

GENERAL AVIATION STATISTICAL DATABOOK



1986 Edition

FOREWORD

The GENERAL AVIATION STATISTICAL DATABOOK has become a helpful tool to those examining our industry.

The 1986 DATABOOK continues in its previous format, providing information on general aviation shipments, aircraft fleet, pilot population, airports, international trade, safety and aircraft utilization.

Information on airports and pilot population will be of special interest to users since other publications offering this data may not be available this year from traditional sources.

We hope you'll keep your DATABOOK handy as a quick reference for all your questions on general aviation. As always, however, we at GAMA are ready to provide more information and assistance as needed.

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TABLE OF CONTENTS

	Page
U.S. GENERAL AVIATION AIRCRAFT SHIPMENTS	
Factory shipments and billings	4
Graph of shipments and billings	5
Factory shipments by aircraft type	6
Factory shipments by month and year	7
Factory shipments for export	8
U.S. GENERAL AVIATION FLEET AND FLIGHT ACTIVITY	
Fleet size by aircraft type and primary use	10
Fleet size by FAA region and state	11
Estimated flight hours by aircraft type	12
Estimated flight hours per aircraft by type	12
U.S. PILOTS	
Active pilot certificates and ratings	14
Pilots and flight instructors by FAA region and state	15
Student pilot certificates issued, by month and year	16
Instrument ratings held among total pilot population	17
Instrument ratings among various pilot categories	17
Women pilots	18
AIRPORTS AND AERONAUTICAL FACILITIES	
Airports and landing facilities by state and region	20-21
Aeronautical and air traffic control facilities, number of	22
FORECASTS AND OTHER INFORMATION	
Forecast fleet size (includes historical fleet size)	24
Forecast pilot population	25
Forecast flight hours	26
Forecast general aviation fuel usage	26
General aviation safety record	27
Average fuel consumption of various aircraft types	27
GAMA member companies	28
Index	29



**SHIPMENT
STATISTICS**



SHIPMENTS . . .

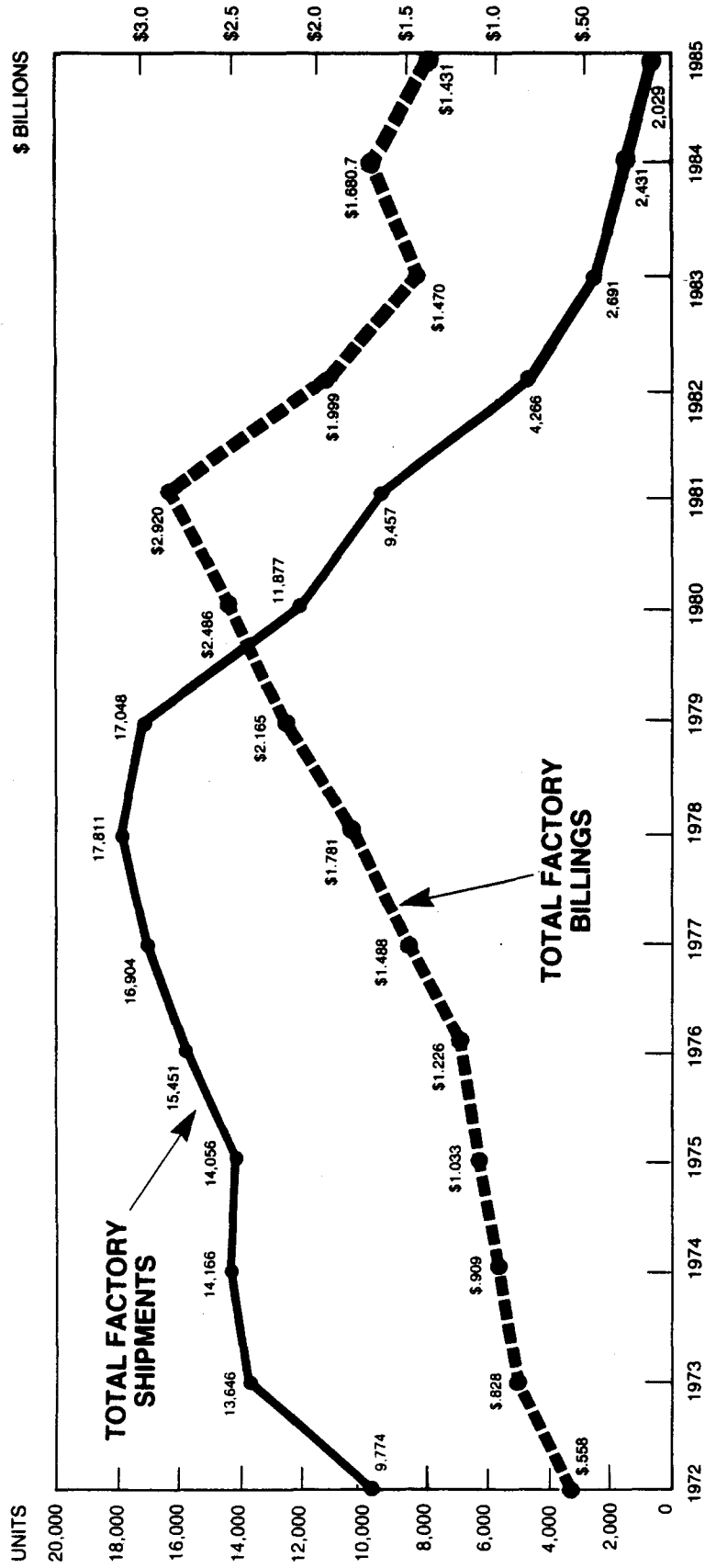
Annual Shipments of New U.S. General Aviation Aircraft by Units Shipped, Number of Companies Reporting, and Factory Net Billings

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

Source: GAMA



General Aviation Unit Shipments/Billings





SHIPMENTS BY TYPE . . .

U.S. General Aviation Aircraft Shipments by Type of Aircraft

Year	Total	Single Engine	Multi-Engine	Total Piston	Turbo-Prop	Jet
1962	6,697	5,690	1,007	6,697	-0-	-0-
1963	7,569	6,248	1,321	7,569	-0-	-0-
1964	9,336	7,718	1,606	9,324	9	3
1965	11,852	9,873	1,780	11,653	87	112
1966	15,768	13,250	2,192	15,442	165	161
1967	13,577	11,557	1,773	13,330	149	98
1968	13,698	11,398	1,959	13,357	248	93
1969	12,457	10,054	2,078	12,132	214	111
1970	7,292	5,942	1,159	7,101	135	56
1971	7,466	6,287	1,043	7,330	89	47
1972	9,774	7,913	1,548	9,446	179	134
1973	13,646	10,788	2,413	13,193	247	198
1974	14,166	11,579	2,135	13,697	250	202
1975	14,056	11,441	2,116	13,555	305	194
1976	15,451	12,785	2,120	14,905	359	187
1977	16,904	14,054	2,195	16,249	428	227
1978	17,811	14,398	2,634	17,032	548	231
1979	17,048	13,286	2,843	16,129	639	282
1980	11,877	8,640	2,116	10,756	778	326
1981	9,457	6,608	1,542	8,150	918	389
1982	4,266	2,871	678	3,549	458	259
1983	2,691	1,811	417	2,228	321	142
1984*	2,431	1,620	371	1,991	271	169
1985	2,029	1,370	193	1,563	321	145

Source: GAMA



U.S. General Aviation Aircraft Shipments by Year and Month

YEAR/ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
1962	555	578	649	587	601	556	452	436	441	676	527	639
1963	588	538	680	709	653	638	548	553	524	684	604	850
1964	725	696	735	834	836	833	745	575	614	1,102	718	923
1965	866	752	1,024	1,082	948	978	985	1,040	834	1,112	1,120	1,111
*1966	1,187	1,173	1,495	1,385	1,485	1,396	1,093	1,266	1,522	1,073	1,301	1,211
*1967	1,163	1,025	1,204	1,097	1,199	1,184	988	886	927	1,403	1,133	1,275
*1968	1,254	1,191	1,216	1,281	1,250	1,014	908	916	1,458	1,075	1,008	985
*1969	917	1,038	1,342	1,364	1,193	1,035	917	738	1,170	1,192	722	779
*1970	604	617	708	737	719	643	457	505	787	520	475	505
*1971	507	520	744	716	587	599	472	643	788	579	522	669
1972	590	688	879	828	857	879	694	853	870	799	894	943
1973	953	1,043	1,250	1,168	1,242	1,145	1,044	1,322	1,076	1,166	997	1,240
1974	1,139	1,141	1,213	1,432	1,131	1,013	1,041	1,226	1,221	1,243	1,232	1,134
1975	1,146	1,246	1,385	1,239	1,164	1,159	1,032	1,043	1,216	1,148	1,144	1,134
1976	1,215	1,288	1,446	1,439	1,424	1,296	924	1,227	1,328	1,306	1,269	1,289
1977	1,288	1,297	1,539	1,496	1,527	1,490	1,151	1,341	1,493	1,177	1,527	1,578
1978	1,145	1,419	1,612	1,489	1,676	1,456	1,250	1,845	1,577	1,432	1,476	1,434
1979	1,194	1,354	1,711	1,623	1,542	1,437	1,250	1,753	1,423	1,153	1,363	1,245
1980	1,286	1,168	1,058	993	877	886	802	966	1,028	1,092	892	829
1981	659	750	980	960	802	869	743	847	939	555	644	709
1982	384	458	548	395	378	353	319	270	301	249	254	357
1983	213	223	223	228	229	252	204	247	266	148	177	281
1984	143	171	209	216	160	187	141	231	309	191	193	280
1985	134	153	168	160	174	185	197	170	214	141	137	196

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

Source: GAMA

**U.S. 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%	229.9	16.1%

Source: GAMA

U.S. General Aviation Aircraft Exports by Type

Year	Single Engine	Multi-Engine	Turboprop	Turbojet
1972	1715	455	55	29
1973	2674	732	58	66
1974	3371	732	75	70
1975	2680	644	122	66
1976	2704	669	114	52
1977	2835	594	126	56
1978	2712	652	166	82
1979	2942	774	181	98
1980	2565	635	245	110
1981	1546	363	259	102
1982	718	227	135	82
1983	298	119	66	30
1984	199	80	24	31
1985	208	65	53	28

Source: GAMA



**U.S. GENERAL AVIATION
FLEET AND FLIGHT ACTIVITY**



THE FLEET BY TYPE AND USE . . .

**Number of Active General Aviation Aircraft in 1984
By Type and Primary Use**

Aircraft Type	Active GA Aircraft	Executive	Business	Personal	Instruc-tional	Aerial Applica-tion	Aerial Observa-tion	Other Work	Commuter Air Carrier	Air Taxi	Rental	Other
Total All Aircraft	220,943	16,675	47,098	105,309	15,287	7,332	5,173	1,328	1,232	7,292	9,406	4,777
Piston—Total	197,442	8,614	45,435	100,352	14,273	6,679	4,161	881	801	4,925	8,751	2,560
One-Engine	171,922	3,049	35,007	96,638	13,771	6,374	3,821	834	137	2,026	8,219	2,046
Two-Engine	25,258	5,522	10,405	3,710	502	237	338	42	663	2,845	472	509
Other Piston	262	43	23	3	0	68	2	5	2	53	60	5
Turboprop—Total	5,809	3,637	737	89	10	75	44	47	376	515	34	244
Two-Engine	5,633	3,616	717	89	10	0	42	47	376	515	33	188
Other Turboprop	176	21	20	0	0	75	3	0	0	0	1	56
Turbojet—Total	4,320	3,248	266	72	11	0	0	0	49	332	17	303
Two-Engine	3,780	3,018	223	71	3	0	0	0	21	329	3	113
Other Turbojet	540	230	43	1	7	0	0	0	28	3	13	190
Rotocraft—Total	7,096	1,035	541	705	533	578	840	155	7	1,504	96	1,104
Piston	2,936	154	263	645	469	369	509	10	0	32	23	462
Turbine	4,160	881	278	60	64	209	330	145	7	1,471	72	641
Other—Total	6,275	141	119	4,091	460	0	128	244	0	16	509	567

Source: FAA

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



**U.S. Active General Aviation Aircraft
by Region and State (as of December 31, year indicated)**

	1984	1983	1982	1981		1984	1983	1982	1981
ALASKAN	7,684	6,075	6,924	6,450	NORTHWEST MOUNTAIN	24,502	22,064	22,530	24,648
Alaska	7,684	6,075	6,294	6,450	Colorado	5,180	4,407	4,982	5,498
					Idaho	2,328	2,146	2,376	2,349
CENTRAL	13,331	12,720	13,069	14,489	Montana	2,472	2,538	2,193	2,463
Iowa	3,416	3,165	3,455	3,747	Oregon	5,032	4,689	4,789	5,640
Kansas	3,713	4,519	3,534	3,932	Utah	1,337	1,440	1,196	1,508
Missouri	4,396	3,858	4,540	4,465	Washington	6,665	5,645	5,532	6,048
Nebraska	1,805	1,178	1,539	2,343	Wyoming	1,474	1,192	1,462	1,142
EASTERN	24,297	24,006	23,226	21,988	SOUTHERN	34,007	34,356	32,604	33,331
Delaware	533	809	586	549	Alabama	3,234	2,594	2,628	2,980
District of Columbia	31	58	152	54	Florida	12,720	12,688	12,297	12,863
Maryland	2,870	3,116	2,646	2,645	Georgia	4,450	4,955	4,997	4,477
New Jersey	4,041	4,021	3,858	3,659	Kentucky	1,802	1,752	1,525	1,687
New York	6,599	6,045	6,118	5,687	Mississippi	2,082	2,706	2,252	2,132
Pennsylvania	6,205	6,174	6,313	5,666	North Carolina	4,412	4,344	3,740	4,300
Virginia	3,137	2,554	2,327	2,784	Puerto Rico	422	362	251	124
West Virginia	880	1,229	1,227	942	South Carolina	1,661	1,686	1,766	1,870
					Tennessee	2,884	2,935	2,924	2,730
GREAT LAKES	39,788	38,072	37,825	43,206	SOUTHWEST	35,341	35,478	34,690	33,440
Illinois	9,087	7,700	7,983	8,692	Arkansas	2,920	2,977	2,994	2,486
Indiana	3,797	4,207	3,074	4,285	Louisiana	4,627	3,972	3,742	3,908
Michigan	7,066	7,079	7,065	7,430	New Mexico	2,300	2,387	2,323	2,247
Minnesota	5,139	4,733	4,493	5,417	Oklahoma	5,345	5,634	5,440	5,185
North Dakota	1,572	1,734	1,705	1,709	Texas	19,941	20,414	20,000	19,481
Ohio	7,553	7,478	8,162	8,406					
South Dakota	1,393	1,360	1,360	1,125	WESTERN-PACIFIC	38,414	36,820	35,146	37,992
Wisconsin	4,180	3,782	3,983	4,432	Arizona	5,177	4,737	4,679	4,976
NEW ENGLAND	8,393	8,025	7,861	7,224	California	30,494	29,236	27,848	30,873
Connecticut	1,863	1,426	1,798	1,686	Hawaii	463	381	426	623
Maine	1,055	1,263	1,109	1,156	Nevada	1,823	2,288	2,018	1,520
Massachusetts	3,316	2,737	2,959	2,409					
New Hampshire	1,298	1,430	1,197	1,202	Other U.S. Territories	76	188	72	54
Rhode Island	396	510	266	320	Foreign-Total	1,469	938	778	NA
Vermont	466	660	532	447					

Column totals may differ from printed totals due to estimation procedures.

Source: FAA



FLIGHT HOURS BY TYPE . . .

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

As of December 31	Total	Fixed Wing			Rotocraft		Balloons Dirigibles Giders
		Piston	Turboprop	Turbojet	Piston	Turbine	
1977	35,791	30,965	1,549	1,165	609	1,259	245
1978	39,409	34,043	1,606	1,194	806	1,421	338
1979	43,340	37,303	1,871	1,259	892	1,664	353
1980	41,016	34,747	2,240	1,332	736	1,603	359
1981	40,704	34,086	2,155	1,387	930	1,754	391
1982	36,457	29,950	2,168	1,611	579	1,771	379
1983	35,249	28,911	2,173	1,473	572	1,700	420
1984	36,119	29,194	2,506	1,566	592	1,903	358

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

Source: FAA

. . . AND PER AIRCRAFT



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

	Estimated Active Aircraft					Average Hours/Aircraft/Yr.				
	1984	1983	1982	1981	1980	1984	1983	1982	1981	1980
TOTAL AIRCRAFT	220,943	213,293	209,779	213,226	211,045	158	164	174	188	191
Piston Total	197,442	191,480	189,195	193,370	193,014	147	151	160	175	178
Single engine	171,922	166,427	164,173	167,898	168,435	138	139	149	166	168
1-3 seats	61,989	59,199	57,670	59,914	60,505	139	140	146	171	166
4 + seats	109,933	107,228	106,503	107,983	107,930	137	139	151	163	170
Multi-engine	25,258	24,910	24,882	25,356	24,366	218	231	231	251	255
1-6 seats	16,539	16,249	16,381	16,749	16,224	181	187	187	215	228
7 + seats	8,719	8,660	8,501	8,607	8,141	303	318	317	326	311
Other Piston	262	143	140	114	212	433	240	247	197	625
Turboprop Total	5,809	5,453	5,186	4,660	4,090	414	389	396	470	533
Twin Engine										
1-12 seats	4,992	4,733	4,427	3,968	3,339	342	301	356	398	445
13 + seats	640	578	610	557	627	1,112	1,139	853	989	1,038
Other Turboprop	176	142	149	134	123	339	579	394	499	487
Turbojet Total	4,320	3,898	3,996	3,171	2,992	354	382	404	436	444
Twin Engine	3,780	3,447	3,309	2,808	2,551	349	392	407	443	456
Other	540	451	687	362	441	393	274	385	377	350
Rotocraft Total	7,096	6,540	6,169	6,974	6,001	344	350	383	391	382
Piston	2,936	2,541	2,419	3,250	2,794	187	221	237	285	263
Turbine	4,160	3,998	3,749	3,724	3,207	469	432	474	490	498
Other	6,275	5,923	5,233	5,049	4,945	56	71	72	78	75

Source: FAA



PILOTS



PILOTS BY CERTIFICATE AND RATING . . .

**Active U.S. Pilot Certificates Held
(as of December 31, year indicated)**

Category	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Pilot—total	714,607	733,728	728,187	744,246	783,932	798,833	814,667	827,071	764,182	733,255	718,004	722,376	709,540
Student	181,905	180,795	176,978	188,801	203,510	204,874	210,180	199,833	179,912	156,361	147,197	150,081	146,652
Private	298,921	305,848	305,863	309,005	327,424	337,644	343,276	357,479	328,562	322,094	318,643	320,086	311,086
Commercial	182,444	192,425	189,342	187,801	188,763	185,833	182,097	183,442	168,580	165,093	159,495	155,929	151,632
Airline transport	38,139	41,002	42,592	45,072	50,149	55,881	63,652	69,569	70,311	73,471	75,938	79,192	82,740
Helicopter (only)	5,968	5,647	4,932	4,804	4,819	4,874	5,218	6,030	6,453	7,034	7,237	7,532	8,123
Glider (only)	4,288	4,824	5,348	5,789	6,208	6,541	6,796	7,039	7,388	7,842	8,157	8,390	8,168
Lighter-than-air ¹	2,942	3,187	3,132	2,974	3,059	3,186	3,448	3,679	2,976	1,360	1,337	1,166	1,139
Nonpilot—total	304,747	314,394	323,934	334,681	348,584	362,350	377,213	393,486	398,368	420,595	432,890	447,462	412,741
Mechanic ¹	193,337	198,863	205,436	212,303	220,768	228,743	237,611	250,157	262,705	277,436	288,355	298,028	274,100
Parachute rigger ¹	6,941	7,900	8,327	8,718	8,994	9,200	9,831	9,547	9,716	9,893	10,074	10,194	9,395
Ground instructor ¹	46,827	49,249	51,365	53,484	55,717	57,738	59,680	61,550	63,246	65,004	66,385	67,463	58,214
Dispatcher ¹	5,527	5,576	5,741	5,898	5,972	6,161	6,446	6,799	7,094	7,580	8,223	8,980	8,511
Control tower operator	23,250	23,342	23,956	24,584	25,107	25,388	25,232	25,130	15,528 ^a	20,934	19,691	20,660	17,602
Flight navigator	2,636	2,509	2,321	2,214	2,155	2,092	1,994	1,936	1,785	1,695	1,636	1,603	1,542
Flight engineer	26,229	26,955	26,788	27,560	29,871	33,028	36,869	38,367	38,294	38,053	38,546	40,534	43,377
Flight instructor certifi- cates	36,795	42,418	44,777	46,236	49,362	52,201	54,398	60,440	57,523	62,492	62,201	61,173	58,940
Instrument Ratings ²	185,969	199,323	203,954	211,364	226,334	236,312	247,096	260,461	252,535	255,073	254,271	256,584	258,559

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.

²“Flight Instructor Certificates and Ratings” totals ARE NOT included in the “Nonpilot—Total.”

³No medical examination required. Number presents all certificates on record.

⁴Special ratings shown on pilot certificates, i.e., do not indicate additional certificates.

⁵Does not include approximately 15,000 air traffic controllers. Their medical certificates are no longer processed by the Civil Aeromedical Institute (CAMI). They are being processed by a separate system, and will be included in future counts.

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25-month Criteria.

... AND BY GEOGRAPHIC AREA

Active U.S. Pilots and Flight Instructors
by FAA Region and State (as of December 31, 1985)

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Misc. ²	Flight Instructor ³
Total¹	709,540	146,652	311,086	151,632	82,740	17,430	58,940
United States—Total¹	691,891	143,885	308,012	146,452	76,536	17,006	58,168
Alaskan Region—Total	11,793	2,404	5,437	2,779	1,002	171	797
Central—Total	37,688	6,434	19,879	7,830	3,020	525	3,093
Iowa	8,445	1,435	4,920	1,595	380	115	641
Kansas	10,750	1,711	5,677	2,315	889	158	902
Missouri	12,725	2,400	6,059	2,590	1,459	217	1,147
Nebraska	5,768	888	3,223	1,330	292	35	403
Eastern—Total	91,386	21,465	38,235	18,816	9,977	2,893	8,409
Delaware	1,566	294	666	367	205	34	166
District of Columbia	680	162	285	145	49	39	60
Maryland	9,677	2,334	4,251	1,946	898	2,334	849
New Jersey	15,495	3,506	6,283	2,940	2,304	462	1,473
New York	26,093	6,671	11,095	5,154	2,113	1,060	2,318
Pennsylvania	20,522	4,956	9,011	3,722	2,243	590	2,008
Virginia	14,722	2,921	5,372	4,031	1,994	404	1,318
West Virginia	2,631	621	1,272	511	171	56	217
Great Lakes—Total	117,069	24,545	58,076	22,276	10,261	1,911	10,036
Illinois	27,921	5,989	13,093	5,271	3,094	474	2,495
Indiana	12,466	2,749	6,273	2,381	873	190	1,109
Michigan	20,182	4,407	10,365	3,529	1,452	429	1,628
Minnesota	15,641	2,879	7,620	3,000	1,973	169	1,282
North Dakota	3,491	733	1,755	889	89	25	244
Ohio	22,957	4,920	11,287	4,499	1,764	487	2,134
South Dakota	2,776	497	1,439	680	135	25	205
Wisconsin	11,635	2,371	6,244	2,027	881	112	939
New England—Total	33,210	8,069	14,120	6,043	4,083	895	2,585
Connecticut	9,272	2,136	3,528	1,669	1,694	245	753
Maine	3,764	869	1,798	792	263	42	251
Massachusetts	12,505	3,307	5,721	2,092	1,002	383	939
New Hampshire	4,297	902	1,585	870	821	119	378
Rhode Island	1,608	404	713	310	140	41	122
Vermont	1,764	451	775	310	163	65	142
N.W. Mountain—Total	67,383	13,186	30,468	14,067	7,753	1,909	5,920
Colorado	18,556	4,256	7,117	3,547	2,786	850	1,774
Idaho	4,455	782	2,267	1,032	314	80	390
Montana	4,535	824	2,372	1,025	257	57	384
Oregon	10,420	1,856	5,663	2,108	571	222	823
Utah	5,317	1,135	2,439	1,032	558	153	428
Washington	21,563	3,869	9,256	4,830	3,095	513	1,908
Wyoming	2,537	484	1,354	493	172	34	213
Southern—Total	113,720	23,731	45,238	26,376	15,382	2,993	9,470
Alabama	9,177	1,799	3,649	2,444	593	692	906
Florida	45,091	8,864	17,904	10,906	6,660	757	3,742
Georgia	17,143	3,394	6,005	3,885	3,490	369	1,357
Kentucky	5,788	1,306	2,590	1,055	581	256	506
Mississippi	4,933	1,094	1,972	1,471	308	88	373
North Carolina	13,577	3,138	5,773	2,840	1,466	360	1,046
South Carolina	6,538	1,549	2,711	1,583	574	121	515
Tennessee	11,473	2,587	4,634	2,192	1,710	350	1,025
Southwest—Total	91,452	18,170	38,979	21,206	11,140	1,957	8,004
Arkansas	6,086	1,225	2,745	1,627	423	66	507
Louisiana	10,100	2,079	4,043	2,771	849	358	850
New Mexico	5,568	1,212	2,505	1,254	408	189	441
Oklahoma	12,749	2,481	6,408	2,768	914	178	1,000
Texas	56,949	11,173	23,278	12,786	8,546	1,166	5,206
Western-Pacific—Total	128,190	25,881	57,580	27,059	13,918	3,752	9,854
Arizona	15,068	3,063	6,724	3,305	1,465	511	1,264
California	104,373	20,960	47,735	21,790	10,994	2,894	7,827
Hawaii	3,256	788	872	821	564	211	267
Nevada	5,493	1,070	2,249	1,143	895	136	496
Outside US—Total	17,649	2,767	3,074	5,180	6,204	424	772
U.S. Territories—Total⁴	2,037	646	667	365	325	34	0
American Samoa	8	0	1	5	2	0	0
Canal Zone	2	1	0	0	1	0	0
Guam	116	40	18	19	38	1	0
Puerto Rico	1,575	529	521	271	224	30	0
Virgin Islands	332	76	127	69	58	2	0
Wake Island	4	0	0	1	2	1	0

Source: FAA

¹Includes Outside U.S.
²Includes helicopter, glider, and lighter-than-air.
³Not included in total.
⁴U.S. Territories are included in Outside U.S. total.
 Estimated: Data is based on a 25-month criteria.



**U.S. Student Pilot Certificates Processed
by Month and Year**

Month	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Total	121,543	131,384	113,997	127,424	129,280	138,816	137,032	139,956	102,301	117,962	86,731	94,981	91,395	87,004
January	7,515	7,608	8,200	9,794	11,853	10,247	7,385	12,926	10,462	9,179	7,289	6,726	8,248	7,151
February	7,936	8,622	6,195	7,506	6,396	8,010	8,253	10,585	7,835	8,568	6,499	4,859	7,353	4,907
March	10,176	9,963	7,661	9,445	10,921	11,921	11,234	9,525	7,872	9,718	6,857	6,893	6,228	6,406
April	10,445	10,513	7,690	8,654	10,835	9,871	10,646	9,968	7,775	7,036	5,372	7,304	6,660	6,466
May	10,495	10,712	10,013	10,204	10,749	10,286	11,032	9,919	8,510	8,387	5,053	7,667	6,446	6,026
June	11,174	12,242	10,970	9,865	10,322	11,573	11,490	9,308	8,577	8,885	6,632	5,811	7,082	5,727
July	10,366	13,473	10,261	12,339	12,300	11,372	10,544	13,266	6,941	8,387	6,416	5,330	8,015	6,638
August	15,007	14,643	12,431	12,471	12,930	15,262	13,839	16,920	10,590	8,363	8,536	10,407	9,821	8,292
September	10,850	11,568	10,320	13,587	12,320	13,987	11,904	12,051	9,936	10,713	8,850	11,913	7,833	8,674
October	10,962	11,715	10,863	11,979	8,864	11,678	15,548	11,926	9,186	14,327	8,254	11,214	7,851	11,601
November	10,298	12,385	9,770	11,681	12,292	15,114	13,096	12,928	7,052	12,424	8,407	8,529	7,390	8,138
December	6,319	7,940	9,353	9,899	9,498	9,495	12,061	6,634	7,565	11,975	8,211	8,328	8,432	6,978

Source: FAA

INSTRUMENT-RATED PILOTS



Estimated Total and Instrument Rated Pilots: December 31, 1976-85

Calendar Year	Total Pilots ¹	Instrument Rated Pilots	
		Number	Percent of Total
1985	562,888	258,559	46
1984	572,295	256,584	45
1983	570,807	254,271	45
1982	576,894	255,073	44
1981	584,270	252,535	43
1980	627,238	260,461	42
1979	604,487	247,096	41
1978	593,959	236,312	40
1977	580,422	226,334	39
1976	555,625	211,364	38

Source: FAA

¹Excludes student pilots.

Estimated Instrument Ratings Held, By Class of Certificates: December 31, 1984 and 1985

Class of Certificates	1985	1984	Percent Change 1984-1985
Total—All Groups	258,559	256,584	1
Private Pilots—Total	43,902	43,312	1
Private Airplane (only)	40,330	39,962	1
Private Airplane, Private Glider	954	964	-1
Private Airplane, Commercial Glider	85	82	4
Private Airplane, Private Helicopter	313	295	6
Private Airplane, Private Glider, Private Helicopter	16	17	-6
Private Airplane, Commercial Helicopter	2,180	1,968	11
Private Airplane, Private Gyroplane	2	3	-33
Private Airplane, Private Glider, Commercial Helicopter	11	10	10
Private Airplane, Commercial Glider, Commercial Helicopter	10	10	0
Private Airplane, Other	1	1	0
Commercial Pilots—Total	126,352	128,978	-2
Commercial Airplane (only)	106,522	108,916	-2
Commercial Airplane, Private Glider	1,826	1,833	0
Commercial Airplane, Commercial Glider	3,318	3,355	-1
Commercial Airplane, Private Helicopter	208	203	2
Commercial Airplane, Commercial Helicopter	13,723	13,913	-1
Commercial Airplane, Private Glider, Commercial Helicopter	151	141	7
Commercial Airplane, Commercial Glider, Commercial Helicopter	549	561	-2
Commercial Airplane, Commercial Gyroplane	14	14	0
Commercial Airplane, Commercial Helicopter, Commercial Gyroplane	18	20	-10
Commercial Airplane, Commercial Gyroplane, Commercial Glider	1	2	-50
Commercial Airplane, Commercial Glider, Private Helicopter	15	13	15
Commercial Airplane, Commercial Gyroplane, Commercial Helicopter, Commercial Glider	7	7	0
Airline Transport Pilots—Total	82,740	79,192	4
Airline Transport Airplane	81,367	77,921	4
Airline Transport Airplane, Airline Transport Helicopter	1,373	1,271	8
Rotorcraft Pilots—Total	5,565	5,102	9
Commercial Helicopter	5,472	5,016	9
Airline Transport Helicopter	82	73	12
Rotorcraft Other	11	13	-15

Source: FAA



**Women Actively Engaged in U.S. Aviation
(as of December 31, year indicated)**

Category of Certificates Held	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Pilot—total	33,001	34,356	36,943	37,934	41,843	47,294	49,874	51,733	52,902	47,721	45,305	43,648	44,339	43,483
Student	17,053	18,593	19,298	19,600	22,254	25,705	26,354	26,714	26,006	22,591	19,958	18,696	19,435	19,058
Private	13,391	13,232	14,465	14,952	15,838	17,702	19,267	20,275	21,554	19,602	19,388	18,801	18,616	17,974
Commercial	2,196	2,083	2,596	2,733	2,857	3,090	3,306	3,618	3,993	4,101	4,257	4,281	4,232	4,185
Airline transport	101	95	116	137	160	193	270	361	480	584	749	884	1,032	1,184
Helicopter (only)	10	7	5	11	17	18	17	27	55	87	113	144	167	196
Glider (only) ¹	201	216	271	301	352	391	433	461	496	540	574	599	631	653
Lighter-than-air ¹	49	130	192	200	165	195	227	277	318	216	266	243	226	233
Nonpilot—total	3,594	3,074	3,471	3,809	4,252	4,716	5,135	5,600	6,111	6,348	7,115	7,670	8,315	7,595
Mechanic ¹	349	284	315	360	422	505	600	695	890	1,051	1,298	1,493	1,649	1,775
Parachute rigger ¹	483	336	495	504	516	535	544	553	562	580	593	605	614	412
Ground instructor ¹	2,166	1,960	2,139	2,249	2,369	2,525	2,682	2,852	3,015	3,213	3,391	3,554	3,680	2,980
Dispatcher ¹	40	39	42	50	55	65	76	105	141	167	199	249	310	394
Control tower operator	556	453	473	638	874	1,044	1,151	1,250	1,332	1,147	1,418	1,519	1,724	1,578
Flight engineer	0	2	7	8	16	42	82	145	171	189	215	248	336	455
Flight Navigator	0	0	0	0	0	0	0	0	0	1	1	2	2	1
Flight instructor**	664	618	834	945	1,054	1,238	1,458	1,699	2,079	2,165	2,532	2,685	2,736	2,731

Source: FAA

***Flight Instructor¹ totals ARE NOT included in "Nonpilot—Total."

¹No medical examination required. Number represents all certificates on record.

NOTE: Instrument ratings not reported.

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25-month criteria.



**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 December 31, 1985

FAA Region and State	Total Facilities	By Ownership		Paved Airports ¹		Unpaved Airports ¹	
		Public	Private	Lighted	Not Lighted	Lighted	Not Lighted
Total	16,319	4,854	11,465	3,487	423	504	1,444
United States—total*	16,253	4,809	11,444	3,467	418	504	1,431
Alaskan—total	610	407	203	38	6	60	333
Central—total	1,438	477	961	382	16	84	96
Iowa	278	123	155	94	1	39	20
Kansas	385	131	254	101	5	24	24
Missouri	438	128	310	114	7	10	29
Nebraska	337	95	242	73	3	11	23
Eastern—total	2,076	327	1,749	346	46	70	156
Delaware	36	4	32	6	0	5	1
District of Columbia	15	7	8	2	0	0	0
Maryland	151	22	129	28	4	5	10
New Jersey	295	36	259	39	5	7	15
New York	485	83	402	85	20	24	64
Pennsylvania	719	80	639	95	12	24	43
Virginia	282	67	215	64	3	3	14
West Virginia	93	28	65	27	2	2	9
Great Lakes—total	4,059	869	3,190	705	48	179	251
Illinois	888	103	785	87	4	19	17
Indiana	523	82	441	80	7	9	29
Michigan	422	131	291	115	10	37	61
Minnesota	479	148	331	95	2	34	31
North Dakota	483	93	390	63	5	15	20
Ohio	690	133	557	126	14	28	48
South Dakota	164	75	89	43	1	21	11
Wisconsin	410	104	306	96	5	16	34
New England—total	515	136	379	118	21	3	74
Connecticut	108	14	94	20	0	1	7
Maine	144	45	99	30	7	1	44
Massachusetts	131	34	97	37	5	0	9
New Hampshire	53	15	38	16	3	1	8
Rhode Island	18	8	10	6	1	0	0
Vermont	61	20	41	9	5	0	6

(Continued from page 20)

FAA Region and State	Total Facilities	By Ownership		Paved Airports ¹		Unpaved Airports ¹	
		Public	Private	Lighted	Not Lighted	Lighted	Not Lighted
Northwest Mountain—total	1,662	657	1,005	373	71	41	201
Colorado	321	90	231	59	10	7	15
Idaho	202	129	73	40	12	1	66
Montana	200	119	81	64	10	14	40
Oregon	342	95	247	56	20	6	29
Utah	101	55	46	40	3	0	7
Washington	395	122	273	81	14	12	34
Wyoming	101	47	54	33	2	1	10
Southern—total	2,002	757	1,245	620	68	42	101
Alabama	174	96	78	88	7	4	3
Florida	557	133	424	95	10	9	22
Georgia	304	123	181	100	10	4	4
Kentucky	134	68	66	51	10	1	13
Mississippi	188	84	104	69	14	3	11
North Carolina	292	91	201	82	5	8	35
Puerto Rico	31	14	17	9	2	0	0
South Carolina	139	63	76	52	3	9	9
Tennessee	176	79	97	72	7	4	4
Virgin Islands	7	6	1	2	0	0	0
Southwest—total	2,625	719	1,906	609	72	18	148
Arkansas	163	85	78	74	13	0	10
Louisiana	353	90	263	65	7	1	24
New Mexico	169	73	96	44	9	0	20
Oklahoma	336	137	199	114	11	10	37
Texas	1,604	334	1,270	312	32	7	57
Western—total	1,332	505	827	296	75	7	84
Arizona	246	91	155	43	7	2	21
California	887	307	580	206	53	2	21
Hawaii	50	16	34	10	4	0	0
Nevada	121	66	55	23	8	3	29
South Pacific**	28	25	3	9	3	0	13

Source: FAA

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

**American Samoa, Guam, and Trust Territories.

¹Among all airports open to the public, either publicly or privately owned.



AERONAUTICAL FACILITIES—

FAA Air Route Facilities and Services: 1972 through 1984

December 31,	VOR VORTAC	Nondirectional Beacons	Air Route Traffic Control Centers	Airport Traffic Control Towers	Combined Station/Towers	Flight Service Stations	Inter-National Flight Service Stations	Instrument Landing Systems	Airport Surveillance Radar
1972	991	706	27	355	42	324	7	403	125
1973	995	739	27	403	29	315	7	467	142
1974	1,000	793	27	417	21	320	7	490	156
1975	1,011	848	26	487	21	321	7	580	177
1976	1,020	920	25	488	16	321	7	640	175
1977	1,021	959	25	495	7	319	7	678	182
1978	1,020	988	25	494	7	319	6	698	185
1979	1,028	1,015	25	499	5	318	6	753	192
1980 ^R	1,037	1,055	25	502	4	317	6	796	192
1981	1,033	1,123	25	501	1	316	6	840	199
1982	1,029	1,143	25	492	0	316	6	884	197
1983	1,032	1,183	25	494	0	316	5	934	197
1984	1,035 ^A	1,211 ^B	25 ^C	497 ^D	0	310	5	955 ^E	197 ^F

^AIncludes 70 nonfederal and 38 military.

^BIncludes 835 nonfederal and 63 military.

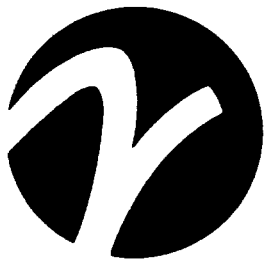
^CIncludes 3 military combined center/radar approach control facilities (CERAP).

^DIncludes 37 nonfederal and 10 military.

^EIncludes 17 Landing Directional Aid (LDA), 102 nonfederal, and 5 military.

^FIncludes 15 military.

Source: FAA



**FORECASTS AND
OTHER INFORMATION**



Estimated Active General Aviation Aircraft by Type of Aircraft
(in Thousands)

As of December 31	Fixed Wing				Rotorcraft			Total
	Piston		Turboprop	Turbojet	Piston	Turbine	Other	
	Single Engine	Multi- Engine						
Historical								
1979	168.4	25.1	3.5	2.7	3.1	2.7	4.8	210.3
1980	168.4	24.6	4.1	3.0	2.8	3.2	4.9	211.0
1981	167.9	25.5	4.7	3.2	3.3	3.7	5.0	213.3
1982	164.2	25.0	5.2	4.0	2.4	3.7	5.2	209.7
1983	166.4	25.1	5.5	3.9	2.5	4.0	5.9	213.3
1984	171.9	25.5	5.8	4.3	2.9	4.2	6.3	220.9
Forecast								
1985	166.4	25.6	6.1	4.6	2.8	4.6	6.4	216.5
1986	166.9	26.0	6.4	4.9	2.8	5.0	6.7	218.7
1987	167.9	26.4	6.6	5.2	2.7	5.3	7.0	221.1
1988	169.6	26.9	6.9	5.5	2.6	5.6	7.3	224.4
1989	172.4	27.3	7.2	5.7	2.6	6.0	7.6	228.8
1990	175.8	27.7	7.5	5.9	2.5	6.3	7.9	233.6
1991	178.7	28.0	7.8	6.2	2.5	6.8	8.3	238.3
1992	182.0	28.3	8.1	6.5	2.5	7.1	8.6	243.1
1993	185.3	28.6	8.4	6.7	2.4	7.7	8.9	248.0
1994	188.9	28.9	8.7	6.9	2.4	8.0	9.2	253.0
1995	191.0	29.2	9.0	7.1	2.3	8.3	9.5	256.4
1996	193.2	29.5	9.3	7.3	2.2	8.6	9.7	259.8

Source: FAA

Notes: Detail may not add to total because of independent rounding.
An active aircraft must have a current registration and it must have been flown at least 1 hour during the previous calendar year.



Forecast Active Pilots by Type of Certificate
(thousands)

As of December 31	Student	Private	Commercial	Airline Transport	Helicopter	Glider	Lighter-Than-Air	Total	Instrument Rated ¹
1985	153.0	321.6	157.1	82.2	7.9	8.8	1.3	731.9	259.3
1986	155.9	323.1	158.4	85.2	8.2	9.1	1.3	741.2	260.8
1987	158.8	324.6	159.7	88.1	8.5	9.5	1.4	750.6	262.3
1988	161.7	326.1	161.3	91.0	8.8	9.8	1.5	760.2	263.8
1989	164.6	327.6	162.9	93.9	9.1	10.2	1.7	770.0	265.2
1990	167.5	329.1	164.5	96.9	9.4	10.5	1.8	779.7	266.7
1991	170.4	330.6	166.2	99.8	9.7	10.8	1.9	789.4	268.2
1992	173.3	332.1	167.8	102.7	10.0	11.2	2.0	799.1	269.7
1993	176.2	333.6	169.5	105.6	10.3	11.5	2.1	808.8	271.1
1994	179.1	335.1	171.2	108.6	10.6	11.9	2.2	818.7	272.6
1995	182.0	336.6	172.9	111.5	10.9	12.2	2.3	828.4	274.1
1996	184.9	338.1	174.7	114.4	11.2	12.6	2.3	838.2	275.6

(1) Instrument rated pilots should not be added to other categories in deriving total.

Note: Detail may not add to total because of rounding.

Source: FAA



FLIGHT HOURS FORECAST—

Forecast Hours Flown In General Aviation by Type of Aircraft
(millions)

Fiscal Year	Total	Fixed Wing				Rotocraft		Other
		Piston		Turboprop	Turbojet	Piston	Turbine	
		Single Engine	Multi-Engine					
Historical								
1980	41.6	28.8	6.6	2.1	1.3	.8	1.6	.4
1981	41.1	27.9	6.4	2.2	1.5	.9	1.8	.4
1982	37.8	25.2	6.0	2.1	1.6	.7	1.8	.4
1983	36.4	23.8	5.8	2.2	1.5	.6	2.1	.4
1984	35.9	23.4	5.7	2.4	1.6	.6	1.9	.4
1985E	36.6	23.4	5.7	2.6	1.8	.6	2.1	.4
Forecast								
1986	37.3	23.6	5.8	2.7	1.8	.6	2.3	.4
1987	38.1	24.1	5.9	2.8	1.9	.5	2.4	.5
1988	39.1	24.6	6.0	2.9	2.0	.5	2.6	.5
1989	40.6	25.5	6.1	3.1	2.1	.5	2.8	.5
1990	42.0	26.5	6.2	3.2	2.1	.5	2.9	.6
1991	43.3	27.3	6.2	3.4	2.2	.5	3.1	.6
1992	44.7	28.2	6.3	3.5	2.3	.5	3.3	.6
1993	45.9	29.1	6.4	3.6	2.3	.4	3.5	.6
1994	47.1	29.9	6.4	3.7	2.4	.4	3.7	.6
1995	48.2	30.5	6.5	3.9	2.5	.4	3.8	.6
1996	49.0	30.9	6.6	4.0	2.5	.4	4.0	.7
1997	49.6	31.1	6.6	4.1	2.6	.4	4.1	.7

E—Estimate

Source: FAA

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



FUEL USE FORECAST—

Estimated Fuel Consumed by General Aviation, by Type of Aircraft
(millions of gallons)

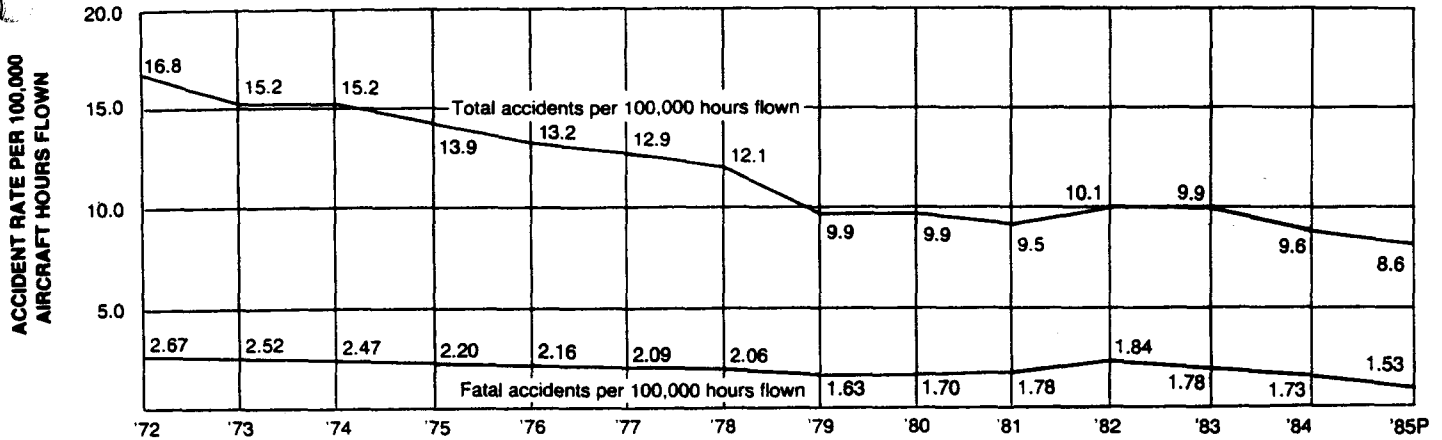
Fiscal Year	Total	Fixed Wing				Rotocraft		Other
		Piston		Turboprop	Turbojet	Piston	Turbine	
		Single Engine	Multi-Engine					
Historical								
1980	1,291.0	287.6	231.1	223.9	474.6	13.3	59.7	.8
1981	1,257.3	276.5	206.1	219.6	483.2	13.3	57.8	.8
1982	1,314.2	251.2	197.4	230.8	562.1	9.7	62.5	.5
1983	1,113.9	235.1	189.3	230.9	396.2	7.8	54.2	.4
1984	1,161.1	248.8	196.3	236.4	408.0	8.5	62.9	.2
1985E	1,302.7	233.1	187.5	247.8	552.6	8.3	72.9	.5
Forecast								
1986	1,324.6	235.1	190.8	257.1	553.0	8.3	79.8	.5
1987	1,374.7	240.0	194.1	266.6	583.3	6.9	83.3	.5
1988	1,430.2	245.1	197.4	276.1	614.0	6.9	90.2	.5
1989	1,499.0	253.9	200.7	295.1	644.7	6.9	97.2	.5
1990	1,525.5	263.9	203.9	304.6	645.0	6.9	100.6	.6
1991	1,590.1	271.9	204.0	323.7	675.4	6.9	107.6	.6
1992	1,649.5	280.9	207.3	333.2	706.1	6.9	114.5	.6
1993	1,677.7	289.8	210.6	342.7	707.0	5.5	121.5	.6
1994	1,732.3	297.8	211.0	352.2	736.8	5.5	128.4	.6
1995	1,792.4	303.8	213.9	371.3	765.5	5.4	131.9	.6
1996	1,818.6	306.8	217.1	380.8	769.0	5.4	138.8	.7
1997	1,863.8	309.8	217.2	390.3	798.2	5.3	142.3	.7

E—Estimate

Source: FAA



Accident Rates in U.S. General Aviation (1972-1985)



1985—Preliminary

Source—NTSB

AIRCRAFT FUEL CONSUMPTION



General Aviation Fuel Consumption By Aircraft Type 1984

Aircraft Type	Mean Rate GPH	Estimated Fuel Use (mil gal)	Standard Error (mil gal)
Fixed Wing			
Piston			
1 Eng 1-3 Seats	10.05	86.28	3.6
1 Eng 4+ Seats	11.26	167.97	4.1
Total 1 Eng	10.82	254.25	5.5
2 Eng 1-6 Seats	27.94	83.39	3.3
2 Eng 7+ Seats	38.44	94.76	6.1
Total 2 Eng	31.90	178.15	6.6
Other Piston	207.74	21.25	6.4
Total Piston	15.54	453.65	8.5
Turboprop			
2 Eng 1-12 Seats	79.40	136.19	7.2
2 Eng 13+ Seats	130.35	96.05	10.4
Total 2 Eng	94.71	232.24	11.5
Other Turboprop	120.69	6.57	2.0
Total Turboprop	95.28	238.81	11.7
Turbojet			
2 Eng	269.26	340.18	14.9
Other	646.26	92.97	21.6
Total Turbojet	307.80	433.15	19.9
Total Fixed Wing	34.00	1125.61	19.9
Rotocraft			
Piston	14.64	8.66	1.0
Turbine	35.16	66.93	4.5
Total Rotocraft	30.29	75.59	4.5
Other	3.17	0.02	0.1
Total Aircraft	33.44	1201.22	20.3
Total Jet Fuel	127.02	738.89	23.5
Total Aviation Gasoline	15.37	462.33	8.6

Source: FAA



General Aviation Manufacturers Association

The General Aviation Manufacturers Association (GAMA)—a national trade association headquartered in Washington, D.C. represents 36 U.S. manufacturers of general aviation aircraft, engines, avionics, and related items.

Aeroquip Corporation
Aerospace Division
300 South East Avenue
Jackson, MI 49203
(517) 787-8121

Aire-Sciences, Inc.
216 Passaic Avenue
Fairfield, NJ 07006
(201) 228-1880

Allied-Signal, Inc.
Bendix Aerospace Sector
Aircraft Systems Company
1000 Wilson Blvd.
30th Floor
Arlington, VA 22209
(703) 276-2000

AVCO Lycoming Textron
Stratford Division
550 South Main Street
Stratford, CT 06497
(203) 385-2000

AVCO Lycoming Textron
Williamsport Division
652 Oliver Street
Williamsport, PA 17701
(717) 323-6181

Aviation Simulation Technology, Inc.

Hanscom Field-East
Bedford, MA 01730
(617) 274-6600

Beech Aircraft Corporation
9709 East Central
Wichita, KS 67201
(316) 681-7111

Century Flight Systems, Inc.
P.O. Box 610
Mineral Wells, TX 76067
(817) 325-2517

Cessna Aircraft Company
P.O. Box 1521
Wichita, KS 67201
(316) 685-9111

Champion Spark Plug Company
P.O. Box 910
Toledo, OH 43661
(419) 535-2461

Collins Avionics Group
Rockwell International
400 Collins Road NE
Cedar Rapids, IA 52498
(319) 395-1000

Elano Corporation
2455 Dayton-Xenia Road
Xenia, OH 45385
(513) 426-0621

Fairchild Aircraft Corporation
P.O. Box 32486
San Antonio, TX 78284
(512) 824-9421

FlightSafety International, Inc.
Marine Air Terminal
LaGuardia Airport
New York, NY 11371
(718) 565-4100

Garrett Corporation
9851 Sepulveda Blvd.
P.O. Box 92248
Los Angeles, CA 90009
(213) 417-6522

BFGoodrich Company
Aerospace and Defense Division
500 South Main Street
Akron, OH 44318
(216) 374-4511

Goodyear Aerospace Corporation
1210 Massillon Road
Akron, OH 44315
(216) 796-2121

Gulfstream Aerospace Corporation
P.O. Box 2206
Savannah, GA 31402
(912) 964-3000

Honeywell, Inc.
Commercial Aviation Division
P.O. Box 889
Minneapolis, MN 55440
(612) 542-5775

HTL Industries, Inc.
101 East Wheeler Avenue
Arcadia, CA 91006
(818) 574-7880

Jeppesen Sanderson, Inc.
55 Inverness Drive East
Englewood, CO 80112
(303) 799-9090

Marathon Power Technologies
P.O. Box 8233
Waco, TX 76714
(817) 776-0650

McCreary Tire & Rubber Company
1600 Washington Street
Indiana, PA 15701
(412) 349-9010

Midland Ross Corporation
Aerospace Group
4200 Surface Road
Columbus, OH 43228
(614) 276-3561

Pacific Scientific Corporation
Aircraft Products Division
1346 S. State College Blvd.
Anaheim, CA 92803
(714) 774-5217

Parker Hannifin Corporation
Parker Berteau Aerospace Group
18321 Jamboree Blvd.
Irvine, CA 92715
(714) 833-3000

Piper Aircraft Corporation
P.O. Box 1328
Vero Beach, FL 32961-1328
(305) 567-4361

Rohr Industries
P.O. Box 878
Chula Vista, CA 92012-0878
(619) 691-4111

Sabreliner Corporation
6161 Aviation Drive
St. Louis, MO 63134
(314) 731-2260

Singer Company
8 Stamford Forum
Stamford, CT 06904
(203) 356-4200

Sperry Corporation
Aerospace & Marine Group
P.O. Box 21111
Phoenix, AZ 85036
(602) 869-2311

Sundstrand Corporation
Sundstrand Data Control, Inc.
Overlake Industrial Park
Redmond, WA 98052
(206) 885-3711

Teledyne Continental Motors
Aircraft Products Division
P.O. Box 90
Mobile, AL 36601
(205) 438-3411

TRW, Inc.
Hartzell Propeller Products
Division
1800 Covington Avenue
Piqua, OH 45356
(513) 778-4200

Unison Industries, Inc.
Slick Aircraft Products
530 Blackhawk Park Avenue
Rockford, IL 61108
(815) 965-4700

United Technologies Corporation
Pratt & Whitney Canada
1000 Marie-Victorin Blvd.
P.O. Box 10
Lonqueuil, Quebec
Canada J4K 4X9
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INDEX

- Accident rates, 27
- Aeronautical facilities, 22
- Aircraft, 10, 11, 24
- Aircraft types
 - flight hours in, 12
 - fuel consumed in, 26
 - fuel consumption of, 27
 - shipments of, 6
 - uses of, 10
- Airport Surveillance Radars (ASRs), number of, 22
- Airports, 20–21
- Air Route Traffic Control Centers (ARTCCs), 22
- Air Traffic Control facilities, 22
- Air Transport Pilot (certificates), 14, 15, 17, 18, 25
- Aviation gasoline (Avgas)
 - consumption of, 27
- Billings, 4, 5, 8
- Centers (number of), 22
- Certificated Flight Instructors, 14, 15
- Certificates (airman), 14, 15, 16, 17, 18
- Combined Station/Towers (CSTs), number of, 22
- Commercial (pilot certificates), 14, 15, 17, 18, 25
- Companies (number of), reporting aircraft shipments, 4
- Control towers, number of, 22
- Control tower operators, 14, 18
- Dispatchers, 14, 18
- Exports, aircraft, 8
- FAA Regions, statistics by
 - fleet size, 11
 - flight instructors, 15
 - pilots, 15
- Fleet size, 10, 11, 12
 - historical, 24
- Flight Engineers, 14, 18
- Flight hours, 12, 26
- Flight Service Stations, number of, 22
- Forecasts, 24, 25, 26
- Fuel consumed, 26, 27
- Fuel consumption, 26, 27
- GAMA member companies, 28
- Glider pilots, 14, 18, 25
- Ground Instructors, 14, 18
- Helicopters, 9, 12, 24, 26, 27
- Helicopter pilots, 14, 18, 25
- Instrument Landing Systems (ILSs), number of, 22
- Instrument ratings, 14, 17, 25
- International Flight Service Stations (FSSs), number of, 22
- Jet (aircraft), 6, 10, 11, 24, 26, 27
- Jet fuel, consumption of, 27
- Landing facilities, 20, 21
- Lighted Airports, 20, 21
- Lighter-than-air (pilots), 14, 18
- Mechanics, 14, 18
- Multi-engine (aircraft), 6, 10, 11, 24, 26, 27
- Navigators, 14, 18
- Non-Directional Beacons (NDBs), number of, 22
- Parachute rigger, 14, 18
- Paved airports, 20, 21
- Pilots, 14, 15, 16, 25
- Piston (powered) aircraft, 6, 10, 11, 24, 26, 27
- Private airports, 20, 21
- Private (pilot) certificates, 14, 15, 17, 18, 25
- Public airports, 20, 21
- Rotorcraft, 9, 12, 24, 26, 27
- Safety record, 27
- Shipments, 4, 5, 6, 7, 8
- Single-engine (aircraft), 6, 10, 11, 24, 26, 27
- State, statistics by
 - aircraft fleet, 11
 - airports, 20, 21
 - pilots, 15
- Student pilots, 14, 15, 16, 17, 18, 25
- Student starts, 16
- Towers (number of), 22
- Turboprop (aircrafts), 6, 10, 11, 24, 26, 27
- Unlighted airports, 20, 21
- Unpaved airports, 20, 21
- Uses of Aircraft, 10
- VORs, VORTACS, number of, 22
- Women pilots, 18
- Year (and/or month) statistics
 - accident rates, 27
 - aeronautical facilities, 22
 - billings, 4, 5
 - exports, 8
 - fleet size, 24
 - flight hours, 12, 26
 - fuel usage, 26
 - pilot population, 14, 25
 - shipments, 4, 5, 7
 - student starts, 16



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