



GENERAL AVIATION

Statistical Databook **2002**



***General Aviation
Manufacturers Association***

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FOREWORD

GENERAL AVIATION is defined as all aviation other than commercial and military aviation. It is also one of our nation's most important and dynamic industries, flying over 29 million hours (nearly two times the airline flight hours) and carrying 166 million passengers annually. General aviation is relied on exclusively by more than 5,000 communities for their air transportation needs (scheduled airlines serve less than 500). Nearly 70 percent of the hours flown by general aviation are for business and commercial purposes.

The General Aviation Manufacturers Association (GAMA) is a national trade association proudly representing over 50 manufacturers of fixed-wing general aviation aircraft, engines, avionics and component parts. GAMA member companies also operate aircraft fleets, airport fixed-based operations, pilot schools and training facilities across the nation.

Headquartered in Washington, DC, GAMA represents the interests of its members before the United States Congress, the Department of Transportation, the Federal Aviation Administration and other federal and state government agencies. It also maintains close working relationships with other associations representing various segments of the aviation community. Through its public information and education programs, GAMA promotes better understanding of aviation and the important role general aviation plays in the national air transportation system.

The *General Aviation Statistical Databook* is a useful tool for those examining our industry. In order to provide the most current statistics, GAMA publishes the *Databook* immediately following the release of the FAA's annual *General Aviation and Air Taxi Activity and Avionics Survey* and *Aviation Forecasts* publications.

We hope you will keep your *Databook* handy as a quick reference for all your questions about general aviation.

For more information on general aviation, chartering or buying an aircraft, learning to fly, or joining one of the many aviation organizations serving the community, call or write GAMA, or visit our Web site at www.GAMA.aero



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General Aviation Airplane Shipments





SHIPMENTS AND BILLINGS: MANUFACTURED WORLDWIDE

GAMA expanded its quarterly shipment report in 2002 to include the shipments and billings of non-US manufacturers. Historical data for 2000 and 2001 were collected for comparison purposes. The *Databook* now includes limited statistics on shipments and billings of aircraft manufactured worldwide. We plan to expand on this data in the future.

Annual Shipments of General Aviation Airplanes Manufactured Worldwide by Units Shipped, Number of Companies Reporting and Factory Net Billings

Year	Units Shipped	Companies Reporting	Factory Net Billings (Millions)
2000	3,140	—	\$13,497.0
2001R	2,994	21	13,866.6
2002	2,539	22	11,868.3

Annual General Aviation Airplane Shipments Manufactured Worldwide by Type of Airplane

Year	Grand Total	Single-Engine	Multi-Engine	Total Piston	Turboprop	Jet	Total Turbine
2000	3,140	1,862	103	1,965	415	760	1,175
2001R	2,994	1,644	147	1,791	421	782	1,203
2002	2,539	1,446	130	1,576	280	683	963

Source: GAMA

SHIPMENTS: MANUFACTURED IN U.S. ONLY



Annual Shipments of New U.S. Manufactured General Aviation Airplanes by Units Shipped, Number of Companies Reporting and Factory Net Billings

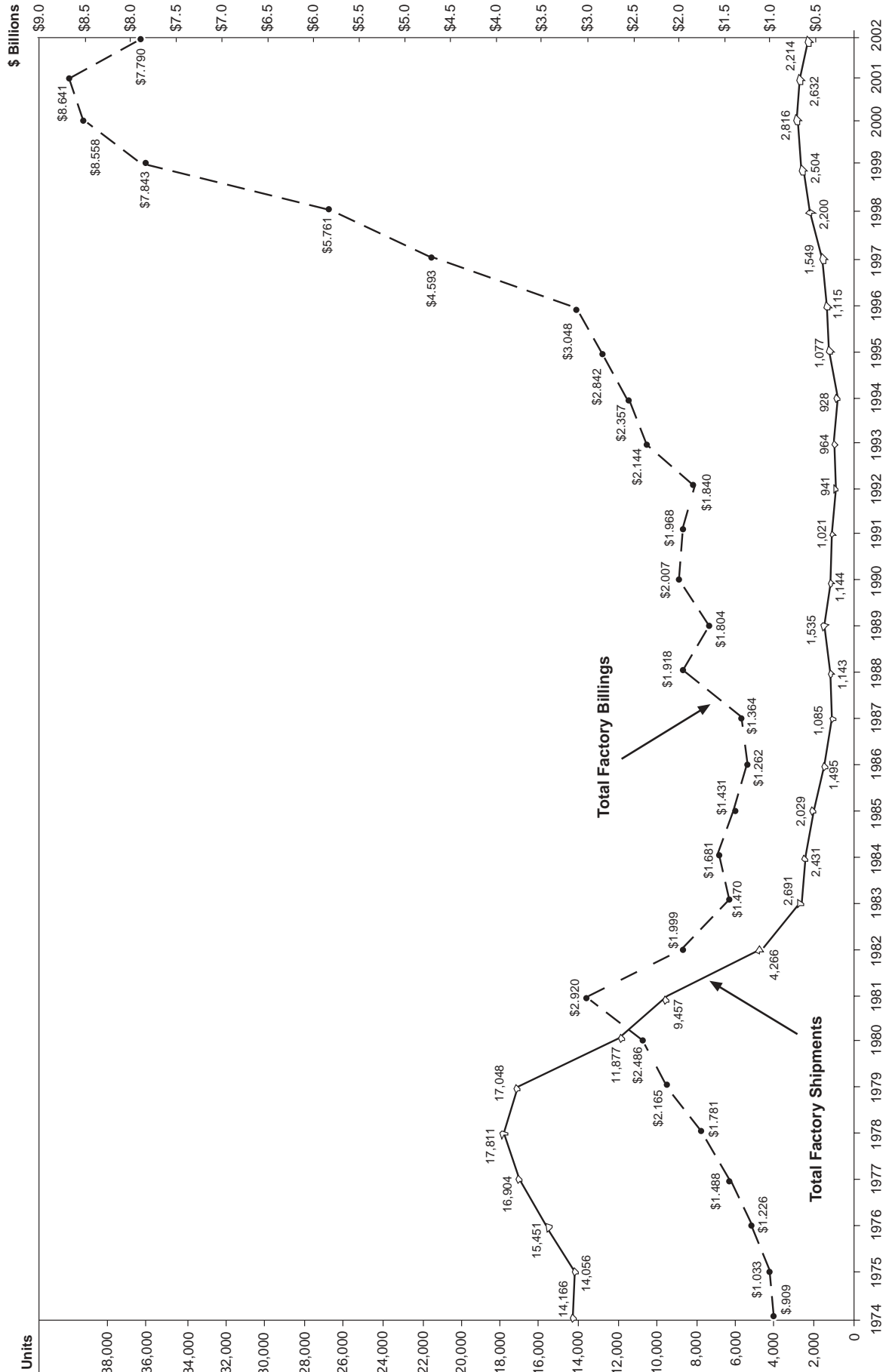
Year	Units Shipped	Companies Reporting	Factory Net Billings (Millions)
1946	35,000	—	\$ 110.0
1947	15,594	15	57.9
1948	7,037	12	32.4
1949	3,405	11	17.7
1950	3,386	13	19.1
1951	2,302	12	16.8
1952	3,058	8	26.8
1953	3,788	7	34.4
1954	3,071	7	43.4
1955	4,434	7	68.2
1956	6,738	8	103.7
1957	6,118	9	99.6
1958	6,414	10	101.9
1959	7,689	9	129.8
1960	7,588	8	151.2
1961	6,778	8	124.3
1962	6,697	7	136.8
1963	7,569	7	153.4
1964	9,336	8	198.8
1965	11,852	8	318.2
1966	15,768	10	444.9
1967	13,577	14	359.6
1968	13,698	14	425.7
1969	12,457	14	584.5
1970	7,292	13	337.0
1971	7,466	11	321.5
1972	9,774	12	557.6
1973	13,646	12	828.1
1974	14,166	12	909.4
1975	14,056	12	1,032.9
1976	15,451	12	1,225.5
1977	16,904	12	1,488.1
1978	17,811	12	1,781.2
1979	17,048	12	2,165.0
1980	11,877	12	2,486.2
1981	9,457	12	2,919.9
1982	4,266	11	1,999.5
1983	2,691	10	1,469.5
1984	2,431	9	1,680.7
1985	2,029	9	1,430.6
1986	1,495	9	1,261.9
1987	1,085	9	1,363.5
1988	1,143	9	1,918.4
1989	1,535	11	1,803.9
1990	1,144	14	2,007.5
1991	1,021	14	1,968.3
1992	941	16	1,839.6
1993	964	16	2,143.8
1994	928	13	2,357.1
1995	1,077	13	2,841.9
1996	1,115	13	3,047.5
1997	1,549	12	4,592.9
1998	2,200	12	5,761.2
1999	2,504	13	7,843.0
2000	2,816	15	8,558.4
2001	2,632	14	8,641.1
2002	2,214	12	7,790.4

Source: GAMA



SHIPMENTS AND BILLINGS: MANUFACTURED IN U.S. ONLY

Annual New U.S. Manufactured General Aviation Unit Shipments/Billings



Source: GAMA

SHIPMENTS BY TYPE: MANUFACTURED IN U.S. ONLY



Annual New U.S. Manufactured General Aviation Airplane Shipments by Type of Airplane

Year	Grand Total	Single-Engine	Multi-Engine	Total Piston	Turboprop	Jet	Total Turbine
1965	11,852	9,873	1,780	11,653	87	112	199
1966	15,768	13,250	2,192	15,442	165	161	326
1967	13,577	11,557	1,773	13,330	149	98	247
1968	13,698	11,398	1,959	13,357	248	93	341
1969	12,457	10,054	2,078	12,132	214	111	325
1970	7,292	5,942	1,159	7,101	135	56	191
1971	7,466	6,287	1,043	7,330	89	47	136
1972	9,774	7,913	1,548	9,446	179	134	313
1973	13,646	10,788	2,413	13,193	247	198	445
1974	14,166	11,579	2,135	13,697	250	202	452
1975	14,056	11,441	2,116	13,555	305	194	499
1976	15,451	12,785	2,120	14,905	359	187	546
1977	16,904	14,054	2,195	16,249	428	227	655
1978	17,811	14,398	2,634	17,032	548	231	779
1979	17,048	13,286	2,843	16,129	639	282	921
1980	11,877	8,640	2,116	10,756	778	326	1,104
1981	9,457	6,608	1,542	8,150	918	389	1,307
1982	4,266	2,871	678	3,549	458	259	717
1983	2,691	1,811	417	2,228	321	142	463
1984	2,431	1,620	371	1,991	271	169	440
1985	2,029	1,370	193	1,563	321	145	466
1986	1,495	985	138	1,123	250	122	372
1987	1,085	613	87	700	263	122	385
1988	1,143	628	67	695	291	157	448
1989	1,535	1,023	87	1,110	268	157	425
1990	1,144	608	87	695	281	168	449
1991	1,021	564	49	613	222	186	408
1992	941	552	41	593	177	171	348
1993	964	516	39	555	211	198	409
1994	928	444	55	499	207	222	429
1995	1,077	515	61	576	255	246	501
1996	1,115	607	42	649	223	233	466
1997	1,549	898	86	984	223	342	565
1998R	2,200	1,434	94	1,528	259	413	672
1999	2,504	1,634	114	1,748	239	517	756
2000	2,816	1,810	103	1,913	315	588	903
2001	2,632	1,581	147	1,728	306	598	904
2002	2,214	1,366	130	1,496	187	531	718

R=Revised

Source: GAMA

Estimated Value of Annual New U.S. Manufactured General Aviation Airplane Shipments by Type of Airplane (In Millions)

Year	**Grand Total	Single-Engine	Multi-Engine	Total Piston	Turboprop	Jet	Total Turbine
1978	\$ 1,781	\$ 516	\$ 493	\$ 1,009	\$ 394	\$ 378	\$ 772
1979	2,165	523	555	1,078	548	540	1,088
1980	2,486	391	403	794	875	816	1,691
1981	2,920	327	348	675	1,120	1,125	2,245
1982	2,000	200	220	420	590	990	1,580
1983	1,470	145	115	260	460	750	1,210
1984	1,681	147	133	280	436	966	1,402
1985	1,431	126	68	194	524	713	1,237
1986	1,262	80	43	123	430	709	1,139
1987	1,364	80	18	98	477	789	1,266
1988	1,918	66	12	78	596	1,242	1,838
1989	1,804	104	24	128	524	1,149	1,673
1990	2,008	68	24	92	644	1,272	1,916
1991	1,968	*	*	93	527	1,348	1,875
1992	1,840	*	*	96	460	1,284	1,744
1993	2,144	*	*	76	595	1,473	2,068
1994	2,357	*	*	81	595	1,681	2,276
1995	2,842	*	*	123	653	2,066	2,719
1996	3,127	*	*	142	715	2,191	2,906
1997	4,674	*	*	200	727	3,653	4,380
1998	5,874	*	*	330	763	4,668	5,431
1999	7,843	*	*	385	658	6,800	7,458
2000	8,558	*	*	446	934	7,178	8,112
2001	8,641	*	*	471	742	7,428	8,170
2002	7,790	*	*	283	487	7,021	7,508

*Multi-Engine combined with Single-Engine Piston.

**Some Totals do not add up due to rounding.

Source: GAMA



SHIPMENTS BY YEAR AND BY QUARTER : MANUFACTURED IN U.S. ONLY

U.S. Manufactured General Aviation Airplane Shipments by Year and Quarter

YEAR	QUARTER I	QUARTER II	QUARTER III	QUARTER IV	YEAR END
1966*	3,855	4,266	3,881	3,585	15,768
1967*	3,392	3,480	2,801	3,811	13,577
1968*	3,661	3,545	3,282	3,068	13,698
1969*	3,297	3,592	2,825	2,693	12,457
1970*	1,929	2,099	1,749	1,500	7,292
1971*	1,771	1,902	1,903	1,770	7,466
1972	2,157	2,564	2,417	2,636	9,744
1973	3,246	3,555	3,442	3,403	13,646
1974	3,493	3,576	3,488	3,609	14,166
1975	3,777	3,562	3,291	3,426	14,056
1976	3,949	4,159	3,479	3,864	15,451
1977	4,124	4,513	3,985	4,282	16,904
1978	4,176	4,621	4,672	4,342	17,811
1979	4,259	4,602	4,426	3,761	17,048
1980	3,512	2,756	2,796	2,813	11,877
1981	2,389	2,631	2,529	1,908	9,457
1982	1,390	1,126	890	860	4,266
1983	659	709	717	606	2,691
1984	523	563	681	664	2,431
1985	455	519	581	474	2,029
1986	285	364	393	453	1,495
1987	227	330	239	289	1,085
1988	260	291	252	340	1,143
1989	304	361	425	445	1,535
1990	269	294	274	297	1,144
1991	250	262	237	272	1,021
1992*	193	200	238	225	941
1993*	170	194	246	260	964
1994*	181	225	209	266	928
1995*	208	248	257	315	1,077
1996*	229	284	230	310	1,115
1997*	253	337	367	525	1,549
1998*	481	486	546	602	2,200
1999*	502	611	606	702	2,504
2000*	613	704	685	712	2,816
2001	568	711	586	673	2,632
2002	442	576	510	648	2,214

*Quarterly figures do not sum to annual because some manufacturers reported annual shipments only.

Source: GAMA

U.S. Civil Airplane Imports from Overseas (1998-2002) Units and Dollar Value (In Millions)

	1998		1999		2000		2001		2002	
	Units	Dollars	Units	Dollars	Units	Dollars	Units	Dollars	Units	Dollars
Single-Engine	102	\$81.3	162	\$145.5	142	\$134.8	144	\$161.2	223	\$136.5
Multi-Engine—under 4,400 lbs	4	\$3.6	3	\$0.2	4	\$2.5	0	\$0.0	4	\$1.7
Multi-Engine—4,400-10,000 lbs	3	\$6.4	1	\$4.5	7	\$15.0	14	\$35.8	25	\$70.0
Multi-Engine—Turbojet/Turbofan 10,000-33,000 lbs.	171	\$2,860.8	239	\$3,879.1	286	\$4,647.8	345	\$5,879.4	343	\$6,141.3
Muti-Engine—Other —including Turboshaft 10,000-33,000 lbs	60	\$578.3	27	\$249.7	21	\$205.0	16	\$206.4	2	34.1
TOTAL	282	\$2,513.7	432	\$4,279.0	460	\$5,005.1	519	\$6,282.8	597	\$6,383.6

Source: Aerospace Industries Association

U.S. EXPORTS



Annual New U.S. Manufactured General Aviation Airplane Exports

Year	Units Exported	% of Total Production	Factory Net Billings (Millions)	% of Total Dollars
1968	2,803	20.5%	91.5	21.5%
1969	2,623	21.1%	107.1	18.3%
1970	2,170	29.8%	98.9	29.3%
1971	1,854	24.8%	95.6	29.7%
1972	2,254	23.1%	137.9	24.7%
1973	3,530	25.9%	230.2	27.8%
1974	4,248	30.0%	287.5	31.6%
1975	3,512	25.0%	308.1	29.8%
1976	3,539	22.9%	331.2	27.0%
1977	3,611	21.4%	354.5	23.8%
1978	3,612	20.3%	486.7	27.3%
1979	3,995	23.4%	600.9	27.8%
1980	3,555	29.9%	756.4	30.4%
1981	2,270	24.0%	749.0	25.7%
1982	1,162	27.2%	650.2	32.5%
1983	513	19.1%	316.5	21.5%
1984	334	13.7%	260.7	15.5%
1985	354	17.4%	230.0	16.1%
1986	441	29.5%	343.6	27.2%
1987	439	40.5%	469.3	34.4%
1988	425	37.2%	626.8	32.7%
1989	566	36.9%	587.0	32.5%
1990	458	40.0%	872.2	43.4%
1991	382	37.4%	807.0	41.0%
1992	353	39.0%	608.7	33.0%
1993	349	36.2%	856.8	40.0%
1994	277	29.8%	684.2	29.0%
1995	315	29.3%	815.9	28.7%
1996	345	30.5%	903.0	28.9%
1997	449	28.6%	1,504.6	32.2%
1998	535	24.1%	1,640.1	27.9%
1999	562	22.3%	2,503.8	31.6%
2000	569	20.2%	1,957.5	22.9%
2001R	505	19.2%	2,380.6	27.5%
2002	373	16.8%	1,980.9	25.4%

Source: GAMA

Annual New U.S. Manufactured General Aviation Airplane Exports by Type

Year	Single-Engine Piston	Multi-Engine Piston	Turboprop	Turbojet
1975	2,680	644	122	66
1976	2,704	669	114	52
1977	2,835	594	126	56
1978	2,712	652	166	82
1979	2,942	774	181	98
1980	2,565	635	245	110
1981	1,546	363	259	102
1982	718	227	135	82
1983	298	119	66	30
1984	199	79	25	31
1985	208	69	49	28
1986	272	69	68	32
1987	252	60	78	49
1988	220	52	91	62
1989	385	46	78	57
1990	224	57	86	91
1991	204	25	74	79
1992	196	16	90	51
1993	149	23	109	68
1994	84	42	84	67
1995	130	30	85	70
1996	126	24	135	60
1997	199	25	126	99
1998	268	30	131	106
1999	237	23	42	158
2000	285	24	112	148
2001	175	42	118	170
2002	135	23	79	136

Source: GAMA

General Aviation Fleet and Flight Activity





U.S. FLEET AND FLIGHT HOURS BY TYPE AND USE

Number of Active General Aviation and Air Taxi Aircraft by Type and Primary Use in 2000 (Excluding Commuters)

Aircraft Type	Active GA Aircraft	Public Use	Corporate	Business	Personal	Instruc-tional	Aerial Applica-tion	Aerial Observa-tion	Aerial Other	Sight-Seeing	External Load	Air Tours	Air Taxi	Medical	Other
ALL AIRCRAFT-TOTAL	217,533		11,003	25,169	148,192	14,883	4,294	5,093	1,022	881	234	333	3,686	930	1,787
PISTON-Total	170,513		2,352	22,740	121,471	13,271	3,174	3,255	530	241	0	122	2,042	219	1,084
One-Engine	149,422		638	16,826	111,525	12,237	3,136	2,840	273	204	0	81	550	138	959
Two-Engine	20,951		1,714	5,904	9,901	1,034	23	415	215	21	0	41	1,492	81	110
Other Piston	140		0	11	45	0	15	0	42	12	0	0	0	0	15
TURBOPROP-Total	5,762		2,831	1,145	520	21	367	69	20	4	0	0	536	76	37
One-Engine	678		15	99	41	0	365	17	18	0	0	0	105	9	9
Two-Engine	5,040		2,831	1,046	479	21	0	19	116	0	0	0	431	66	26
Other Turboprop	45		0	0	0	0	2	32	9	0	0	0	0	0	1
TURBOJET-Total	7,001		5,078	466	526	33	170	21	0	0	0	0	649	24	33
Two-Engine	6,215		4,529	441	496	33	0	21	18	0	0	0	638	24	33
Other Turbojet	786		548	25	31	0	170	0	0	0	0	0	11	0	0
ROTORCRAFT-Total	7,150		578	342	1,262	725	513	1,691	323	117	221	166	424	570	211
Piston	2,680		64	141	1,024	591	261	309	73	81	30	30	24	0	51
Turbine	4,470		514	201	239	134	252	1,382	250	36	191	136	400	570	160
One-Engine	3,776		369	178	213	128	246	1,376	239	36	121	136	345	236	148
Two-Engine	694		145	6	26	6	6	6	12	0	70	0	55	334	12
GLIDERS-Total	2,041		0	13	1,732	248	0	0	0	18	0	8	0	0	22
LIGHTER-THAN-AIR-Total	4,660		0	6	3,770	187	0	0	0	499	0	17	0	0	182
EXPERIMENTAL-Total	20,407		165	458	18,910	397	71	56	26	6	13	6	35	41	220
Amateur	16,739		8	212	16,181	331	0	8	0	0	0	0	0	0	0
Exhibition	1,973		0	25	1,817	0	0	0	0	0	0	0	0	0	129
Other	1,694		157	222	912	66	71	48	26	6	13	6	35	41	90

Notes: The FAA discontinued gathering data on Public Use aircraft in calendar year 2000.

Source: FAA

Row and column summation may differ from printed totals due to estimation procedures, or because some active aircraft did not report use.

General Aviation and Air Taxi Hours Flown by Aircraft Type and Primary Use in 2000 (In Thousands of Hours)

Aircraft Type	Active GA Aircraft	Public Use	Corporate	Business	Personal	Instruc-tional	Aerial Applica-tion	Aerial Observa-tion	Aerial Other	Sight-Seeing	External Load	Air Tours	Air Taxi	Medical	Other
ALL AIRCRAFT-TOTAL	30,975		3,765	3,604	11,711	5,375	1,401	1,621	244	198	171	224	1,694	442	522
PISTON-Total	22,199		531	3,138	10,099	5,016	982	931	119	112	4	88	779	72	330
One-Engine	18,798		119	2,321	9,129	4,653	958	805	82	99	3	38	255	39	298
Two-Engine	3,372		411	815	967	363	9	126	32	11	1	51	524	33	29
Other Piston	28		0	1	3	0	15	0	5	2	0	0	0	0	2
TURBOPROP-Total	2,031		1,001	168	112	20	163	36	43	2	0	5	407	35	38
One-Engine	278		5	21	9	3	163	2	6	0	0	0	61	6	3
Two-Engine	1,727		996	147	103	17	0	1	34	2	0	5	347	30	35
Other Turboprop	26		0	0	0	0	1	21	3	0	0	0	0	0	0
TURBOJET-Total	2,755		1,978	150	198	8	78	6	0	1	0	0	313	18	5
Two-Engine	2,338		1,683	124	187	7	0	6	0	1	0	0	306	18	5
Other Turbojet	417		295	26	11	0	78	0	0	0	0	0	7	0	0
ROTORCRAFT-Total	2,308		194	59	112	232	161	632	76	44	151	124	177	296	49
Piston	531		15	22	90	183	69	102	11	18	3	4	5	0	8
Turbine	1,778		179	38	23	49	92	529	65	25	148	120	171	296	42
One-Engine	1,424		106	36	21	46	91	526	47	25	72	120	162	134	39
Two-Engine	353		73	2	2	3	1	2	18	0	76	0	10	162	3
GLIDERS-Total	157		0	3	101	42	0	0	0	8	0	1	0	0	3
LIGHTER-THAN-AIR-Total	217		2	2	94	8	0	0	0	32	0	1	0	0	79
EXPERIMENTAL-Total	1,306		60	84	994	50	17	16	6	1	16	4	19	21	18
Amateur	906		0	39	832	31	0	1	0	0	0	0	0	0	1
Exhibition	114		0	3	100	1	0	0	0	0	0	0	0	0	10
Other	287		60	41	62	18	18	15	6	0	15	4	19	21	8

Notes: The FAA discontinued gathering data on Public Use aircraft in calendar year 2000.

Source: FAA

Row and column summation may differ from printed totals due to estimation procedures, or because some active aircraft did not report use.

FLEET BY AGE

Average Age of the U.S. General Aviation Fleet in 2002



Aircraft Type	Engine Type	Seats	Average Age in Years
Single-Engine	Piston	1-3	36
		4	33
		5-7	28
		8+	43
	Turboprop Jet	All	12
		All	31
Multi-Engine	Piston	1-3	36
		4	33
		5-7	33
		8+	37
	Turboprop Jet	All	26
		All	28
All Aircraft			31

Source: GAMA

FLEET BY GEOGRAPHIC AREA

U.S. Active General Aviation Aircraft by Region and State

FAA Region and State	1996	1997	1998	1999	2000	FAA Region and State	1996	1997	1998	1999	2000
ALASKAN	5,373	6,576	6,607	6,122	5,925	N.W. MOUNTAIN	21,190	21,083	23,296	24,747	24,252
Alaska	5,373	6,576	6,607	N/A	5,925	Colorado	4,310	4,074	4,279	N/A	5,246
CENTRAL	11,230	11,152	11,764	12,808	12,173	Idaho	2,019	1,842	2,006	N/A	2,328
Iowa	2,540	2,488	2,274	N/A	2,772	Montana	1,993	2,105	2,414	N/A	2,374
Kansas	2,989	3,217	3,778	N/A	3,611	Oregon	4,349	4,940	5,317	N/A	4,687
Missouri	3,903	3,900	3,903	N/A	3,777	Utah	1,468	1,240	1,936	N/A	1,673
Nebraska	1,800	1,562	1,810	N/A	2,013	Washington	6,379	5,670	6,348	N/A	7,166
EASTERN	22,407	21,969	26,276	26,360	25,606	Wyoming	672	1,206	998	N/A	778
Delaware	1,775	1,941	5,232	N/A	2,068	SOUTHERN	32,074	31,867	35,958	39,030	39,271
District of Columbia	26	76	7	N/A	152	Alabama	2,784	3,058	3,712	N/A	3,480
Maryland	2,522	2,300	2,408	N/A	3,436	Florida	11,398	12,030	12,785	N/A	14,096
New Jersey	3,510	4,468	3,295	N/A	3,791	Georgia	4,666	4,501	4,826	N/A	4,809
New York	5,439	5,218	5,745	N/A	6,082	Kentucky	1,270	1,398	1,491	N/A	2,033
Pennsylvania	5,348	5,024	5,341	N/A	5,648	Mississippi	2,008	1,752	1,785	N/A	2,038
Virginia	2,748	2,939	3,401	N/A	3,354	North Carolina	4,634	4,257	5,090	N/A	5,620
West Virginia	1,040	976	845	N/A	1,075	Puerto Rico	142	329	384	N/A	278
GREAT LAKES	33,232	35,668	35,719	39,705	37,915	South Carolina	1,738	1,703	2,004	N/A	2,689
Illinois	5,897	6,603	6,908	N/A	7,478	Tennessee	3,330	2,794	3,677	N/A	4,228
Indiana	3,827	3,619	3,939	N/A	3,964	SOUTHWEST	24,359	26,131	27,214	29,321	31,611
Michigan	6,478	6,559	6,902	N/A	7,236	Arkansas	2,597	3,001	2,302	N/A	2,660
Minnesota	3,912	4,753	4,508	N/A	5,141	Louisiana	2,574	3,002	2,968	N/A	3,012
North Dakota	1,361	1,462	1,419	N/A	1,585	New Mexico	1,997	1,756	2,062	N/A	2,990
Ohio	6,377	6,777	6,434	N/A	6,486	Oklahoma	3,411	3,385	3,795	N/A	4,080
South Dakota	1,075	1,131	1,294	N/A	1,376	Texas	13,780	14,988	16,087	N/A	18,869
Wisconsin	4,306	4,782	4,315	N/A	4,649	WESTERN	30,531	30,489	30,118	32,995	32,666
NEW ENGLAND	6,913	7,474	7,758	8,375	8,074	Arizona	4,598	5,051	5,121	N/A	6,062
Connecticut	1,498	1,309	1,830	N/A	1,793	California	23,093	22,384	21,852	N/A	23,454
Maine	886	1,337	1,155	N/A	1,086	Hawaii	364	496	497	N/A	435
Massachusetts	2,526	2,558	2,654	N/A	2,717	Nevada	2,416	2,458	2,648	N/A	2,715
New Hampshire	1,231	1,091	1,309	N/A	1,485	OTHER U.S. TERRITORIES	164	123	204	N/A	42
Rhode Island	330	434	306	N/A	393	GRAND TOTAL	187,312	192,414	204,710	219,464	217,533
Vermont	442	743	505	N/A	600						

Notes: Column total may differ from printed totals due to estimation procedures.
In 1999, only Region Totals were reported.

Source: FAA



EXPERIMENTAL AIRCRAFT FLEET

U.S. Experimental Aircraft Fleet
Estimated Active Aircraft and Hours Flown (1996-2000)

	1996		1997		1998		1999		2000	
	Number Active	Est. Hours Flown (000)	Number Active	Est. Hours Flown (000)	Number Active	Est. Hours Flown (000)	Number Active	Est. Hours Flown (000)	Number Active	Est. Hours Flown (000)
Amateur Built	11,566	524	10,261	698	13,189	729	16,858	879	16,739	906
Exhibition	2,094	192	1,798	246	1,630	73	1,999	121	1,973	114
Other	452	2,965	442	2,620	382	1,684	1,671	247	1,694	287
TOTAL EXPERIMENTAL	16,625	1,158	14,679	1,326	16,502	1,071	20,528	1,247	20,407	1,307
% of G.A. Fleet	8.7%	4.3%	7.6%	4.8%	8.1%	3.8%	9.4%	3.9%	9.4%	4.2%

Note: Prior to 1994, Experimental aircraft included those built without a production certificate. Beginning in 1994 Experimental includes aircraft with an experimental airworthiness certificate. These include research and development, amateur built, exhibition, racing, crew training and market survey aircraft and aircraft used to show compliance with Federal Aviation Regulations.

Source: FAA

FLIGHT HOURS BY TYPE

Estimated Hours Flown in General Aviation and Air Taxi by Type of Aircraft (In Thousands of Hours)



Calendar Year	Total	FIXED WING			ROTORCRAFT		Balloons Dirigibles Gliders	Experimental
		Piston	Turboprop	Turbojet	Piston	Turbine		
1980	41,016	34,747	2,240	1,332	736	1,603	359	N/A
1981	40,704	34,086	2,155	1,387	930	1,754	391	N/A
1982	36,457	29,950	2,168	1,611	579	1,771	379	N/A
1983	35,249	28,911	2,173	1,473	572	1,700	420	N/A
1984	36,119	29,194	2,506	1,566	592	1,903	358	N/A
1985	31,456	25,666	1,921	1,498	521	1,468	382	N/A
1986	31,782	24,805	2,661	1,527	742	1,682	364	N/A
1987	30,883	24,969	2,010	1,411	602	1,506	384	N/A
1988	31,114	24,291	2,195	1,554	533	1,974	568	N/A
1989	32,332	24,907	2,892	1,527	692	1,918	396	N/A
1990	32,096	25,832	2,319	1,396	716	1,493	341	N/A
1991	29,862	23,919	1,628	1,071	549	2,214	483	N/A
1992	26,747	21,417	1,582	1,076	423	1,842	407	N/A
1993	24,455	19,321	1,192	1,121	391	1,308	338	785
1994	24,092	18,823	1,142	1,238	369	1,408	388	724
1995	26,612	20,251	1,490	1,455	337	1,624	261	1,194
1996	26,909	20,091	1,768	1,543	591	1,531	227	1,158
1997	27,713	20,744	1,655	1,713	344	1,740	192	1,327
1998	28,100	20,402	1,765	2,226	430	1,912	295	1,071
1999	31,756	22,895	1,811	2,738	556	2,188	318	1,247
2000	30,975	22,199	2,031	2,755	531	1,777	374	1,307
2001	29,133	20,882	1,913	2,658	583	1,559	324	1,214
2002	29,455	20,900	2,010	2,890	490	1,620	345	1,200

Notes: Columns may not add due to rounding and estimation procedures. Beginning in 1993, commuters were excluded. Source: FAA
 Data for 1995-1996 is revised to reflect new information.
 R=Revised.
 N/A=Not available.

... AND PER AIRCRAFT

Active U.S. General Aviation and Air Taxi Aircraft and Average Hours Flown Annually per Aircraft, by Type

AIRCRAFT TYPE	ESTIMATED ACTIVE AIRCRAFT					ESTIMATED AVERAGE HOURS / AIRCRAFT / YR.				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
ALL AIRCRAFT—TOTAL	187,312	192,414	204,710	219,464	217,533	139	144	137.3	145	142
PISTON—Total	150,980	156,056	162,963	171,923	170,513	130	133	125	133	130
One-Engine	135,244	140,038	144,234	150,886	149,422	127	131	116	128	126
1-3 seats	43,248	45,672	41,753	42,578	42,147	136	145	119	122	126
4 + seats	91,996	94,366	102,480	108,307	107,275	123	124	115	131	126
Two-Engine	15,678	15,938	18,659	20,930	20,951	161	149	191	170	160
1-6 seats	10,410	10,669	12,822	14,244	14,079	152	133	168	144	141
7 + seats	5,267	5,268	5,837	6,685	6,873	179	183	243	224	203
Other Piston	57	79	70	108	140	215	238	164	170	204
TURBOPROP—Total	5,309	5,619	6,174	5,679	5,762	295	295	286	319	353
One-Engine	682	650	1,033	1,018	678	440	493	280	351	411
Two-Engine	4,551	4,939	5,076	4,641	5,040	273	268	288	313	343
1-12 seats	3,697	3,969	4,071	3,658	3,862	258	273	275	283	271
13 + seats	854	970	1,005	983	1,178	340	249	339	423	579
Other Turboprop	75	29	65	21	45	271	304	259	204	575
TURBOJET—Total	4,287	5,178	6,066	7,120	7,001	341	331	367	385	393
Two-Engine	3,971	4,638	5,513	6,387	6,215	341	336	362	381	376
Other Turbojet	315	539	552	733	786	344	288	419	414	531
ROTORCRAFT—Total	6,391	6,786	7,425	7,448	7,150	317	307	315	369	323
Piston—Total	2,415	2,259	2,545	2,564	2,680	238	152	169	217	198
Turbine—Total	3,976	4,527	4,881	4,884	4,470	365	384	392	448	398
One-Engine	3,329	3,762	4,038	4,045	3,776	361	348	351	431	377
Two-Engine	646	764	843	839	694	387	561	590	528	509
GLIDERS—Total	1,882	2,016	2,105	2,041	2,041	76	66	60	76	77
LIGHTER-THAN-AIR—Total	2,261	2,075	3,475	4,725	4,660	32	28	49	35	47
EXPERIMENTAL—Total	16,198	14,680	16,502	20,528	20,407	70	90	65	61	64
Amateur	11,231	10,261	13,189	16,858	16,739	45	68	55	52	54
Exhibition	2,057	1,798	1,630	1,999	1,973	92	137	45	61	58
Other	2,909	2,620	1,684	1,671	1,694	153	146	160	148	169
OTHER—Total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes: Columns may not add due to rounding and estimation procedures.
 Beginning in 1993, commuters were excluded.
 N/A=Not available.

Source: FAA



GENERAL AVIATION OPERATIONS & ACTIVITY

DOMESTIC

Summary of U.S. General Aviation Operation Statistics (1992-2001)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
G.A. Aircraft Handled at ARTCCs	7,393	7,433	7,685	7,824	7,857	8,239	8,745	8,769	8,634	8,024
G.A. Instrument Operations at FAA Facilities*	18,335	17,894	18,049	18,092	17,889	19,093	20,087	21,019	20,731	19,427
Total Aircraft Contacts at FSSs	4,130	3,703	3,509	3,206	2,971	2,803	3,443	3,283	3,143	2,199
G.A. Airport Operations at FAA Control Towers	36,945	35,228	34,692	32,265	29,250	28,232	28,522	28,897	27,015	24,777
Itinerant Operations at FAA Control Towers	21,281	20,377	20,208	18,886	17,575	17,097	17,157	17,310	16,294	14,948
Local Operations at FAA Control Towers	15,664	14,851	14,484	13,379	11,675	11,135	11,365,192	11,586,644	10,721	9,829

*Facilities=Control Towers, TRACONS, CERAPs, and RAPCONS

INTERNATIONAL

Number of General Aviation Aircraft

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Europe	30,800	31,200	31,500	32,000	33,100	33,200	31,300	31,100	36,200	36,100	N/A	N/A	N/A
Africa	4,600	4,650	4,600	4,500	4,970	4,950	6,200	5,500	6,200	6,050	N/A	N/A	N/A
Middle East	520	540	550	600	690	670	610	580	590	580	N/A	N/A	N/A
Asia & Pacific	8,400	8,500	9,200	9,800	10,300	10,200	10,240	10,250	11,100	11,500	N/A	N/A	N/A
North America	236,000	224,300	224,150	229,320	223,030	232,080	224,750	219,000	188,300	185,890	N/A	N/A	N/A
Latin America & Caribbean	13,700	13,900	13,800	13,500	15,200	15,200	18,900	18,600	18,800	18,600	N/A	N/A	N/A
TOTAL-ICAO States	294,020	282,990	283,800	289,720	287,290	296,300	292,000	285,030	261,190	258,720	268,000	269,000	273,500

N/A=Not available.

Source: ICAO

General Aviation Hours Flown (In Thousands)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Europe	6,080	6,400	6,500	6,600	6,720	6,870	6,730	6,700	7,260	7,240	6,880	6,270	6,000
Africa	790	820	800	800	820	820	700	700	800	770	800	780	700
Middle East	260	240	260	260	270	310	300	180	300	290	300	300	290
Asia & Pacific	2,420	2,740	3,060	3,250	3,380	3,470	3,500	3,770	4,180	4,250	4,260	4,680	4,880
North America	33,920	32,100	31,070	31,110	31,610	31,950	32,100	26,200	24,220	23,120	25,520	25,550	26,820
Latin America & Caribbean	3,850	3,380	3,550	3,570	3,400	3,300	3,150	3,150	3,340	3,280	3,110	3,150	3,300
TOTAL-ICAO States¹	46,830	45,870	45,260	45,430	46,140	46,710	46,380	40,700	40,100	38,950	40,870	40,730	41,990

¹Excludes the Russian Federation.

Source: ICAO

U.S. Pilots





PILOTS BY CERTIFICATE AND RATING

Active U.S. Pilot and Nonpilot Certificates Held (1982-2001)

Category	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
PILOT—Total	718,004	722,376	709,540	709,118	699,653	694,016	700,010	702,659	692,095	682,959	665,069	654,088	639,184	622,261	616,342	618,298	635,472	625,581	612,274
Student	147,197	150,081	146,652	150,273	146,016	136,913	142,544	128,663	120,203	114,597	103,583	96,254	101,279	94,947	96,101	97,736	97,359	93,064	86,731
Private ¹	318,643	320,086	311,086	305,736	300,949	299,786	293,179	299,111	293,306	288,078	283,700	284,236	261,399	254,002	247,604	247,226	258,749	251,561	243,823
Commercial ¹	159,495	155,929	151,632	147,798	143,645	143,030	144,540	149,666	148,385	146,385	143,014	138,728	133,980	129,187	125,300	122,053	124,261	121,858	120,502
Airline Transport ¹	75,938	79,192	82,740	87,186	91,287	96,988	102,087	107,732	112,167	115,855	117,070	117,434	123,877	127,486	130,858	134,612	137,642	141,596	144,702
Helicopter (only)	7,237	7,532	8,123	8,122	8,702	8,608	8,863	9,567	9,860	9,652	9,166	8,719	7,183	6,961	6,801	6,964	7,728	7,775	7,727
Glider (only) ²	8,157	8,390	8,168	8,411	7,901	7,600	7,708	7,833	8,033	8,205	8,328	8,476	11,234	9,413	9,394	9,402	9,390	9,387	8,473
Lighter-Than-Air ²	1,337	1,166	1,139	1,133	1,153	1,111	1,089	3	3	3	3	3	3	3	3	3	3	3	3
Recreational	N/A	N/A	N/A	N/A	N/A	N/A	N/A	87	161	187	206	241	232	265	284	305	343	340	316
Instrument Rating ^{4,5}	254,271	256,584	258,559	262,388	266,122	273,804	282,804	297,073	303,193	306,169	385,617	302,300	298,301	297,895	297,409	300,183	308,951	311,944	315,276
Flight Instructor	62,201	61,173	58,940	57,355	60,316	61,798	61,472	63,775	69,209	72,148	75,621	76,171	77,613	78,551	78,102	79,171	79,694	80,931	82,875
Certificates ⁴																			
NONPILOT—Total	413,199	426,802	395,139	410,079	427,962	448,710	468,405	492,237	517,462	540,548	669,726	571,358	651,341	534,427	540,892	549,588	538,264	547,453	513,100
Mechanic ⁶	288,335	298,028	274,100	284,241	297,178	312,419	326,243	344,282	366,392	384,669	401,060	411,071	405,294	329,239	332,254	336,670	340,402	344,434	310,850
Repairmen	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parachute Rigger ⁶	10,074	10,194	9,395	9,535	9,659	9,770	9,879	10,094	7,916	8,163	8,417	8,631	11,824	10,269	10,336	10,459	10,447	10,477	7,927
Ground Instructor ⁶	66,385	67,463	58,214	59,443	60,861	62,582	64,503	66,882	70,086	73,276	78,050	77,788	96,165	68,573	69,366	70,334	71,238	72,326	72,261
Dispatcher ⁶	8,223	8,980	8,511	9,025	9,491	10,020	10,455	11,002	11,607	12,264	12,683	13,410	15,642	13,272	13,967	14,804	15,655	16,340	16,070
Flight Navigator	1,636	1,603	1,542	1,512	1,445	1,400	1,357	1,290	1,225	1,154	1,039	990	916	847	782	712	642	570	509
Flight Engineer	38,546	40,534	43,377	46,323	49,328	52,519	55,968	58,687	60,236	61,022	60,277	59,467	60,267	61,459	62,544	63,700	63,891	65,098	65,398

Source: FAA

¹Includes pilots with an airplane certificate.
²Glider and Lighter-Than-Air pilots are not required to have a medical examination. However, the totals above represent pilots who received a medical examination within the last 25 months, except for 1994 numbers, which are based on medical certificates issued 27 or fewer months ago.
³Lighter-Than-Air type ratings are no longer being issued.
⁴Not included in the total.
⁵Special ratings shown on pilot certificates; does not indicate additional certificates.
⁶Numbers represent all certificates on record. No medical examination required.
 N/A=Not available. Recreational certificate first issued in 1990.

PILOTS BY GEOGRAPHIC AREA



Estimated Active Pilots and Flight Instructors by FAA Region and State in 2001

FAA Region and State	Total Pilots	Students	AIRPLANE ¹			Misc. ²	Flight Instructors ³
			Private	Commercial	Airline Transport		
GRAND TOTAL⁴	612,274	86,731	243,823	120,502	144,702	16,516	82,910
UNITED STATES—Total	584,249	81,552	238,121	112,202	137,695	14,679	80,952
ALASKAN REGION—Total	8,415	791	3,526	2,120	1,901	77	1,117
CENTRAL REGION—Total	28,940	4,010	14,049	5,738	4,810	333	3,982
Iowa	5,919	845	3,222	1,120	679	53	768
Kansas	8,398	1,175	4,079	1,744	1,299	101	1,231
Missouri	10,592	1,381	4,753	2,006	2,299	153	1,560
Nebraska	4,031	609	1,995	868	533	26	423
EASTERN REGION—Total	73,239	11,086	29,853	13,320	16,554	2,426	10,485
Delaware	1,503	259	539	245	422	38	225
District of Columbia	457	80	192	97	63	25	52
Maryland	8,274	1,207	3,354	1,561	1,901	251	1,224
New Jersey	10,967	1,638	4,673	1,830	2,438	388	1,524
New York	17,902	3,292	7,702	3,266	2,870	772	2,525
Pennsylvania	17,812	2,526	7,465	3,102	4,196	523	2,594
Virginia	14,412	1,795	5,024	2,833	4,363	397	2,061
West Virginia	1,912	289	904	386	301	32	280
GREAT LAKES REGION—Total	99,217	14,601	45,363	18,175	19,485	1,593	14,062
Illinois	20,709	3,029	8,764	3,836	4,688	392	3,117
Indiana	11,453	1,694	5,588	2,052	1,974	145	1,537
Michigan	16,967	2,621	8,202	2,906	2,891	341	2,358
Minnesota	15,376	2,148	6,631	2,926	3,489	182	2,080
North Dakota	2,472	437	1,122	701	198	14	294
Ohio	18,959	2,702	8,486	3,349	4,022	400	2,914
South Dakota	2,226	349	1,029	532	297	19	263
Wisconsin	11,055	1,621	5,541	1,873	1,926	94	1,499
NEW ENGLAND REGION—Total	25,300	3,487	11,102	4,380	5,579	752	3,382
Connecticut	6,204	832	2,562	972	1,630	208	869
Maine	3,055	418	1,445	619	543	30	380
Massachusetts	9,266	1,422	4,397	1,643	1,473	331	1,203
New Hampshire	4,207	451	1,518	682	1,452	104	633
Rhode Island	1,133	161	512	212	227	21	136
Vermont	1,435	203	668	252	254	58	161
Northwest Mountain REGION—Total	64,431	9,039	26,261	12,373	15,030	1,728	8,717
Colorado	17,406	2,279	6,185	3,139	5,193	610	2,667
Idaho	4,330	508	2,053	948	727	94	558
Montana	3,571	463	1,672	893	476	67	451
Oregon	9,668	1,457	4,808	1,923	1,211	269	1,178
Utah	6,953	1,312	2,738	1,235	1,554	114	863
Washington	20,730	2,786	7,932	3,883	5,584	545	2,789
Wyoming	1,773	234	873	352	285	29	211
Southern REGION—Total	116,427	15,487	41,983	22,909	33,788	2,260	16,155
Alabama	7,148	1,087	3,004	1,677	1,099	281	955
Florida	47,420	6,301	16,009	10,170	14,048	892	7,324
Georgia	18,611	2,434	6,166	2,960	6,745	306	2,277
Kentucky	6,596	942	2,291	1,098	2,187	78	935
Mississippi	3,951	513	1,568	1,030	757	83	495
North Carolina	14,480	1,921	5,975	2,611	3,720	253	1,762
South Carolina	6,150	788	2,655	1,276	1,301	130	745
Tennessee	12,071	1,501	4,315	2,087	3,931	237	1,662
Southwest REGION—Total	70,856	9,608	26,065	14,348	19,281	1,554	9,631
Arkansas	4,794	707	2,044	1,168	814	61	648
Louisiana	5,756	799	2,207	1,433	1,068	249	687
New Mexico	4,421	708	1,805	978	784	146	542
Oklahoma	8,352	1,319	3,684	1,868	1,401	80	1,164
Texas	47,533	6,075	16,325	8,901	15,214	1,018	6,590
Western-Pacific REGION—Total	94,772	12,840	39,190	18,246	20,653	3,843	13,098
Arizona	16,974	2,123	6,139	3,338	4,783	591	2,758
California	68,442	9,477	30,284	13,186	12,678	2,817	9,016
Hawaii	3,046	529	670	594	1,052	201	437
Nevada	6,310	711	2,097	1,128	2,140	234	887
Armed Forces⁵	825	202	225	212	134	52	76
Unknown	3	1	0	0	0	2	0
Outside U.S.—Total	27,982	5,172	5,698	8,285	6,992	1,835	1,950
Other U.S. Areas—Total	1,877	402	522	396	492	65	251
American Samoa	5	0	0	2	3	0	0
Guam	156	16	11	26	97	6	16
Puerto Rico	1,472	353	427	322	319	51	208
Virgin Islands	194	32	66	31	61	4	23
U.S. Territories	40	6	4	15	15	0	8

¹Includes pilots with an airplane-only certificate. Also includes those with an airplane and a helicopter and/or glider certificate.

²Includes helicopter, glider and recreational.

³Not included in total.

⁴Includes unknown and outside U.S.

⁵Military personnel holding civilian certificates stationed in foreign country.

Source: FAA



ACTIVE PILOT CERTIFICATES

Estimated FAA Active Pilot Certificates Held by Category and Age Group of Holder in 2001

Age Group	Total	TYPE OF PILOT CERTIFICATES							Flight Instructor ³
		Student	Recreational	AIRPLANE ¹			Rotorcraft (Only)	Glider (Only) ²	
				Private	Commercial	Airline Transport			
Total	612,274	86,731	316	243,823	120,502	144,702	7,727	8,473	82,875
unknown	2	0	0	1	1	0	0	0	0
14-15	320	320	0	0	0	0	0	0	0
16-19	17,470	12,927	7	4,130	289	0	14	103	93
20-24	39,838	14,700	12	15,462	8,956	216	276	216	4,800
25-29	45,798	11,369	9	14,352	14,112	4,881	825	250	8,912
30-34	60,064	10,623	13	18,533	13,927	15,412	1,206	350	11,001
35-39	73,063	9,768	25	25,512	12,413	23,244	1,422	679	9,703
40-44	81,817	9,198	49	32,787	11,829	25,500	1,318	1,136	9,268
45-49	79,057	7,309	39	35,368	11,463	22,136	989	1,753	9,249
50-54	72,237	4,798	34	31,700	12,294	20,846	962	1,603	9,365
55-59	58,566	2,784	35	24,737	12,204	17,129	495	1,182	8,151
60-64	35,758	1,149	25	16,257	8,432	8,746	149	700	5,257
65-69	23,020	807	24	11,242	6,626	3,797	36	488	3,508
70-74	14,975	449	26	8,626	4,163	1,680	25	6	1,931
75-79	7,474	167	15	3,942	2,598	741	8	3	1,063
80 and over	2,815	63	3	1,174	1,195	374	0	0	574

¹Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate. Source: FAA

²Glider pilots are not required to have a medical examination; however, totals above represent pilots who received a medical examination.

³Not included in total active pilots.

Average Age of Active Pilots by Category (1991-2001)

Calendar Year	Total ¹	Student ²	Recreational ²	AIRPLANE ³		
				Private	Commercial	Airline Transport
1991	40.5	32.6	43.5	42.0	41.8	43.7
1992	40.8	32.9	44.4	42.2	41.7	43.8
1993	41.3	33.7	45.5	42.7	41.9	44.1
1994	41.9	34.3	46.5	43.2	42.4	44.4
1995	42.9	34.5	48.3	44.6	43.7	44.9
1996	43.2	34.6	49.3	45.1	44.1	45.1
1997	43.6	34.6	49.5	45.6	44.6	45.3
1998	43.8	34.7	49.8	45.9	45.0	45.4
1999	43.6	34.6	49.5	45.6	44.6	45.3
2000	43.7	34.1	49.8	45.6	44.9	45.8
2001	44.0	33.3	50.8	46.0	45.0	46.0

¹Includes helicopter (only) and glider (only). ²Category of certificate unknown. Source: FAA

³Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate.

Estimated Active Women Pilot Certificates Held (1992-2001)

Category	1992	1993	1994 ⁸	1995 ⁷	1996	1997	1998	1999	2000	2001
PILOT—Total	40,620	39,460	39,157	38,032	36,433	35,531	35,762	37,373	37,757	35,776
Student	13,921	12,788	12,061	12,710	11,632	11,217	11,209	11,191	10,809	10,230
Recreational	10	17	21	16	20	22	24	25	26	20
Airplane ¹										
Private	17,276	16,997	17,196	15,398	14,868	14,257	14,152	15,171	14,554	13,894
Commercial	5,918	5,981	6,000	5,694	5,495	5,392	5,366	5,720	5,807R	5,932
Airline Transport	2,530	2,738	2,924	3,134	3,346	3,572	3,848	4,126	4,411	4,630
Helicopter (only)	313	276	277	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glider (only) ²	652	663	678	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rotorcraft (only) & Glider (only)	1,080	955	939	965	941	909	859	1,140	1,150	1,070
Lighter-Than-Air ^{2,3}										
Flight Instructor Certificates ⁴	3,964	4,338	4,481	4,556	4,667	4,763	4,926	5,028	5,193	5,386
NONPILOT—Total⁵	11,514	12,363	13,026	15,120	13,909	14,562	15,380	15,662	16,552	17,114
Mechanic ⁶	4,398	4,839	5,175	3,914	4,019	4,197	4,483	4,722	5,047	5,295
Repairmen	N/A	N/A	N/A	1,710	1,752	1,861	1,940	1,582	1,704	1,789
Parachute Rigger ⁶	390	413	442	672	441	464	483	494	509	475
Ground Instructor ⁶	4,338	4,615	4,804	6,019	4,652	4,758	4,904	5,016	5,154	5,169
Dispatcher ⁶	1,004	1,083	1,159	1,270	1,411	1,557	1,729	1,895	2,062	2,262
Flight Navigator	0	0	0	0	0	0	0	0	0	0
Flight Engineer	1,384	1,413	1,446	1,535	1,634	1,725	1,841	1,953	2,076	2,124

¹Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate. Source: FAA

Prior to 1995, these pilots were categorized as private, commercial, or airline transport, based on their airplane certificate. In 1995 and after, they are categorized based on their highest certificate. For example, if a pilot holds a private certificate and a commercial helicopter certificate, prior to 1995, the pilot would be categorized as private; 1995 and after, as commercial.

²Glider and Lighter-Than-Air pilots are not required to have a medical examination. The totals above represent pilots who received a medical examination within the last 25 months.

³Lighter-Than-Air type ratings are no longer being issued. ⁴Not included in total. ⁵Data for 1996 and 1997 are not comparable to earlier years.

⁶Numbers represent all certificates on record. No medical examination required. Data for 1996 and 1997 are limited to certificates held by those under 70 years of age.

⁷Beginning in 1995, includes nonpilots who were excluded in prior years because of incomplete addresses and/or a request to be excluded from any mailing list.

⁸1994 counts based on medical certificates issued 27 or less months ago. All other years based on medical certificates issued 25 or less months ago.

N/A=Not available. Separate counts from rotorcraft only and glider only pilots no longer available. Number of Repairmen not available prior to 1995. Recreational certificate first issued in 1990.

R= Revised.

INSTRUMENT-RATED PILOTS



Estimated Total Active Pilots and Instrument-Rated Pilots (1980-2001)

Calendar Year	Total Active Pilots ¹	INSTRUMENT-RATED PILOTS	
		Number	Percent of Total
1980	627,238	260,461	42
1981	584,270	252,535	43
1982	576,894	255,073	44
1983	570,807	254,271	45
1984	572,295	256,584	45
1985	562,888	258,559	46
1986	558,845	262,388	47
1987	553,637	266,122	48
1988	557,103	273,804	49
1989	557,466	282,804	51
1990	573,909	297,073	52
1991	571,731	306,193	53
1992	568,175	306,169	54
1993	561,280	305,517	54
1994	557,593	302,300	54
1995	537,673	298,798	56
1996	527,049	297,895	57
1997	520,241	297,409	57
1998	520,257	300,183	58
1999	537,770	308,951	59
2000	532,177	311,944	59
2001	525,227	315,276	60

¹Excludes student pilots and recreational pilots. Source: FAA

PILOT CERTIFICATES ISSUED

Pilot Certificates Issued by Category (1969-2001)

Year	STUDENT		PRIVATE		COMMERCIAL		AIRLINE TRANSPORT		HELICOPTER (ONLY)		GLIDER (ONLY)	
	Original	Additional ¹	Original	Additional ¹	Original	Additional ¹	Original	Additional ¹	Original	Additional ¹	Original	Additional ¹
1969	132,926	N/A	54,597	8,096	21,399	25,706	3,469	4,616	2,326	148	521	N/A
1970	126,871	N/A	53,026	8,374	21,130	25,746	3,745	3,917	4,250	187	652	N/A
1971	128,004	N/A	49,579	7,775	16,356	22,695	2,439	2,567	3,448	172	611	10
1972	121,543	N/A	50,523	8,371	16,043	22,236	2,604	3,410	2,421	263	713	14
1973	131,384	N/A	53,140	9,797	16,769	24,823	3,224	4,391	1,719	507	892	131
1974	113,997	N/A	48,501	9,866	17,693	24,638	3,219	3,557	1,298	387	832	244
1975	127,424	N/A	49,733	9,734	12,620	21,860	2,765	3,370	866	251	230	158
1976	129,280	N/A	55,583	12,618	13,577	22,059	3,869	3,910	1,064	276	848	238
1977	138,816	N/A	54,657	15,104	11,121	22,806	5,697	6,229	944	328	792	220
1978	137,032	N/A	58,064	16,048	11,789	17,501	6,912	5,921	1,122	287	759	188
1979	135,956	N/A	54,466	16,466	12,627	17,793	8,981	6,603	1,300	283	642	157
1980	102,301	N/A	50,458	16,035	12,452	16,015	7,116	6,289	1,721	272	583	151
1981	111,531	N/A	45,713	14,897	10,657	12,146	4,763	5,991	1,985	302	629	164
1982	90,816	N/A	52,144	16,276	11,048	11,910	5,037	7,956	2,256	330	793	184
1983	92,239	N/A	41,210	12,721	8,789	9,513	5,643	8,187	1,932	315	606	162
1984	90,167	N/A	36,545	11,784	7,702	8,892	5,099	9,335	1,808	319	524	139
1985	86,060	N/A	35,402	11,636	8,404	7,197	6,081	9,192	2,105	207	537	138
1986	88,699	N/A	34,816	12,672	8,889	9,241	6,498	10,372	2,209	234	514	109
1987	85,611	N/A	42,287	16,302	11,314	11,365	7,678	11,956	2,217	293	542	74
1988	86,193	N/A	39,900	15,800	12,042	10,597	7,461	11,209	1,947	287	475	28
1989	87,698	N/A	35,360	22,240	13,759	11,778	7,829	12,698	2,240	252	336	22
1990	88,586	N/A	41,749	19,299	15,500	12,584	8,013	13,540	2,700	266	378	41
1991	82,205	N/A	49,580	23,630	16,869	13,506	8,437	13,979	3,344	291	487	29
1992	78,377	N/A	39,968	19,416	14,354	11,630	7,699	13,391	2,684	291	376	32
1993	69,178	N/A	39,060	18,801	12,645	10,466	6,126	12,995	2,310	370	341	28
1994	66,501R	N/A	32,787	14,568	9,237	8,630	5,360	10,963	1,801	267	320	25
1995	60,497R	N/A	28,333	15,331	9,133	9,042	5,965	13,641	1,724	290	373	83
1996	56,653R	N/A	24,714	18,199	10,245	10,494	7,444	17,229	1,638	349	633	195
1997	60,941R	N/A	21,552	13,522	8,988	9,587	7,045	16,266	1,385	296	501	161
1998	63,037R	756	26,297	15,966	10,042	10,269	7,547	19,085	1,530	211	472	105
1999	58,278R	1,030R	24,630	15,222	9,737	9,963	6,721	19,380	1,514	222	423	98
2000	58,042 R	1,070	27,223	17,223	11,813	11,652	7,715	20,558	1,776	234	455	62
2001	61,897 E	1,161	25,372	16,807	11,499	11,115	7,070	21,357	1,698	218	403	77

¹An additional rating added to an existing pilot certificate (e.g., instrument rating added to a private certificate).

Source: FAA

R=Revised.

E = Esti-

Airports and Aeronautical Facilities





AIRPORTS BY GEOGRAPHIC AREA

U.S. Civil and Joint Use Airports, Heliports, Stolports, and Seaplane Bases on Record by Type of Ownership in 2001

FAA Region and State	Total Facilities	TOTAL FACILITIES, BY OWNERSHIP		AIRPORTS OPEN TO THE PUBLIC				Total Airports
		Public	Private	PAVED AIRPORTS ¹		UNPAVED AIRPORTS ¹		
				Lighted	Unlighted	Lighted	Unlighted	
Grand Total	19,245	5,133	14,112	3,619	268	385	754	5,026
United States—Total*	19,178	5,098	14,080	3,600	266	385	753	5,004
Alaskan—Total	590	386	204	48	5	105	144	302
Alaska	590	386	204	48	5	105	144	302
Central—Total	1,564	496	1,068	385	14	37	51	487
Iowa	314	136	178	96	0	12	14	122
Kansas	407	134	273	101	7	16	19	143
Missouri	539	132	407	109	4	6	11	130
Nebraska	304	94	210	79	3	3	7	92
Eastern—Total	2,480	358	2,122	330	27	44	79	480
Delaware	41	4	37	6	0	3	1	10
District of Columbia	16	7	9	2	0	0	0	2
Maryland	219	24	195	27	1	3	3	34
New Jersey	366	49	317	35	3	6	5	49
New York	555	95	460	85	12	18	33	148
Pennsylvania	772	74	698	85	7	12	28	132
Virginia	396	73	323	61	3	1	1	66
West Virginia	115	32	83	29	1	1	8	39
Great Lakes—Total	4,372	911	3,461	746	21	134	153	1,054
Illinois	879	123	756	90	0	20	4	114
Indiana	617	88	529	77	3	7	21	108
Michigan	475	137	338	124	6	36	63	229
Minnesota	509	151	358	112	1	18	14	143
North Dakota	433	99	334	66	5	12	9	92
Ohio	732	132	600	122	3	13	25	163
South Dakota	180	79	101	54	1	14	5	74
Wisconsin	547	102	445	101	2	14	12	129
New England—Total	754	140	614	115	17	5	25	162
Connecticut	151	16	135	18	1	0	3	22
Maine	159	46	113	30	7	2	8	47
Massachusetts	224	34	190	33	4	1	3	41
New Hampshire	113	16	97	16	2	2	6	26
Rhode Island	26	8	18	8	1	0	0	7
Vermont	81	20	61	10	2	0	5	17
N.W. MOUNTAIN—Total	2,063	686	1,377	414	42	19	149	624
Colorado	413	92	321	66	4	3	7	80
Idaho	237	132	105	46	6	1	63	116
Montana	255	123	132	72	7	8	31	118
Oregon	435	103	332	61	11	2	22	96
Utah	137	59	78	42	4	0	1	47
Washington	471	128	343	93	9	4	20	126
Wyoming	115	49	66	34	1	1	5	41
SOUTHERN—Total	2,806	836	1,970	636	37	27	44	744
Alabama	248	102	146	84	3	5	3	95
Florida	812	162	650	105	2	7	12	126
Georgia	429	135	294	98	8	2	2	110
Kentucky	198	71	127	51	8	0	3	62
Mississippi	234	90	144	73	5	1	3	82
North Carolina	375	93	282	83	5	7	16	111
Puerto Rico	42	20	22	10	1	0	0	11
South Carolina	178	69	109	56	1	5	4	66
Tennessee	283	89	194	74	4	0	1	79
Virgin Islands	7	5	2	2	0	0	0	2
SOUTHWEST—Total	3,190	819	2,371	631	54	11	69	765
Arkansas	292	115	177	92	4	0	4	100
Louisiana	477	110	367	67	3	1	6	77
New Mexico	174	74	100	49	6	0	8	63
Oklahoma	433	160	273	110	14	4	15	143
Texas	1,814	360	1,454	313	27	6	36	382
Western—Total	1,426	501	925	314	55	5	40	414
Arizona	300	94	206	58	10	1	14	81
California	936	320	616	209	36	3	10	258
Hawaii	47	19	28	12	1	0	0	13
Nevada	125	58	67	28	7	1	15	51
South Pacific**	18	10	8	7	1	0	1	9

*Excludes Puerto Rico, Virgin Islands and South Pacific.

**American Samoa, Guam, Midway Atoll and Northern Mariana Islands.

¹Includes all airports open to the public, both publicly and privately owned.

Source: FAA

AERONAUTICAL FACILITIES



FAA Air Route Facilities and Services (1972-2001)

Calendar Year	VOR VORTAC*	Non-directional Beacons*	Air Route Traffic Control Centers	Airport Traffic Control Towers*	Flight Service Stations**	International Flight Service Stations	Instrument Landing Systems	Airport Surveillance Radar
1972	991	706	27	355	324	7	403	125
1973	995	739	27	403	315	7	467	142
1974	1,000	793	26	417	320	7	490	156
1975	1,011	848	25	487	321	7	580	177
1976	1,020	920	25	488	321	7	640	175
1977	1,021	959	25	495	319	7	678	182
1978	1,020	988	25	494	319	6	698	185
1979	1,028	1,015	25	499	318	6	753	192
1980	1,037	1,055	25	502	317	6	796	192
1981	1,033	1,123	25	501	316	6	840	199
1982	1,029	1,143	25	492	316	6	884	197
1983	1,032	1,183	25	494	316	5	934	197
1984	1,035	1,211	25	497	310	5	955	197
1985	1,039	1,222	25	500	302	4	968	198
1986	1,043	1,239	25	686	293	3	977	312
1987	1,039	1,212	25	500	302	4	968	198
1988	1,043	1,239	25	686	293	3	977	312
1989	1,046	1,263	25	686	255	3	1,100	312
1990	1,045	1,271	25	686	235	3	1,120	311
1991	1,045	1,295	24	694	192	3	1,114	318
1992	1,044	1,314	24	691	179	3	1,177	312
1993	1,046	1,263	24	686	255	3	1,100	312
1994	1,045	1,271	24	686	235	3	1,120	311
1995	1,045R	1,295	24	694	192	3	1,114	318
1996	1,044R	1,314R	24	691	179	3	1,177	312
1997	1,041R	1,344R	24	684	135	3	1,231	310
1998	1,039R	1,348R	24	683R	128R	3	1,238	307R
1999	1,041	1,320	24	680	75	3	1,327	295
2000	993	1,199	25	663	69	3	1,370	297
2001	1,116	1,675	24	678	72	3	1,388	292

*Includes non-federal and military.

**Includes Automated Flight Service Stations (AFSS).

N/A=Not available.

Source: FAA

Forecasts and Other Information





AIRCRAFT FORECAST

U.S. Active General Aviation and Air Taxi Aircraft (In Thousands)

Calendar Year	FIXED WING				ROTORCRAFT		Experimental	Sport	Other	Total
	PISTON		Turboprop	Turbojet	Piston	Turbine				
	Single-Engine	Multi-Engine								
Historical										
1997	140.0	16.0	5.6	5.2	2.3	4.5	14.7	N/A	4.1	192.4
1998	144.2	18.7	6.2	6.1	2.5	4.9	16.5	N/A	5.6	204.7
1999	150.9	21.0	5.7	7.1	2.6	4.9	20.5	N/A	6.8	219.5
2000	149.4	21.1	5.8	7.0	2.7	4.5	20.4	N/A	6.7	217.5
2001R	145.0	18.3	6.6	7.8	2.3	4.5	20.4	N/A	6.6	211.5
2002E	144.5	18.2	6.6	8.0	2.5	4.4	20.4	N/A	6.5	211.0
Forecast										
2003	144.6	18.2	6.7	8.2	2.5	4.4	20.4	N/A	6.5	211.4
2004	144.9	18.2	6.8	8.4	2.5	4.4	20.5	1.0	6.5	213.1
2005	145.4	18.1	6.9	8.7	2.5	4.4	20.6	2.3	6.5	215.5
2006	146.0	18.1	7.0	9.1	2.6	4.4	20.7	2.6	6.6	217.0
2007	146.6	18.1	7.2	9.5	2.6	4.4	20.8	3.1	6.6	218.8
2008	147.2	18.0	7.3	9.9	2.6	4.5	20.9	3.6	6.6	220.6
2009	147.6	18.0	7.5	10.3	2.7	4.5	21.0	4.1	6.6	222.2
2010	148.0	18.0	7.6	10.7	2.7	4.5	21.1	4.6	6.6	223.7
2011	148.4	17.9	7.7	11.1	2.7	4.5	21.2	5.0	6.6	225.2
2012	148.8	17.9	7.8	11.5	2.7	4.6	21.3	5.4	6.7	226.6
2013	149.2	17.9	7.9	11.9	2.8	4.6	21.4	5.8	6.7	228.1
2014	149.6	17.8	8.0	12.3	2.8	4.6	21.5	6.2	6.7	229.5

Notes: Details may not add up to total because of independent rounding.

Source: FAA

An active aircraft must have a current registration and it must have been flown at least one hour during the previous calendar year.

Estimates have been revised to reflect changes in edit and estimation procedures and may not be comparable to estimates prior to 1995.

E=Estimated.

R=Revised.

PILOT FORECAST

Active Pilots by Type of Certificate (In Thousands)

Calendar Year	Students	Recreational ¹	Private	Commercial	Airline Transport	Helicopter (Only)	Glider (Only) ¹	Total	Instrument Rated ²
Historical									
1997	96.1	0.3	247.6	125.3	130.9	6.8	9.4	616.3	297.4
1998	97.7	0.3	247.2	122.1	134.6	7.0	9.4	618.3	300.2
1999R	99.2	0.3	258.8	124.3	137.6	7.7	9.4	637.3	309.0
2000R	99.1	0.3	251.6	121.9	141.6	7.8	9.4	631.6	315.1
2001R	94.4	0.3	261.9	137.6	147.0	7.7	8.5	657.5	321.0
2002E	86.0	0.3	260.9	137.5	147.1	7.8	21.8	661.4	317.4
Forecast									
2003	86.9	0.3	262.2	138.2	147.9	7.6	21.8	664.8	319.6
2004	88.6	0.3	264.2	139.7	148.6	7.7	21.9	670.9	323.5
2005	91.7	0.3	266.2	141.7	150.6	7.7	21.9	680.1	329.3
2006	94.2	0.3	268.7	144.2	153.6	7.8	22.0	690.8	335.9
2007	96.1	0.3	271.7	146.9	157.1	7.9	22.1	702.1	342.6
2008	98.1	0.3	274.7	149.7	161.1	8.0	22.1	714.0	349.4
2009	100.1	0.3	277.5	152.2	165.1	8.1	22.2	725.4	356.1
2010	102.1	0.3	280.3	152.5	168.6	8.2	22.2	736.2	362.5
2011	104.2	0.3	283.0	156.6	172.1	8.3	22.3	746.7	368.6
2012	106.3	0.3	285.6	158.6	175.6	8.4	22.3	757.1	374.5
2013	108.5	0.3	288.1	160.6	179.1	8.5	22.3	767.4	380.2
2014	110.7	0.3	290.6	162.6	182.6	8.6	22.4	777.7	385.9

¹In March 2001, the FAA Registry changed the definition of this pilot category. It added approximately 13,000 pilots to this category.

Source: FAA

²Instrument rated pilots should not be added to other categories in deriving total.

Notes: Details may not add up to total because of independent rounding.

An active pilot is a person with a pilot certificate and a valid medical certificate.

R=Revised.

FLIGHT HOURS FORECAST



U.S. Active General Aviation and Air Taxi Hours Flown (In Millions)

Calendar Year	FIXED WING				ROTORCRAFT		Experimental	Sport	Other	Total
	PISTON		Turboprop	Turbojet	Piston	Turbine				
	Single-Engine	Multi-Engine								
Historical										
1997	18.3	2.4	1.7	1.7	0.3	1.7	1.3	N/A	0.2	27.7
1998	16.8	3.6	1.8	2.2	0.4	1.9	1.1	N/A	0.3	28.1
1999	19.3	3.6	1.8	2.7	0.6	2.2	1.2	N/A	0.3	31.8
2000R	18.8	3.4	2.0	2.8	0.5	1.8	1.3	N/A	0.3	31.0
2001R	17.9	3.0	1.9	2.7	0.6	1.6	1.2	N/A	0.4	29.1
2002E	17.9	3.0	2.0	2.9	0.5	1.6	1.2	N/A	0.4	29.5
Forecast										
2003	18.0	3.0	2.1	3.0	0.5	1.6	1.2	N/A	0.4	29.8
2004	18.1	3.0	2.1	3.2	0.5	1.6	1.2	0.1	0.4	30.2
2005	18.3	3.0	2.2	3.4	0.5	1.7	1.2	0.2	0.4	30.7
2006	18.4	3.0	2.2	3.6	0.5	1.7	1.2	0.2	0.4	31.2
2007	18.6	3.0	2.2	3.9	0.5	1.7	1.2	0.3	0.4	31.7
2008	18.7	3.0	2.2	4.2	0.6	1.7	1.3	0.3	0.4	32.2
2009	18.8	3.0	2.2	4.4	0.6	1.7	1.3	0.4	0.4	32.7
2010	18.9	3.0	2.2	4.7	0.6	1.8	1.3	0.4	0.4	33.2
2011	19.0	3.0	2.3	5.0	0.6	1.8	1.3	0.5	0.4	33.7
2012	19.1	3.0	2.3	5.3	0.6	1.8	1.3	0.5	0.4	34.2
2013	19.3	3.0	2.3	5.6	0.6	1.8	1.3	0.5	0.4	34.8
2014	19.4	3.0	2.3	6.0	0.6	1.8	1.3	0.6	0.4	35.3

Notes: Details may not add up to total because of independent rounding.

Source: FAA

An active aircraft must have a current registration and it must have been flown at least one hour during the previous calendar year.

E=Estimated. R=Revised.

FUEL USE FORECAST

U.S. General Aviation Aircraft Fuel Consumption (In Millions of Gallons)

Calendar Year	FIXED WING				ROTORCRAFT		Other/ Experimental	Total
	PISTON		Turboprop	Turbojet	Piston	Turbine		
	Single-Engine	Multi-Engine						
Historical								
1997	196.3	73.2	135.7	456.9	5.2	49.4	17.5	934.2
1998	181.8	109.6	149.1	608.8	6.5	56.8	13.4	1,126.0
1999	209.9	111.6	153.3	750.8	8.4	63.2	15.5	1,312.7
2000	208.7	108.3	180.5	766.4	8.0	51.2	11.8	1,334.9
2001R	194.6	100.8	163.6	729.5	8.8	45.6	14.9	1,257.8
2002E	195.3	101.3	172.9	794.8	7.4	47.0	14.8	1,333.5
Forecast								
2003	198.0	101.9	181.5	834.6	7.6	47.3	14.8	1,385.7
2004	201.0	102.3	183.6	875.9	7.7	47.9	16.0	1,434.4
2005	204.4	102.8	185.8	927.5	7.9	48.5	17.5	1,494.4
2006	207.9	103.4	187.7	989.6	8.0	49.2	18.0	1,563.8
2007	211.4	103.8	189.7	1,055.4	8.2	49.8	18.7	1,637.0
2008	215.0	104.4	191.6	1,123.3	8.3	50.4	19.4	1,712.4
2009	218.1	104.8	193.1	1,193.4	8.5	51.0	20.0	1,788.9
2010	221.3	105.2	194.7	1,267.0	8.6	51.8	20.7	1,869.3
2011	224.5	105.8	196.2	1,342.7	8.8	52.4	21.3	1,951.7
2012	227.7	106.2	197.7	1,419.1	8.9	53.0	21.8	2,034.4
2013	231.0	106.8	199.3	1,500.2	9.1	53.5	22.4	2,122.3
2014	234.3	107.2	200.8	1,583.4	9.2	54.1	23.0	2,212.0

Note: Details may not add up to total because of independent rounding.

Source: FAA

E=Estimated.

R=Revised.



AIRCRAFT FUEL CONSUMPTION

Total General Aviation and Air Taxi Fuel Consumed and Average Fuel Consumption Rate in the U.S. by Aircraft Type in 2000

Aircraft Type	Average Rate Rate GPH	Estimated Fuel Use (Mil. Gal.)	Percent Standard Error
ALL AIRCRAFT—TOTAL	24.3	1,334.4	4.5
PISTON—Total	13.3	312.0	2.6
One-Engine	10.8	203.7	1.8
1-3 seats	9.4	50.0	3.6
4 + seats	11.4	153.6	2.3
Two-Engine	29.4	101.5	3.3
1-6 seats	26.6	52.6	4.0
7 + seats	35.1	48.9	4.5
TURBOPROP—Total	86.2	180.5	4.1
One-Engine	54.4	15.1	5.6
Two-Engine	90.8	164.0	4.6
1-12 seats	84.8	88.6	3.7
13 + seats	110.4	75.3	9.1
Other Turboprop	54.4	1.4	56.4
TURBOJET—Total	274.3	766.4	4.3
Two-Engine	263.2	615.4	3.5
Other Turbojet	362.1	151.0	14.7
ROTORCRAFT—Total	23.3	59.3	4.9
Piston	15.1	8.0	7.4
Turbine	26.0	37.0	4.7
Multi-Engine Turbine	40.2	14.2	12.1
EXPERIMENTAL—Total	13.2	16.3	7.9
Amateur	13.2	11.8	8.4
Exhibition	13.2	0.9	12.4
Other	13.2	3.6	11.2
JET FUEL—Total	—	998.1	—
AVIATION GASOLINE—Total	—	320.0	—

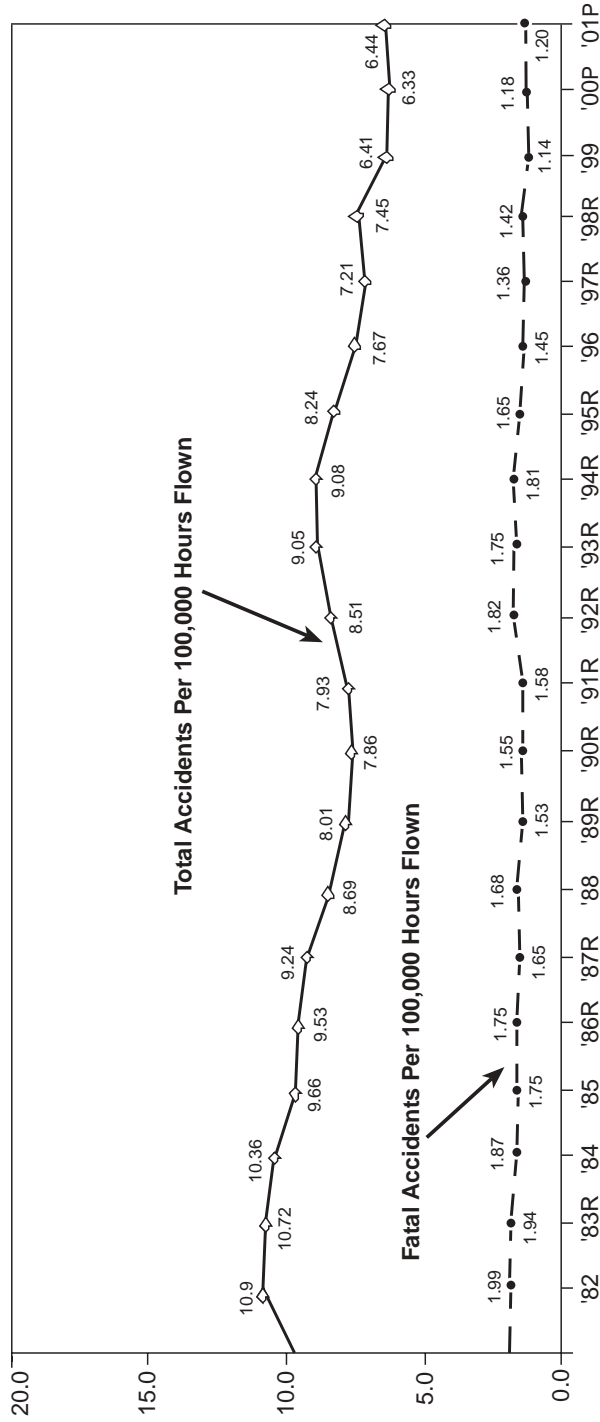
Note: Row and column summation may differ from printed totals due to estimation procedures.

Source: FAA

HISTORICAL SAFETY RECORD



Accident Rates in U.S. General Aviation—1982-2001
(Does not include Air Taxi)



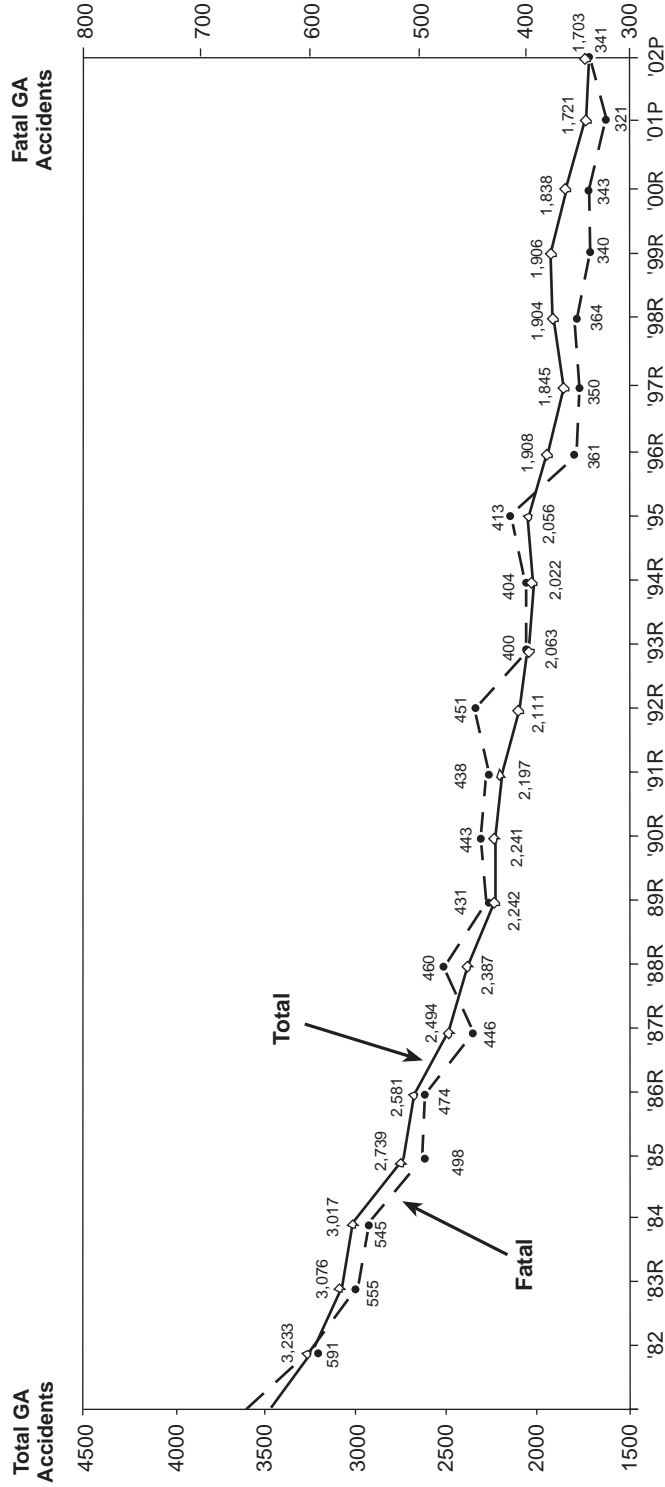
Source: NTSB

P=Preliminary.
R=Revised.



HISTORICAL SAFETY RECORD (continued)

Total and Fatal Accidents in U.S. General Aviation—1982-2002



Note: Prior to 1981, accident data included Air Taxi Operations.
P= Preliminary.
R= Revised.

Source: NTSB

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