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MANAGEMENT SYSTEMS P W CARTER 31 MAY 83

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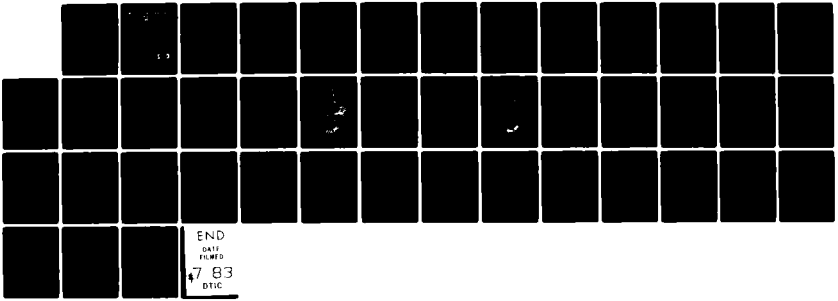

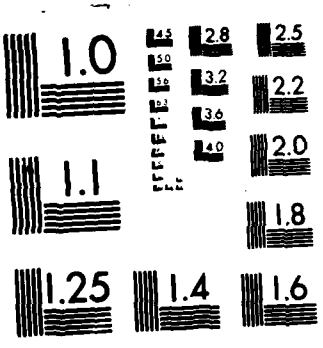

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U.S. Civil Airmen Statistics 1982

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16. Abstract

This report furnishes detailed airmen statistics. It contains calendar year statistics on pilots and nonpilots and the number of certificates issued.

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Below is a list of the publications compiled by the Information and Statistics Division. Questions may be directed to us by telephoning (202) 426-3791 or writing Information and Statistics Division, AMS-200, Federal Aviation Administration, Washington, DC 20591.

FAA Statistical Handbook of Aviation is a convenient source for historical data. It presents statistical information pertaining to the Federal Aviation Administration, the National Airspace System, Airports, Airport Activity, U.S. Civil Air Carrier Fleet, U.S. Civil Air Carrier Operating Data, Airmen, General Aviation Aircraft Accidents.

Reporting period:	Calendar Year
Latest edition:	1981 data
Order from:	U.S. Government Printing Office or National Technical Information Service
Date 1981 information will be available:	Various
Date next publication is scheduled:	December 1983 (1982 data)

U.S. Civil Airmen Statistics is an annual study of detailed airmen statistics. It contains calendar year statistics on pilot and nonpilots and the number of certificates issued.

Reporting period:	Calendar Year
Latest edition:	1982 data
Order from:	Information & Statistics Division (FAA)
Date 1983 information is available:	March 1984
Date next publiction is scheduled:	June 1984 (1983 data)

Census of U.S. Civil Aircraft is an annual publication that includes statistical data on the registered civil fleet, air carrier aircraft, and general aviation aircraft--both registered and active, detailed reports for general aviation aircraft by owner's state and county, and registered aircraft by make and model.

Reporting period:	Calendar Year
Latest edition:	1981 data
Order from:	National Technical Information Service
Date 1981 Information will be available:	May 1983
Date next publication is scheduled:	September 1983 (1982 data)

FAA Air Traffic Activity furnishes terminal and en route air traffic activity. information (i.e., operations, flight plans filed) of the National Airspace System. The data is from the FAA-operated Airport Traffic Control Towers, Air Route Traffic Control Centers, Flight Service Stations, and Approach Control Facilities.

Reporting period:	Calendar Year
Latest edition:	1982 data
Order from:	U.S. Government Printing Office or National Technical Information Service
Date 1983 information will be available:	January 1984
Date next publication is scheduled:	April 1984 (1983 data)

General Aviation Pilot and Aircraft Activity Survey includes data on the type and source of aircraft flight plan and weather information services, trip length in time and distance, pilot age and certification, estimates of total 1987 general aviation operations, fuel consumption and aircraft miles flown. The survey was made by the Federal Aviation Administration with the assistance of the Civil Air Patrol.

Reporting period:	Survey conducted in 3-year intervals
Latest edition:	1978 data
Order from:	National Technical Information Service (Refer to: FAA-MS-79-7)
Date 1981 information is available:	January 1983
Date next publiction is scheduled:	April 1983 (1981 data)

General Aviation Activity an Avionics Survey presents the results of the General Aviation Activity and Avionics Survey conducted to obtain information on the activity and avionics of the U.S. registered general aviation aircraft fleet. The survey reveals estimated flying time of the active general aviation aircraft, and other statistics by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use. Estimates are included on fuel consumption, lifetime airframe hours, avionics, and engine hours.

Reporting period:	Calendar Year
Latest edition:	1981 data
Order from:	National Technical Information Service or Government Printing Office (Refer to: FAA-MS-80-5)
Date 1982 Information will be available:	October 1983
Date next publication is available:	February 1983 (1982 data)

General Aviation Avionics Statistics report presents avionics statistics for the 1977 general aviation aircraft fleet. The statistics are presented in a capability group framework which enables one to relate airborne avionics equipment to the capability for a general aviation aircraft to function in the National Airspace System. This publication has been combined with the General Aviation Activity and Avionics Survey. The last edition was April 1981 with 1979 data.

Reporting period:	Calendar Year
Latest edition:	1979 data
Order from:	
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FAA Directory published twice a year, it contains six section of data: Washington/Region/Center headquarters; field facilities; regional area maps and organizational charts; alphabetical listing; special interest groups; and, a glossary.

Latest edition:	November 1982
Order from:	Government Printing Office
Date next publication is scheduled:	May 1983

Airport Activity Statistics of Certificated Route Air Carriers joint publication of the Federal Aviation Administration and the Civil Aeronautics Board furnishes airport activity of the certificated route air carriers. Included in the data are passenger enplanements, tons of enplaned freight, express and mail. Both scheduled/nonscheduled service and domestic/international operations shown by airport and carrier are included. This report includes departures by airport, carrier and type of operation, and type of aircraft.

Reporting period:	Calendar Year
Latest edition:	1981 data
Order from:	Government Printing Office
Date 1982 Information will be available:	June 1983
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PREFACE

THE U.S. CIVIL AIRMEN STATISTICS IS AN ANNUAL STUDY PUBLISHED TO MEET THE DEMANDS OF FAA, OTHER GOVERNMENT AGENCIES, AND INDUSTRY FOR MORE DETAILED AIRMEN STATISTICS THAN THOSE PUBLISHED IN OTHER FAA REPORTS.

STATISTICS PERTAINING TO AIRMEN, BOTH PILOT AND NONPILOT, WERE OBTAINED FROM THE OFFICIAL AIRMAN CERTIFICATION RECORDS MAINTAINED AT THE FAA AERONAUTICAL CENTER, OKLAHOMA CITY, OKLAHOMA.

AN ACTIVE AIRMEN IS ONE WHO HOLD BOTH AN AIRMEN CERTIFICATE AND A VALID MEDICAL CERTIFICATE. AIRMEN WHO MUST HAVE A VALID MEDICAL TO EXERCISE THE PRIVILEGES OF THEIR CERTIFICATE ARE ALL AIRPLANE PILOTS, CONTROL TOWER OPERATORS, FLIGHT NAVIGATORS, FLIGHT ENGINEERS, AND FLIGHT INSTRUCTORS. THE GLIDER AND LIGHTER-THAN-AIR PILOTS ARE NOT REQUIRED TO HAVE A MEDICAL EXAMINATION BUT THE NUMBERS REPRESENT ONLY THOSE WHO HAD A VALID MEDICAL CERTIFICATE. MECHANICS, PARACHUTE RIGGERS, GROUND INSTRUCTORS, AND DISPATCHERS CERTIFICATES REPRESENT ALL CERTIFICATES ON RECORD AT THE AERONAUTICAL CENTER.

THIS STUDY WAS PREPARED IN THE OFFICE OF MANAGEMENT SYSTEMS, INFORMATION AND STATISTICS DIVISION, INFORMATION ANALYSIS BRANCH (AMS-220), BY PATRICIA W. CARTER.

DISTRIBUTION: ZMS-348E

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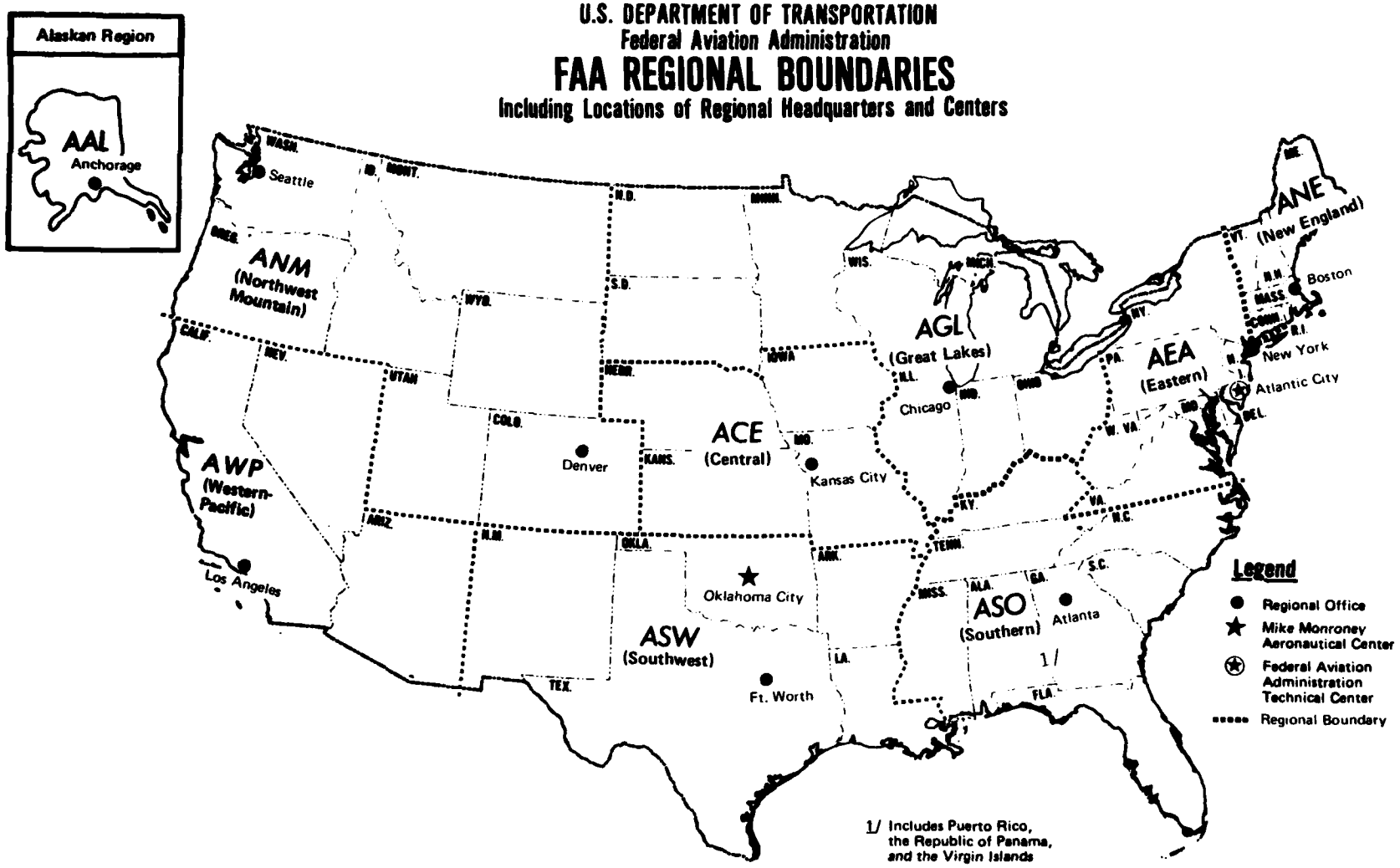
U.S. DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration

FAA REGIONAL BOUNDARIES

Including Locations of Regional Headquarters and Centers



1/ Includes Puerto Rico, the Republic of Panama, and the Virgin Islands

I. ACTIVE PILOT CERTIFICATES HELD

TABLE 1

ESTIMATED ACTIVE PILOT CERTIFICATES HELD: DECEMBER 31, 1973-1982

CATEGORY	1973 3/	1974	1975	1976	1977	1978	1979	1980	1981	1982
PILOT--TOTAL	714,607	733,728	728,187	744,246	R/783,932	798,833	814,667	827,071	764,182	733,255
STUDENT	181,905	180,795	176,978	188,801	R/203,510	204,874	210,180	199,833	179,912	156,561
PRIVATE	298,921	305,848	305,863	309,005	327,424	337,644	343,276	357,479	328,562	322,094
COMMERCIAL	182,444	192,425	189,342	187,801	188,763	185,833	182,097	183,442	168,580	165,093
AIRLINE TRANSPORT . .	38,139	41,002	42,592	45,072	50,149	55,881	63,652	69,569	70,311	73,471
HELICOPTER (ONLY) . .	5,968	5,647	4,932	4,804	4,819	4,874	5,218	6,030	6,453	7,034
GLIDER (ONLY) 1/* . .	4,288	4,824	5,348	5,789	6,208	6,541	6,796	7,039	7,388	7,842
LIGHTER-THAN-AIR 1/* .	2,942	3,187	3,132	2,974	3,059	3,186	3,448	3,679	2,976	1,360
NONPILOT--TOTAL . . .	304,747	314,394	323,934	334,681	348,584	362,350	377,213	393,486	398,368	420,595
MECHANIC 1/	193,337	198,863	205,456	212,303	220,768	228,743	237,611	250,157	262,705	277,436
PARACHUTE RIGGER 1/ .	6,941	7,900	8,327	8,718	8,994	9,200	9,381	9,547	9,716	9,893
GROUND INSTRUCTOR 1/ .	46,827	49,249	51,365	53,464	55,717	57,738	59,680	61,550	63,246	65,004
DISPATCHER 1/	5,527	5,576	5,741	5,838	5,972	6,161	6,446	6,799	7,094	7,580
CONTROL TOWER OPERATOR	23,250	23,342	23,956	24,584	25,107	25,388	25,232	25,130	15,528 4/	20,934
FLIGHT NAVIGATOR . . .	2,636	2,509	2,321	2,214	2,155	2,092	1,994	1,936	1,785	1,695
FLIGHT ENGINEER . . .	26,229	26,955	26,788	27,560	29,871	33,028	36,869	38,367	38,294	38,053
FLIGHT INSTRUCTOR CERTIFICATES	36,795	42,418	44,777	46,236	49,362	52,201	54,398	60,440	57,523	62,492
INSTRUMENT RATINGS 2/	185,969	199,323	203,954	211,364	226,334	236,312	247,096	260,461	252,535	255,073

ESTIMATED: 1980 IS BASED ON A 27-MONTH CRITERIA ONLY. OTHER YEARS ARE BASED ON A 25-MONTH CRITERIA.

* GLIDER AND LIGHTER-THAN-AIR PILOTS ARE NOT REQUIRED TO HAVE A MEDICAL EXAMINATION; HOWEVER, THE TOTALS ABOVE REPRESENT PILOTS WHO RECEIVED A MEDICAL EXAMINATION.

1/ NUMBERS REPRESENT ALL CERTIFICATES ON RECORD. NO MEDICAL EXAMINATION REQUIRED.

2/ SPECIAL RATINGS SHOWN ON PILOT CERTIFICATES, I.E., DO NOT INDICATE ADDITIONAL CERTIFICATES.

3/ THE DECREASE IN THE NUMBER OF AIRMEN RESULTED FROM A PURGING OF THE AIRMEN CERTIFICATION FILES. DURING THIS PROCESS, APPROXIMATELY 26,000 DUPLICATES OR FAULTY RECORDS WERE ELIMINATED.

4/ DOES 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.

R/ REVISED

TABLE 2

ESTIMATED ACTIVE WOMEN PILOT CERTIFICATES HELD: DECEMBER 1973-1982

CATEGORY OF CERTIFICATES HELD	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
PILOT--TOTAL	34,356	36,943	37,934	41,643	47,294	49,874	51,733	52,902	47,721	45,305
STUDENT	18,593	19,298	19,600	22,254	25,705	26,354	26,714	26,006	22,591	19,958
PRIVATE	13,232	14,465	14,952	15,838	17,702	19,267	20,275	21,554	19,602	19,388
COMMERCIAL	2,083	2,596	2,733	2,857	3,090	3,306	3,618	3,993	4,101	4,257
AIRLINE TRANSPORT	95	116	137	160	193	270	361	480	584	749
HELICOPTER (ONLY)	7	5	11	17	18	17	27	55	87	115
GLIDER (ONLY) 1/*	216	271	301	352	391	433	461	496	540	574
LIGHTER-THAN-AIR 1/*	130	192	200	165	195	227	277	318	216	266
NONPILOT--TOTAL	3,074	3,471	3,809	4,252	4,716	5,135	5,600	6,111	6,348	7,115
MECHANIC 1/	284	315	360	422	505	600	695	890	1,051	1,298
PARACHUTE RIGGER 1/	336	495	504	516	535	544	553	562	580	593
GROUND INSTRUCTOR 1/	1,960	2,139	2,249	2,369	2,525	2,682	2,852	3,015	3,213	3,391
DISPATCHER 1/	39	42	50	55	65	76	105	141	167	199
CONTROL TOWER OPERATOR	453	473	638	874	1,044	1,151	1,250	1,352	1,147	1,418
FLIGHT ENGINEER	2	7	8	16	42	82	145	171	189	215
FLIGHT NAVIGATOR	0	0	0	0	0	0	0	0	1	1
FLIGHT INSTRUCTOR	618	834	945	1,054	1,238	1,458	1,699	2,079	2,165	2,552

ESTIMATED: 1980 IS BASED ON A 27-MONTH CRITERIA ONLY. OTHER YEARS ARE BASED ON A 25-MONTH CRITERIA.

NOTE: INSTRUMENT RATINGS NOT REPORTED.

* GLIDER AND LIGHTER-THAN-AIR PILOTS ARE NOT REQUIRED TO HAVE A MEDICAL EXAMINATION; HOWEVER, THE TOTALS ABOVE REPRESENT PILOTS WHO RECEIVED A MEDICAL EXAMINATION.

1/ NUMBER REPRESENT ALL CERTIFICATES ON RECORD. NO MEDICAL EXAMINATION REQUIRED.

TABLE 3

ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1982

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Western Pacific	Northwest Mountain	Alaskan	Foreign
Total--all groups	733,255	31,141	91,746	124,957	42,774	112,215	98,224	130,371	73,552	10,589	17,906
Student pilots--total	156,361	7,416	21,353	26,546	8,082	24,022	21,536	26,241	15,656	2,017	5,492
Private pilots--total	322,094	12,781	38,690	62,646	22,484	44,691	40,317	58,727	33,254	4,808	5,716
Private airplane (only)	313,155	12,446	37,281	61,412	22,095	43,213	39,258	56,954	32,282	4,708	5,506
Private airplane, private glider	4,122	191	804	630	152	548	412	937	382	29	37
Private airplane, commercial glider	668	43	124	100	18	71	55	146	107	2	4
Private airplane, private gyroplane	31	2	5	8	3	1	3	7	2	0	0
Private airplane, private helicopter	1,035	39	129	158	47	178	143	171	139	10	21
Private airplane, private glider, private helicopter	38	2	7	6	0	10	2	8	3	0	0
Private airplane, commerical helicopter	3,015	58	335	326	168	663	446	499	315	58	147
Private airplane, private glider, commerical helicopter	15	0	2	1	0	4	0	3	3	1	1
Private airplane, commercial glider, commercial helicopter	14	0	3	4	1	3	0	2	1	0	0
Private airplane, commercial gyroplane, commercial helicopter	1	0	0	1	0	0	0	0	0	0	0
Commercial pilots--total	165,093	6,352	20,486	24,832	8,814	27,837	23,730	28,806	15,910	2,628	5,698
Commercial airplane (only)	141,109	5,532	17,260	22,179	7,787	22,960	20,169	24,243	13,411	2,217	5,351
Commercial airplane, private glider	2,170	88	358	298	86	333	243	490	229	24	21
Commercial airplane, commercial glider	4,149	207	667	578	147	644	504	867	459	35	41
Commercial airplane, commercial gyroplane, commercial glider	3	0	1	0	0	1	0	1	0	0	0

TABLE 3 (CONTINUED)

ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1982

CLASS OF CERTIFICATE	TOTAL	NEW ENGLAND	EASTERN	GREAT LAKES	CENTRAL	SOUTHERN	SOUTHWEST	WESTERN PACIFIC	NORTHWEST MOUNTAIN	ALASKAN	FOREIGN
COMMERCIAL AIRPLANE, PRIVATE HELICOPTER	219	7	21	38	14	37	32	39	23	3	5
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, PRIVATE HELICOPTER. . . .	16	0	1	4	1	1	3	4	2	0	0
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER	16,625	481	2,059	1,639	744	3,729	2,680	2,986	1,694	340	273
COMMERCIAL AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER . .	145	7	20	23	5	24	15	29	19	1	2
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER . .	601	29	95	62	27	102	76	154	64	7	5
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GYROPLANE.	22	0	2	4	1	2	4	6	3	0	0
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE	24	1	1	5	2	2	4	4	5	0	0
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GLIDER	10	0	1	2	0	2	0	3	1	1	0
AIRLINE TRANSPORT PILOTS--TOTAL . .	73,471	3,826	8,515	8,929	2,791	13,146	10,643	13,234	6,792	995	4,600
AIRLINE TRANSPORT AIRPLANE (ONLY).	72,393	3,752	8,338	8,833	2,772	12,976	10,439	13,052	6,692	969	4,570
AIRLINE TRANSPORT AIRPLANE, AIRLINE TRANSPORT HELICOPTER	1,078	74	177	96	19	170	204	182	100	26	30
ROTORCRAFT (ONLY) PILOTS--TOTAL . .	7,034	237	959	607	319	1,776	1,246	913	580	115	282
PRIVATE GYROPLANE	8	0	0	2	1	3	1	1	0	0	0
PRIVATE HELICOPTER	520	23	65	75	23	74	71	100	57	2	30
COMMERCIAL HELICOPTER	6,210	202	866	514	292	1,670	1,071	792	505	103	195
COMMERCIAL HELICOPTER, PRIVATE GLIDER	5	0	1	0	0	1	0	1	2	0	0
COMMERCIAL HELICOPTER, COMMERCIAL GLIDER	8	0	1	0	0	1	3	0	3	0	0

TABLE 3 (CONTINUED)

ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1982

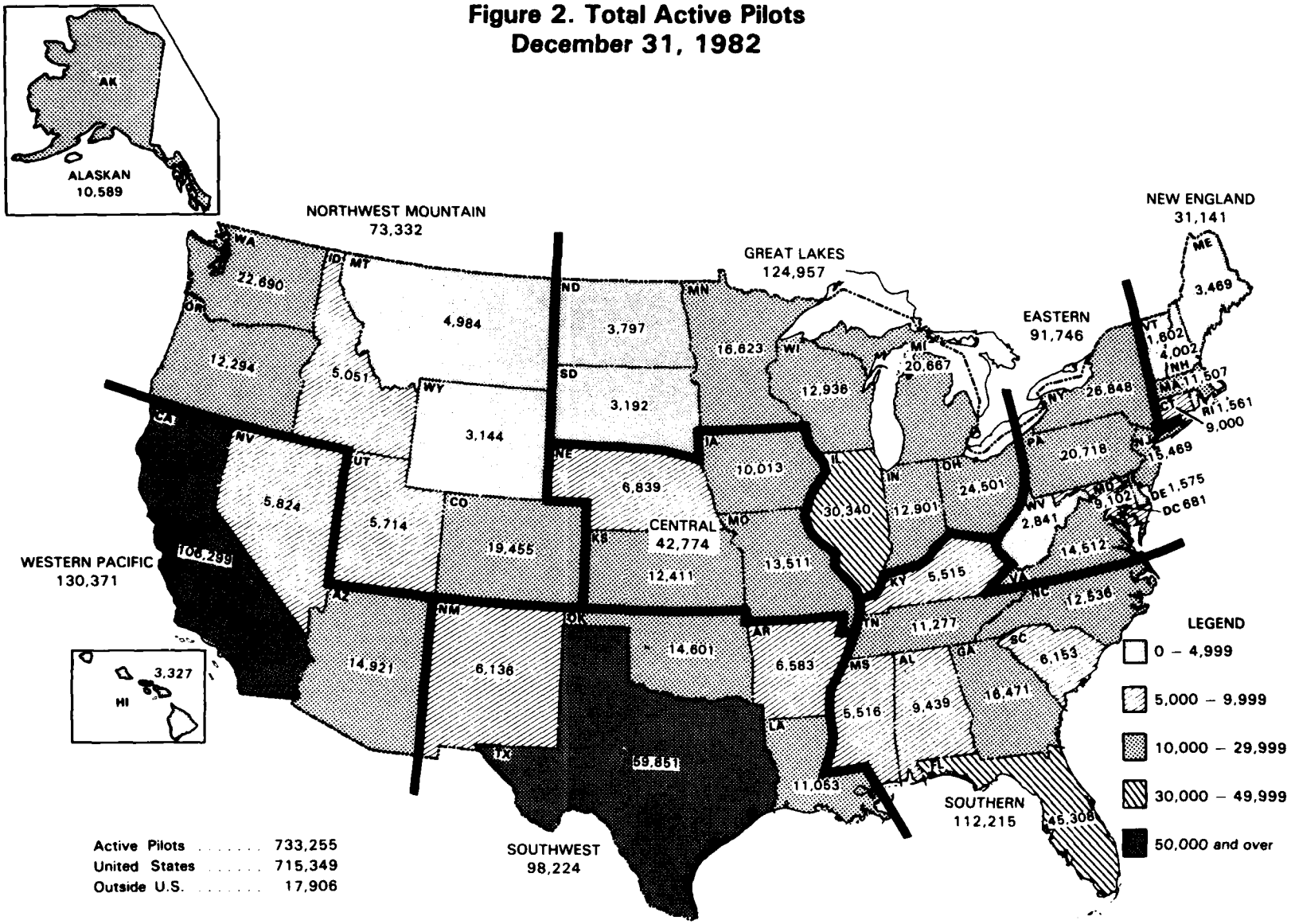
CLASS OF CERTIFICATE	TOTAL	NEW ENGLAND	EASTERN	GREAT LAKES	CENTRAL	SOUTHERN	SOUTHWEST	WESTERN PACIFIC	NORTHWEST MOUNTAIN	ALASKAN	FOREIGN
COMMERCIAL HELICOPTER, COMMERCIAL GYROPLANE	3	0	0	1	1	1	0	0	0	0	0
AIRLINE TRANSPORT HELICOPTER	279	12	26	14	2	26	100	19	13	10	57
GLIDER (ONLY)--TOTAL	7,842	485	1,610	1,055	156	634	537	2,245	1,008	13	99
PRIVATE GLIDER	6,526	387	1,347	889	113	534	420	1,964	777	10	85
COMMERCIAL GLIDER	1,316	98	263	166	43	100	117	281	231	3	14
LIGHTER-THAN-AIR	1,360	44	133	342	128	109	215	205	152	13	19
TOTAL--ALL NONPILOT	420,595	19,996	68,614	54,026	22,028	67,803	52,933	82,063	32,898	4,359	15,875
MECHANIC 1/	277,436	13,228	47,974	34,549	15,785	42,048	34,506	55,998	19,977	2,754	10,617
PARACHUTE RIGGER 1/	9,893	402	1,650	1,319	442	1,797	1,102	1,614	1,286	141	140
GROUND INSTRUCTOR 1/	65,004	3,004	9,735	10,410	3,820	10,165	8,927	11,489	5,505	731	1,218
DISPATCHER 1/	7,580	158	1,660	590	145	1,272	451	1,182	389	137	1,596
CONTROL TOWER OPERATOR	20,934	800	3,353	2,722	895	4,735	2,978	3,310	1,671	317	153
FLIGHT NAVIGATOR	1,695	189	280	46	17	289	93	527	161	4	89
FLIGHT ENGINEER	38,053	2,215	3,962	4,390	924	7,497	4,876	7,943	3,909	275	2,062
FLIGHT INSTRUCTOR CERTIFICATES--TOTAL	62,492	2,550	8,445	10,782	3,422	9,656	8,891	10,697	6,296	862	891
INSTRUMENT RATINGS 2/	255,073	10,919	32,645	38,743	12,572	44,303	35,317	44,913	23,136	3,283	9,242

ESTIMATED: DATA IS BASED ON A 25-MONTH CRITERIA.

1/ TOTAL RATINGS ISSUED TO DATE. THESE RATINGS RETAIN THEIR VALIDITY WITHOUT PERIODIC MEDICAL EXAMINATIONS.

2/ SPECIAL RATINGS SHOWN ON PILOT CERTIFICATES, I.E., DO NOT INDICATE ADDITIONAL RATINGS.

Figure 2. Total Active Pilots
December 31, 1982



Active Pilots	733,255
United States	715,349
Outside U.S.	17,906

TABLE 4

ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1982

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 2/	Flight Instructor 3/
Total	733,255 1/	156,361	322,094	165,093	73,471	16,256	62,492
United States--Total	715,349	152,869	318,378	159,395	68,871	15,856	61,601
New England--Total . .	31,141	7,416	12,781	6,352	3,826	766	2,550
Maine	3,469	812	1,577	803	230	47	249
New Hampshire	4,002	770	1,411	929	792	100	352
Rhode Island	1,561	370	703	329	124	55	122
Massachusetts.	11,507	2,970	5,165	2,140	905	527	944
Connecticut	9,000	2,090	3,219	1,834	1,653	204	741
Vermont	1,602	404	706	317	122	53	142
Eastern--Total	91,746	21,353	38,690	20,486	8,515	2,702	8,445
New York	26,848	6,737	11,467	5,652	1,988	1,024	2,402
Pennsylvania	20,718	4,887	9,269	4,104	1,898	560	2,025
Virginia	14,512	2,919	5,291	4,382	1,554	366	1,296
Maryland	9,102	2,025	4,082	2,076	702	217	798
West Virginia	2,841	685	1,310	586	208	52	251
Delaware	1,575	285	700	359	201	30	183
New Jersey	15,469	3,627	6,281	3,206	1,932	423	1,445
District of Columbia .	681	188	290	141	32	30	45
Great Lakes--Total . .	124,957	26,546	62,646	24,852	8,929	2,004	10,782
Illinois	30,340	6,722	14,355	5,957	2,840	466	2,754
Indiana	12,901	2,780	6,571	2,613	728	209	1,162
Minnesota	16,623	3,096	8,365	3,491	1,510	161	1,295
Michigan	20,667	4,290	10,824	5,839	1,239	475	1,762
North Dakota	5,797	877	1,858	945	102	55	282
Ohio	24,501	5,237	12,162	4,942	1,650	510	2,355
South Dakota	3,192	695	1,640	756	98	23	231
Wisconsin	12,936	2,849	6,891	2,309	762	125	965
Central--Total	42,774	8,082	22,484	8,814	2,791	603	5,422
Kansas	12,411	2,234	6,508	2,658	845	166	955
Iowa	10,013	1,916	5,791	1,802	363	141	757
Missouri	13,511	2,654	6,395	2,910	1,309	243	1,232
Nebraska	6,839	1,278	3,790	1,444	274	53	478

TABLE 4 (CONTINUED)

ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1982

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 1/	Flight Instructor 2/
Southern--Total	112,215	24,022	44,691	27,837	13,146	2,519	9,656
North Carolina	12,556	2,930	5,502	2,780	1,060	264	1,026
South Carolina	6,153	1,366	2,554	1,626	491	116	541
Georgia	16,471	3,388	5,807	3,979	2,959	538	1,520
Florida	45,308	9,223	17,618	11,683	6,106	678	5,895
Mississippi	5,516	1,292	2,144	1,650	529	101	410
Alabama	9,459	1,915	3,797	2,694	536	497	1,015
Tennessee	11,277	2,530	4,762	2,352	1,325	308	999
Kentucky	5,515	1,378	2,507	1,073	340	217	452
Southwest--Total	98,224	21,536	40,317	23,730	10,643	1,998	8,891
Louisinana	11,053	2,447	4,183	3,167	896	560	988
Oklahoma	14,601	3,248	7,072	3,157	956	168	1,255
Texas	59,851	12,995	23,508	14,187	7,984	1,177	5,586
New Mexico	6,136	1,363	2,694	1,449	410	220	555
Arkansas	6,583	1,483	2,860	1,770	397	73	551
Western-Pacific--Total	130,371	26,241	58,727	28,806	13,234	3,365	10,697
Hawaii	3,327	689	907	959	608	164	291
California	106,299	21,411	48,726	23,089	10,461	2,612	8,542
Arizona	14,921	3,037	6,687	3,505	1,245	449	1,533
Nevada	5,824	1,104	2,407	1,255	920	138	551
Northwest-Mountain--Total	73,332	15,656	33,234	15,910	6,792	1,740	6,298
Washington	22,690	4,392	9,804	5,451	2,619	424	1,975
Oregon	12,294	2,385	6,669	2,499	550	191	966
Idaho	5,051	937	2,587	1,169	292	66	448
Colorado	19,455	4,858	7,338	5,939	2,484	836	1,801
Wyoming	3,144	827	1,535	570	172	40	246
Utah	5,714	1,511	2,651	1,191	429	152	401
Montana	4,984	946	2,650	1,091	246	51	594
Alaskan Region--Total	10,589	2,017	4,808	2,628	995	141	862
Outside U.S.--Total	17,906	3,492	5,716	5,698	4,600	400	891

ESTIMATED: DATA IS BASED ON A 25-MONTH CRITERIA.

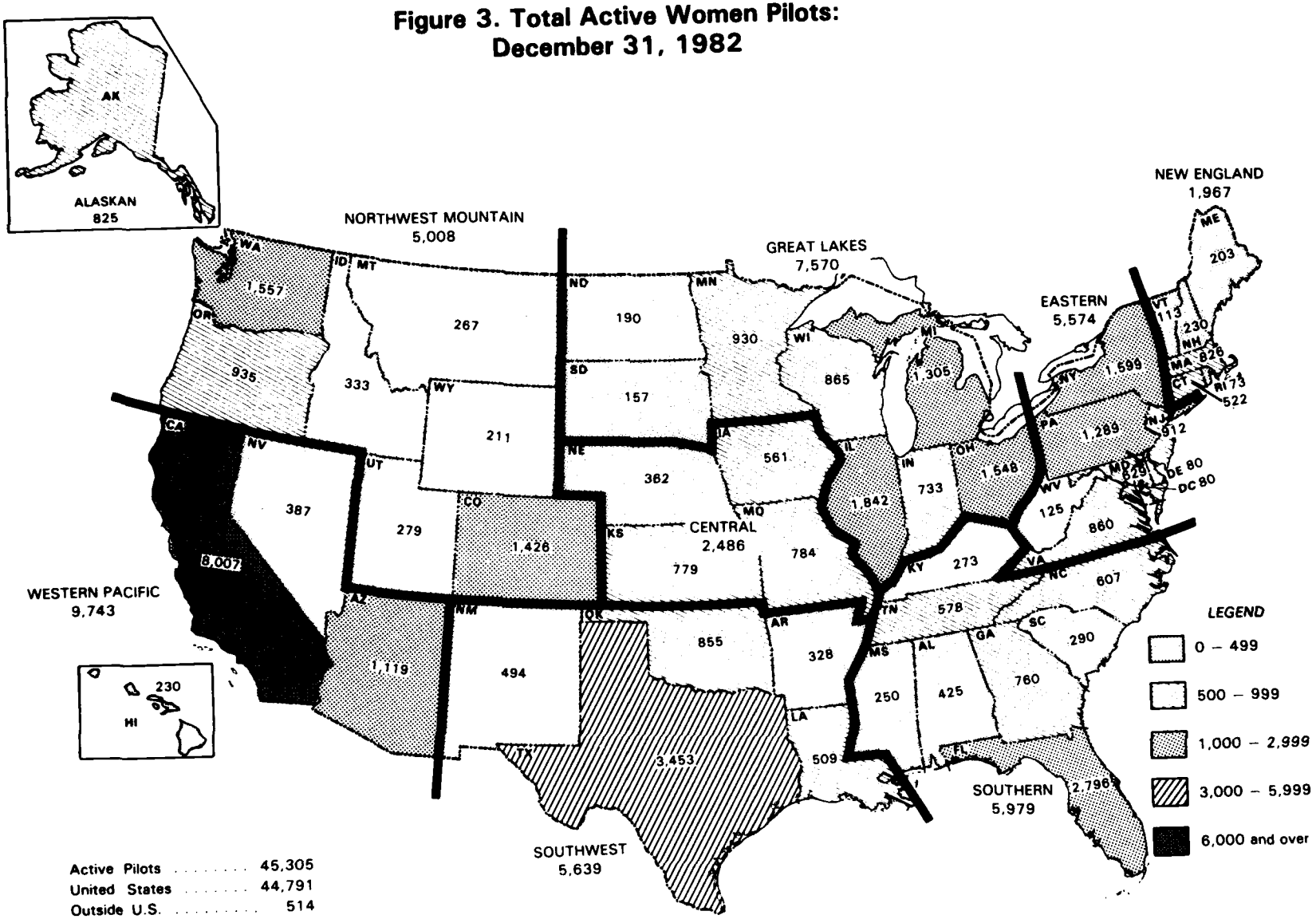
NOTE: PUERTO RICO AND VIRGIN ISLANDS ARE INCLUDED IN OUTSIDE U.S. TOTAL.

1/ INCLUDES OUTSIDE U.S.

2/ INCLUDES HELICOPTER, GLIDER, AND LIGHTER-THAN-AIR.

3/ NOT INCLUDED IN TOTAL.

Figure 3. Total Active Women Pilots: December 31, 1982



Active Pilots 45,305
United States 44,791
Outside U.S. 514

TABLE 5

ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1982

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 2/	Flight Instructor 3/
Total	45,305 1/	19,958	19,388	4,257	749	953	2,532
United States--Total	44,791	19,732	19,203	4,183	732	941	2,509
New England--Total . .	1,967	916	779	198	28	46	116
Maine	203	102	78	16	4	3	13
New Hampshire	230	108	83	33	1	5	19
Rhode Island	73	25	37	9	1	1	4
Massachusetts.	826	380	345	70	10	21	58
Connecticut	522	250	187	62	12	11	57
Vermont	113	51	49	8	0	5	5
Eastern--Total	5,574	2,519	2,276	534	77	168	329
New York	1,599	718	657	137	16	71	93
Pennsylvania	1,289	610	498	135	16	30	84
Virginia	860	388	355	89	14	14	50
Maryland	629	272	263	67	12	15	59
West Virginia	125	62	54	7	1	1	7
Delaware	80	30	44	4	0	2	4
New Jersey	912	402	370	91	15	34	48
District of Columbia .	80	37	35	4	5	1	4
Great Lakes--Total . .	7,570	3,219	3,393	726	105	129	457
Illinois	1,842	804	814	187	25	12	112
Indiana	733	311	326	78	7	11	43
Minnesota	930	353	454	93	20	10	68
Michigan	1,305	565	553	120	18	49	70
North Dakota	190	80	75	32	1	2	18
Ohio	1,548	676	669	142	25	36	105
South Dakota	157	71	74	10	1	1	6
Wisconsin	865	359	428	64	6	8	35
Central--Total	2,486	973	1,229	209	36	59	127
Kansas	779	284	414	62	11	8	33
Iowa	561	214	287	43	5	12	24
Missouri	784	334	346	75	13	16	49
Nebraska	362	141	182	29	7	3	21

TABLE 5 (CONTINUED)

ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1982

FAA REGION AND STATE	TOTAL PILOTS	STUDENT	PRIVATE	COMMERCIAL	AIRLINE TRANSPORT	MISCELLANEOUS 2/	FLIGHT INSTRUCTOR 3/
SOUTHERN--TOTAL	5,979	2,800	2,359	594	139	87	328
NORTH CAROLINA	607	271	245	71	13	7	38
SOUTH CAROLINA	290	137	116	24	7	6	15
GEORGIA	760	370	284	73	17	16	41
FLORIDA	2,796	1,284	1,114	301	67	30	160
MISSISSIPPI	250	127	98	18	5	2	13
ALABAMA	425	195	176	35	4	15	19
TENNESSEE	578	270	229	46	24	9	29
KENTUCKY	273	146	97	26	2	2	13
SOUTHWEST--TOTAL . . .	5,639	2,723	2,237	480	88	111	285
LOUISINANA	509	271	170	49	12	7	34
OKLAHOMA	855	383	389	65	11	7	38
TEXAS	3,453	1,687	1,376	280	54	56	170
NEW MEXICO	494	221	182	46	8	37	22
ARKANSAS	328	161	120	40	3	4	21
WESTERN-PACIFIC--TOTAL.	9,743	3,991	4,401	952	167	232	563
HAWAII	230	100	83	26	9	12	18
CALIFORNIA	8,007	3,244	3,676	783	132	172	458
ARIZONA	1,119	481	469	113	15	41	67
NEVADA	387	166	173	30	11	7	20
NORTHWEST-MOUNTAIN--TOTAL	5,008	2,247	2,136	424	77	124	268
WASHINGTON	1,557	619	716	172	24	26	95
OREGON	935	401	439	69	11	15	38
IDAHO	333	142	156	27	4	4	17
COLORADO	1,426	730	482	116	24	74	84
WYOMING	211	101	95	12	3	0	10
UTAH	279	143	113	11	8	4	12
MONTANA	267	111	135	17	3	1	12
ALASKAN REGION--TOTAL .	825	344	393	66	17	5	36
OUTSIDE U.S.--TOTAL . .	514	226	185	74	17	12	23

ESTIMATED: DATA IS BASED ON A 25-MONTH CRITERIA.

NOTE: PUERTO RICO AND VIRGIN ISLANDS ARE INCLUDED IN OUTSIDE U.S. TOTAL.

1/ INCLUDES OUTSIDE U.S.
2/ INCLUDES HELICOPTER, GLIDER, AND LIGHTER-THAN-AIR.
3/ NOT INCLUDED IN TOTAL.

TABLE 6

ESTIMATED ACTIVE HELICOPTER PILOTS BY CLASS OF CERTIFICATES:

DECEMBER 31, 1982

CLASS OF CERTIFICATES	NUMBER OF CERTIFICATES HELD
TOTAL	29,926
PRIVATE HELICOPTER	520
PRIVATE GYROPLANE, PRIVATE AIRPLANE	31
PRIVATE HELICOPTER, PRIVATE AIRPLANE	1,035
PRIVATE HELICOPTER, PRIVATE AIRPLANE, PRIVATE GLIDER	38
PRIVATE AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER	1
PRIVATE AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER	15
PRIVATE GYROPLANE	8
PRIVATE AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER	14
COMMERCIAL HELICOPTER	6,210
COMMERCIAL HELICOPTER, PRIVATE AIRPLANE	3,015
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER	16,625
COMMERCIAL AIRPLANE, PRIVATE HELICOPTER	219
COMMERCIAL AIRPLANE, PRIVATE GLIDER, COMMERCIAL HELICOPTER	145
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, COMMERCIAL HELICOPTER	601
COMMERCIAL HELICOPTER, PRIVATE GLIDER	5
COMMERCIAL HELICOPTER, COMMERCIAL GLIDER	8
COMMERCIAL GYROPLANE, COMMERCIAL AIRPLANE	24
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL GLIDER	3
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER	22
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GLIDER	10
COMMERCIAL HELICOPTER, COMMERCIAL GYROPLANE	4
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, PRIVATE HELICOPTER	16
AIRLINE TRANSPORT HELICOPTER	279
AIRLINE TRANSPORT AIRPLANE, AIRLINE TRANSPORT HELICOPTER	1,078

ESTIMATED: DATA IS BASED ON A 25-MONTH CRITERIA.

TABLE 7

ESTIMATED ACTIVE GLIDER PILOTS BY CLASS OF CERTIFICATES:

DECEMBER 31, 1982

Class of Certificates	Number of Certificates Held
Total	19,806
Private glider	6,526
Private airplane, private glider	4,122
Private airplane, commercial glider	668
Private airplane, private glider, private helicopter	58
Private airplane, private glider, commercial helicopter	15
Private airplane, commercial glider, commerical helicopter	14
Private glider, commerical airplane	2,170
Private glider, commercial airplane, commerical helicopter	145
Private glider, commerical helicopter	5
Commercial glider	1,516
Commercial airplane, commercial glider	4,149
Commercial airplane, commercial glider, private helicopter	16
Commercial airplane, commercial glider, commercial helicopter	601
Commercial helicopter, commercial glider	8
Commercial airplane, commercial gyroplane, commercial glider, commercial helicopter	10
Commercial airplane, commercial gyroplane, commercial glider	3

Estimated: Data is based on a 25-month criteria.

TABLE 8

ESTIMATED ACTIVE HELICOPTER AND GLIDER PILOTS:

DECEMBER 31, 1978-82

Calendar Year	Total Helicopter Pilots 1/		Total Glider Pilots 2/	
	Number	Percent Change	Number	Percent Change
1982	29,926	+ 2	19,806	+ 2
1981	29,236	- 3	19,331	- 2
1980	30,085	+ 4	19,626	+ 3
1979	28,857	- 1	18,973	+ 2
1978	28,890	+ 1	18,610	+ 4

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

1/ Includes pilots with ratings to fly helicopters only.
2/ Includes pilots with ratings to fly gliders only.

TABLE 9

ESTIMATED TOTAL PILOTS AND INSTRUMENT RATED PILOTS:

DECEMBER 31, 1978-82

Calendar Year	Total Pilots 1/	Instrument Rated Pilots	
		Number	Percent of Total
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

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

1/ Excludes student pilots.

TABLE 10

ESTIMATED AIRLINE TRANSPORT CERTIFICATES HELD,

BY SELECTED AGE GROUPS: 1973-1982

Year	Total	Age Group		
		20-34 Years	35-44 Years	45 Years and Over
		Number		
1973	38,139	7,588	12,587	17,964
1974	41,002	8,832	13,511	18,659
1975	42,592	9,242	14,028	19,322
1976	45,072	10,246	14,649	20,177
1977	50,149	11,847	16,663	21,639
1978	55,881	14,656	18,368	22,857
1979	63,652	18,331	20,680	24,641
1980	69,569	20,317	22,735	26,517
1981	70,311	19,685	23,695	26,931
1982	73,471	18,912	25,729	28,830
	Percent Distribution			
1973	100.0	19.9	33.0	47.1
1974	100.0	21.5	33.0	45.5
1975	100.0	21.7	32.9	45.4
1976	100.0	22.7	32.5	44.8
1977	100.0	23.6	33.2	43.1
1978	100.0	26.2	32.9	40.9
1979	100.0	28.8	32.5	38.7
1980	100.0	29.2	32.7	38.1
1981	100.0	28.0	33.7	38.3
1982	100.0	25.7	35.0	39.2

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

TABLE 11

ESTIMATED ACTIVE PILOT CERTIFICATES HELD, BY CATEGORY AND AGE GROUP OF HOLDER: 1982, 1981, 1978

Age Group	Total Active Pilots			Student			Private			Commercial			Airline Transport		
	1982	1981	1978	1982	1981	1978	1982	1981	1978	1982	1981	1978	1982	1981	1978
Total . . .	733,255	764,182	798,833	156,361	179,912	204,874	322,094	328,562	337,644	165,095	168,580	185,835	73,471	76,311	55,881
14-15	322	323	361	322	322	361	0	0	0	0	0	0	0	0	0
16-19	22,860	28,036	32,295	16,458	21,453	24,203	5,863	6,055	7,445	319	550	574	0	0	0
20-24	77,535	85,470	93,546	33,072	39,160	45,153	30,369	32,314	36,405	11,911	11,949	10,402	678	616	457
25-29	102,067	108,992	118,503	31,163	35,753	41,872	42,257	44,423	47,995	19,549	19,677	21,888	6,026	6,058	4,214
30-34	108,873	118,224	131,012	25,080	28,568	32,722	47,309	48,921	49,989	20,740	23,759	35,006	12,208	13,011	10,005
35-39	109,815	110,645	110,402	18,415	20,314	22,100	46,176	45,777	44,779	28,285	29,050	32,582	13,936	12,685	9,160
40-44	87,748	86,624	89,250	12,020	12,712	14,411	38,512	37,810	38,271	23,940	23,522	26,062	11,793	11,010	9,208
45-49	70,592	72,484	78,930	7,901	8,831	11,058	32,092	32,995	38,627	19,180	19,748	20,347	10,476	9,808	7,665
50-54	61,315	62,533	63,994	5,915	6,675	7,232	32,372	34,502	35,985	14,478	13,743	14,178	7,714	6,552	5,482
55-59 . . .	46,750	48,171	48,877	3,488	3,643	3,604	25,589	25,184	21,794	11,676	13,037	15,754	5,525	5,572	6,745
60 and over	45,378	42,680	31,663	2,527	2,481	2,158	21,555	20,581	16,354	15,015	13,765	9,240	5,315	4,999	2,965

Age Group	Helicopter (Only)			Glider (Only)			Lighter-than-air			Flight Instructor 1/		
	1982	1981	1978	1982	1981	1978	1982	1981	1978	1982	1981	1978
Total . . .	7,034	6,453	4,874	7,842	7,388	6,541	1,360	2,976	3,186	62,492	57,523	52,201
14-15	0	0	0	0	0	0	0	0	0	0	0	0
16-19	10	7	10	185	159	243	25	52	20	117	113	157
20-24	805	635	239	592	588	835	108	208	75	6,205	6,119	4,652
25-29	1,740	1,565	1,254	1,093	1,113	1,090	239	404	190	9,805	9,505	7,972
30-34	1,831	2,063	2,023	1,322	1,294	1,011	383	608	256	10,064	10,010	10,388
35-39	1,590	1,277	733	1,143	1,009	706	270	555	342	10,620	9,496	8,401
40-44	591	517	335	748	684	554	144	569	409	7,780	6,682	6,617
45-49	268	224	167	589	545	547	86	333	519	6,085	5,484	4,934
50-54	128	101	71	654	645	587	54	315	459	4,574	3,856	3,491
55-59	55	47	31	592	549	487	25	139	462	3,224	3,075	3,261
60 and over	16	17	11	924	802	481	26	35	454	4,018	3,583	2,368

Estimated: Data is based on a 25-month criteria.

1/ Not included in total active pilots.

TABLE 12

ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES: DECEMBER 31, 1982 AND 1981

Class of Certificates	1982	1981	Percent Change 1982-1981
Total--All Groups	255,075	252,535	1
Private Pilots--Total	40,803	39,862	2
Private Airplane (Only)	37,865	37,091	2
Private Airplane, Private Glider	880	855	3
Private Airplane, Commercial Glider	84	75	12
Private Airplane, Private Helicopter	247	229	8
Private Airplane, Private Glider, Private Helicopter	15	15	--
Private Airplane, Commercial Helicopter	1,688	1,576	7
Private Airplane, Private Gyroplane	4	3	33
Private Airplane, Private Glider, Commercial Helicopter	9	12	-25
Private Airplane, Commercial Glider, Commercial Helicopter	10	7	42
Private Airplane, Other	1	1	--
Commercial Pilots--Total	135,984	138,023	-1
Commercial Airplane (Only)	115,441	117,354	-2
Commercial Airplane, Private Glider	1,806	1,817	-1
Commercial Airplane, Commercial Glider	3,304	3,259	1
Commercial Airplane, Private Helicopter	171	160	7
Commercial Airplane, Commercial Helicopter	14,533	14,729	-1
Commercial Airplane, Private Glider, Commercial Helicopter	133	136	-2
Commercial Airplane, Commercial Glider, Commercial Helicopter	537	525	2
Commercial Airplane, Commercial Gyroplane	16	20	-20
Commercial Airplane, Commercial Helicopter, Commercial Gyroplane	18	18	--
Commercial Airplane, Commercial Gyroplane, Comercial Glider	2	2	--
Commercial Airplane, Commercial Glider, Private Helicopter	14	11	27
Commercial Airplane, Commercial Gyroplane, Commercial Helicopter, Commercial Glider	9	12	-25
Airline Transport Pilots--Total	73,471	70,311	4
Airline Transport Airline	72,393	69,377	4
Airline Transport Airplane, Airline Transport Helicopter	1,078	934	15
Rotorcraft Pilots--Total	4,815	4,339	11
Commercial Helicopter	4,756	4,286	11
Airline Transport Helicopter	45	36	25
Rotorcraft Other	14	17	-18

Estimated: Data is based on a 25-month criteria.

TABLE 13

ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES, BY FAA REGION: DECEMBER 31, 1982

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Western Pacific	Northwest Mountain	Alaskan	Foreign
Total--All groups	255,073	10,919	32,645	38,743	12,572	44,303	35,317	44,913	23,136	5,283	9,242
Private pilots--Total	40,803	1,658	5,862	8,628	2,559	6,232	4,729	7,426	3,266	205	238
Private airplane (only).	37,865	1,558	5,432	8,273	2,401	5,572	4,302	6,949	3,004	162	212
Private airplane, private glider .	880	45	179	155	32	109	90	202	55	2	11
Private airplane, commercial glider.	84	8	15	10	2	10	6	15	18	0	0
Private airplane, private helicopter	247	7	28	34	10	57	39	45	26	0	1
Private airplane, private glider, private helicopter	15	0	3	3	0	2	1	3	3	0	0
Private airplane, commerical helicopter	1,688	39	202	147	112	475	291	210	158	40	14
Private airplane, private gyroplane.	4	1	0	1	1	1	0	0	0	0	0
Private airplane, private glider, commercial helicopter	9	0	1	0	0	4	0	2	1	1	0
Private airplane, commercial glider commercial helicopter	10	0	2	4	1	2	0	0	1	0	0
Private airplane, other	1	0	0	1	0	0	0	0	0	0	0
Commercial pilots--Total	135,984	5,267	17,555	20,781	6,990	23,509	19,144	23,712	12,686	1,994	4,546
Commercial airplane (only)	115,441	4,547	14,739	18,493	6,091	19,174	16,157	19,911	10,654	1,655	4,062
Commercial airplane, private glider	1,806	74	305	251	72	284	192	411	180	21	18
Commercial airplane, commercial glider	3,304	171	524	483	122	508	397	675	562	26	56
Commercial airplane, private helicopter	171	5	20	28	13	30	28	26	17	1	5
Commercial airplane, commercial helicopter	14,533	437	1,864	1,438	661	3,391	2,297	2,550	1,410	285	220
Commercial airplane, private glider, commercial helicopter . .	133	7	20	19	5	22	14	25	18	1	2
Commercial airplane, commercial glider, commercial helicopter . .	537	26	84	56	24	94	70	116	55	7	5

TABLE 13 (CONTINUED)

ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES, BY FAA REGION: DECEMBER 31, 1982

CLASS OF CERTIFICATE	TOTAL	NEW ENGLAND	EASTERN	GREAT LAKES	CENTRAL	SOUTHERN	SOUTHWEST	WESTERN PACIFIC	NORTHWEST MOUNTAIN	ALASKAN	FOREIGN
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE	16	0	0	3	0	2	3	4	4	0	0
COMMERCIAL AIRPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GYROPLANE. .	18	0	0	4	1	1	3	6	3	0	0
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL GLIDER. . . .	2	0	0	0	0	1	0	1	0	0	0
COMMERCIAL AIRPLANE, COMMERCIAL GLIDER, PRIVATE HELICOPTER.	14	0	0	4	1	0	3	4	2	0	0
COMMERCIAL AIRPLANE, COMMERCIAL GYROPLANE, COMMERCIAL HELICOPTER, COMMERCIAL GLIDER	9	0	1	2	0	2	0	3	1	0	0
AIRLINE TRANSPORT PILOTS--TOTAL . . .	73,471	3,826	8,515	8,929	2,791	13,146	10,643	13,234	6,792	995	4,600
AIRLINE TRANSPORT AIRPLANE	72,393	3,752	8,338	8,833	2,772	12,976	10,439	13,052	6,692	969	4,570
AIRLINE TRANSPORT AIRPLANE, AIRLINE TRANSPORT HELICOPTER	1,078	74	177	96	19	170	204	182	100	26	30
ROTORCRAFT PILOTS--TOTAL	4,815	168	713	405	232	1,416	801	541	392	89	58
COMMERCIAL HELICOPTER	4,756	165	707	402	232	1,406	786	535	383	88	52
AIRLINE TRANSPORT HELICOPTER	45	3	4	3	0	8	12	4	4	1	6
OTHER	14	0	2	0	0	2	3	2	5	0	0

ESTIMATED: DATA IS BASED ON A 25-MONTH CRITERIA.

II. ACTIVE NONPILOT CERTIFICATES HELD

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TABLE 14

ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1982 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Navigator	Flight Engineer
Total	420,595	277,436	9,893	65,004	7,580	20,934	1,695	58,053
United States--Total	404,720	266,819	9,753	63,786	5,984	20,781	1,606	35,991
New England--Total	19,996	13,228	402	3,004	158	800	189	2,215
Maine	1,333	793	40	263	15	124	7	91
New Hampshire	2,019	827	31	342	13	158	28	620
Rhode Island	1,006	654	45	197	5	47	4	54
Massachusets	9,410	7,190	191	1,256	73	271	15	414
Connecticut	5,657	3,450	82	804	41	156	131	993
Vermont	571	314	13	142	11	44	4	43
Eastern--Total	68,614	47,974	1,650	9,735	1,660	3,353	280	3,962
New York	29,440	21,826	401	3,462	1,186	1,516	87	962
Pennsylvania	15,343	11,387	359	2,273	131	533	49	611
Virginia	5,954	2,930	402	1,129	99	621	35	738
Maryland	3,611	2,136	133	756	23	221	13	529
West Virginia	1,104	649	52	265	4	98	1	35
Delaware	1,021	689	23	166	6	54	7	76
New Jersey	11,559	7,974	254	1,560	194	290	88	1,199
District of Columbia	582	383	26	124	17	20	0	12
Great Lakes--Total	54,026	34,549	1,319	10,410	590	2,722	46	4,390
Illinois	15,535	9,641	295	2,744	260	690	17	1,888
Indiana	5,203	3,378	199	1,013	25	357	6	225
Minnesota	8,672	5,578	144	1,315	178	284	3	1,170
Michigan	8,295	5,473	204	1,813	49	458	8	310
North Dakota	918	564	25	190	2	121	0	17
Ohio	10,566	6,936	291	2,210	56	569	6	498
South Dakota	926	562	26	243	1	61	1	30
Wisconsin	3,911	2,416	135	882	19	202	5	252
Central--Total	22,028	15,785	442	3,820	145	895	17	924
Kansas	6,522	4,688	108	1,113	35	284	5	289
Iowa	2,985	2,009	88	663	12	138	0	75
Missouri	10,577	7,851	172	1,595	96	338	8	517
Nebraska	1,944	1,237	74	449	2	135	4	43

TABLE 14 (CONTINUED)

ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1982 1/

FAA REGION AND STATE	TOTAL NONPILOT AIRMEN	MECHANIC	PARACHUTE RIGGER	GROUND INSTRUCTOR	DISPATCHER	CONTROL TOWER OPERATOR	FLIGHT NAVIGATOR	FLIGHT ENGINEER
SOUTHERN--TOTAL	67,803	42,048	1,797	10,165	1,272	4,735	289	7,497
NORTH CAROLINA	5,087	2,875	581	976	57	513	11	274
SOUTH CAROLINA	2,261	1,146	88	502	6	348	6	165
GEORGIA	13,456	8,194	294	1,452	208	635	19	2,654
FLORIDA	32,340	20,824	500	4,584	792	1,751	231	3,658
MISSISSIPPI	1,816	1,017	50	414	7	236	4	88
ALABAMA	6,229	4,252	143	962	101	653	7	111
TENNESSEE	4,680	2,605	171	889	95	439	9	472
KENTUCKY	1,934	1,135	170	586	6	160	2	75
SOUTHWEST--TOTAL	52,933	34,506	1,102	8,927	451	2,978	93	4,876
LOUISINANA	4,868	3,228	108	820	26	358	4	544
OKLAHOMA	11,668	9,040	194	1,711	22	448	9	244
TEXAS	32,116	19,723	649	5,382	384	1,779	71	4,128
NEW MEXICO	2,113	1,181	85	502	12	249	6	78
ARKANSAS	2,168	1,334	66	512	7	164	3	82
WESTERN-PACIFIC--TOTAL	82,063	55,998	1,614	11,489	1,182	3,310	527	7,945
HAWAII	3,118	2,134	61	309	123	275	17	199
CALIFORNIA	69,263	47,764	1,303	9,439	1,004	2,393	450	6,930
ARIZONA	7,299	4,968	197	1,263	41	406	15	409
NEVADA	2,383	1,132	53	478	14	236	65	405
NORTHWEST-MOUNTAIN--TOTAL	32,898	19,977	1,286	5,505	389	1,671	161	3,[illegible]
WASHINGTON	12,884	8,006	355	1,771	180	650	81	1,841
OREGON	3,813	2,521	235	686	25	163	33	150
IDAHO	1,774	1,107	152	325	9	117	3	61
COLORADO	9,320	5,322	163	1,700	151	396	31	1,557
WYOMING	995	652	51	202	9	46	4	51
UTAH	2,169	1,288	82	392	12	200	4	191
MONTANA	1,943	1,081	268	429	5	99	5	58
ALASKAN REGION--TOTAL	4,359	2,754	141	731	137	317	4	275
OUTSIDE U.S.--TOTAL	15,875	10,617	140	1,218	1,596	153	89	2,062

ESTIMATED: DATA IS BASED ON A 25-MONTH CRITERIA.

NOTE: PUERTO RICO AND VIRGIN ISLANDS ARE INCLUDED IN OUTSIDE U.S. TOTAL.

1/ DATA FOR CONTROL TOWER OPERATORS, FLIGHT ENGINEERS, AND FLIGHT NAVIGATORS REPRESENT TOTAL ACTIVE RATINGS HELD. DATA FOR DISPATCHERS, MECHANICS, PARACHUTE RIGGERS, AND GROUND INSTRUCTORS, REPRESENT TOTAL RATINGS ISSUED TO DATE. THESE RATINGS RATAIN THEIR VALIDITY.

TABLE 15

ESTIMATED ACTIVE WOMEN WITH NONPILOT CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1982 1/

FAA Region and State	Total	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Engineer
Total2/	7,115	1,298	593	3,391	199	1,418	215
United States--Total2/	7,051	1,294	588	3,359	186	1,411	212
New England--Total	316	54	28	160	3	61	10
Maine	35	6	4	16	0	9	0
New Hampshire	36	4	1	14	0	14	3
Rhode Island	25	1	12	9	0	3	0
Massachusets	125	20	7	74	0	21	3
Connecticut	82	22	3	37	3	13	4
Vermont	13	1	1	10	0	1	0
Eastern--Total	984	125	75	471	45	204	16
New York	399	55	16	159	31	118	4
Pennsylvania	195	27	15	112	5	17	2
Virginia	144	12	31	57	2	35	3
Maryland	75	6	5	45	1	14	1
West Virginia	21	8	0	11	1	3	0
Delaware	18	4	1	8	0	1	0
New Jersey	118	13	6	70	4	13	5
District of Columbia	14	0	1	9	1	3	1
Great Lakes--Total	1,048	213	62	567	24	153	29
Illinois	300	57	13	159	9	52	10
Indiana	96	11	20	46	1	12	6
Minnesota	100	27	4	47	6	11	5
Michigan	176	32	7	105	3	27	2
North Dakota	24	2	0	9	1	12	0
Ohio	254	74	13	128	3	31	5
South Dakota	30	2	0	26	0	2	0
Wisconsin	68	8	5	47	1	6	1
Central--Total	342	88	24	186	1	39	4
Kansas	110	28	7	60	0	13	2
Iowa	75	24	3	41	1	6	0
Missouri	122	34	11	62	0	14	1
Nebraska	35	2	3	23	0	6	1

TABLE 15 (CONTINUED)

ESTIMATED ACTIVE WOMEN WITH NONPILOT CERTIFICATES HELD, BY FAA REGION AND STATE: DECEMBER 31, 1982 1/

FAA REGION AND STATE	TOTAL	MECHANIC	PARACHUTE RIGGER	GROUND INSTRUCTOR	DISPATCHER	CONTROL TOWER OPERATOR	FLIGHT ENGINEER
SOUTHERN--TOTAL 2/	1,261	173	135	580	39	297	36
NORTH CAROLINA	143	11	39	61	1	31	0
SOUTH CAROLINA	49	2	4	24	0	17	2
GEORGIA	118	13	8	58	1	28	10
FLORIDA 2/	543	108	22	254	31	111	16
MISSISSIPPI	50	5	5	25	0	15	0
ALABAMA	170	9	7	95	1	56	2
TENNESSEE	134	12	36	45	5	30	6
KENTUCKY	54	13	14	18	0	9	0
SOUTHWEST--TOTAL	979	174	128	480	11	169	17
LOUISINANA	92	21	2	45	0	22	2
OKLAHOMA	192	41	20	99	1	29	2
TEXAS	581	103	88	275	10	93	12
NEW MEXICO	77	6	15	38	0	17	1
ARKANSAS	37	3	3	23	0	8	0
WESTERN-PACIFIC--TOTAL . . .	1,398	324	81	584	36	311	62
HAWAII	56	6	0	22	4	21	3
CALIFORNIA	1,159	287	65	474	32	247	54
ARIZONA	140	26	11	71	0	32	0
NEVADA	43	5	5	17	0	11	5
NORTHWEST-MOUNTAIN--TOTAL .	595	128	43	286	7	101	30
WASHINGTON	215	59	7	78	5	50	18
OREGON	79	12	13	45	0	8	1
IDAHO	31	5	1	18	2	5	0
COLORADO	172	39	7	96	1	20	9
WYOMING	20	3	2	10	1	4	0
UTAH	44	8	6	18	0	10	2
MONTANA	34	2	7	21	0	4	0
ALASKAN REGION--TOTAL . . .	128	15	12	45	20	32	4
OUTSIDE U.S.--TOTAL	64	4	5	32	13	7	3

ESTIMATED: DATA IS BASED ON A 25-MONTH CRITERIA.

NOTE: PUERTO RICO AND VIRGIN ISLANDS ARE INCLUDED IN OUTSIDE U.S. TOTAL.

1/ DATA FOR CONTROL TOWER OPERATORS, FLIGHT ENGINEERS, AND FLIGHT NAVIGATORS REPRESENT TOTAL ACTIVE RATINGS HELD. DATA FOR DISPATCHES, MECHANICS, PARACHUTE RIGGERS, AND GROUND INSTRUCTORS, REPRESENT TOTAL RATINGS ISSUED TO DATE. THESE RATINGS RETAIN THEIR VALIDITY.

2/ INCLUDES ONE WOMAN FROM FLORIDA WITH A CURRENT CERTIFICATE FOR FLIGHT NAVIGATOR.

III. PILOT CERTIFICATES ISSUED

THE STUDENT PILOT CERTIFICATE IS A MEDICAL CERTIFICATE ISSUED TO THE STUDENT BY AN AVIATION MEDICAL EXAMINER. THE MEDICAL APPLICATION IS THEN SENT TO THE CIVIL AEROMEDICAL INSTITUTE (CAMI) AT THE MIKE MONRONEY AERONAUTICAL CENTER IN OKLAHOMA CITY. THE APPLICATION IS PROCESSED THROUGH A COMPUTER PROGRAM TO VERIFY THAT THE MEDICAL STANDARDS HAVE BEEN MET. AT THIS POINT, THE STUDENTS NAME IS ADDED TO THE LIST OF ACTIVE STUDENT PILOTS.

THEREFORE, THE COUNTS OF STUDENT CERTIFICATES ISSUED BY MONTH IN THE PAST HAVE ACTUALLY BEEN THE NUMBER OF NEW CERTIFICATES PROCESSED BY CAMI THAT MONTH--THE ISSUANCE HAVING TAKEN PLACE EARLIER. WE ARE NOW ABLE TO PROVIDE COUNTS OF THE NUMBER ISSUED. TABLE 19 SHOWS THE NUMBER PROCESSED AND TABLE 20 SHOWS THE NUMBER ISSUED EACH MONTH.

WE WILL CONTINUE TO SHOW BOTH DATA SERIES UNTIL WE HAVE A FULL FIVE YEAR TIME SERIES FOR THE NUMBER OF STUDENT CERTIFICATES ISSUED EACH MONTH.

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TABLE 16

PILOT CERTIFICATES ISSUED, BY CATEGORY: CALENDAR YEARS 1978-1982

Category of Certificates	1978		1979		1980		1981		1982	
	Original Issuances	Additional Ratings	Original Issuances	Additional Ratings	Original Issuances	Additional Ratings	Original Issuances	Additional Ratings	Original Issuances	Additional Ratings
Pilot--Total	216,107 R/	39,959	214,567	41,331	175,235	38,791	184,292	33,532	159,288	36,699
Student 1/	137,032 R/	0	135,956	0	102,301	0	117,962	0	86,371	0
Private	58,064	16,048	54,466	16,466	50,458	16,035	45,713	14,897	52,144	16,276
Commercial	11,789	17,501	12,627	17,793	12,452	16,015	10,657	12,146	11,048	11,910
Airline Transport	6,912	5,921	8,981	6,603	7,116	6,289	4,763	5,991	5,037	7,956
Helicopter (only)	1,122	287	1,300	283	1,721	272	1,985	302	2,256	330
Glider (only)	759	188	642	157	583	151	529	164	793	184
Lighter-than-air	429	14	595	29	604	29	2,583	32	1,659 2/	43 2/
Nonpilot--Total	16,418	6,679	17,895	7,129	17,280	7,275	18,498	7,263	21,016	8,655
Mechanic	8,791	3,269	9,697	3,812	11,640	4,254	13,673	4,790	15,622	5,656
Parachute Rigger	235	50	201	45	185	50	232	17	215	51
Ground Instructor	2,193	574	2,081	513	1,981	570	1,861	564	1,882	565
Dispatcher	193	0	292	0	351	0	302	1	499	1
Control Tower Operator	1,391	2,540	1,109	2,483	1,179	2,286	1,186	1,897	1,550	2,588
Flight Navigator	8	1	2	0	9	0	8	0	5	0
Flight Engineer	3,607	245	4,513	276	1,935	115	1,236	174	1,245	216
Flight Instructor Certificates 2/	5,930	5,375	6,716	6,072	7,188	6,953	6,461	8,767	6,228	10,397
Intrument Ratings*	0	16,265	0	16,651	0	16,123	0	14,219	0	14,517

1/ Data represents the number processed each year.

R/ Revised.

Note: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot--aircraft category, class, and type instrument rating.

Helicopter pilot--instrument and type ratings.

Flight instructor--ratings for each aircraft category in which the holder is qualified, and for instrument flying instruction.

Mechanic--airframe and powerplant ratings.

Parachute rigger--senior or master rigger ratings.

Ground instructor--ratings for each subject in which the holder is qualified to give instruction.

Air traffic control tower operator--junior/senior ratings for airport where holder may control air traffic.

* Special ratings shown on pilot certificates represeented above; not to be added to total.

2/ Not included in total.

3/ Six month total.

TABLE 17

PILOT CERTIFICATES ISSUED, BY CATEGORY: CALENDAR YEAR 1982

Category of Certificates	Total Ratings Issued	Original Issuances				Additional Ratings			
		Total	Examiner	Inspector	No Test	Total	Examiner	Inspector	No Test
Total	225,658	180,304	74,878	90,714	14,712	45,354	36,595	5,882	2,879
Pilot--Total.	195,987	159,288	59,455	89,879	9,874	36,699	28,846	5,804	2,049
Student 1/	86 371	86,371	0	86,371	0	0	0	0	0
Private.	68,420	52,144	46,525	276	5,343	16,276	15,377	278	621
Commercial	22,958	11,048	8,606	198	2,244	11,910	10,163	475	1,272
Airline Transport. . . .	12,993	5,037	2,564	2,270	203	7,956	2,969	4,936	51
Helicopter (only). . . .	2,586	2,256	538	191	1,527	330	145	98	87
Glider (only).	977	793	761	24	8	184	172	11	1
Lighter-than-air	1,682 1/	1,639	461	629	549	43	20	6	17
Nonpilot-Total.	29,671	21,016	15,423	755	4,838	8,655	7,747	78	830
Mechanic	21,258	15,622	12,785	32	2,805	5,636	5,320	6	310
Parachute Rigger	246	215	129	43	43	31	26	4	1
Ground Instructor. . . .	2,265	1,882	164	5	1,713	383	43	1	339
Dispatcher	500	499	192	219	88	1	1	0	0
Control Tower Operator .	3,938	1,550	1,442	1	107	2,388	2,238	4	146
Flight Navigator	3	3	1	0	2	0	0	0	0
Flight Engineer.	1,461	1,245	710	455	80	216	119	63	34
Flight Instructor*. . . .	16,625	6,228	5,693	523	12	10,397	8,824	1,560	15

1/ Six month totals.

Note: Excludes renewals.

Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot--aircraft category, class and type instrument rating.

Helicopter pilot--Instrument and type ratings.

Flight instructor--ratings for each aircraft category in which the holder is qualified to instruct, and ratings for instrument flying instruction.

Mechanic--airframe and powerplant ratings.

Parachute rigger--senior or master rigger ratings.

Ground instructor--ratings for each subject in which the holder is qualified to give ground instruction.

Air traffic control tower operator--junior/senior ratings for airports where holder may control air traffic.

* Special ratings shown on pilot certificates represented above, not to be added to total.

TABLE 18

INSTRUMENT RATINGS ISSUED: 1982, 1981, 1978

Class of Certificates	1982	1981	1978	Percent Change 1982-1981
Total--All groups	14,517	14,219	16,899	2
Private pilots--Total	9,646	9,568	9,690	1
Private airplane (only)	8,902	8,889	9,052	(*)
Private airplane, private glider	100	115	127	-13
Private airplane, commercial glider	6	8	6	-25
Private airplane, private helicopter	18	16	27	13
Private airplane, commercial helicopter	217	216	225	1
Private airplane, private glider, private helicopter	1	0	1	---
Private airplane, other	402	324	272	24
Commercial pilots--Total	5,493	5,471	6,575	1
Commercial airplane (only)	2,751	2,768	5,588	-1
Commercial airplane, private glider	29	31	85	-6
Commercial airplane, commercial glider	44	50	82	-12
Commercial airplane, private helicopter	1	2	6	-50
Commercial airplane, commercial helicopter	646	604	796	7
Commercial airplane, private glider, commercial helicopter	10	4	1	150
Commercial airplane, commercial glider, commercial helicopter	11	11	13	---
Commercial airplane, other	1	1	4	---
Rotorcraft pilots--Total	1,378	1,180	654	17
Commercial helicopter	1,365	1,160	620	18
Commercial helicopter, airline transport helicopter	13	20	11	-35
Commercial helicopter, private glider	0	0	1	---
Commercial helicopter, commercial glider	0	0	1	---
Commercial helicopter, other	0	0	1	---

(*) Less than 0.5 percent.

TABLE 19

STUDENT CERTIFICATES PROCESSED, BY MONTH: 1978-1982

Month	1982	1981	1980	1979	1978
Total	86,371	117,962	102,301	135,956	137,032 R/
January	7,284	9,179	10,462	12,926	7,385 R/
February	6,499	8,568	7,835	10,585	8,253 R/
March	6,857	9,718	7,872	9,525	11,234 R/
April	5,372	7,036	7,775	9,968	10,646 R/
May	5,053	8,387	8,510	9,919	11,032
June	6,632	8,885	8,577	9,308	11,490
July	6,416	8,387	6,941	13,266	10,544
August	8,536	8,363	10,590	16,920	13,839
September	8,850	10,713	9 ,936	12,051	11,904
October	8,254	14,327	9,186	11,926	15,548
November	8,407	12,424	7,052	12,928	13,096
December	8,211	11,975	7,565	6,634	12,061

R/ Revised.

TABLE 20

STUDENT CERTIFICATES ISSUED, BY MONTH: 1979-1982

Month	1982	1981	1980	1979
Total	90,723	111,531	107,808	128,749
January	6,306	8,377	8,061	8,668
February	6,208	7,763	7,783	7,570
March	7,600	9,318	7,970	10,474
April	7,081	9,119	8,481	10,094
May	7,559	8,797	8,425	11,640
June	8,997	11,330	9,854	13,158
July	9,143	12,057	11,340	13,801
August	8,781	11,041	10,353	13,819
September	8,532	10,120	10,695	11,542
October	7,978	9,287	10,071	12,110
November	7,110(E)	7,812	7,723	9,040
December	5,428(E)	6,510	7,052	6,833

(E) Estimated

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