

Key Helicopter Statistics

HAI is a focal point for statistical information on our industry. We are continuing our efforts to provide better statistics on the industry, both nationally and internationally. We have carefully reviewed these statistics and they are the most accurate available. We will continue to work with Teal Group, the Aerospace Industries Association, as well as the National Transportation Safety Board, the FAA, and other government agencies to provide consistently accurate data on the helicopter industry.

U.S. helicopter fleet by model series

The following section breaks down the U.S. fleet of civil registered helicopters by manufacturer, model, and series as of October 2007. Age is computed as average of total count on production helicopters with verifiable years of manufacture.

Civil Helicopter Shipments^a Calendar Years 2003-2007

Company and Model	2003	2004	2005	2006	2007
CIVIL SHIPMENTS					
Number of Aircraft	517	805	947	1,044	1009
Value (Millions of Dollars)	\$366	\$515	\$816	\$802	\$1,385
Brantly—TOTAL	1	—	2	—	—
B-2B	1	—	2	—	—
Enstrom—TOTAL	17	23	29	23	19
F-28/280 series	7	5	15	10	6
480 series	10	18	14	13	13
MD Helicopters^b—TOTAL	16	10	3	13	18
500 series	3	1	—	DNR	3
520N series	1	—	2	DNR	3
530 series	3	1	—	DNR	2
600 series	1	4	1	DNR	3
900 series	8	4	—	—	7
Robinson—TOTAL	422	690	806	749	823
R22	128	234	243	97	159
R44	294	456	563	652	654
Schweizer—TOTAL	38	48	58	61	70
300C	20	13	12	12	11
300CB/300CBi	15	27	40	44	51
330/333	3	8	6	5	8
Sikorsky—TOTAL	23	34	49	52	79
S-70	—	1	—	—	—
S-76	23	29	30	36	50
S-92	—	4	19	16	29
Bell—TOTAL	105	111	123	159	181
206B	10	7	16	20	28
206L/LT	6	18	22	21	24
407	46	40	41	67	73
412	29	33	29	35	39
427	7	9	5	7	10
430	7	4	10	9	7

Source: Aerospace Industries Association, based on company reports.

Note: All data exclude production by foreign licensees.

a. Domestic and export helicopter shipments for non-military use. Helicopters in military configuration exported to foreign governments and purchased under commercial contract are reported elsewhere.

Please note that shipments from Bell Helicopter's Canadian facilities are excluded as are other foreign produced helicopters, but reported separately below for information purposes only.

b. Formerly reported as McDonnell Douglas.

DNR. Firm did not report information.

U.S. civil helicopter production

Year	Domestic	Export	Total
1983	187	216	403
1984	143	233	376
1985	247	137	384
1986	120	210	330
1987	116	242	358
1988	103	280	383
1989	221	294	515
1990	254	349	603
1991	253	318	571
1992	112	212	324
1993	83	175	258
1994	154	154	308
1995	82	210	292
1996	64	214	278
1997	87	259	346
1998	125	238	363
1999	180	181	361
2000	189	304	493
2001	106	309	415
2002	24	294	318
2003	118	399	517
2004	238	567	805
2005	240	707	947
2006	212	686	898
2007	108	901	1,009

Source: Aerospace Industries Association



AEROSPACE FOREIGN TRADE

Export Activity - Annual 2007

(Value Figures in Millions of Dollars)

	CIVIL		MILITARY		TOTAL	
	Number	Value	Number	Value	Number	Value
TOTAL AEROSPACE EXPORTS (2007)	--	\$83,977.2	--	\$13,246.6	--	\$97,223.9
COMPLETE AIRCRAFT, NEW	4,530	47,558.1	690	4,173.8	5,220	51,731.9
Fighters & Bombers	--	--	51	2,302.8	51	2,302.8
Transports:	384	40,296.5	10	789.3	394	41,085.9
Passenger	369	37,153.7	7	332.0	376	37,485.8
Cargo	15	3,142.8	3	457.3	18	3,600.1
Other Combinations	--	--	--	--	--	--
General Aviation:	1,088	3,910.6	--	--	1,088	3,910.6
Single Engine	587	204.0	--	--	587	204.0
Multi Engine:	501	3,706.5	--	--	501	3,706.5
Small	125	48.5	--	--	125	48.5
Medium	99	447.7	--	--	99	447.7
Large:	277	3,210.3	--	--	277	3,210.3
Turbojet / Turbofan	266	3,068.4	--	--	266	3,068.4
Others	11	142.0	--	--	11	142.0
Helicopters:	901	1,117.1	374	791.3	1,275	1,908.4
Small	777	212.4	326	43.8	1,103	256.3
Large	124	904.7	48	747.5	172	1,652.2
Others:	2,157	2,233.9	255	290.3	2,412	2,524.2
Used / Rebuilt	1,340	2,196.6	95	118.7	1,435	2,315.4
New Others	817	37.3	160	171.5	977	208.8
AIRCRAFT ENGINES	21,726	7,126.9	35,288	414.5	57,014	7,541.4
Turbine Engines	13,303	6,952.7	2,098	277.1	15,401	7,229.8 A
Piston Engines:	8,423	174.2	33,190	137.4	41,613	311.6
New:	2,091	46.7	--	--	2,091	46.7
Small	712	22.0	--	--	712	22.0
Large	1,379	24.7	--	--	1,379	24.7
Used/Rebuilt	6,332	127.5	--	--	6,332	127.5
AIRCRAFT & ENGINE PARTS	--	28,468.9	--	7,184.9	--	35,653.8
Aircraft Parts	--	17,570.3	--	5,915.8	--	23,486.1 A
Engine Parts:	--	10,898.6	--	1,269.2	--	12,167.8
Turbine	--	10,780.1	--	1,187.0	--	11,967.2 A
Piston	--	118.5	--	82.1	--	200.6
OTHER CRAFT & PARTS	--	810.5	--	114.1	--	924.6
Spacecraft	--	14.1	--	--	--	14.1 A
Satellites & Parts	3	618.1	3	32.5	6	650.6 A
Parachutes & Parts	--	19.1	--	19.1	--	38.3 A
Material/Spare Parts	--	159.2	--	62.4	--	221.7 A
MISSILES, ROCKETS, ENGINES & PARTS	--	12.7	--	1,359.3	--	1,372.0
Missiles & Rockets	--	--	10,638	743.3	10,638	743.3
Missile & Rocket Engines	882	10.9	139	4.1	1,021	15.0 A
Missile & Rocket Parts:	--	1.8	--	611.8	--	613.7 A
Engine Parts	--	1.8	--	--	--	1.8
Other Parts	--	--	--	611.8	--	611.8

Source: Aerospace Industries Association, based on data from the U.S. Department of Commerce.

A - This category contains figures for products whose use (civil or military) is unspecified by the Harmonized Tariff Schedule.

U.S. Civil Helicopter Safety Trends

The following tables reflect the most recent data compiled by the National Transportation Safety Board (NTSB) and Federal Aviation Administration (FAA).

Civil helicopters: estimated hours flown & number of departures (100K)

	2004	2005	2006	2007	2008
Total helicopter hours flown	2,534	3,056	3,281	3,451	3,813
Total helicopter departures	7,602	9,168	9,843	10,353	11,439
Total single engine turbine hours flown	1,515	1,829	1,894	1,961	2,153
Total multi-engine turbine hours flown	0,505	0,610	0,632	0,654	0,538
Total reciprocating engine hours flown	0,514	0,617	0,755	0,836	1,122

**The figure "departure" for helicopters is based upon three flights per hour.

Number of civil helicopter accidents

	2004	2005	2006	2007	2008
Total number of civil helicopter accidents	180	193	162	175	140
Total number of fatal helicopter accidents	33	26	25	23	29
Total number of fatalities	68	44	43	43	75
Total number of serious injuries	38	44	34	34	28
Total number of minor injuries	68	74	64	55	40

Helicopter accident rate per 100,000 flying hours

	2004	2005	2006	2007	2008
Accident rate	7.10	6.32	4.94	5.07	3.67
Fatal accident rate	1.30	0.85	0.76	0.67	0.76
Fatal injuries rate	2.68	1.44	1.31	1.25	1.97

Helicopter accident rate per 100,000 departures

	2004	2005	2006	2007	2008
Accident rate	2.37	2.11	1.65	1.69	1.22
Fatal accident rate	0.43	0.28	0.25	0.22	0.25
Fatal injuries rate	0.89	0.48	0.44	0.42	0.65

Number of civil helicopter accidents by engine type

	2004	2005	2006	2007	2008
Single Engine Turbine: Total number of accidents	78	73	63	71	50
Total number of fatal accidents	18	15	8	13	11
Total number of fatalities	36	27	14	23	37
Multi-Engine Turbine: Total number of accidents	11	18	14	9	11
Total number of fatal accidents	3	4	4	1	3
Total number of fatalities	15	7	7	4	20
Reciprocating Engine: Total number of accidents	91	102	84	97	79
Total number of fatal accidents	12	7	13	8	15
Total number of fatalities	17	10	22	16	11

Helicopter accident rates per 100,000 flying hours by engine type

	2004	2005	2006	2007	2008
Single engine turbine: Accident rate	5.15	3.99	3.33	3.62	2.32
Fatal accident rate	1.19	0.82	0.42	0.66	0.51
Multi-engine turbine: Accident rate	2.18	2.95	2.22	1.38	2.04
Fatal accident rate	0.59	0.66	0.63	0.15	0.56
Reciprocating engine: Accident rate	17.70	16.53	11.13	11.60	7.04
Fatal accident rate	2.33	1.03	1.72	0.96	1.34

*Accident figures for 2007 are estimated based upon NTSB accidents posted through January 10, 2008.

Sources: FAA Aerospace Forecasts Fiscal Years 2007-2020 Surveys; NTSB Accident Data Base.

Annual U.S. Exports of Civil Helicopters* 2004-2007

Region of Destination	2004	2005	2006	2007
Africa	46	78	88	76
Asia	38	44	43	84
Canada / Greenland	31	40	55	51
Europe	278	299	311	407
Latin America / Caribbean	28	42	65	73
Middle East	7	13	15	11
Oceania	139	191	109	199
Total Exported	567	707	686	901

* Excludes used helicopters.

Value in Millions of Dollars	2004	2005	2006	2007
Africa	\$38.7	\$69.5	\$130.4	\$51.9
Asia	\$48.1	\$82.4	\$99.4	\$349.9
Canada / Greenland	\$37.9	\$57.8	\$55.4	\$38.8
Europe	\$99.7	\$217.4	\$240.1	\$514.4
Latin America / Caribbean	\$55.0	\$46.7	\$57.5	\$80.4
Middle East	\$10.2	\$57.2	\$36.1	\$22.8
Oceania	\$23.3	\$33.6	\$52.5	\$58.8
Total Value	\$312.8	\$564.7	\$671.3	\$1,117.1

Source: Aerospace Industries Association, based on data from the U.S. Department of Commerce.

Annual U.S. Imports of Civil Helicopters* 2004-2007

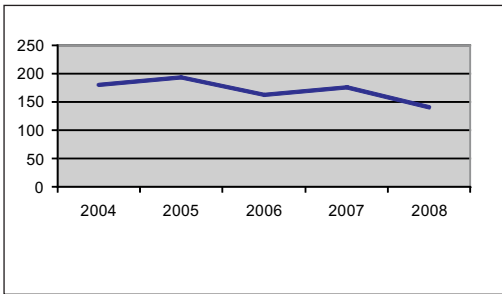
Country of Origin	2004	2005	2006	2007
Canada	86	96	118	136
France	80	61	68	80
Germany	22	28	52	69
Italy	23	33	19	13
Others**	16	13	1	8
Total Imported	227	231	258	306

Value in Millions of Dollars	2004	2005	2006	2007
Canada	\$239.5	\$221.1	\$287.0	\$434.9
France	\$107.1	\$73.8	\$87.7	\$110.2
Germany	\$72.5	\$92.2	\$184.2	\$245.7
Italy	\$70.6	\$123.8	\$127.4	\$95.4
Others**	\$2.0	\$2.2	\$0	\$2.4
Total Value	\$491.7	\$513.2	\$686.3	\$888.6

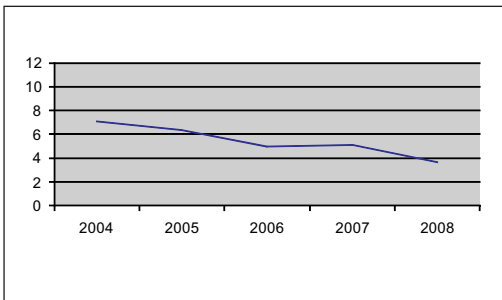
Source: Aerospace Industries Association, based on data from the U.S. Department of Commerce.

* Excludes used helicopters.

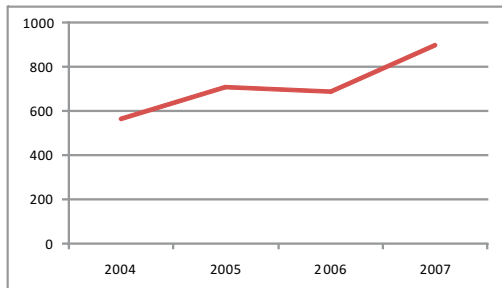
Number of Civil Helicopter Accidents



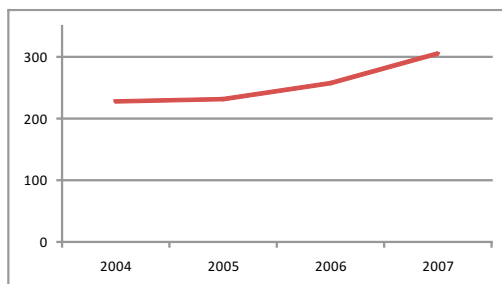
Helicopter Accident Rate
(per 100,000 flight hours)



Annual U.S. Exports of Civil Helicopters (2002-2007)



Annual U.S. Imports of Civil Helicopters (2002-2007)



"When once you have tasted flight, you will forever walk the earth with your eyes turned skyward, for there you have been, and there you will always long to return."
~Leonardo da Vinci

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