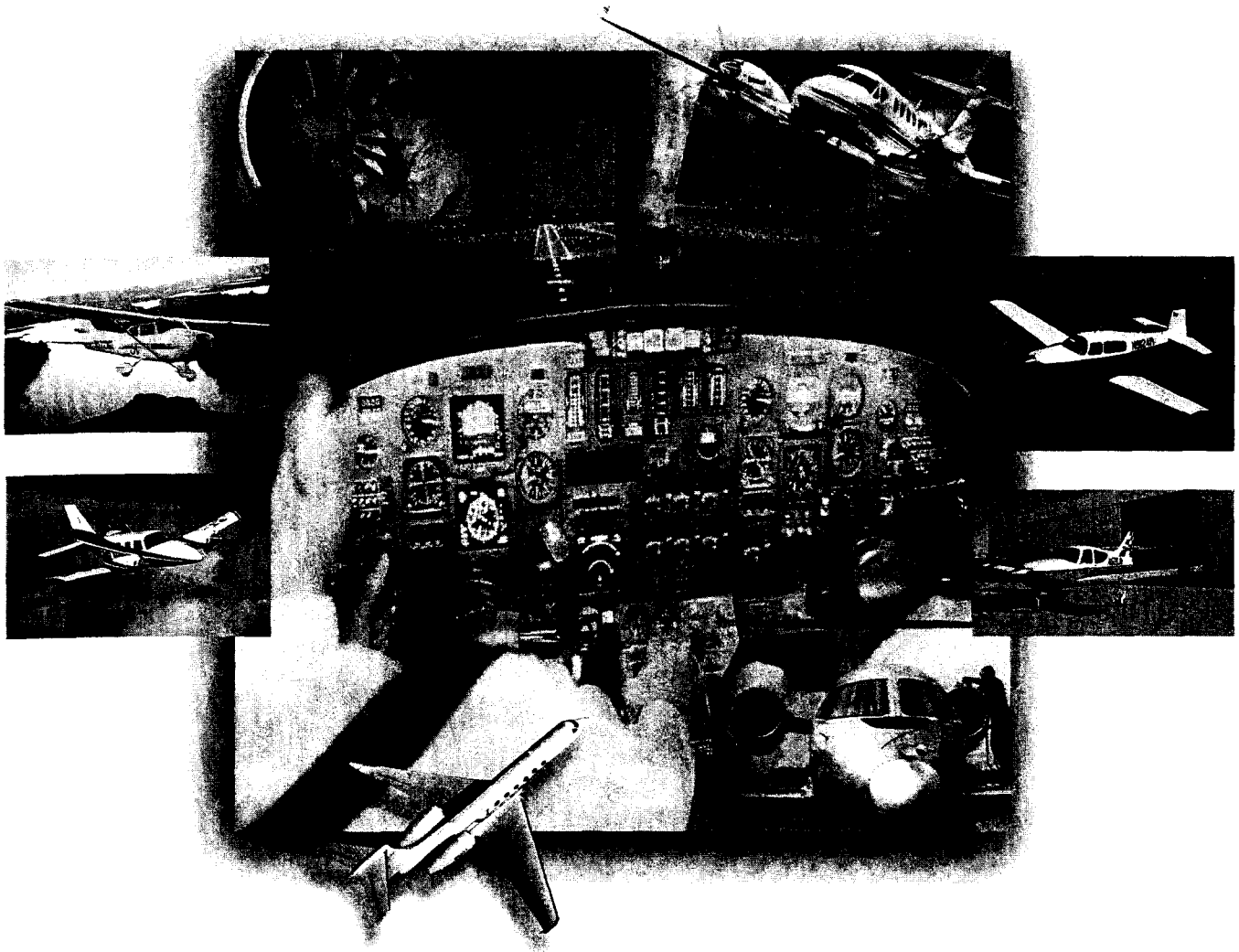


GENERAL AVIATION

.....

1997

Statistical Databook



General Aviation Manufacturers Association

1400 K Street NW, Suite 801

Washington, DC 20005-2485

Tel: (202) 393-1500 • Fax: (202) 842-4063

Internet: www.generalaviation.org

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FOREWORD

The **GENERAL AVIATION STATISTICAL DATABOOK** is a useful tool for those examining our industry. In order to provide the most current statistics, the General Aviation Manufacturers Association (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.

GENERAL AVIATION MANUFACTURERS ASSOCIATION

GAMA is a national trade association proudly representing 53 American manufacturers of fixed-wing general aviation aircraft (up to 19 seats), 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.

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 the GAMA communications office or visit our Web Site at www.generalaviation.org.



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*1996 figures are not available from the FAA until Fall 1997.

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General Aviation Aircraft Shipment Statistics





SHIPMENTS

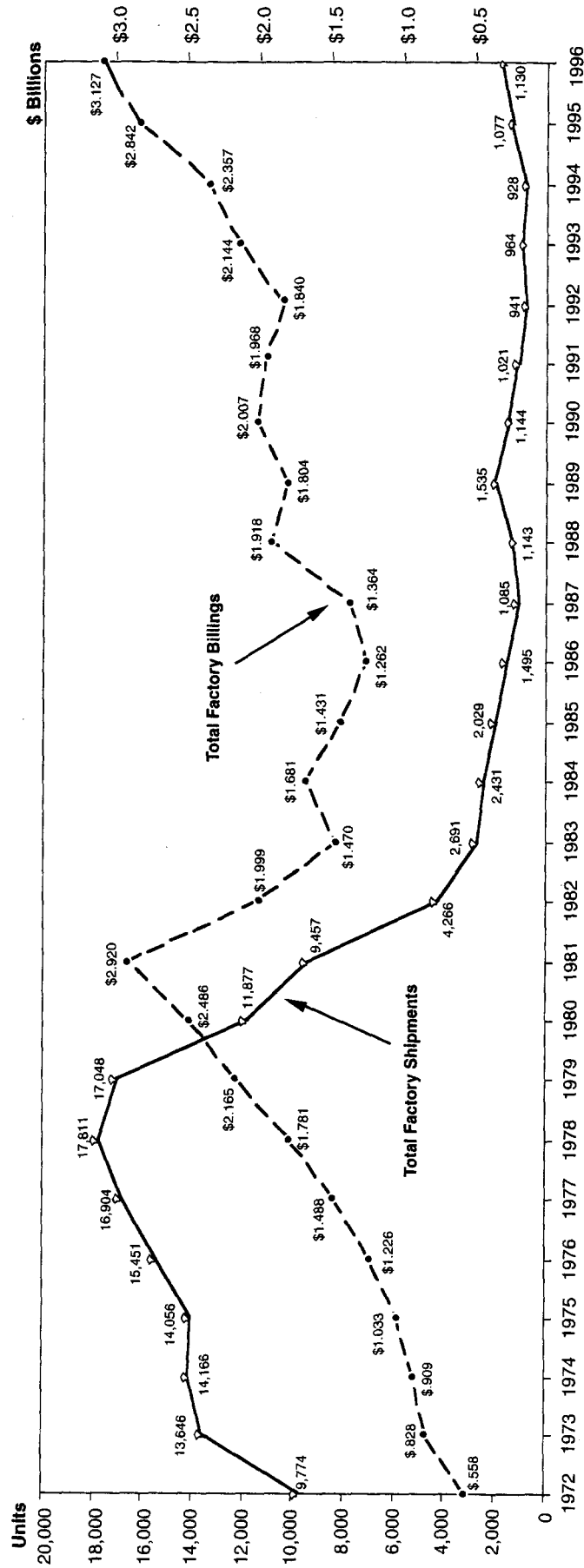
Annual Shipments of New U.S. Manufactured General Aviation Aircraft By Units Shipped, Number of Companies Reporting, and Factory Net Billings

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	1,130	13	3,126.5

...AND BILLINGS



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



Source: GAMA



GAMA

SHIPMENTS BY TYPE

Annual New U.S. Manufactured General Aviation Aircraft Shipments By Type of Aircraft

Year	Total	Single-Engine	Multi-Engine	Total Piston	Turboprop	Jet	Total Turbine
1962	6,697	5,690	1,007	6,697	0	0	0
1963	7,569	6,248	1,321	7,569	0	0	0
1964	9,336	7,718	1,606	9,324	9	3	12
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	1,130	530	70	600	289	241	530

Source: GAMA

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

Year	Single-Engine	Multi-Engine	Total Piston	Turboprop	Jet	Total Turbine
1975	\$ 290	\$ 280	\$ 570	\$ 180	\$ 281	\$ 461
1976	376	320	696	238	293	531
1977	473	390	863	296	329	625
1978	516	493	1,009	394	378	772
1979	523	555	1,078	548	540	1,088
1980	391	403	794	875	816	1,691
1981	327	348	675	1,120	1,125	2,245
1982	200	220	420	590	990	1,580
1983	145	115	260	460	750	1,210
1984	147	133	280	436	966	1,402
1985	126	68	194	524	713	1,237
1986	80	43	123	430	709	1,139
1987	80	18	98	477	789	1,266
1988	66	12	78	596	1,242	1,838
1989	104	24	128	524	1,149	1,673
1990	68	24	92	644	1,272	1,916
1991	*	*	93	527	1,348	1,875
1992	*	*	96	460	1,284	1,744
1993	*	*	76	595	1,473	2,068
1994	*	*	94	595	1,681	2,276
1995	*	*	123	653	2,066	2,719
1996	*	*	146	734	2,247	2,981

*Multi-Engine combined with Single-Engine Piston

Source: GAMA

SHIPMENTS BY YEAR AND BY QUARTER



GAMA

U.S. Manufactured General Aviation Aircraft Shipments By Year and Quarter

YEAR	QUARTER I	QUARTER II	QUARTER III	QUARTER IV
1962	1,782	1,744	1,329	1,842
1963	1,806	2,000	1,625	2,138
1964	2,156	2,503	1,934	2,743
1965	2,642	3,008	2,859	3,343
1966*	3,855	4,266	3,881	3,585
1967*	3,392	3,480	2,801	3,811
1968*	3,661	3,545	3,282	3,068
1969*	3,297	3,592	2,825	2,693
1970*	1,929	2,099	1,749	1,500
1971*	1,771	1,902	1,903	1,770
1972	2,157	2,564	2,417	2,636
1973	3,246	3,555	3,442	3,403
1974	3,493	3,576	3,488	3,609
1975	3,777	3,562	3,291	3,426
1976	3,949	4,159	3,479	3,864
1977	4,124	4,513	3,985	4,282
1978	4,176	4,621	4,672	4,342
1979	4,259	4,602	4,426	3,761
1980	3,512	2,756	2,796	2,813
1981	2,389	2,631	2,529	1,908
1982	1,390	1,126	890	860
1983	659	709	717	606
1984	523	563	681	664
1985	455	519	581	474
1986	285	364	393	453
1987	227	330	239	289
1988	260	291	252	340
1989	304	361	425	445
1990	269	294	274	297
1991	250	262	237	272
1992	193	200	238	225
1993*	170	194	246	260
1994*	181	225	209	266
1995*	208	248	257	315
1996	227	276	227	338

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

Source: GAMA

U.S. Civil Aircraft Imports from the World—1992-1996 Units and Dollar Value (\$Millions)

	1992		1993		1994		1995		1996	
	Units	Dollars	Units	Dollars	Units	Dollars	Units	Dollars	Units	Dollars
Single-Engine	67	\$24.6	96	\$28.6	105	\$65.9	117	\$48.5	100	\$57.8
Multi-Engine—under 4,400 lbs	7	\$3.1	N/A	N/A	8	\$2.8	5	\$0.3	0	\$0
Multi-Engine—4,400-10,000 lbs	18	\$75.7	6	\$14.8	2	\$2.4	2	\$3.0	1	\$8
Multi-Engine—Turbojet/Turbofan 10,000-33,000 lbs.	52	\$612.0	66	\$792.3	82	\$1,030.4	72	\$902.4	96	\$1,286.6
Multi-Engine—Other —including Turboshaft 10,000-33,000 lbs	72	\$659.5	44	\$402.1	64	\$609.4	63	\$494.6	90	\$783.9
TOTAL	216	\$1,374.9	212	\$1,237.8	261	\$1,710.9	259	\$1,448.8	287	\$2,136.2

Source: Aerospace Industries Association



EXPORTS

Annual New U.S. Manufactured General Aviation Aircraft Exports

Year	Units Exported	% of Total Production	Factory Net Billings (Millions)	% of Total Dollars
1965	2,325	19.6%	\$ 61.2	19.2%
1966	2,903	18.4%	75.4	16.9%
1967	3,035	22.4%	76.5	21.3%
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%

Source: GAMA

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

Year	Single-Engine Piston	Multi-Engine Piston	Turboprop	Turbojet
1972	1,715	455	55	29
1973	2,674	732	58	66
1974	3,371	732	75	70
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

Source: GAMA

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***General Aviation
Fleet and Flight Activity***





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

Number of Active General Aviation Aircraft By Type and Primary Use—1995
(Excluding Commuters)

Aircraft Type	Active GA Aircraft	Corporate	Business	Personal	Instruc- tional	Aerial Applica- tion	Aerial Observa- tion	Sight- Seeing	External Load	Other Work	Air Taxi	Other
ALL AIRCRAFT—TOTAL	181,341	9,944	25,996	108,492	14,389	4,924	4,536	990	186	1,174	4,273	6,430
PISTON—Total	145,454	3,011	24,269	90,401	13,063	3,979	3,185	356	0	820	2,617	3,748
One-Engine	128,804	997	18,775	85,346	12,139	3,724	2,864	340	0	794	844	2,975
Two-Engine	16,594	2,014	5,493	5,054	923	251	317	15	0	26	1,772	725
Other Piston	55	0	0	0	0	4	3	0	0	0	0	47
TURBOPROP—Total	4,530	2,345	560	266	27	297	26	0	0	59	709	238
One-Engine	746	66	92	41	14	274	4	0	0	0	241	11
Two-Engine	3,754	2,253	467	225	13	22	21	0	0	59	468	223
Other Turboprop	28	24	0	0	0	0	0	0	0	0	0	3
TURBOJET—Total	4,577	3,444	230	119	13	0	2	3	0	0	326	436
Two-Engine	4,256	3,215	230	115	13	0	2	3	0	0	324	349
Other Turbojet	320	228	0	4	0	0	0	0	0	0	1	86
ROTORCRAFT—Total	5,117	893	255	602	528	603	1,096	94	186	38	458	359
Piston	1,474	10	136	345	356	313	197	42	15	16	0	38
Turbine	3,643	882	119	257	172	289	898	52	170	21	458	320
One-Engine	2,773	633	112	250	166	218	788	48	110	21	201	222
Two-Engine	870	249	6	7	5	71	110	3	60	0	257	98
GLIDERS—Total	1,905	0	33	1,481	210	0	1	120	0	6	0	51
LIGHTER-THAN-AIR—Total	3,374	0	29	2,284	219	1	30	379	0	208	55	165
EXPERIMENTAL—Total	16,382	250	617	13,335	326	42	194	35	0	41	104	1,431
Homebuilt	10,964	0	270	9,531	210	0	100	0	0	0	0	850
Exhibition	1,841	0	41	1,340	47	0	14	0	0	10	2	386
Other	3,576	250	305	2,464	69	42	79	35	0	31	102	194

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

Source: FAA

General Aviation Hours Flown By Aircraft Type and Primary Use—1995 (In Thousands of Hours)

Aircraft Type	Active GA Aircraft	Corporate	Business	Personal	Instruc- tional	Aerial Applica- tion	Aerial Observa- tion	Sight- Seeing	External Load	Other Work	Air Taxi	Other
ALL AIRCRAFT—TOTAL	25,447	3,007	3,283	9,129	3,788	1,349	1,467	219	156	261	1,691	1,097
PISTON—Total	18,886	610	3,088	8,105	3,483	994	825	100	0	219	872	590
One-Engine	16,246	200	2,384	7,622	3,253	958	753	98	0	214	308	457
Two-Engine	2,636	410	704	483	230	35	72	3	0	5	564	130
Other Piston	3	0	0	0	0	0	0	0	0	0	0	3
TURBOPROP—Total	1,356	664	76	40	9	138	6	0	0	16	271	136
One-Engine	273	11	15	7	6	134	1	0	0	0	98	3
Two-Engine	1,069	640	62	33	3	4	5	0	0	16	172	133
Other Turboprop	14	13	0	0	0	0	0	0	0	0	0	0
TURBOJET—Total	1,392	1,134	26	23	7	0	0	1	0	0	118	84
Two-Engine	1,326	1,081	26	23	7	0	0	1	0	0	117	73
Other Turbojet	65	53	0	0	0	0	0	0	0	0	1	11
ROTORCRAFT—Total	2,333	465	26	59	210	192	608	49	156	11	381	175
Piston	341	1	10	21	126	75	86	10	4	4	1	4
Turbine	1,992	464	16	38	84	117	522	39	152	7	380	171
One-Engine	1,450	316	15	37	81	86	483	38	43	7	198	145
Two-Engine	541	148	0	1	3	31	40	1	109	0	182	26
GLIDERS—Total	185	0	3	98	56	0	0	24	0	1	0	3
LIGHTER-THAN-AIR—Total	134	0	1	73	6	0	1	22	0	9	2	20
EXPERIMENTAL—Total	1,162	133	62	730	18	25	26	24	0	5	48	89
Homebuilt	578	0	17	510	10	0	12	0	0	0	0	30
Exhibition	125	0	3	71	2	0	1	0	0	1	0	47
Other	459	133	43	150	6	25	13	24	0	4	48	13

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

Source: FAA

FLEET BY AGE

Average Age of the U.S. General Aviation Fleet—1996



Aircraft Type	Engine Type	Seats	Average Age in Years
Single-Engine	Piston	1-3	30
		4	29
		5-7	24
		8+	38
		All	29
	Turboprop Jet	All	8
		All	32
Multi-Engine	Piston	1-3	32
		4	29
		5-7	27
		8+	27
		All	27
	Turboprop Jet	All	17
		All	16
All Aircraft			28

FLEET BY GEOGRAPHIC AREA

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

FAA Region and State	1991	1992	1993	1994	1995	FAA Region and State	1991	1992	1993	1994	1995
ALASKAN	6,616	6,083	5,410	5,479	5,338	N.W. MOUNTAIN	19,390	19,153	18,259	17,415	20,338
Alaska	6,616	6,083	5,410	5,479	5,338	Colorado	4,064	3,676	3,855	3,604	4,174
CENTRAL	11,404	10,251	10,517	9,374	10,321	Idaho	1,820	1,804	1,797	1,580	2,054
Iowa	2,597	2,489	2,328	2,028	2,056	Montana	1,851	1,923	1,808	1,770	1,723
Kansas	3,421	2,973	2,953	2,738	2,992	Oregon	4,559	3,935	3,789	4,057	4,562
Missouri	3,781	3,068	3,494	2,822	3,881	Utah	1,031	1,264	1,041	959	1,218
Nebraska	1,605	1,721	1,743	1,787	1,392	Washington	5,376	5,874	5,326	4,729	5,910
EASTERN	22,506	21,683	21,222	20,419	21,514	Wyoming	698	677	645	717	699
Delaware	891	1,047	1,332	1,324	1,735	SOUTHERN	32,380	30,731	28,544	28,731	30,007
District of Columbia	46	12	24	37	4	Alabama	3,010	2,873	2,736	2,362	2,656
Maryland	2,717	2,489	2,299	2,210	2,373	Florida	12,336	11,753	10,498	10,574	11,723
New Jersey	3,512	3,547	3,434	2,929	3,384	Georgia	4,540	4,326	3,796	3,983	3,893
New York	5,419	5,615	5,371	5,237	5,209	Kentucky	1,446	1,472	1,476	1,411	1,398
Pennsylvania	5,688	5,398	5,145	5,067	5,145	Mississippi	1,770	1,776	1,469	1,661	1,573
Virginia	3,288	2,609	2,764	2,795	2,670	North Carolina	4,493	3,729	3,782	4,014	4,081
West Virginia	945	966	852	824	995	Puerto Rico	394	370	305	217	166
GREAT LAKES	34,792	32,943	32,424	30,884	33,169	South Carolina	1,878	1,669	1,641	1,566	1,543
Illinois	6,543	6,373	6,160	6,002	6,652	Tennessee	2,513	2,763	2,766	2,862	2,967
Indiana	3,460	3,411	3,753	3,560	3,145	SOUTHWEST	26,517	24,884	22,868	23,529	24,380
Michigan	6,823	6,248	6,150	5,737	6,237	Arkansas	2,206	2,469	2,415	2,078	2,238
Minnesota	4,097	4,517	4,583	3,904	4,252	Louisiana	2,843	2,823	2,255	2,437	2,454
North Dakota	1,489	1,323	1,322	1,143	1,214	New Mexico	1,891	2,043	2,120	2,180	1,843
Ohio	6,919	6,101	5,620	5,583	6,367	Oklahoma	3,371	2,762	3,135	2,858	3,140
South Dakota	1,072	1,005	1,001	919	1,096	Texas	16,206	14,787	12,944	13,976	14,705
Wisconsin	4,389	3,965	3,836	4,037	4,205	WESTERN	36,522	31,320	29,598	28,185	29,547
NEW ENGLAND	8,223	7,248	7,160	6,581	6,724	Arizona	4,789	4,355	4,111	4,332	4,709
Connecticut	1,872	1,589	1,477	1,339	1,561	California	29,261	24,909	23,279	21,728	22,357
Maine	1,251	982	1,029	835	1,073	Hawaii	484	372	312	391	460
Massachusetts	2,776	2,483	2,691	2,605	2,267	Nevada	1,988	1,684	1,838	1,729	2,013
New Hampshire	1,393	1,385	1,216	1,026	1,161	OTHER U.S. TERRITORIES	72	136	N/A	N/A	N/A
Rhode Island	415	322	284	324	334	GRAND TOTAL	198,422	184,434	176,006	170,600	181,341
Vermont	561	487	464	452	328						

Note: Column total may differ from printed totals due to estimation procedures.

Source: FAA

EXPERIMENTAL AIRCRAFT FLEET

U.S. Registered Certificated Experimental Aircraft By Type—1984-1994

Aircraft Type	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
ALL AIRCRAFT—TOTAL	16,477	16,204	16,994	17,658	18,192	19,757	21,027	21,615	22,700	26,922	28,152
FIXED-WING—Total	13,767	13,344	14,046	14,619	15,123	16,449	17,564	18,175	19,137	22,363	23,581
Piston	13,682	13,210	13,957	14,488	14,982	16,045	16,998	17,619	18,678	21,505	22,749
Turbine	85	134	89	131	141	404	566	556	459	858	832
ROTORCRAFT—Total	1,548	1,612	1,655	1,723	1,801	1,891	1,982	1,951	2,010	2,299	2,283
GLIDERS—Total	865	930	954	951	919	966	985	993	1,027	1,759	1,792
BALLOONS & DIRIGIBLES—Total	297	318	339	365	349	451	496	496	526	501	496

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 the Federal Aviation Regulations.

Source: FAA

FLIGHT HOURS BY TYPE

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



Calendar Year	Total	FIXED WING			ROTORCRAFT		Balloons Dirigibles Gliders	Experimental
		Piston	Turboprop	Turbojet	Piston	Turbine		
1977	35,791	30,965	1,549	1,165	609	1,259	245	N/A
1978	39,409	34,043	1,606	1,194	806	1,421	338	N/A
1979	43,340	37,303	1,871	1,259	892	1,664	353	N/A
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
1985R	31,456	25,666	1,921	1,498	521	1,468	382	N/A
1986R	31,782	24,805	2,661	1,527	742	1,682	364	N/A
1987R	30,883	24,969	2,010	1,411	602	1,506	384	N/A
1988R	31,114	24,291	2,195	1,554	533	1,974	568	N/A
1989R	32,332	24,907	2,892	1,527	692	1,918	396	N/A
1990R	32,096	25,832	2,319	1,396	716	1,493	341	N/A
1991	30,067	24,102	1,513	1,236	585	2,172	459	N/A
1992	26,493	21,251	1,478	1,072	416	1,866	410	N/A
1993	24,340	19,029	1,227	1,165	370	1,462	376	711
1994	23,866	18,370	1,106	1,241	340	1,666	424	718
1995	25,447	18,886	1,356	1,392	341	1,992	319	1,162

Note: Columns may not add due to rounding and estimation procedures.

Source: FAA

Beginning in 1993, commuters were excluded.

N/A=Not available.

R=Revised to correct for nonresponse bias.

... AND PER AIRCRAFT

Active U.S. General Aviation Aircraft and Average Hours Annually Flown Per Aircraft, by Type

Aircraft Type	ESTIMATED ACTIVE AIRCRAFT					ESTIMATED AVERAGE HOURS / AIRCRAFT / YR.				
	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
ALL AIRCRAFT—TOTAL	198,475	184,434	176,006	170,660	181,341	149	144	138	136	140
PISTON—Total	175,347	162,117	147,094	138,909	145,454	138	131	129	132	130
One-Engine	154,102	143,580	130,687	123,332	128,804	134	126	126	129	126
1-3 seats	55,652	52,534	41,251	38,987	40,950	123	108	115	116	113
4 + seats	98,450	91,046	89,437	84,344	87,853	141	136	131	134	132
Two-Engine	21,119	18,451	16,388	15,508	16,594	167	172	153	165	159
1-6 seats	13,561	11,807	10,922	10,137	10,969	160	157	148	164	150
7 + seats	7,557	6,644	5,466	5,371	5,625	182	198	164	170	177
Other Piston	127	86	18	68	55	41	52	51	113	55
TURBOPROP—Total	4,920	4,704	4,359	4,206	4,530	308	314	281	264	299
One-Engine	N/A	N/A	703	563	746	N/A	N/A	347	384	366
Two-Engine	4,398	4,094	3,632	3,636	3,754	312	302	270	247	285
1-12 seats	3,820	3,512	3,266	3,274	3,325	283	265	258	246	259
13 + seats	577	582	366	362	429	589	528	369	247	483
Other Turboprop	522	610	24	6	28	279	394	137	21	500
TURBOJET—Total	4,353	4,022	3,859	4,072	4,577	290	267	302	309	304
Two-Engine	4,066	3,790	3,673	3,876	4,256	297	272	307	314	312
Other Turbojet	286	232	186	196	320	193	181	211	226	203
ROTORCRAFT—Total	5,753	6,292	4,510	4,389	5,117	452	397	406	459	456
Piston—Total	2,470	2,211	1,646	1,380	1,474	234	188	225	253	231
Turbine—Total	3,822	3,542	2,864	3,009	3,643	592	527	502	571	547
One-Engine	N/A	N/A	2,144	2,298	2,773	N/A	N/A	500	526	523
Two-Engine	N/A	N/A	720	710	870	N/A	N/A	541	762	622
GLIDERS—Total	N/A	N/A	1,645	2,678	1,905	N/A	N/A	97	106	97
LIGHTER-THAN-AIR—Total	N/A	N/A	3,602	3,490	3,374	N/A	N/A	60	36	40
EXPERIMENTAL—Total	N/A	N/A	10,938	12,852	16,382	N/A	N/A	65	53	71
Homebuilt/Amateur	N/A	N/A	6,854	9,523	10,964	N/A	N/A	44	43	53
Exhibition	N/A	N/A	1,622	562	1,841	N/A	N/A	54	43	68
Other	N/A	N/A	2,462	2,766	3,576	N/A	N/A	N/A	99	128
OTHER—Total	7,563	7,837	N/A	N/A	N/A	61	52	N/A	N/A	N/A

Note: Columns may not add due to rounding and estimation procedures.

Source: FAA

Beginning in 1993, commuters were excluded.

N/A=Not available.



GENERAL AVIATION OPERATIONS & ACTIVITY

DOMESTIC

Summary of U.S. General Aviation Operation Statistics—1986-1995

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
IFR Aircraft Handled at ARTCCs	8,054,741	8,102,631	8,053,133	8,197,964	7,931,305	7,389,654	7,393,276	7,433,281	7,685,430	7,824,408
Total Instrument Operations at FAA Facilities**	16,877,404*	18,040,059*	18,377,439*	19,924,116*	19,233,821*	18,250,688*	18,334,640*	17,893,667	18,049,094	18,127,328
Total Aircraft Contacts at FSSs	5,382,619	5,208,721	5,008,210	4,873,102	4,795,332	4,376,481	4,129,578	3,702,865	3,509,395	3,205,808
Total Airport Operations at FAA Control Towers	37,693,575*	38,521,783*	38,252,313*	38,832,133*	40,449,432*	38,910,962*	38,354,750*	36,600,990*	34,691,111	35,926,520
Itinerant Operations at FAA Control Towers	21,942,188	22,078,782	22,096,026	22,078,592	22,479,791	21,538,486	21,280,913	20,376,766	20,208,653	20,860,363
Local Operations at FAA Control Towers	15,158,469	14,751,742	15,407,223	15,674,413	16,690,014	16,039,817	15,664,447	14,851,004	14,484,055	15,066,157

*Includes Federal and Contract Operated Towers and Facilities
 **Facilities=Control Towers, TRACONS, CERAPs, and RAPCONS

Source: FAA

INTERNATIONAL

Number of General Aviation Aircraft

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Europe	30,700	30,200	30,800	31,200	31,500	32,000	33,100	33,200	31,300	31,100	36,200	36,100
Africa	3,700	4,750	4,600	4,650	4,600	4,500	4,970	4,950	6,200	5,500	6,200	6,050
Middle East	550	550	520	540	550	600	690	670	610	580	590	580
Asia & Pacific	8,600	8,700	8,400	8,500	9,200	9,800	10,300	10,200	10,240	10,250	11,100	11,500
North America	231,400	233,000	236,000	224,300	224,150	229,320	223,030	232,080	224,750	219,000	188,300	185,890
Latin America & Caribbean	12,000	14,000	13,700	13,900	13,800	13,500	15,200	15,200	18,900	18,600	18,800	18,600
TOTAL-ICAO States	286,950	291,200	294,020	282,990	283,800	289,720	287,290	296,300	292,000	285,030	261,190	258,720

Source: ICAO

General Aviation Hours Flown (In Thousands)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Europe	6,000	5,950	6,080	6,400	6,500	6,600	6,720	6,870	6,730	6,700	7,260	7,240
Africa	750	820	790	820	800	800	820	820	700	700	800	770
Middle East	270	280	260	240	260	260	270	310	300	180	300	290
Asia & Pacific	2,400	2,380	2,420	2,740	3,060	3,250	3,380	3,470	3,500	3,770	4,180	4,250
North America	34,650	33,100	33,920	32,100	31,070	31,110	31,610	31,950	32,100	26,200	24,220	23,120
Latin America & Caribbean	3,940	3,800	3,850	3,380	3,550	3,570	3,400	3,300	3,150	3,150	3,340	3,280
TOTAL-ICAO States	47,880	46,360	46,830	45,870	45,260	45,430	46,140	46,710	46,380	40,700	40,100	38,960

Source: ICAO

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PILOTS BY CERTIFICATE AND RATING

Active U.S. Pilot and Non-Pilot Certificates Held—1977-1996

Category	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
PILOT—Total	783,932	799,833	814,667	827,071	764,182	733,255	718,004	722,376	709,540	709,118	699,653	694,016	700,010	702,659	692,095	682,959	685,069	654,088	639,184	622,261
Student	203,510	204,874	210,180	199,833	179,912	156,361	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
Private	327,424	337,644	343,276	357,479	328,562	322,094	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
Commercial	188,763	185,833	182,097	183,442	168,580	165,093	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
Airline Transport	50,149	55,881	63,652	69,569	70,311	73,471	75,938	79,192	82,740	87,186	91,287	96,968	102,087	107,732	112,167	115,855	117,070	117,434	123,877	127,486
Helicopter (only)	4,819	4,874	5,218	6,030	6,453	7,034	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
Glider (only) ¹	6,208	6,541	6,796	7,039	7,388	7,842	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
Lighter-Than-Air ¹	3,059	3,186	3,448	3,679	2,976	1,360	1,337	1,166	1,139	1,133	1,153	1,111	1,089	2	2	2	2	2	2	2
Recreational	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	87	187	206	241	232	265
Instrument Rating ^{3,4}	226,334	236,312	247,096	260,461	252,535	255,073	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
Flight Instructor	49,362	52,201	54,398	60,440	57,523	62,492	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
Certificates ³																				
NON-PILOT—Total	348,584	362,350	377,213	393,486	382,840	399,661	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
Mechanics ⁵	220,768	228,743	237,611	250,157	262,705	277,436	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
Repair Men	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	50,768
Parachute Rigger ⁶	8,994	9,200	9,831	9,547	9,716	9,893	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
Ground Instructor ⁶	55,717	57,738	59,680	61,550	63,246	65,004	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
Dispatcher ⁶	5,972	6,161	6,446	6,799	7,094	7,580	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
Flight Navigator	2,155	2,092	1,994	1,936	1,785	1,695	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
Flight Engineer	29,871	33,028	36,869	38,367	38,294	38,053	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

Source: FAA

¹Glider 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.

²except 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—1996



GAMA

FAA Region and State	Total Pilots	Student ¹	AIRPLANE ²			Misc. ³	Flight Instructor ⁴
			Private	Commercial	Airline Transport		
GRAND TOTAL⁵	622,261	94,947	254,002	129,187	127,486	16,639	78,251
UNITED STATES—Total	592,874	90,610	247,859	119,755	119,624	15,026	76,126
ALASKAN—Total	8,781	988	3,834	2,250	1,623	86	1,027
Alaska	8,781	988	3,834	2,250	1,623	86	1,027
CENTRAL—Total	30,154	4,496	14,661	6,299	4,341	357	3,836
Iowa	6,217	914	3,353	1,273	624	53	767
Kansas	8,508	1,324	4,116	1,821	1,138	109	1,083
Missouri	11,233	1,635	5,097	2,216	2,121	164	1,531
Nebraska	4,196	623	2,095	989	458	31	455
EASTERN—Total	76,606	13,410	31,852	14,504	14,208	2,632	10,396
Delaware	1,453	246	591	259	322	35	220
District of Columbia	476	99	202	97	42	36	53
Maryland	8,556	1,425	3,639	1,667	1,536	289	1,185
New Jersey	11,893	2,064	5,087	2,062	2,253	427	1,536
New York	19,035	3,814	8,282	3,522	2,515	902	2,478
Pennsylvania	18,425	3,039	7,807	3,377	3,679	523	2,638
Virginia	14,037	2,195	5,072	2,908	3,511	351	1,959
West Virginia	2,198	407	1,033	459	258	41	263
Armed Forces Europe ⁶	533	121	139	153	92	28	64
GREAT LAKES—Total	102,351	16,649	47,771	19,905	16,371	1,655	13,387
Illinois	22,177	3,630	9,658	4,208	4,283	398	3,101
Indiana	11,719	2,023	5,713	2,214	1,602	167	1,434
Michigan	18,219	3,239	8,880	3,291	2,438	371	2,284
Minnesota	15,018	2,112	6,671	3,143	2,930	162	2,027
North Dakota	2,682	373	1,186	907	203	13	313
Ohio	18,991	3,048	8,866	3,598	3,055	424	2,572
South Dakota	2,258	362	1,053	537	292	14	253
Wisconsin	11,287	1,862	5,744	2,007	1,568	106	1,403
NEW ENGLAND—Total	27,028	4,198	11,917	4,901	5,174	838	3,407
Connecticut	6,727	957	2,801	1,112	1,635	222	866
Maine	3,239	551	1,515	675	464	34	371
Massachusetts	10,040	1,708	4,766	1,802	1,372	392	1,227
New Hampshire	4,149	517	1,539	746	1,246	101	596
Rhode Island	1,317	229	601	255	203	29	151
Vermont	1,556	236	695	311	254	60	196
NORTHWEST MOUNTAIN—Total	63,278	9,086	26,426	12,809	13,236	1,721	7,969
Colorado	16,633	2,152	6,035	3,369	4,397	680	2,455
Idaho	4,461	644	2,134	983	629	71	507
Montana	3,622	494	1,734	922	422	50	429
Oregon	10,006	1,637	5,016	2,026	1,101	266	1,144
Utah	5,845	1,005	2,327	1,078	1,321	114	667
Washington	20,873	2,900	8,265	4,055	5,098	555	2,553
Wyoming	1,838	254	915	376	268	25	214
SOUTHERN—Total	112,477	16,504	41,598	23,680	28,514	2,181	13,936
Alabama	7,639	1,268	3,108	1,893	996	374	972
Florida	45,218	6,279	16,017	10,190	11,974	758	6,205
Georgia	17,240	2,377	5,769	3,208	5,587	299	1,890
Kentucky	6,389	1,028	2,432	1,061	1,778	90	840
Mississippi	4,075	691	1,535	1,162	611	76	478
North Carolina	13,919	2,152	5,725	2,621	3,172	249	1,613
South Carolina	6,131	998	2,614	1,373	1,036	110	405
Tennessee	11,789	1,704	4,373	2,146	3,345	221	1,522
Armed Forces Europe ⁶	77	7	25	26	15	4	11
SOUTHWEST—Total	71,037	10,346	27,198	15,337	16,716	1,440	9,499
Arkansas	5,293	891	2,269	1,386	695	52	651
Louisiana	6,086	891	2,266	1,604	1,103	222	790
New Mexico	4,444	667	1,884	1,018	749	126	605
Oklahoma	8,981	1,574	4,025	2,063	1,234	85	1,280
Texas	46,233	6,323	16,754	9,266	12,935	955	6,173
WESTERN—Total	101,119	14,932	42,600	20,070	19,439	4,078	12,669
Arizona	16,298	2,691	5,970	3,351	3,759	527	2,374
California	75,801	11,098	33,779	14,935	12,845	3,144	9,031
Hawaii	2,561	311	566	567	907	210	378
Nevada	5,892	640	2,151	1,059	1,870	172	837
Armed Forces Pacific ⁶	567	192	134	158	58	25	49
UNKNOWN	43	1	2	0	2	38	0
OUTSIDE U.S.—Total⁷	29,387	4,337	6,143	9,432	7,862	1,613	2,125
OTHER U.S. AREAS—Total	2,130	564	570	413	521	62	253
American Samoa	12	0	1	5	5	1	3
Guam	216	22	23	36	131	4	22
Puerto Rico	1,624	498	450	306	317	53	192
Virgin Islands	241	42	90	50	55	4	27
U.S. Territories	37	2	6	16	13	0	9

¹Category of medical certificate unknown.

²Includes pilots with an airplane-only certificate. Also includes those with an airplane and a helicopter and/or glider certificate.

³Includes helicopter, glider, and recreational.

⁴Not included in total.

⁵Includes Outside U.S.

⁶Military personnel holding civilian certificates stationed in foreign country.

⁷Outside U.S. includes areas of the U.S. outside of the 50 states and foreign countries.

Source: FAA



ACTIVE PILOT CERTIFICATES

Estimated FAA Active Pilot Certificates Held by Category and Age Group of Holder—1996

Age Group	Total	TYPE OF PILOT CERTIFICATES							
		Student ¹	Recreational ¹	AIRPLANE ²			Rotorcraft (Only)	Glider (Only) ³	Flight Instructor ⁴
				Private	Commercial	Airline Transport			
Total	622,261	94,947	265	254,002	129,187	127,486	6,961	9,413	78,551
14-15	220	220	0	0	0	0	0	0	0
16-19	14,087	10,495	3	3,234	243	0	32	80	57
20-24	36,205	13,427	5	13,430	8,523	313	304	203	4,359
25-29	54,300	13,799	13	16,480	17,122	5,688	904	294	11,516
30-34	68,330	12,964	13	22,866	15,133	15,460	1,289	605	10,462
35-39	82,494	12,914	34	32,006	13,679	21,578	1,241	1,042	9,536
40-44	86,772	10,829	38	39,048	13,464	20,536	1,065	1,792	9,260
45-49	83,012	8,101	30	36,590	14,227	21,144	1,159	1,761	9,590
50-54	70,017	5,265	35	29,929	14,397	18,417	630	1,344	8,594
55-59	48,794	2,994	25	21,060	10,448	13,205	219	843	5,788
60-64	33,362	1,809	17	15,547	8,734	6,538	60	657	4,235
65-69	24,054	1,296	32	13,378	5,982	2,543	41	782	2,573
70-74	13,697	572	16	7,382	4,433	1,274	15	5	1,540
74-79	5,522	188	3	2,416	2,258	652	2	3	818
80 and over	1,395	74	1	636	544	138	0	2	223

¹Category of certificate unknown.

Source: FAA

²Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate.

³Glider pilots are not required to have a medical examination; however, totals above represent pilots who received a medical examination.

⁴Not included in total active pilots.

Average Age of Active Pilots by Category—1987-1996

Calendar Year	Total ¹	Student ²	Recreational ²	AIRPLANE ³		
				Private	Commercial	Airline Transport
1987	39.9	32.3	N/A	41.4	42.7	43.1
1988	40.1	32.5	N/A	41.4	42.6	43.2
1989	40.2	32.7	N/A	41.8	42.5	43.4
1990	40.5	32.5	41.7	42.0	42.2	43.6
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

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.

N/A=Not available. Recreational certificate first issued in 1990.

Estimated Active Women Pilot Certificates Held—1987-1996

Category	1987	1988	1989	1990	1991	1992	1993	1994 ⁷	1995 ⁸	1996
PILOT—Total	42,578	42,299	42,366	40,515	40,931	40,620	39,460	39,157	38,032	36,433
Student ¹	18,367	17,529	17,637	15,007	14,501	13,921	12,788	12,061	12,710	11,632
Recreational ¹	N/A	N/A	N/A	6	15	10	17	21	16	20
Airplane ²										
Private	17,349	17,544	16,988	17,301	17,514	17,276	16,997	17,196	15,398	14,868
Commercial	4,208	4,410	4,760	5,210	5,652	5,918	5,981	6,000	5,694	5,495
Airline Transport	1,538	1,745	1,898	2,082	2,308	2,530	2,738	2,924	3,134	3,346
Helicopter (only)	247	259	273	292	307	313	276	277	N/A	N/A
Glider (only) ³	627	590	586	617	634	652	663	678	N/A	N/A
Lighter-Than-Air ^{3,4}	242	222	224	4	4	4	4	4	4	4
Flight Instructor Certificates ⁵	2,909	3,018	3,074	3,239	3,629	3,964	4,338	4,481	4,556	4,667
NONPILOT—Total	7,101	7,842	10,683	9,557	10,324	11,514	12,363	13,026	15,120	13,909
Mechanic ⁶	2,237	2,565	2,892	3,333	3,901	4,398	4,839	5,175	3,914	4,019
Repair Men	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,710	1,752
Parachute Rigger ⁶	428	441	451	474	363	390	413	442	672	441
Ground Instructor ⁶	3,232	3,391	3,554	3,760	3,952	4,338	4,615	4,804	6,019	4,652
Dispatcher ⁶	524	622	711	802	852	1,004	1,083	1,159	1,270	1,411
Flight Navigator	0	1	1	0	0	0	0	0	0	0
Flight Engineer	680	822	3,074	1,188	1,256	1,384	1,413	1,446	1,535	1,634

¹Category of certificate unknown.

Source: FAA

²Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate.

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.

³Glider 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.

⁴Lighter-Than-Air type ratings are no longer being issued. ⁵Not included in total.

⁶Numbers represent all certificates on record. No medical examination required.

⁷1994 counts based on medical certificates issued 27 or fewer months ago. All other years based on medical certificates issued 25 or fewer months ago.

⁸Beginning 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. N/A=Not available. Recreational certificate first issued in 1990.

INSTRUMENT-RATED PILOTS

Estimated Total Active Pilots and Instrument-Rated Pilots—1976-1996



Calendar Year	Total Active Pilots ¹	INSTRUMENT-RATED PILOTS	
		Number	Percent of Total
1976	555,625	211,364	38
1977	580,422	226,334	39
1978	593,959	236,312	40
1979	604,487	247,096	41
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

¹Excludes student pilots and recreational pilots.

Source: FAA

PILOT CERTIFICATES ISSUED

Pilot Certificates Issued By Category—1965-1996

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
1965	94,635	N/A	33,337	4,981	11,043	12,557	1,177	4,018	549	74	252	N/A
1966	129,180	N/A	42,464	5,648	14,210	15,360	1,513	5,571	822	53	316	2
1967	159,399	N/A	57,520	8,036	19,996	21,272	2,745	5,726	1,411	105	422	4
1968	149,444	N/A	54,232	7,926	20,157	21,795	2,601	4,911	1,433	94	476	17
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	66,501	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	58,612E	N/A	24,714	18,199	10,245	10,494	7,444	17,229	1,638	349	633	195

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

R=Revised.

E=Estimated.

N/A=Not available.

Source: FAA

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Airports and Aeronautical Facilities



GAMA

AIRPORTS BY GEOGRAPHIC AREA

U.S. Civil and Joint Use Airports, Heliports, Stolports, and Seaplane Bases On Record
By Type Of Ownership—1996



FAA Region and State	Total Facilities	TOTAL FACILITIES, BY OWNERSHIP		AIRPORTS OPEN TO THE PUBLIC				Total Airports
		Public	Private	PAVED AIRPORTS¹		UNPAVED AIRPORTS¹		
				Lighted	Unlighted	Lighted	Unlighted	
GRAND TOTAL	18,292	5,129	13,163	3,609	294	399	802	5,104
UNITED STATES—Total*	18,216	5,079	13,137	3,586	291	399	789	5,065
ALASKAN—Total	546	383	163	45	5	99	156	305
Alaska	546	383	163	45	5	99	156	305
CENTRAL—Total	1,493	499	994	386	17	41	54	498
Iowa	305	136	169	96	1	13	14	124
Kansas	384	132	252	101	9	17	21	148
Missouri	507	137	370	113	5	6	10	134
Nebraska	297	94	203	76	2	5	9	92
EASTERN—Total	2,359	349	2,010	332	26	48	82	488
Delaware	35	4	31	5	0	3	1	9
District of Columbia	17	8	9	2	0	0	0	2
Maryland	200	21	179	28	1	3	3	35
New Jersey	348	47	301	36	2	4	7	49
New York	535	91	444	83	13	22	31	149
Pennsylvania	755	74	681	89	5	14	28	136
Virginia	365	73	292	63	1	1	3	68
West Virginia	104	31	73	26	4	1	9	40
GREAT LAKES—Total	4,259	905	3,354	744	21	145	156	1,066
Illinois	896	122	774	92	0	19	5	116
Indiana	603	87	516	78	4	5	21	108
Michigan	471	134	337	124	7	43	56	230
Minnesota	475	150	325	107	0	23	16	146
North Dakota	434	96	338	66	5	12	11	94
Ohio	739	136	603	124	2	17	24	167
South Dakota	156	77	79	54	1	14	5	74
Wisconsin	485	103	382	99	2	12	18	131
NEW ENGLAND—Total	705	142	563	116	17	4	27	164
Connecticut	136	16	120	17	2	0	4	23
Maine	150	46	104	30	7	2	7	46
Massachusetts	226	35	191	36	4	1	5	46
New Hampshire	94	16	78	16	3	1	6	26
Rhode Island	26	9	17	7	0	0	0	7
Vermont	73	20	53	10	1	0	5	16
N.W. MOUNTAIN—Total	1,938	683	1,255	407	51	21	144	623
Colorado	391	92	299	64	4	3	8	79
Idaho	227	131	96	44	9	1	64	118
Montana	243	123	120	73	7	8	31	119
Oregon	411	103	308	58	17	4	18	97
Utah	125	58	67	41	5	0	1	47
Washington	437	127	310	93	8	4	17	122
Wyoming	104	49	55	34	1	1	5	41
SOUTHERN—Total	2,634	840	1,794	633	49	25	52	759
Alabama	240	103	137	86	5	4	6	101
Florida	769	163	606	100	5	8	15	127
Georgia	401	136	265	97	9	2	2	110
Kentucky	179	73	106	53	9	0	3	65
Mississippi	221	90	131	70	9	2	2	83
North Carolina	358	95	263	87	4	5	16	112
Puerto Rico	32	17	15	10	1	0	0	11
South Carolina	167	69	98	57	1	4	6	68
Tennessee	258	88	170	71	6	0	2	79
Virgin Islands	9	6	3	2	0	0	0	2
SOUTHWEST—Total	2,949	816	2,133	637	47	12	74	770
Arkansas	265	115	150	90	5	0	5	100
Louisiana	426	110	316	71	2	1	7	81
New Mexico	164	73	91	43	9	0	10	62
Oklahoma	410	160	250	112	13	6	17	148
Texas	1,684	358	1,326	321	18	5	35	379
WESTERN—Total	1,409	512	897	309	61	4	57	431
Arizona	276	88	188	54	8	0	14	76
California	933	319	614	207	42	1	11	261
Hawaii	46	18	28	11	2	0	0	13
Nevada	119	60	59	26	7	3	19	55
South Pacific**	35	27	8	11	2	0	13	26

*Excludes Puerto Rico, Virgin Islands, Northern Mariana Islands, and South Pacific.

**American Samoa, Guam, and Trust Territories.

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

Source: FAA



AERONAUTICAL FACILITIES

FAA Air Route Facilities and Services—1972-1996

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	1,041	1,344	24	684	165	3	1,231	310
1994	1,041	1,342	24	685	156	3	1,245	303
1995	1,039	1,333	24	683	91	3	1,280	298
1996	1,027*	1,165*	21	664*	94**	0	1,197	228

*Includes nonfederal and military.

**Includes Automated Flight Service Stations (AFSS).

Source: FAA

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Forecasts and Other Information



AIRCRAFT FORECAST

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

Calendar Year	FIXED WING				ROTORCRAFT		Experimental	Other	Total
	PISTON		Turboprop	Turbojet					
	Single-Engine	Multi-Engine			Piston	Turbine			
<u>Historical</u>									
1991	154.1	21.2	4.9	4.4	2.5	3.8	N/A	7.6	198.5
1992	143.6	18.6	4.7	4.0	2.2	3.5	N/A	7.8	184.4
1993	130.7	16.4	4.4	3.9	1.6	2.9	11.0	5.2	176.0
1994	123.3	15.6	4.2	4.1	1.4	3.0	12.9	6.2	170.6
1995	128.8	16.6	4.5	4.6	1.5	3.6	16.4	5.3	181.3
1996	129.0	16.6	4.5	4.7	1.5	3.6	16.6	5.3	181.8
<u>Forecast</u>									
1997	130.7	16.7	4.6	4.8	1.5	3.6	16.8	5.4	184.1
1998	132.0	16.8	4.6	4.8	1.4	3.6	17.0	5.4	185.6
1999	133.4	16.9	4.7	4.9	1.4	3.6	17.2	5.5	187.6
2000	134.7	17.0	4.8	4.9	1.4	3.6	17.3	5.5	189.2
2001	135.4	17.0	4.8	5.0	1.4	3.6	17.5	5.6	190.3
2002	136.1	17.1	4.9	5.1	1.3	3.6	17.7	5.6	191.4
2003	136.7	17.2	5.0	5.1	1.3	3.6	17.8	5.7	192.4
2004	137.4	17.2	5.0	5.2	1.3	3.6	18.0	5.7	193.4
2005	138.1	17.3	5.1	5.3	1.3	3.6	18.1	5.8	194.6
2006	138.8	17.4	5.1	5.4	1.2	3.6	18.3	5.8	195.6
2007	139.5	17.4	5.2	5.4	1.2	3.6	18.4	5.9	196.6

Notes: Details may not add up to total because of independent rounding.
An active aircraft must have a current registration and it must have been flown at least one hour during the previous calendar year.
N/A=Not available.

Historical Source: FAA Statistical Handbook of Aviation
Forecast Source: FAA Aviation Forecasts

PILOT FORECAST

Active Pilots by Type of Certificate (In Thousands)

Calendar Year	Students	Recreational ¹ Lighter-Than-Air ²	Private	Commercial	Airline Transport	Helicopter	Glider	Total	Instrument Rated ³
Historical									
1991	120.2	0.2	293.3	148.4	112.2	9.9	8.0	692.2	303.2
1992	114.6	0.2	288.1	146.4	115.9	9.7	8.2	683.0	306.2
1993	103.6	0.2	283.7	143.0	117.1	9.2	8.3	665.1	305.5
1994	96.3	0.2	284.2	138.7	117.4	8.7	8.5	654.0	302.3
1995	101.3	0.2	261.4	134.0	123.9	7.2	11.2	639.2	298.3
1996	101.3	0.2	261.4	132.6	126.4	7.2	11.2	640.3	299.9
Forecast									
1997	102.8	0.3	264.0	133.9	128.9	7.1	11.2	648.2	307.5
1998	104.6	0.3	266.7	135.3	131.1	7.2	11.3	656.5	310.5
1999	106.7	0.3	269.3	136.6	133.4	7.3	11.3	664.9	314.6
2000	108.8	0.3	272.0	137.6	135.3	7.4	11.4	672.8	315.7
2001	110.5	0.4	274.1	138.6	137.4	7.4	11.4	679.8	319.0
2002	112.2	0.4	276.1	139.3	139.4	7.5	11.5	686.4	320.9
2003	113.6	0.4	278.2	140.0	141.2	7.5	11.5	692.4	323.3
2004	114.7	0.4	279.8	140.7	143.0	7.6	11.6	697.8	325.8
2005	115.5	0.5	281.2	141.4	145.0	7.6	11.6	702.8	328.3
2006	116.4	0.5	282.7	142.1	146.7	7.7	11.7	707.8	316.2
2007	117.2	0.5	284.1	142.8	148.6	7.7	11.7	712.6	318.4

¹Recreational rating not available until 1991.

²Lighter-Than-Air type rating is no longer issued after 1990.

³Instrument rated pilots should not be added to other categories in deriving total.

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

Historical Source: FAA Statistical Handbook of Aviation
Forecast Source: FAA Aviation Forecasts

FLIGHT HOURS FORECAST

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



Calendar Year	FIXED WING				ROTORCRAFT		Experimental	Other	Total
	PISTON		Turboprop	Turbojet	ROTORCRAFT				
	Single-Engine	Multi-Engine			Piston	Turbine			
<u>Historical</u>									
1991	20.5	3.6	1.5	1.2	0.6	2.2	N/A	0.5	30.1
1992	18.1	3.2	1.5	1.1	0.4	1.9	N/A	0.4	26.5
1993	16.5	2.5	1.2	1.2	0.4	1.5	0.7	0.4	24.3
1994	15.8	2.6	1.1	1.2	0.3	1.7	0.7	0.4	23.9
1995R	16.2	2.6	1.4	1.4	0.3	2.0	1.2	0.3	25.4
1996E	16.3	2.6	1.4	1.5	0.3	2.0	1.2	0.3	25.6
<u>Forecast</u>									
1997	16.5	2.6	1.4	1.5	0.3	2.0	1.2	0.3	25.8
1998	16.7	2.7	1.4	1.6	0.3	2.0	1.3	0.3	26.3
1999	16.9	2.7	1.5	1.6	0.3	2.0	1.3	0.3	26.6
2000	17.1	2.7	1.5	1.7	0.3	2.0	1.3	0.3	26.9
2001	17.3	2.7	1.5	1.7	0.3	2.1	1.3	0.3	27.2
2002	17.5	2.7	1.6	1.8	0.3	2.1	1.3	0.3	27.6
2003	17.6	2.8	1.6	1.8	0.3	2.1	1.3	0.4	27.9
2004	17.7	2.8	1.6	1.8	0.3	2.1	1.3	0.4	28.0
2005	17.8	2.8	1.6	1.9	0.3	2.2	1.4	0.4	28.4
2006	17.9	2.8	1.6	1.9	0.3	2.2	1.4	0.4	28.5
2007	18.0	2.8	1.7	2.0	0.3	2.2	1.4	0.4	28.8
2008	18.1	2.8	1.7	2.0	0.3	2.2	1.4	0.4	28.9

Notes: Details may not add up to total because of independent rounding.
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.
N/A=Not available.

Historical Source: FAA General Aviation and Air Taxi Surveys
Forecast Source: FAA Aviation Forecasts

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	ROTORCRAFT			
	Single-Engine	Multi-Engine			Piston	Turbine		
<u>Historical*</u>								
1991	230.8	110.3	133.3	351.1	7.7	92.4	4.8	930.4
1992	202.2	98.9	124.3	289.0	6.5	80.6	6.5	808.0
1993	178.7	74.7	99.9	310.6	5.6	43.5	9.4	722.4
1994	170.7	78.8	89.8	331.0	5.1	50.0	9.5	734.9
1995	167.5	75.8	89.8	331.0	5.1	48.5	9.7	727.4
1996	175.9	79.4	111.6	372.7	5.2	59.5	15.3	819.6
<u>Forecast</u>								
1997	176.7	79.7	112.1	371.1	5.2	59.5	15.5	819.7
1998	179.4	80.2	114.5	381.8	5.2	59.7	15.7	836.5
1999	181.7	80.6	114.8	385.5	5.2	59.9	15.9	843.7
2000	184.5	81.1	117.0	391.4	5.2	60.2	16.0	855.4
2001	186.7	81.6	119.5	395.7	5.2	60.4	16.1	865.2
2002	188.2	81.8	119.8	395.5	5.2	60.6	16.3	867.4
2003	189.6	82.1	122.0	416.6	5.2	60.8	16.5	892.9
2004	190.9	82.6	124.5	421.1	5.2	61.1	16.6	902.0
2005	192.4	82.8	124.8	431.3	5.2	61.3	16.8	914.5
2006	193.8	83.0	127.0	442.7	5.2	61.5	16.9	930.1
2007	195.3	83.5	127.3	454.6	5.2	61.7	17.1	944.8
2008	196.3	83.7	129.5	458.4	5.2	62.0	17.2	952.2

*Adjusted to reflect nonrespondent sampling error.

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

Source: FAA APO Estimates



AIRCRAFT FUEL CONSUMPTION

Total General Aviation Fuel Consumed and Average Fuel Consumption Rate in the U.S. By Aircraft Type—1995

Aircraft Type	Average Rate GPH	Estimated Fuel Use (Mil. Gal.)	Percent Standard Error
ALL AIRCRAFT—TOTAL	28.1	819.5	2.8
PISTON—Total	13.3	255.3	2.4
One-Engine	10.9	175.9	2.7
1-3 seats	9.4	43.5	4.2
4 + seats	11.4	132.4	3.3
Two-Engine	29.9	78.6	4.7
1-6 seats	26.6	43.6	5.6
7 + seats	35.1	34.9	7.8
TURBOPROP—Total	83.5	111.6	8.7
One-Engine	54.4	14.9	9.6
Two-Engine	91.6	96.0	10.0
1-12 seats	84.8	73.1	6.7
13 + seats	110.4	22.8	36.4
Other Turboprop	54.4	.7	55.1
TURBOJET—Total	266.7	372.7	5.0
Two-Engine	263.2	349.1	5.3
Other Turbojet	362.1	23.6	17.2
ROTORCRAFT—Total	26.9	64.6	8.7
Piston	15.1	5.2	13.0
Turbine	29.2	59.5	9.4
EXPERIMENTAL—Total	13.2	15.3	6.2
Homebuilt	13.2	7.6	9.2
Exhibition	13.2	1.6	18.6
Other	13.2	6.1	16.8
JET FUEL—Total	115.4	543.7	3.8
AVIATION GASOLINE—Total	13.1	275.8	3.3

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

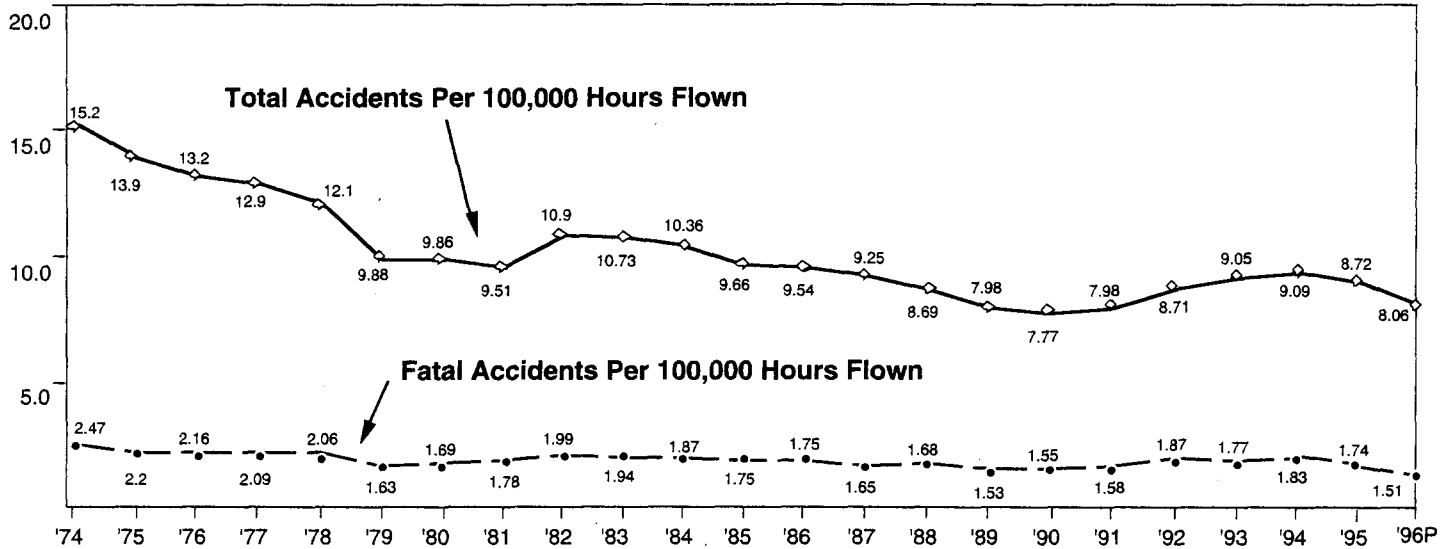
Source: FAA

HISTORICAL SAFETY RECORD



Aircraft
Hours Flown

Accident Rates In U.S. General Aviation—1974-1996



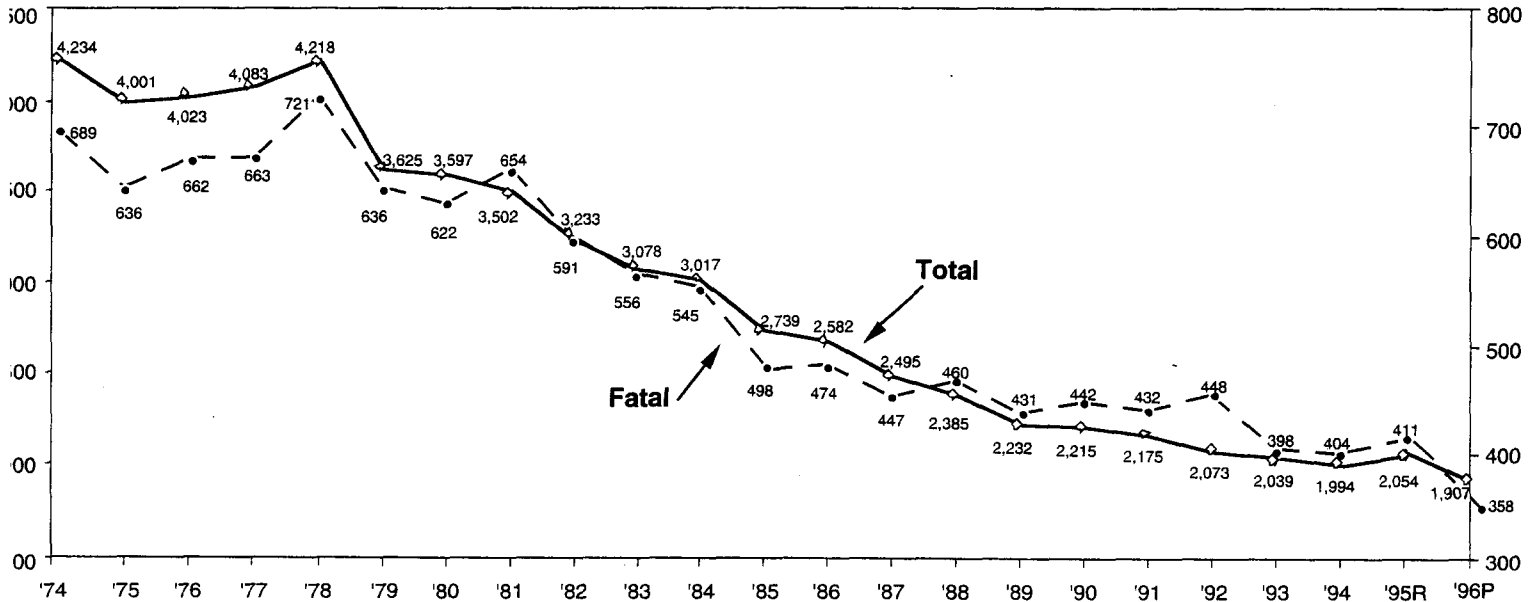
P=Preliminary.

Source: NTSB

Total GA
Accidents

Total and Fatal Accidents in U.S. General Aviation—1974-1996

Fatal GA
Accidents



Note: Prior to 1981, accident data included Air Taxi Operations.

=Revised.

P=Preliminary.

Source: NTSB

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