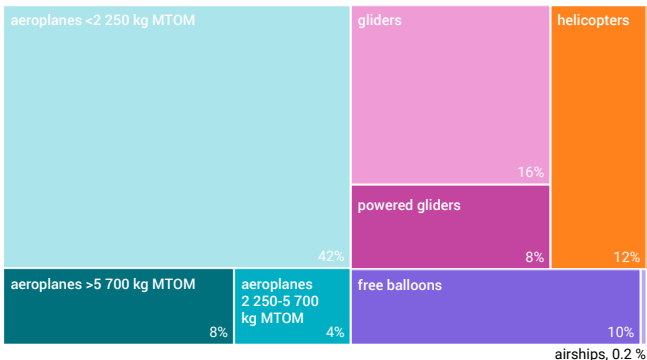
MTOM = Maximum Take Off Mass

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

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Breakdown of registered aircraft in Switzerland, 2023

Total: 3 140 aircraft



MTOM = Maximum Take Off Mass

Data as on: 31.12.2023

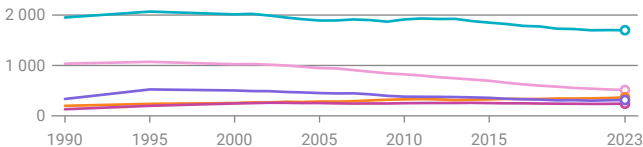
Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Registered aircraft in Switzerland

— aeroplanes — helicopters — gliders — powered gliders
— free balloons



Data as on: 31.12.2023

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

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3 Companies and employment

Swiss aviation companies

T3.1

	1990	2000	2010	2019	2022	2023
Total companies	340	420	322	252	258	260
Companies with scheduled traffic	4	5	9	5	5	5
Other companies with commercial traffic	120	172	81	38	36	36
Maintenance companies	83	94	90	80	81	82
Flying schools	133	149	142	129	136	137

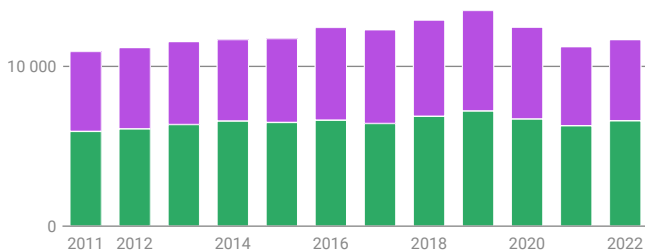
Source: FSO, FOCA – Civil aviation statistics (AVIA_ZL)

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Jobs in aviation by gender

Number of jobs

■ men ■ women



Data as on: 11.07.2024

Source: FSO – Structural business statistics (STATENT)

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Flight personnel

Licence holders

T3.2

	1990	2000	2010	2019	2022	2023
Private pilots	8 179	6 792	5 581	4 422	4 423	4 354
Commercial pilots	1 526	1 421	952	1 096	1 076	1 039
Airline transport pilots	886	2 223	2 266	2 508	2 439	2 531
Multi-Crew pilots	0	0	46	22	15	17
Helicopter pilots ¹	779	1 036	1 168	1 072	1 167	1 172
Glider pilots	3 188	3 145	2 617	1 761	2 323	2 411
Free balloon pilots	360	449	340	211	200	199
Validations ²	443	420	8	7	4	2
Flight engineers	217	14	2	0	0	0
Radio navigators	89	30	10	3	0	0

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

	1990	2000	2010	2019	2022	2023
Total airports	335 777	537 813	416 111	469 667	355 915	408 957
Total national airports	312 712	509 584	404 921	465 030	354 327	407 018
Zurich	172 471	291 044	227 815	243 115	179 556	213 909
Geneva	91 481	118 950	123 173	145 527	116 994	129 767
Basel-Mulhouse ¹	48 760	99 590	53 933	76 388	57 777	63 342
Total regional airports	23 065	28 229	11 190	4 637	1 588	1 939
Bern-Belp	6 677	12 489	3 486	326	514	657
Lugano-Agno	16 304	12 017	5 479	2 107	61	46
Sion	84	530	92	129	367	457
St.Gallen-Altenrhein	0	3 193	2 133	2 075	646	779

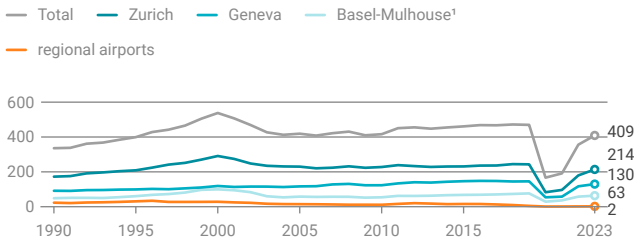
¹ Swiss and French traffic

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

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Aircraft movements: scheduled and charter traffic

Thousand takeoffs and landings



¹ Swiss and French traffic

Data as on: 17.01.2024

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

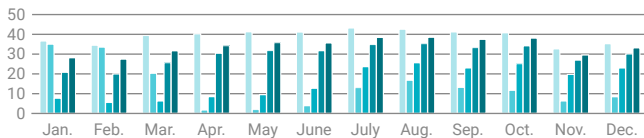
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Aircraft movements by month, 2019–2023: scheduled and charter traffic

Thousand takeoffs and landings

■ 2019 ■ 2020 ■ 2021 ■ 2022 ■ 2023



Data as on: 17.01.2024

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

gr-e-11.07.02.02-01

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Total aircraft movements in civil aviation, 2023

Takeoffs and landings, including general aviation

T4.2

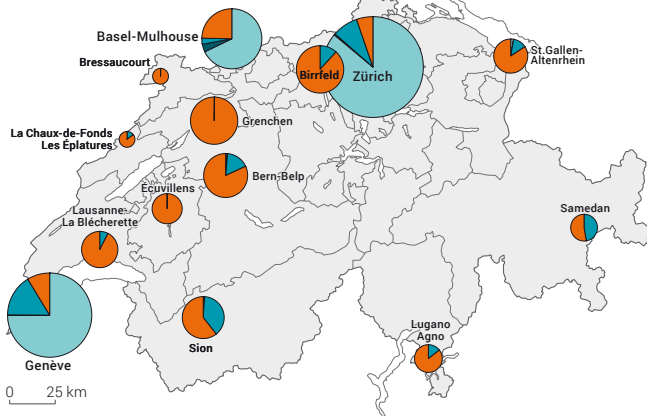
	Commercial flights		Non commercial flights	Total
	Aeroplane ²	Helicopter		
Total airports and airfields	484 609	113 333	752 662	1 350 604
Total national airports	455 313	3 078	49 805	508 196
Zurich	233 982	422	13 053	247 457
Geneva	155 579	2 196	15 067	172 842
Basel-Mulhouse ¹	65 752	460	21 685	87 897
Total regional airports	24 555	26 196	278 873	329 624
Bern-Belp	4 128	4 411	38 578	47 117
Lugano-Agno	2 229	511	15 990	18 730
Sion	5 625	11 221	25 947	42 793
St.Gallen-Altenrhein	4 391	39	23 822	28 252
Birrfeld	3 516	2 929	48 177	54 622
Bressaucourt	11	4	6 077	6 092
Écuvillens	16	0	22 059	22 075
Grenchen	111	44	54 284	54 439
La Chaux-de-Fonds- Les Éplatures	815	63	5 149	6 027
Lausanne- La Blécherette	798	1 636	29 607	32 041
Samedan	2 915	5 338	9 183	17 436
Total airfields	4 741	84 059	423 984	512 784

¹ Swiss and French traffic

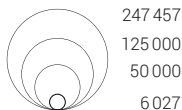
² powered planes (without powered glider)

Aircraft movements in civil aviation, 2023

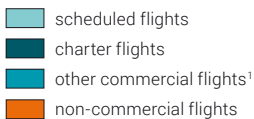
National and regional airports



Number of takeoffs and landings



Type of traffic



¹ excluding commercial pleasure flights

Data as on: 11.06.2024

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

	1990	2000	2010
Total airports	19 944 463	34 426 801	39 009 046
Zurich	12 278 088	22 450 494	22 854 358
Geneva	5 488 703	7 677 763	11 748 972
Basel-Mulhouse ²	1 776 784	3 699 194	4 087 931
Bern-Belp	88 584	205 314	85 981
Lugano-Agno	310 240	286 507	159 497
Sion	2 064	8 760	3 912
St.Gallen-Altenrhein	0	98 769	68 395
	2019	2022	2023
Total airports	58 561 919	43 570 768	53 294 781
Zurich	31 478 748	22 512 400	28 842 554
Geneva	17 826 513	13 958 454	16 314 270
Basel-Mulhouse ²	9 068 206	7 034 591	8 054 744
Bern-Belp	22 233	35 230	42 833
Lugano-Agno	56 201	588	368
Sion	2 381	4 180	5 373
St.Gallen-Altenrhein	107 637	25 325	34 639

¹ local and transfer passengers

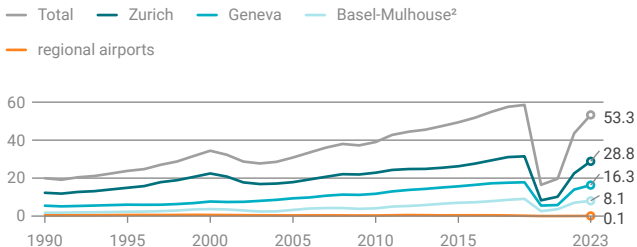
² Swiss and French traffic

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

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Air passengers: scheduled and charter traffic

Million passengers¹ arriving and departing



¹ local and transfer passengers

² Swiss and French traffic

Data as on: 17.01.2024

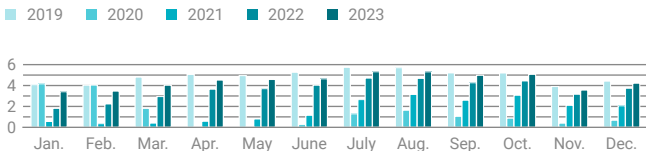
Source: FSO, FOCA – Aviation, scheduled and charter traffic (AVIA_LC)

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Air passengers by month, 2019–2023: scheduled and charter traffic

Million passengers¹ arriving and departing



¹ local and transfer passengers

Data as on: 17.01.2024

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

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Air passengers by continent of final destination, 2023

Departing local passengers in scheduled and charter traffic

T5.2

	Europe	Africa	Asia	Oceania
Total airports	17 828 226	1 011 503	1 828 598	101 319
of which Zurich	7 350 215	395 956	1 243 514	83 857
of which Geneva	6 572 789	456 027	568 883	17 462
	North America	Central America	South America	Total all continents
Total airports	1 397 735	141 609	251 565	22 560 555
of which Zurich	951 185	114 830	186 537	10 326 094
of which Geneva	440 335	26 779	65 028	8 147 303

Note: Only very partial data on passengers' final destinations has been available for the national airport of Basel-Mulhouse and the regional airports, which is why no figures on final destinations are presented for these airports. For the total, the flight destination (destination of the aircraft boarded by the passengers at the airports in question) has been substituted for the final destination where data is incomplete. All figures according to the status of the databases on 17.01.2024. Minor subsequent adjustments cannot be excluded.

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

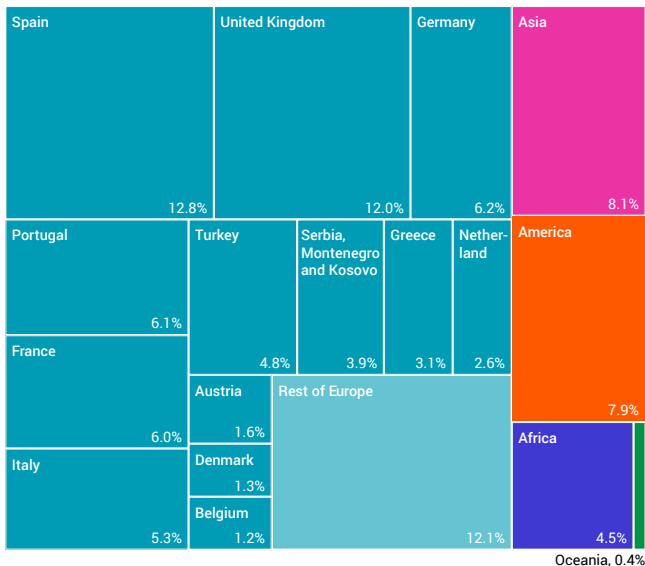
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Air passengers by final destination, 2023

Departing local passengers from Swiss airports in scheduled and charter traffic

Total 22 560 555 passengers

■ Europe
 ■ Asia
 ■ America
 ■ Africa
 ■ Oceania



Note: Only very partial data on passengers' final destinations has been available for the national airport of Basel-Mulhouse and the regional airports. Where data is incomplete, the flight destination (destination of the aircraft boarded by the passengers at the airports in question) has been substituted for the final destination. All figures according to the status of the databases on 17.01.2024. Minor subsequent adjustments cannot be excluded.

Data as on: 17.01.2024

Source: FSO, FOCA – Aviation, scheduled and charter flights (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	2022	2023	2019	2022	2023
Total	111 475	78 980	102 608	940	722	652
Zurich	79 743	53 476	71 232	379	237	253
Geneva	22 316	17 778	22 506	125	41	48
Basel-Mulhouse ¹	9 335	7 668	8 797	420	433	337
Bern-Belp	7	44	55	15	8	9
Lugano-Agno	5	0	0	0	0	0
Sion	1	0	0	1	3	4
St.Gallen-Altenrhein	68	13	18	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			Seat load factor		
	2019	2022	2023	2019	2022	2023
Total	112 415	79 701	103 259	81%	78%	82%
Europe	45 231	36 852	43 647	81%	79%	81%
Africa	6 185	4 877	6 698	77%	77%	77%
Asia	32 648	16 876	25 900	78%	75%	83%
Oceania ¹	0	0	0	*	*	*
North America	23 215	17 428	23 147	83%	78%	83%
Central America	1 877	1 400	1 609	89%	86%	89%
South America	3 259	2 267	2 259	89%	95%	93%

¹ in 2019, 2022 and in 2023 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 main greenhouse gas and pollutant emissions from civil aviation

Including general aviation

T6.1

	2000	2010	2019	2022	2023
Fuel consumption, in million tonnes					
filled up in Switzerland	1.54	1.39	1.85	1.35	1.62
consumed in the Swiss airspace	0.51	0.58	0.62	0.49	0.52
Greenhouse gas emissions, in million tonnes²					
Carbon dioxide (CO ₂) ¹	4.85	4.38	5.81	4.25	5.08
Pollutant emissions, in tonnes²					
Nitrogen oxides (NO _x)	18 470	17 635	28 368	23 777	29 014
of which impacting the climate ³	...	...	...	17 521	21 544
Sulphur dioxide (SO ₂)	1 540	1 386	1 847	1 353	1 616
Volatile organic compounds (VOC)	905	734	810	443	464
Particulate emissions²					
Particulate matter (PM), in tonnes	...	...	44	57	65
Soot particles impacting the climate ³ , number	...	...	...	8.1*10 ²³	9.1*10 ²³

¹ fossil CO₂, i. e. without CO₂ emissions from climate-neutral fuels

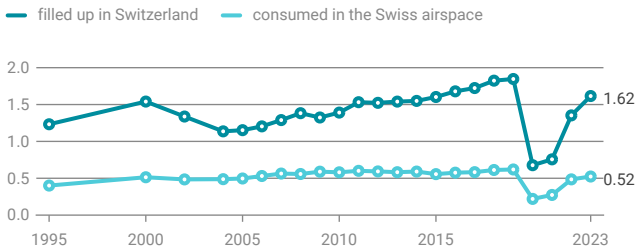
² International and domestic flights. The calculation is based on the fuel quantity actually filled up in Switzerland (sales principle).

³ emissions from a flight altitude higher than 8000 m above sea level

Fuel consumption of civil aviation

Including general aviation

Million tonnes



Data as on: 11.07.2024

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

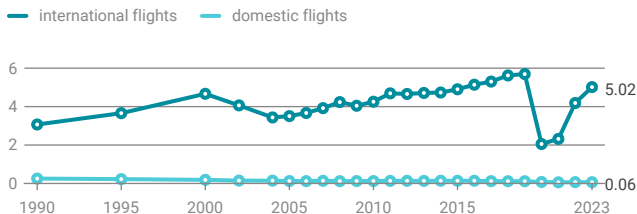
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CO₂ emissions of civil aviation

Including general aviation

Million tonnes



Data as on: 11.07.2024

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	2010	2019	2022	2023
Total	80	45	56	28	26

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	2010	2019	2022	2023
Total	51	8	5	3	3
Total aeroplanes	36	5	4	1	3
< 2 250 kg MTOM	4	5	4	1	3
2 250–5 700 kg MTOM	1	0	0	0	0
> 5 700 kg MTOM	31	0	0	0	0
Helicopters	12	0	1	1	0
Powered gliders and gliders	3	3	0	1	0
Free balloons and airships	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	2010	2019	2022	2023
Total	23	7	5	4	7
Total aeroplanes	18	3	2	1	1
< 2 250 kg MTOM	5	1	2	1	1
2 250–5 700 kg MTOM	0	2	0	0	0
> 5 700 kg MTOM	13	0	0	0	0
Helicopters	3	4	2	3	0
Powered gliders and gliders	2	0	1	0	1
Free balloons and airships	0	0	0	0	5

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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The information in this publication contributes to the measurement of sustainable development goal (SDG) **no. 9 “Industry, innovation and infrastructure”** of the UN’s 2030 Agenda. In Switzerland, the MONET 2030 indicator system is used to track the implementation of these goals.



The MONET 2030 indicator system

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