

**Development of  
Swiss Air Freight  
acc. statistics of the Swiss  
Federal Customs Administration  
1998 - 2017**

# Air Cargo Figures

## Explanations to data evaluation

The enclosed data analysis shows the development of the Swiss air freight volume on the basis of publicly accessible data from the Swiss Customs Administration (FCA). The data are analysed by value and quantity over the period 1998-2017, including modal split, product groups and traffic flows (origin/destination).

### 1. Authors

IG Air Cargo and Swiss WorldCargo

### 2. Data

#### 2.1 Data sources

The calculations are based on the figures of the Swiss customs statistics of the Federal Customs Administration (FCA). 1998-2017)

The datasets were partly produced on the Customs Administration's own online database and partly downloaded from the public website.

The database for creating reports can be found at <https://www.swiss-impex.admin.ch/> (Note: an expert account has been set up for the level of detail required in the study).

The link to the foreign trade statistics of the FCA: <http://www.ezv.admin.ch/themen>

#### 2.2 Calculation methodology

Data collection, processing and interpretation are based on the statistics of the customs administration from 1998 to 2017. Some of the data sets have been modified and adjusted by the FCA. The statistics differentiate between countries, product groups and modes of transport.

In order to avoid misinterpretations and to provide a suitable overview of the Swiss air freight market, specific changes are made. This concerns the following aspects:

##### 2.2.1 Kerosene

For air freight exports, kerosene is counted as an export in customs statistics. When calculating the product groups and the modal split, the export of kerosene would distort the picture. The subgroup "Coke and refined petroleum products" consists of 99.9% motor gasoline and diesel oil, i.e. kerosene. For this reason, "coke and refined petroleum products" are not included in the analysis. This adjustment is not necessary for imports, as the kerosene is not included in the customs duties for imports and is therefore not included in the statistics.

##### 2.2.2 "Self-propulsion" and "Postal transport"

In the FCA statistics, "self-propelled" and "postal transport" are included in the calculation as modes of transport. Since the present evaluation only considers the most important modes of transport in Swiss foreign trade - i.e. rail transport, air transport and road transport - and since the two modes of transport "self-propelled" and "postal transport" account for a small proportion, they are not included in the calculation.

##### 2.2.3 Freight transport index for transport statistics

Based on EU directives, the unified nomenclature NST 2007 was adopted from 2007 for Swiss foreign trade statistics. It replaces the NST/R nomenclature. NST 2007 divides goods into 20 so-called divisions and differentiates between 81 different groups of goods. The new nomenclature differs considerably from the old NST/R nomenclature. Due to the restructuring of the product groups, comparisons between statistics from the two nomenclatures are only possible to a limited extent, which makes it difficult, for example, to compare the composition of goods in 1998 with that in 2017.

### Important note:

*The data on the Swiss gold trade are included in the overall total (Total 2) from the results for 2012 onwards and increase this level significantly accordingly. Due to this change in method, the 2012 results cannot be compared with those of the previous year. Historical comparisons are therefore often limited to the years 2013-2017.*

*This product group is described in the document as follows: "Metals; metal products (excluding machinery and equipment)".*

For the replication of the statistics in this document, the following must be considered:  
antiques.

Export = Total (as defined above) - Fuel (i.e. coking plant and petroleum products)

Import = Total (as defined above)

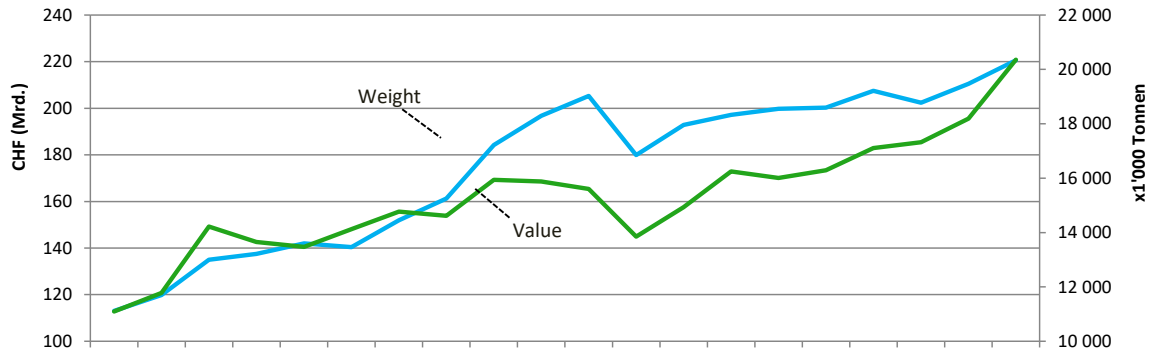
**1.a) Total exports ex Switzerland (excluding fuel, gold and other precious metals, from 2007)**

Year	Tons	+/- p.year	Value/mCHF	+/- p.year	CHF/T	+/- p.year
1998	11 095 513		113 030		10 187	
1999	11 776 447	6,1%	119 824	6,0%	10 175	-0,1%
2000	14 223 170	20,8%	134 941	12,6%	9 487	-6,8%
2001	13 650 127	-4,0%	137 486	1,9%	10 072	6,2%
2002	13 468 065	-1,3%	142 020	3,3%	10 545	4,7%
2003	14 125 451	4,9%	140 401	-1,1%	9 940	-5,7%
2004	14 772 029	4,6%	151 980	8,2%	10 288	3,5%
2005	14 611 933	-1,1%	161 270	6,1%	11 037	7,3%
2006	15 935 253	9,1%	184 260	14,3%	11 563	4,8%
2007	15 874 680	-0,4%	196 786	6,8%	12 396	7,2%
2008	15 604 313	-1,7%	205 275	4,3%	13 155	6,1%
2009	13 847 270	-11,3%	179 953	-12,3%	12 996	-1,2%
2010	14 928 915	7,8%	192 822	7,2%	12 916	-0,6%
2011	16 247 155	8,8%	197 136	2,2%	12 134	-6,1%
2012	16 011 244	-1,5%	199 796	1,3%	12 479	2,8%
2013	16 287 350	1,7%	200 259	0,2%	12 295	-1,5%
2014	17 109 738	5,0%	207 492	3,6%	12 127	-1,4%
2015	17 319 869	1,2%	202 390	-2,5%	11 685	-3,6%
2016	18 190 098	5,0%	210 473	4,0%	11 571	-1,0%
2017	20 356 378	11,9%	220 582	4,8%	10 836	-6,3%

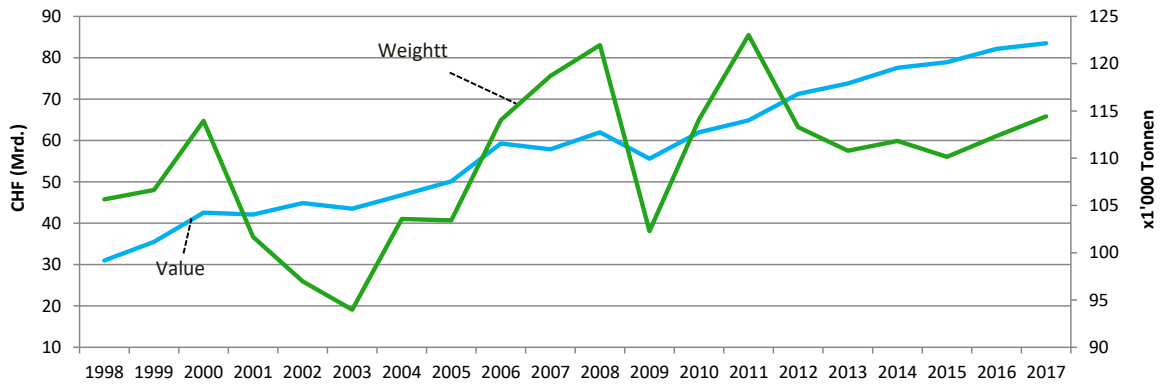
**1.b) Air freight exports ex Switzerland (excluding fuel, gold and other precious metals, from 2007)**

Year	Tons	+/- p.year	Value/mCHF	+/- p.year	CHF/T	+/- p.year
1998	105 649		30 984		293 273	
1999	106 631	0,9%	35 471	14,5%	332 652	13,4%
2000	113 957	6,9%	42 538	19,9%	373 281	12,2%
2001	101 669	-10,8%	42 088	-1,1%	413 971	10,9%
2002	96 963	-4,6%	44 869	6,6%	462 744	11,8%
2003	93 981	-3,1%	43 484	-3,1%	462 689	0,0%
2004	103 574	10,2%	46 779	7,6%	451 648	-2,4%
2005	103 433	-0,1%	50 111	7,1%	484 478	7,3%
2006	114 022	10,2%	59 246	18,2%	519 601	7,2%
2007	118 704	4,1%	57 838	-2,4%	487 244	-6,2%
2008	121 953	2,7%	61 995	7,2%	508 356	4,3%
2009	102 301	-16,1%	55 595	-10,3%	543 448	6,9%
2010	114 105	11,5%	61 987	11,5%	543 243	0,0%
2011	123 025	7,8%	64 846	4,6%	527 096	-3,0%
2012	113 282	-7,9%	71 253	9,9%	628 987	19,3%
2013	110 787	-2,2%	73 763	3,5%	665 815	5,9%
2014	111 828	0,9%	77 561	5,1%	693 571	4,2%
2015	110 148	-1,5%	78 934	1,8%	716 617	3,3%
2016	112 339	2,0%	82 163	4,1%	731 383	2,1%
2017	114 412	1,8%	83 510	1,6%	729 908	-0,2%

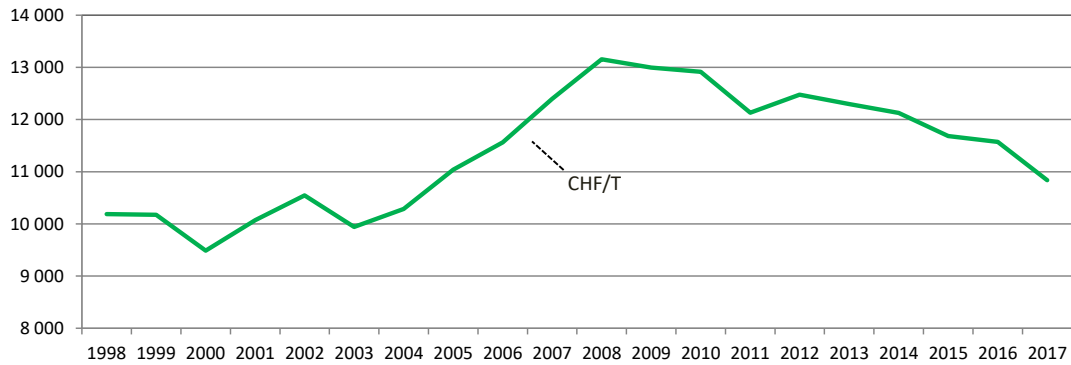
### Total Export



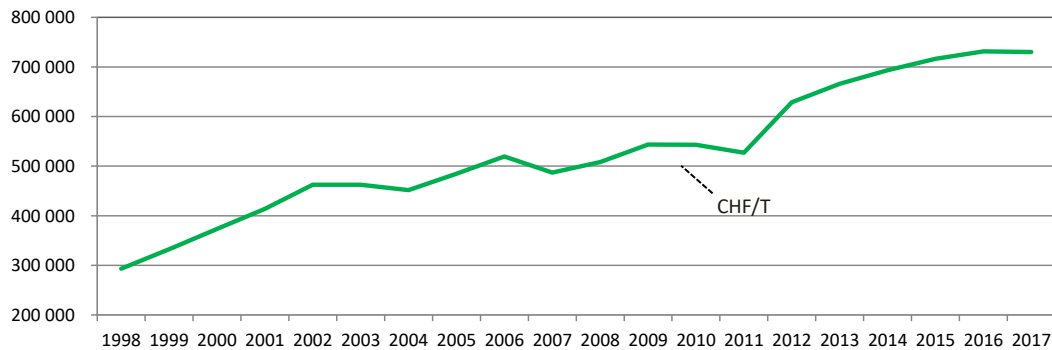
### Air Cargo Export



### CHF / t total Export



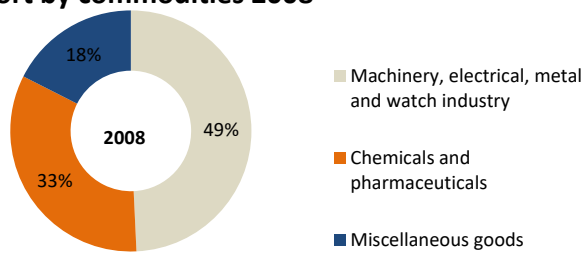
### CHF / t Air Cargo Export



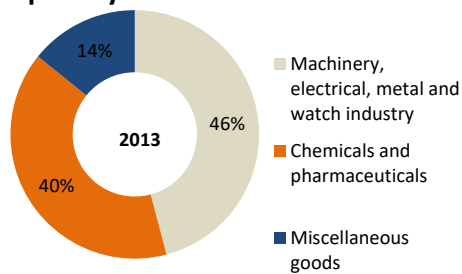
### 3. Exports (air freight) by product groups

Commodity	2008		2013		2015		2017		Delta (2008-2017)
	Value/mCHF	Share	Value/mCHF	Share	Value/mCHF	Share	Value/mCHF	Share	
Machinery, electrical, metal and watch industry	30 539	49%	33 852	46%	34 056	43%	33 693	40%	10%
Chemicals and pharmaceuticals	20 592	33%	29 427	40%	32 501	41%	37 095	44%	80%
Miscellaneous goods	10 865	18%	10 484	14%	12 377	16%	13 101	16%	21%
<b>Total - Gold - Fuel</b>	<b>61 995</b>	<b>100%</b>	<b>73 763</b>	<b>100%</b>	<b>78 934</b>	<b>100%</b>	<b>83 889</b>	<b>100%</b>	<b>35%</b>
Metals; metal products (excluding machinery and equipment)	5 198		114 460		63 618				

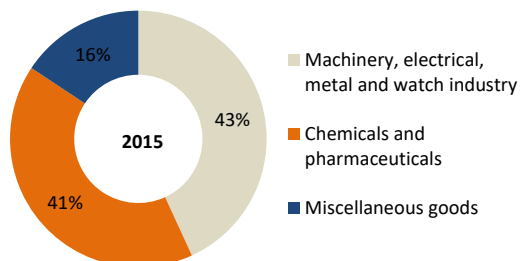
#### Export by commodities 2008



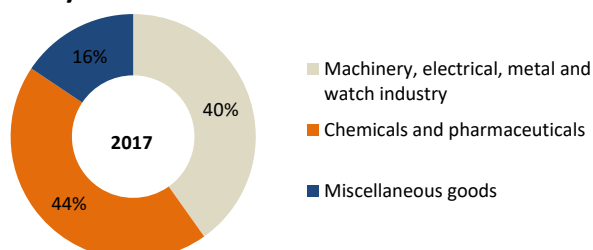
#### Export by commodities 2013



#### Export by commodities 2015



#### Export by commodities 2017

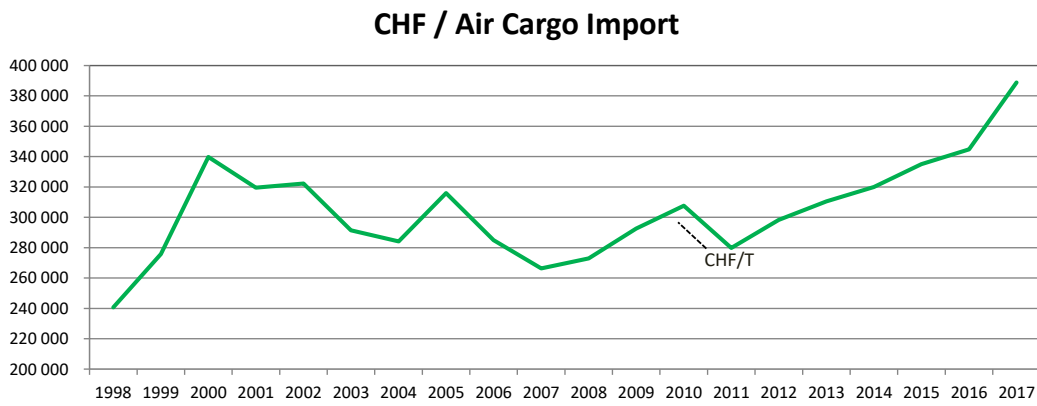
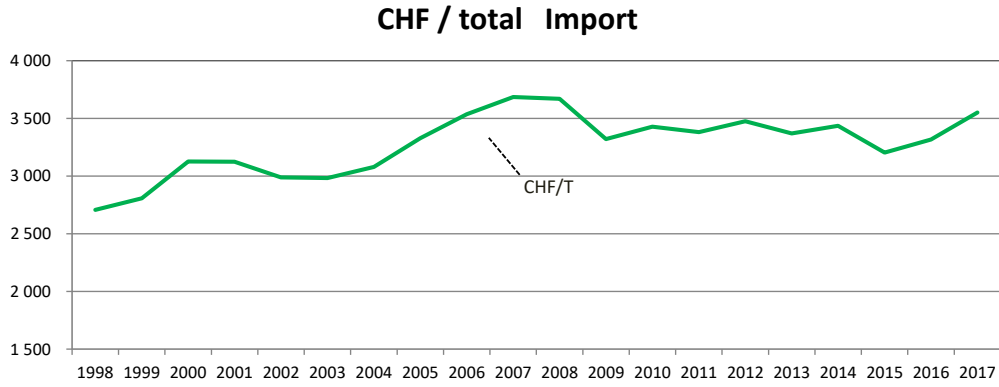
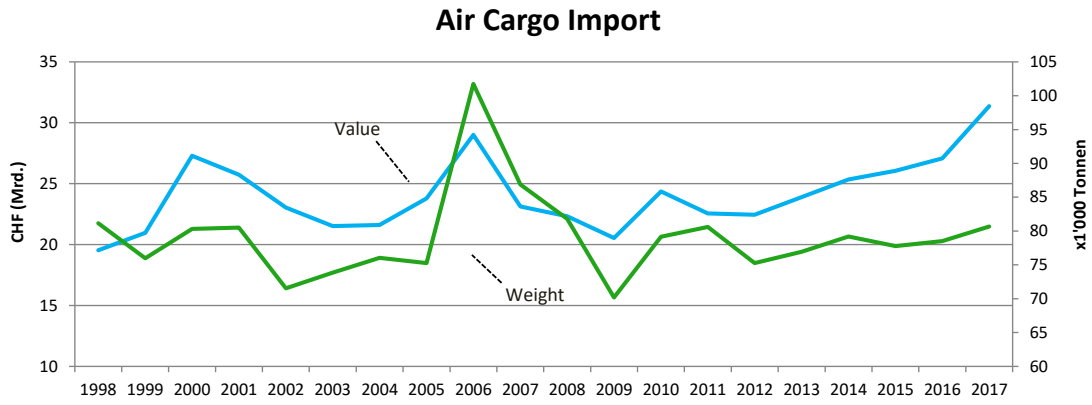
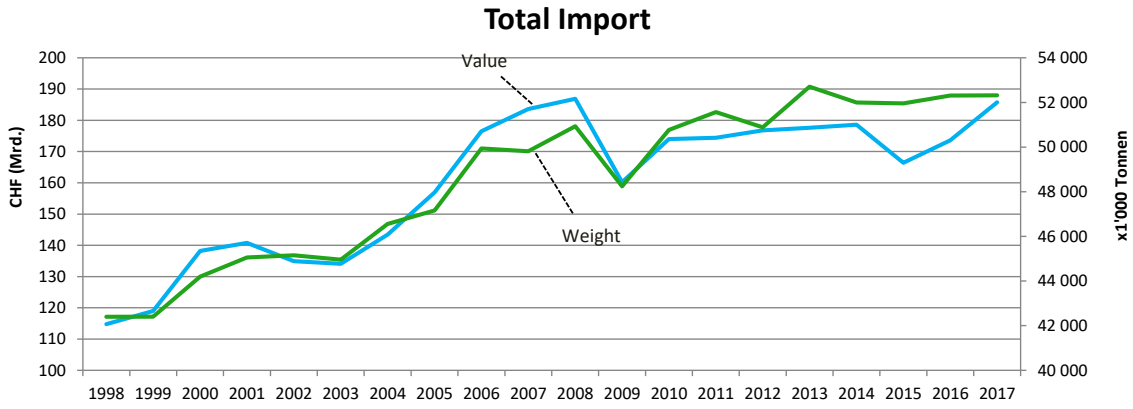


## 2.a) Imports into Switzerland (excluding gold and other precious metals, from 2007)

Year	Tons	+/- p.year	Value/mCHF	+/- p.year	CHF/T	+/- p.year
1998	42 399 692		114 776		2 707	
1999	42 403 958	0,0%	119 004	3,7%	2 806	3,7%
2000	44 198 322	4,2%	138 194	16,1%	3 127	11,4%
2001	45 050 922	1,9%	140 790	1,9%	3 125	0,0%
2002	45 151 050	0,2%	134 923	-4,2%	2 988	-4,4%
2003	44 961 573	-0,4%	134 077	-0,6%	2 982	-0,2%
2004	46 559 456	3,6%	143 390	6,9%	3 080	3,3%
2005	47 157 627	1,3%	156 949	9,5%	3 328	8,1%
2006	49 941 391	5,9%	176 526	12,5%	3 535	6,2%
2007	49 815 924	-0,3%	183 578	4,0%	3 685	4,3%
2008	50 937 404	2,3%	186 884	1,8%	3 669	-0,4%
2009	48 245 257	-5,3%	160 187	-14,3%	3 320	-9,5%
2010	50 769 003	5,2%	173 991	8,6%	3 427	3,2%
2011	51 571 357	1,6%	174 388	0,2%	3 381	-1,3%
2012	50 882 601	-1,3%	176 781	1,4%	3 474	2,7%
2013	52 705 905	3,6%	177 642	0,5%	3 370	-3,0%
2014	51 993 473	-1,4%	178 605	0,5%	3 435	1,9%
2015	51 953 927	-0,1%	166 392	-6,8%	3 203	-6,8%
2016	52 308 818	0,7%	173 542	4,3%	3 318	3,6%
2017	52 319 317	0,0%	185 774	7,0%	3 551	7,0%

## 2.b) Air freight imports into Switzerland (excluding gold and other precious metals, from 2007)

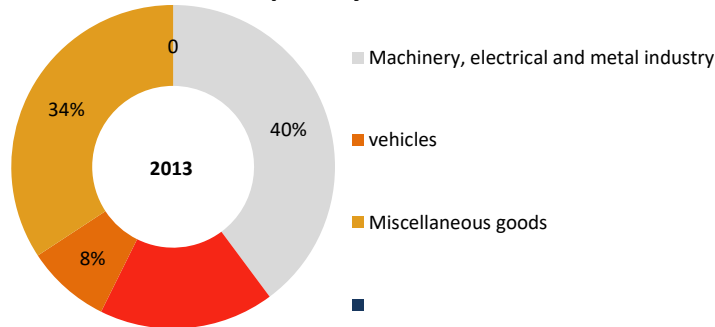
Year	Tons	+/- p.year	Value/mCHF	+/- p.year	CHF/T	+/- p.year
1998	81 162		19 533		240 669	
1999	75 984	-6,4%	20 959	7,3%	275 836	14,6%
2000	80 312	5,7%	27 286	30,2%	339 746	23,2%
2001	80 526	0,3%	25 737	-5,7%	319 612	-5,9%
2002	71 530	-11,2%	23 047	-10,5%	322 202	0,8%
2003	73 859	3,3%	21 524	-6,6%	291 413	-9,6%
2004	76 053	3,0%	21 606	0,4%	284 086	-2,5%
2005	75 273	-1,0%	23 781	10,1%	315 935	11,2%
2006	101 739	35,2%	28 999	21,9%	285 029	-9,8%
2007	86 880	-14,6%	23 135	-20,2%	266 290	-6,6%
2008	81 807	-5,8%	22 334	-3,5%	273 007	2,5%
2009	70 191	-14,2%	20 538	-8,0%	292 593	7,2%
2010	79 166	12,8%	24 355	18,6%	307 640	5,1%
2011	80 621	1,8%	22 564	-7,4%	279 872	-9,0%
2012	75 282	-6,6%	22 456	-0,5%	298 293	6,6%
2013	76 932	2,2%	23 892	6,4%	310 561	4,1%
2014	79 193	2,9%	25 339	6,1%	319 969	3,0%
2015	77 781	-1,8%	26 064	2,9%	335 094	4,7%
2016	78 519	0,9%	27 076	3,9%	344 837	2,9%
2017	80 667	2,7%	31 366	15,8%	388 833	12,8%



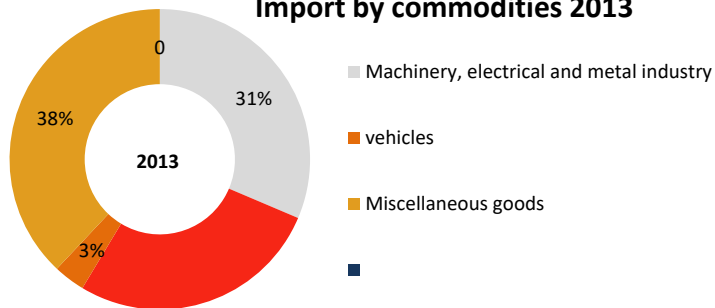
#### 4. Imports (air freight) according to product groups

commodity group	2008		2013		2015		2017		(2008-2017)
	Value/mCHF	Share	Value/mCHF	Share	Value/mCHF	Share	Value/mCHF	Share	
Machinery, electrical and metal industry	7 880	40%	7 500	31%	8 178	31%	8 889	28%	13%
chemistry	5 387	18%	6 503	27%	6 779	26%	8 591	27%	59%
vehicles	2 590	8%	811	3%	752	3%	1 059	3%	-59%
Miscellaneous goods	6 477	34%	9 077	38%	10 355	40%	12 826	41%	98%
total	22 334	100%	23 892	100%	26 064	100%	31 366	100%	40%

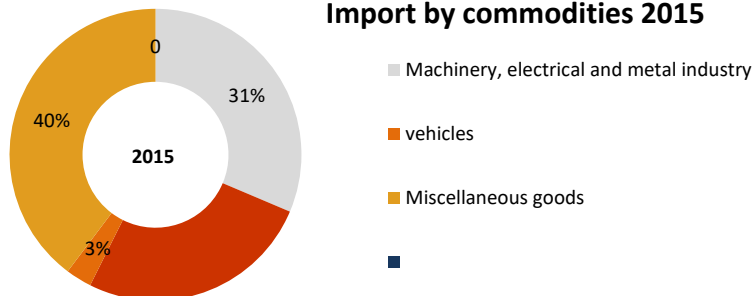
#### Import by commodities 2008



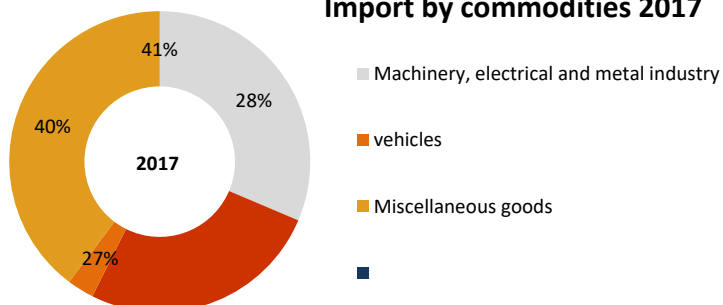
#### Import by commodities 2013



#### Import by commodities 2015



#### Import by commodities 2017





## 5. a) Value-Weight Factors

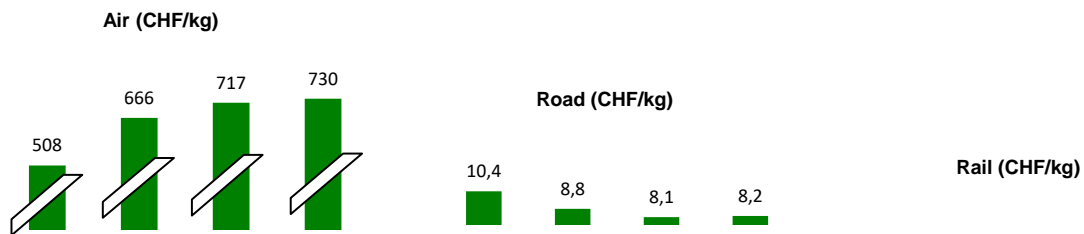
Type of transport	Year	Values per kg/EXP [CHF/kg]	Values per kg/IMP [CHF/kg]
Air	2008	508,4	273,0
	2013	665,8	310,6
	2015	716,6	335,1
	2017	729,9	388,8
Road	2008	10,4	4,8
	2013	8,8	4,1
	2015	8,1	3,7
	2017	8,2	4,1
Rail	2008	3,0	1,9
	2013	2,8	1,7
	2015	3,1	1,5
	2015	2,6	1,3

CHF Exp	Tons Exp	CHF Imp	Tons Imp
61 995 405 351	121 952 833	22 333 824 050	81 806 758
73 763 370 689	110 786 548	23 892 034 351	76 931 962
78 933 921 032	110 147 947	26 063 861 925	77 780 635
83 510 000 000	114 412 000	31 366 000 000	80 667 000
125 616 197 872	12 072 515 600	131 561 000 000	27 691 264 903
113 855 623 186	12 877 258 778	126 848 000 000	31 203 105 812
110 225 816 666	13 545 835 291	119 027 000 000	32 294 258 458
124 460 000 000	15 255 810 000	133 030 000 000	32 797 120 000
3 607 319 761	767 610 985	5 367 802 331	5 869 381 203
3 359 240 806	663 596 023	3 462 772 039	5 683 148 005
3 457 466 564	647 058 268	4 042 323 379	5 372 815 902
3 771 410 240	711 773 076	3 720 021 106	4 784 418 834
4 188 125 178	556 493 738	5 097 419 374	5 995 273 986
4 351 068 680	739 909 647	4 677 090 393	5 471 401 962
8 350 133 182	2 821 094 249	16 446 521 085	8 682 300 671
5 359 445 071	1 923 909 154	12 465 057 457	7 336 286 205
5 880 816 407	1 885 958 671	11 762 178 422	7 980 326 932
5 270 000 000	2 013 710 000	11 090 000 000	8 378 480 000

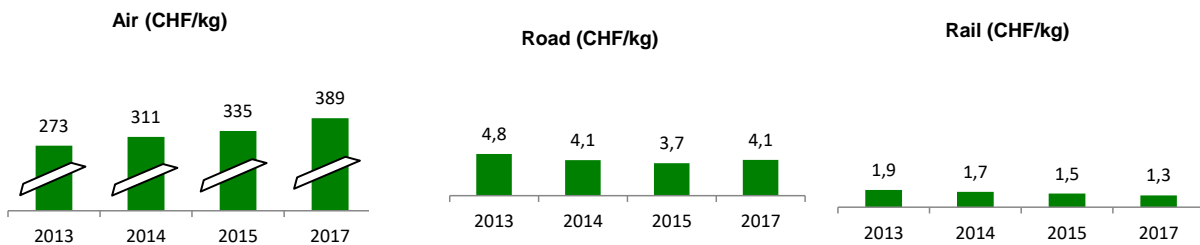
5. a) Value per kg/EXP for each mode of transport

Mode of transport	Year	CHF/kg	CHF/kg
Air	2013	508,4	273,0
	2014	665,8	310,6
	2015	716,6	335,1
	2017	729,9	388,8
Road	2013	10,4	4,8
	2014	8,8	4,1
	2015	8,1	3,7
	2017	8,2	4,1
Rail	2013	3,0	1,9
	2014	2,8	1,7
	2015	3,1	1,5
	2017	2,6	1,3

Export acc. value and mode of transport



Import acc. value and mode of transport



## 5. b) Modal split Import/ Export

		Export Values (CHF)	Export weight (kg)	Importe Values (CHF)	Import weight (kg)
Air	2008	61 995 405 351	121 952 833	22 333 824 050	81 806 758
	2013	73 763 370 689	110 786 548	23 892 034 351	76 931 962
	2015	78 933 921 032	110 147 947	26 063 861 925	77 780 635
	<b>2017</b>	<b>83 820 000 000</b>	<b>119 095 200</b>	<b>31 300 000 000</b>	<b>83 249 600</b>
Road	2008	125 616 197 872	12 072 515 600	131 561 000 000	27 691 264 903
	2013	113 855 623 186	12 877 258 778	126 848 000 000	31 203 105 812
	2015	110 225 816 666	13 545 835 291	119 027 000 000	32 294 258 458
	<b>2017</b>	<b>124 460 000 000</b>	<b>15 255 810 000</b>	<b>133 030 000 000</b>	<b>32 797 120 000</b>
Sea	2008	3 427 635 018	476 926 949	5 367 129 960	5 869 358 786
	2013	4 161 711 955	438 020 823	4 677 385 966	5 471 201 878
	2015	3 884 473 200	419 480 712	3 140 922 127	5 006 261 438
	<b>2017</b>	<b>3 990 000 000</b>	<b>650 200 000</b>	<b>2 960 000 000</b>	<b>4 486 910 000</b>
Rail	2008	8 350 133 182	2 821 094 249	16 446 521 085	8 682 300 671
	2013	5 359 445 071	1 923 909 154	12 465 057 457	7 336 286 205
	2015	5 880 816 407	1 885 958 671	11 762 178 422	7 980 326 932
	<b>2017</b>	<b>5 270 000 000</b>	<b>2 013 710 000</b>	<b>11 090 000 000</b>	<b>8 378 480 000</b>
Others	2008	5 886 051 404	111 823 809	11 175 159 342	8 612 673 363
	2013	3 118 578 004	937 374 955	9 759 629 458	8 618 379 278
	2015	3 465 192 637	1 358 446 571	6 398 145 088	6 595 299 124
	<b>2017</b>	<b>3 042 404 650</b>	<b>2 317 562 978</b>	<b>7 393 762 795</b>	<b>6 573 557 684</b>
Total all	2008	205 275 422 827	15 604 313 440	186 883 634 437	50 937 404 481
	2013	200 258 728 905	16 287 350 258	177 642 107 232	52 705 905 135
	2015	202 390 219 942	17 319 869 192	166 392 107 562	51 953 926 587
	<b>2017</b>	<b>220 582 404 650</b>	<b>20 356 378 178</b>	<b>185 773 762 795</b>	<b>52 319 317 284</b>

\* Incl. Postal traffic, pipeline and self-propulsion

% Shares		Export acc. values (CHF)	Export acc. weight (kg)	Import acc. values (CHF)	Import acc. weight (kg)
Air	2008	30,20%	0,06%	10,88%	0,04%
	2013	36,83%	0,06%	11,93%	0,04%
	2015	39,00%	0,05%	12,88%	0,04%
	<b>2017</b>	<b>38,00%</b>	<b>0,05%</b>	<b>14,19%</b>	<b>0,04%</b>
Road	2008	61,19%	5,88%	64,09%	13,49%
	2013	56,85%	6,43%	63,34%	15,58%
	2015	54,46%	6,69%	58,81%	15,96%
	<b>2017</b>	<b>56,42%</b>	<b>6,92%</b>	<b>60,31%</b>	<b>14,87%</b>
Sea	2008	1,67%	0,23%	2,61%	2,86%
	2013	2,08%	0,22%	2,34%	2,73%
	2015	1,92%	0,21%	1,55%	2,47%
	<b>2017</b>	<b>1,81%</b>	<b>0,29%</b>	<b>1,34%</b>	<b>2,03%</b>
Rail	2008	4,07%	1,37%	8,01%	4,23%
	2013	2,68%	0,96%	6,22%	3,66%
	2015	2,91%	0,93%	5,81%	3,94%
	<b>2017</b>	<b>2,39%</b>	<b>0,91%</b>	<b>5,03%</b>	<b>3,80%</b>
Others	2008	2,87%	0,05%	5,44%	4,20%
	2013	1,56%	0,47%	4,87%	4,30%
	2015	1,71%	0,67%	3,16%	3,26%
	<b>2017</b>	<b>1,38%</b>	<b>1,05%</b>	<b>3,35%</b>	<b>2,98%</b>

62,0006%

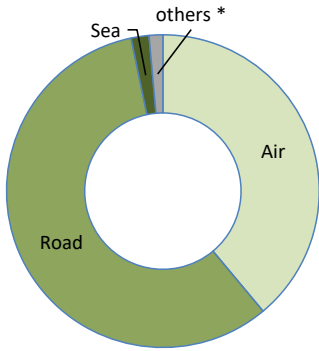
99,9460%

85,8103%

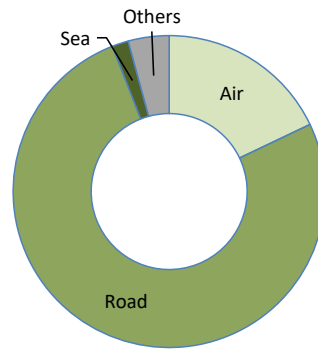
99,9623%



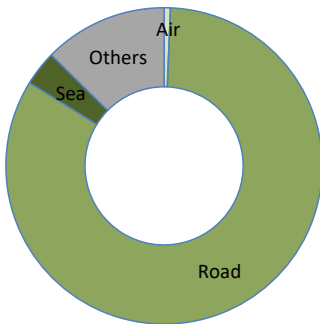
**Export: Split Mode of Transport acc. values(2017)**



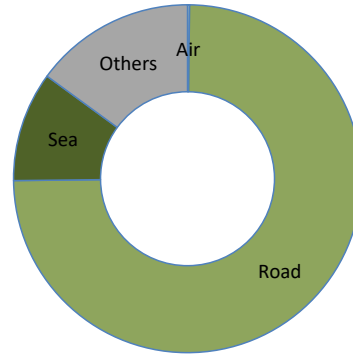
**Import: Split Mode of Transport acc. values(2017)**



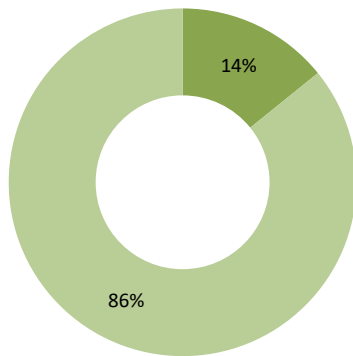
**Export: Split acc. mode of transport weight (2017)**



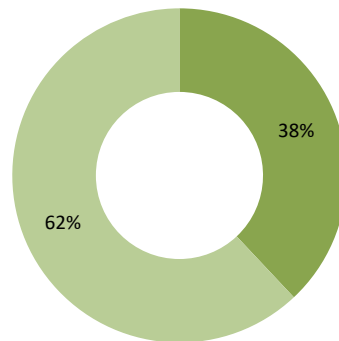
**Import: Mode of Transport acc. weith kg (2017)**



**Import: Share AirCargo acc. value(2017)**

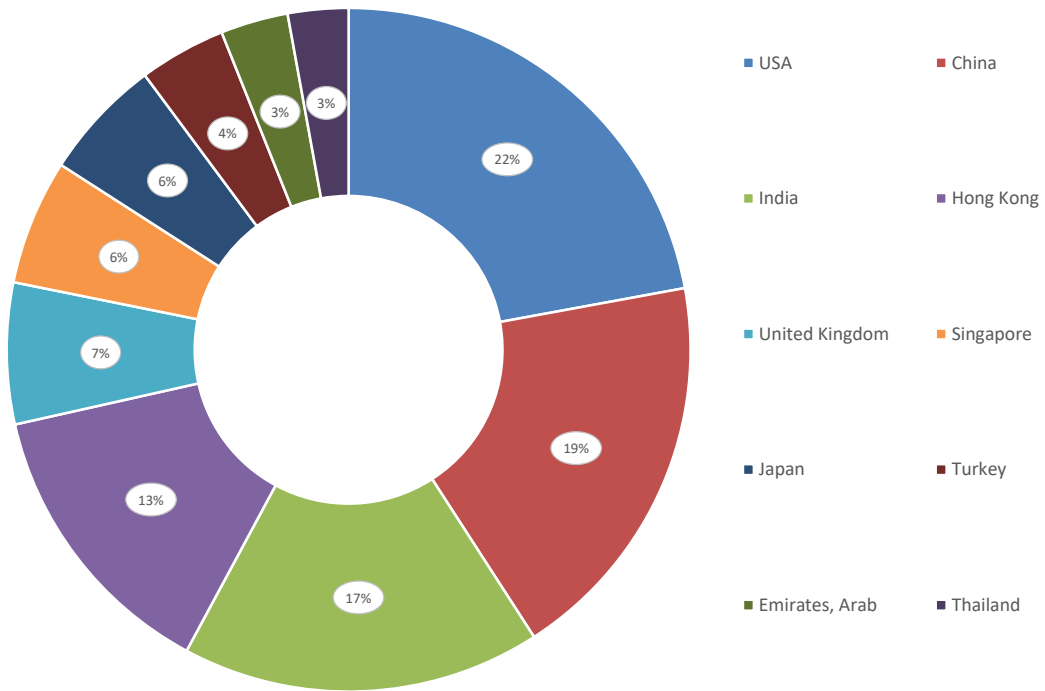


**Export: Anteil Luft nach Wert (2017)**





**Top Export Countries 2017 (Air Cargo acc. Value)**



**Top Import Countries 2017 (Air Cargo acc. Value)**

