

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

4



U.S. Department
of Transportation
Federal Aviation
Administration

U.S. Civil Airmen Statistics 1983

Office of
Management
Systems

AD-A166 361

DTIC
ELECTE
APR 08 1986
S D

DTIC FILE COPY

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

Technical Report Documentation Page

1. Report No.		2. Government Accession No. AD-A166361		3. Recipient's Catalog No.	
4. Title and Subtitle U. S. CIVIL AIRMEN STATISTICS				5. Report Date May 31, 1984	
				6. Performing Organization Code AMS-420 ✓	
7. Author(s) Patricia W. Carter				8. Performing Organization Report No.	
9. Performing Organization Name and Address Federal Aviation Administration Office of Management Systems 800 Independence Avenue S.W. Washington, D.C. 20591				10. Work Unit No. (TRAIS)	
				11. Contract or Grant No.	
12. Sponsoring Agency Name and Address				13. Type of Report and Period Covered Calendar Year	
				14. Sponsoring Agency Code FAA	
15. Supplementary Notes					
16. Abstract This report furnishes detailed airmen statistics. It contains calendar year statistics on pilots and nonpilots and the number of certificates issued.					
17. Key Words Certificates held, nonpilot, private, commercial, student, airline transport, glider, helicopter, lighter-than-air, instrument ratings, flight instructors, pilot certificates issued.				18. Distribution Statement	
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 44p.	22. Price

INFORMATION AND STATISTICS DIVISION PUBLICATION INFORMATION

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 Management Standards & Statistics Division, AMS-400, 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, Aircraft Accidents, Aeronautical Production & Import/Export.

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: Various

Date next publication
is scheduled: December 1984 (1983 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: 1983 data
Order from: Information & Statistics Division (FAA)

Date 1984 information
is available: March 1985

Date next publication
is scheduled: June 1985 (1984 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: 1982 data
Order from: National Technical Information Service

Date 1983 Information
will be available: May 1984

Date next publication
is scheduled: September 1984 (1983 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: Fiscal Year
Latest edition: 1983 data
Order from: National Technical Information Service

Date 1984 information
will be available: January 1985

Date next publication
is scheduled: April 1985 (1984 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 1981 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: 1981 data
Order from: National Technical Information Service

Date 1984 information
is available: January 1986

Date next publication
is scheduled: April 1986 (1984 data)

General Aviation Activity and 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: 1982 data
Order from: National Technical Information Service

Date 1983 Information
will be available: August 1984

Date next publication
is available: October 1984 (1983 data)

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 1983
 Order from: U. S. Government Printing Office

Date next publication is scheduled: May 1984

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: 1982 data
 Order from: U. S. Government Printing Office

Date 1983 Information will be available: July 1984

Date next publication is available: September 1984 (1983 data)



Accession For	
NTIS	<input checked="" type="checkbox"/>
CRA&I	<input type="checkbox"/>
DTIC	<input type="checkbox"/>
TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	

ORDER INFORMATION

Addresses are listed below for ordering purposes.

National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield Virginia 22161. To call use (703)487-4650 if you have a stock number or (703)487-4780 if you do not have a stock number.

Format: Microfiche and Hard copy made from microfiche (cost depends on number of pages in report).

Superintendent of Documents, U.S. Government Printing Office (GPO), Washington D.C. 20402, (202)783-3238 or contact any of the following GPO Bookstores located throughout the United States. Format: Original Book.

*Main Bookstore, 710 North Capitol St., N.W., Washington, D.C. 20402, FTS 275-2091, Commercial 202-275-2091.

*Commerce Bookstore, 14th & E Sts., N.W., Room 1604, Washington, D.C. 20230, FTS 377-3527, Commercial 202-377-3527.

*H.E.W. Bookstore, Rm. 1528, H.E.W. North Bldg., 330 Independence Ave., S.W., Washington, D.C. 20201, FTS 472-7478, Commercial 202-472-7478.

*Int'l Communication Agency, 1776 Pennsylvania Avenue, N.W., Washington, D.C. 20547, FTS 724-9928, Commercial 202-724-9928.

*Pentagon Bookstore, Main Concourse, South End, Washington, D.C. 20310, FTS 557-1821, Commercial 202-557-1821

*State Bookstore, 2317 North Lobby, 21st & C Streets, N.W., Washington, D.C. 20520, FTS 632-1437, Commercial 703-632-1437.

*Retail Sales Outlet, 8660 Cherry Lane, Laurel, MD 20810, No FTS Number, Commercial 301-953-7974. Order Desk (202) 783-3238.

Atlanta Bookstore, Rm. 100, Federal Bldg., 275 Peachtree Street, N.E., Atlanta, GA 30303, FTS 242-6946, Commercial 404-221-6947.

Birmingham Bookstore, Roebuck Shopping City, 9220 Parkway Roebuck Shopping Center, Birmingham, AL 35206, FTS 229-1056, Commercial 205-254-1056.

Boston Bookstore, Rm. G-25, JFK Federal Bldg., Sudbury Street, Boston, MA 02203, FTS 223-6071, Commercial 617-223-6071.

Chicago Bookstore, Rm. 1463, 14th Floor, Everett M. Dirksen Bldg., 219 S. Dearborn Street, Chicago, IL 60604, FTS 353-5133, Commercial 312-353-5133.

Cleveland Bookstore, 1st Floor, Fed. Off. Bldg., 1240 E. 9th Street, Cleveland, OH 44199, FTS 293-4922, Commercial 216-522-4922.

Columbus Bookstore, Rm. 207, Federal Bldg., 200 North High Street, Columbus, OH 43215, FTS 943-6056, Commercial 614-469-6956.

Dallas Bookstore, Room 1C50, 1100 Commerce Street, Dallas, TX 75242, FTS 729-0076, Commercial 214-767-0076.

Denver Bookstore, Rm. 117, Federal Bldg., 1961 Stout Street, Denver, CO 80294, FTS 327-3964, Commercial 303-837-3964.

Detroit Bookstore, Patrick V. McNamara Fed. Bldg., Suite 160, 477 Michigan Avenue, Detroit, MI 48226, FTS 226-7816, Commercial 313-226-7816.

Houston Bookstore, 45 College Center, 9319 Gulf Freeway, Houston, TX 77017, FTS 527-5453, Commercial 713-526-7517.

Jacksonville Bookstore, 400 West Bay Street, Rm. 158, P.O. Box 35089, Jacksonville, FL 32202, FTS 946-3801, Commercial 904-791-3801.

Kansas City Bookstore, Rm. 144, Fed. Off. Bldg., 601 East 12th Street, Kansas City, MO 64106, FTS 758-2160, Commercial 816-374-2160.

Los Angeles Bookstore, Arco Plaza, Level "C", 505 South Flower St., Los Angeles, CA 90071, FTS 798-5841, Commercial 213-688-5841.

Milwaukee Bookstore, Rm. 190, Federal Bldg., 519 E. Wisconsin Avenue., Milwaukee, WI 53202, FTS 362-1300, Commercial 414-291-1304.

New York Bookstore, Rm. 110, 26 Federal Plaza, New York, NY 10007, FTS 264-3825, Commercial 212-264-3825.

Philadelphia Bookstore, Rm. 1214, Fed. Off. Bldg., 600 Arch Street, Philadelphia, PA 19106, FTS 597-0677, Commercial 215-597-0677.

Pittsburgh Bookstore, Rm. 118 Federal Bldg., 1000 Liberty Ave., Pittsburgh, PA 15222, FTS 722-2721, Commercial 412-644-2721.

Pueblo Bookstore, 720 North Main Street, Majestic Bldg., Pueblo, CO 81003, FTS 323-9371, Commercial 303-544-3142.

San Francisco Bookstore, Rm. 1023, Fed. Off. Bldg., 450 Golden Gate Avenue, San Francisco, CA 94102, FTS 556-6657, Commercial 415-556-0643.

Seattle Bookstore, Rm. 194, Fed. Off. Bldg., 915 Second Avenue, Seattle, WA 98174, FTS 399-4270, Commercial 206-442-4270.

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-420), BY PATRICIA W. CARTER.

DISTRIBUTION: ZMS-348E

C O N T E N T S

	Page
I. Active Pilot Certificates Held	3
II. Nonpilot Certificates Held	25
III. Airmen Certificates Issued	31
<i>Selected</i> Tables	
1. Active Pilot Certificates Held: December 31, 1974-1983,.....	4
2. Active Women Pilot Certificates Held, December 31, 1974-83	5
3. Active Pilot and Nonpilot Certificates Held, by Class of Certificate, and by FAA Region: December 31, 1983.....	6
4. Active Pilots and Flight Instructors by FAA Region and State: December 31, 1983	10
5. Active Women Pilots and Flight Instructors by FAA Region and State: December 31, 1983	13
6. Active Helicopter Pilots by Class of Certificates: December 31, 1983	15
7. Active Glider Pilots by Class of Certificates: December 31, 1983	16
8. Active Helicopter and Glider Pilots: December 31, 1979-83..	17
9. Total Pilots and Instrument Rated Pilots: December 31, 1979-83	18
10. Airline Transport Certificates Held, by Selected Age Groups, 1974-83	19
11. Active Pilot Certificates Held, by Category and Age Group of Holder: 1983, 1982, 1978	20
12. Instrument Ratings Held, by Class of Certificates: December 31, 1983 and 1982	21
13. Instrument Ratings Held, by Class of Certificates, by FAA Region: December 31, 1983	22
14. Active Nonpilot Airmen Certificates Held, by FAA Region and State: December 31, 1983	26
15. Active Women with Nonpilot Certificates Held, by FAA Region and State: December 31, 1983	23
16. Pilot Certificates Issued, by Category: Calendar Year 1979-1983	32

C O N T E N T S (Continued)

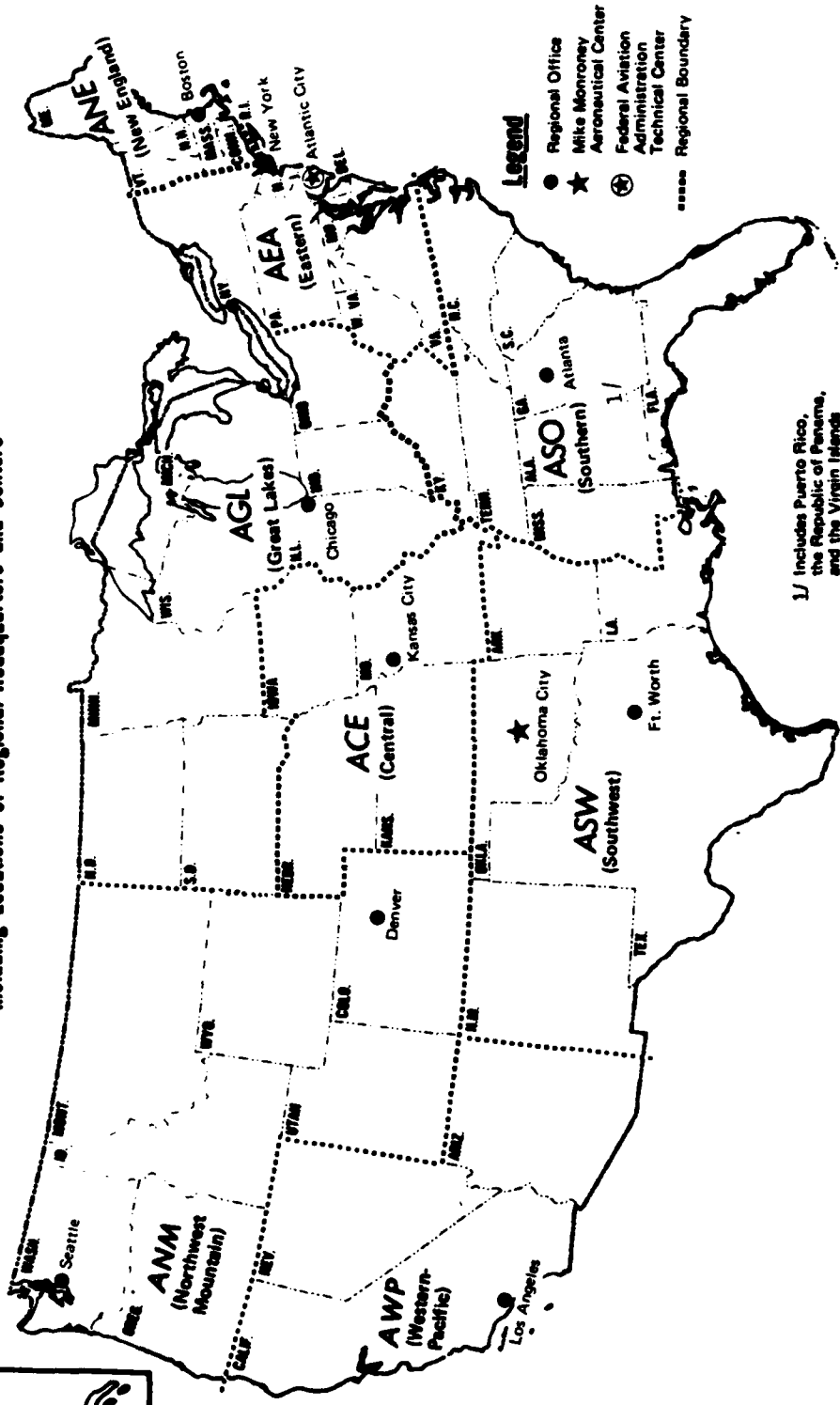
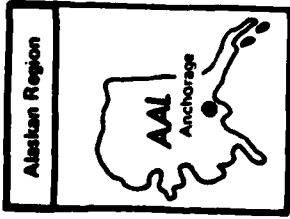
	Page
17. Pilot Certificates Issued, by Category and Conductor: December 31, 1983.....	33
18. Instrument Ratings Issued: 1983, 1982, 1979	34
19. Student Certificates Issued, by Month: 1979-83.....	35

Charts

Figure

1. Federal Aviation Administration Regions and Regional Offices...	1
2. Active Pilot Certificates Held: Region and State: December 31, 1983.....	9
3. Active Women Pilot Certificates Held: Region and State: December 31, 1983.....	12

U.S. DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration
FAA REGIONAL BOUNDARIES
 Including Locations of Regional Headquarters and Centers



- Legend**
- Regional Office
 - ★ Mike Monroney Aeronautical Center
 - ⊕ Federal Aviation Administration Technical Center
 - Regional Boundary

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

1. ACTIVE PILOT CERTIFICATES HELD

TABLE 1
ESTIMATED ACTIVE PILOT CERTIFICATES HELD: DECEMBER 31, 1974-1983

Category	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Pilot--Total	733,728	728,187	744,246	778,932	798,833	814,667	827,071	764,182	733,255	718,004
Student	180,795	176,978	188,801	203,510	204,874	210,180	199,833	179,912	156,361	147,197
Private	305,848	305,863	309,005	327,424	337,644	343,276	357,479	328,562	322,094	318,643
Commercial	192,425	189,342	187,801	188,763	185,833	182,097	183,442	168,580	165,093	159,495
Airline transport	41,002	42,592	45,072	50,149	55,881	63,652	69,569	70,311	73,471	75,938
Helicopter (only)	5,647	4,932	4,804	4,819	4,874	5,218	6,030	6,453	7,034	7,237
Glider (only) 1/s	4,824	5,348	5,789	6,208	6,541	6,796	7,039	7,388	7,842	8,157
Lighter-than-air 1/s	3,187	3,132	2,974	3,059	3,186	3,448	3,679	2,976	1,360	1,337
Nonpilot--Total	314,394	323,934	334,681	348,584	362,350	377,213	393,486	398,368	420,595	432,890
Mechanic 1/	198,863	205,436	212,303	220,768	228,743	237,611	250,157	262,705	277,436	288,335
Parachute rigger 1/	7,900	8,327	8,718	8,994	9,200	9,381	9,547	9,716	9,893	10,074
Ground instructor 1/	49,249	51,365	53,464	55,717	57,738	59,680	61,550	63,246	65,004	66,385
Dispatcher 1/	5,576	5,741	5,838	5,972	6,161	6,446	6,799	7,094	7,580	8,223
Control tower operator	23,342	23,956	24,584	25,107	25,388	25,232	25,130	15,528 3/	20,934	19,691
Flight navigator	2,509	2,321	2,214	2,155	2,092	1,994	1,936	1,785	1,695	1,636
Flight engineer	26,955	26,788	27,560	29,871	33,028	36,869	38,367	38,294	38,053	38,546
Flight instructor certificates	42,418	44,777	46,236	49,362	52,201	54,398	60,440	57,523	62,492	62,201
Instrument ratings 2/	199,323	203,954	211,364	226,334	236,312	247,096	260,461	252,535	255,073	254,271

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25-month criteria.
 1/ Number represent all certificates on record. No medical examination required.
 2/ Special ratings shown on pilot certificates, i.e., do not indicate additional certificates.
 3/ Does not include approximately 15,000 air traffic controllers. Their medical certificates are no longer processed by the Civil Aeronautical Institute (CAI). 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 1974-1983

Category of Certificates Held	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Pilot--Total	36,943	37,934	41,643	47,294	49,874	51,733	52,902	47,721	45,305	43,648
Student	19,298	19,600	22,254	25,705	26,354	26,714	26,006	22,591	19,958	18,696
Private	14,465	14,952	15,838	17,702	19,267	20,275	21,554	19,602	19,388	18,801
Commercial	2,596	2,733	2,857	3,090	3,306	3,618	3,993	4,101	4,257	4,281
Airline Transport	116	137	160	193	270	361	480	584	749	884
Helicopter (Only)	5	11	17	17	17	27	55	87	113	144
Glider (Only) 1/a	271	301	352	391	433	461	496	540	574	599
Lighter-than-Air 1/a	192	200	165	195	227	277	318	216	266	243
Nonpilot--Total	3,471	3,809	4,252	4,716	5,135	5,600	6,111	6,348	7,115	7,670
Mechanic 1/	315	360	422	505	600	695	890	1,051	1,298	1,493
Parachute Rigger 1/	495	504	516	535	544	553	562	580	593	605
Ground Instructor 1/	2,139	2,249	2,369	2,525	2,682	2,852	3,015	3,213	3,391	3,554
Dispatcher 1/	42	50	55	65	76	105	141	167	199	249
Control Tower Operator	473	638	874	1,044	1,151	1,250	1,332	1,447	1,418	1,519
Flight Engineer	7	8	16	42	82	145	171	189	215	248
Flight Navigator	0	0	0	0	0	0	0	1	1	2
Flight Instructor	834	945	1,054	1,238	1,458	1,699	2,079	2,165	2,532	2,685

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, 1983

Class of Certificate	Total	New England	Eastern	Great Lakes	Central Southern	Southeast	Western Pacific	Northwest Mountain	Alaskan	Outside U.S.
Total--All Groups.	718,004	31,937	91,387	121,090	40,518	110,368	127,126	70,387	11,100	18,458
Student Pilots--Total.	147,197	7,680	21,208	24,566	7,138	22,747	24,492	14,097	2,149	3,139
Private Pilots--Total.	318,643	13,351	38,823	61,586	21,563	44,482	57,507	32,364	5,061	3,628
Private Airplane (Only)	309,216	12,984	37,328	60,303	21,160	42,907	55,639	31,360	4,947	3,433
Private Airplane, Private Glider	4,269	196	821	661	166	579	954	391	32	31
Private Airplane, Commercial Glider	716	47	137	108	18	78	160	109	2	5
Private Airplane, Private Gyroplane.	31	2	4	8	2	3	8	2	0	0
Private Airplane, Private Helicopter	1,112	43	131	149	52	199	193	141	16	17
Private Airplane, Commercial Glider, Private Helicopter	47	4	7	8	0	11	9	3	0	0
Private Airplane, Commercial Helicopter	3,218	75	390	343	164	697	537	355	63	140
Private Airplane, Private Glider, Commercial Helicopter	19	0	3	1	0	4	5	3	1	2
Private Airplane, Commercial Glider, Commercial Helicopter	14	0	2	4	1	4	2	0	0	0
Private Airplane, Commercial Gyroplane, Commercial Helicopter	1	0	0	1	0	0	0	0	0	0
Commercial Pilots--Total	159,495	6,216	19,786	23,695	8,362	27,090	28,108	15,091	2,700	5,675
Commercial Airplane (Only)	135,906	5,389	16,665	21,104	7,371	22,186	23,540	12,671	2,284	5,318
Commercial Airplane, Private Glider.	2,158	86	336	291	85	350	504	229	26	21
Commercial Airplane, Commercial Glider.	4,206	202	690	588	151	653	878	470	37	39
Commercial Airplane, Commercial Gyroplane, Commercial Glider	3	0	1	0	0	1	1	0	0	0

TABLE 3 (Continued)
 ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1963

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Western Pacific	Northwest Mountain	Alaskan	Outside U.S.
Commercial Airplane, Private Helicopter.	241	8	21	45	11	45	38	39	22	6	6
Commercial Airplane, Commercial Glider, Private Helicopter. . .	13	0	2	2	1	1	4	3	0	0	0
Commercial Airplane, Commercial Helicopter.	16,142	496	1,944	1,556	712	3,722	2,527	2,963	1,606	336	280
Commercial Airplane, Private Glider, Commercial Helicopter .	150	6	25	27	3	26	14	29	17	1	2
Commercial Airplane, Commercial Glider, Commercial Helicopter .	625	28	95	73	26	102	75	141	68	8	9
Commercial Airplane, Commercial Helicopter, Commercial Gyroplane	20	0	3	4	1	1	4	5	2	0	0
Commercial Airplane, Commercial Gyroplane	23	1	2	4	1	2	4	3	5	1	0
Commercial Airplane, Commercial Gyroplane, Commercial Helicopter, Commercial Glider	8	0	2	1	0	1	0	2	1	1	0
Airline Transport Pilots--Total .	75,938	3,848	8,804	9,168	2,863	13,451	10,663	13,433	7,060	1,028	5,620
Airline Transport Airplane (Only)	74,752	3,758	8,615	9,060	2,833	13,243	10,447	13,238	6,966	1,000	5,592
Airline Transport Airplane, Airline Transport Helicopter. .	1,186	90	189	108	30	208	216	195	94	28	28
Rotorcraft (Only) Pilots--Total	7,237	293	947	637	310	1,839	1,182	1,037	583	134	275
Private Gyroplane.	8	1	0	2	1	1	1	1	1	0	0
Private Helicopter	615	47	76	76	20	79	82	141	61	4	29
Commercial Helicopter.	6,286	231	833	538	287	1,729	994	864	504	111	195
Commercial Helicopter, Private Glider.	3	0	1	0	0	1	0	1	0	0	0
Commercial Helicopter, Commercial Glider.	7	1	1	0	0	1	1	0	3	0	0

TABLE 3 (Continued)
ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD, BY CLASS OF CERTIFICATE AND BY FAA REGION: DECEMBER 31, 1983

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Western Pacific	Northwest Mountain	Alaskan	Outside U.S.
Commercial helicopter, commercial gyroplane	2	0	0	2	0	0	0	0	0	0	0
Airliner transport helicopter	316	13	36	19	2	28	104	30	14	19	51
Glider (only)--Total	<u>8,157</u>	<u>504</u>	<u>1,671</u>	<u>1,097</u>	<u>157</u>	<u>637</u>	<u>573</u>	<u>2,358</u>	<u>1,044</u>	<u>14</u>	<u>102</u>
Private glider	6,794	398	1,396	920	113	544	447	2,068	809	11	88
Commercial glider	<u>1,363</u>	<u>106</u>	<u>275</u>	<u>177</u>	<u>44</u>	<u>93</u>	<u>126</u>	<u>290</u>	<u>235</u>	<u>3</u>	<u>14</u>
Lighter-than-air	<u>1,337</u>	<u>45</u>	<u>148</u>	<u>341</u>	<u>125</u>	<u>122</u>	<u>184</u>	<u>191</u>	<u>148</u>	<u>14</u>	<u>19</u>
Total--all nonpilot	<u>432,890</u>	<u>20,393</u>	<u>70,580</u>	<u>55,437</u>	<u>22,554</u>	<u>70,012</u>	<u>54,316</u>	<u>83,858</u>	<u>34,167</u>	<u>4,566</u>	<u>17,017</u>
Mechanic 1/	288,335	13,654	49,609	36,084	16,344	43,957	35,829	57,620	20,985	2,928	11,325
Parachute rigger 1/	10,074	407	1,688	1,327	453	1,836	1,109	1,642	1,316	153	143
Ground instructor 1/	66,305	3,050	9,940	10,540	3,873	10,491	9,117	11,677	5,644	765	1,288
Dispatcher 1/	8,223	201	1,839	632	156	1,375	508	1,282	421	147	1,662
Control tower operator	19,691	728	3,263	2,434	805	4,517	2,843	3,077	1,585	292	147
Flight navigator	1,636	177	263	50	15	271	89	519	156	5	91
Flight engineer	38,546	2,166	3,978	4,370	908	7,565	4,821	8,276	4,060	276	2,361
Flight instructor certificates--Total	<u>62,201</u>	<u>2,711</u>	<u>8,614</u>	<u>10,608</u>	<u>3,412</u>	<u>9,632</u>	<u>8,630</u>	<u>10,476</u>	<u>6,283</u>	<u>922</u>	<u>913</u>
Instrument ratings 2/	<u>254,271</u>	<u>10,970</u>	<u>32,547</u>	<u>38,208</u>	<u>12,324</u>	<u>44,356</u>	<u>34,798</u>	<u>44,617</u>	<u>22,891</u>	<u>3,431</u>	<u>10,129</u>

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, 1983**

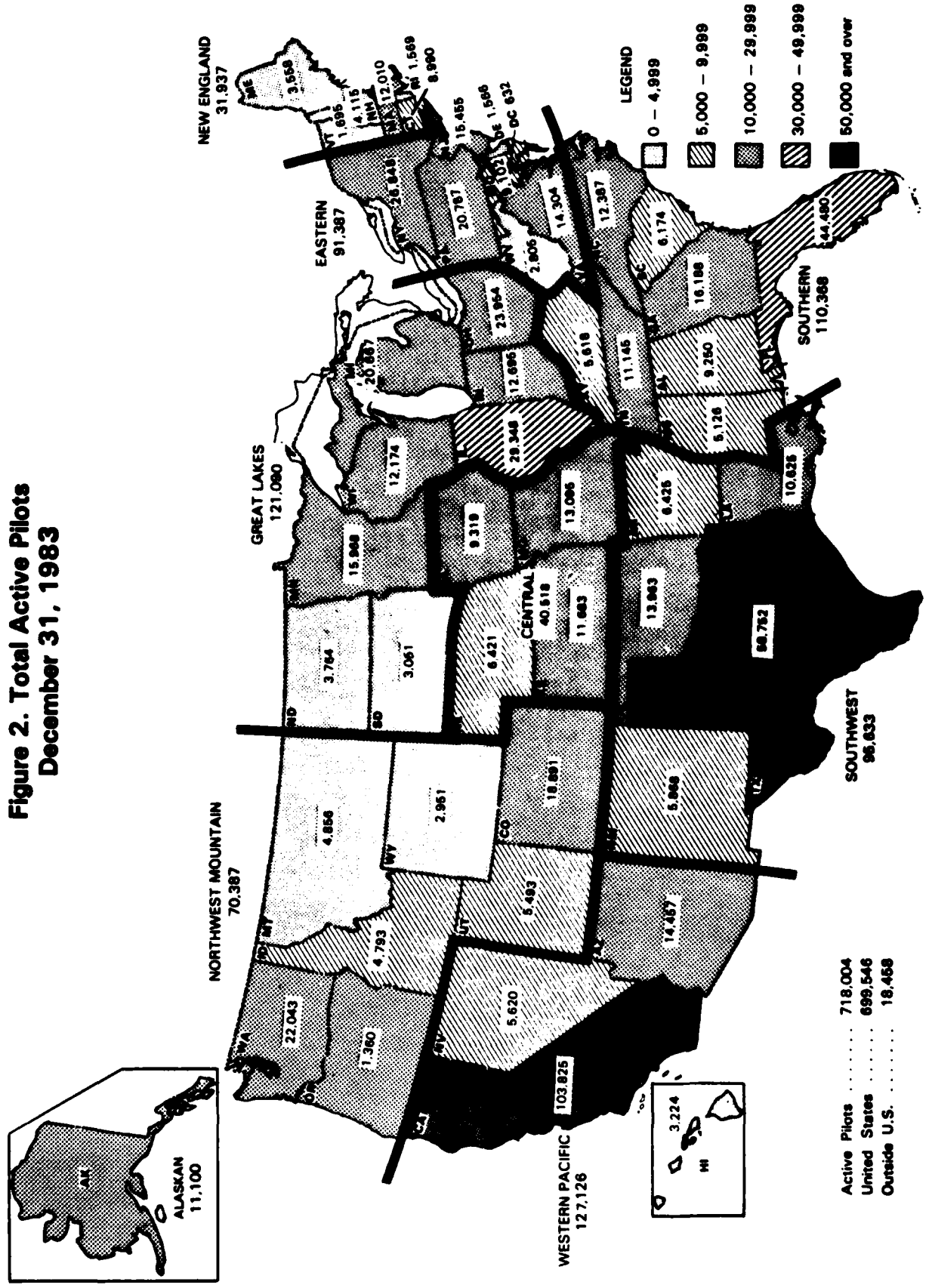


TABLE 4
ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:

DECEMBER 31, 1983

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous <u>2/</u>	Flight Instructor <u>3/</u>
Total	718,004 <u>1/</u>	147,197	318,643	159,495	75,938	16,731	62,201
United States--Total	699,546	144,058	315,015	153,820	70,318	16,335	61,288
New England--Total	31,937	7,680	13,351	6,216	3,848	842	2,711
Maine	3,558	822	1,663	790	240	43	256
New Hampshire	4,115	851	1,450	898	811	105	368
Rhode Island	1,569	368	727	315	121	38	128
Massachusetts	12,010	3,217	5,407	2,115	894	377	998
Connecticut	8,990	1,978	3,372	1,784	1,637	219	805
Vermont	1,695	444	732	314	145	60	156
Eastern--Total	91,387	21,208	38,823	19,786	8,804	2,766	8,614
New York	26,640	6,687	11,422	5,464	2,010	1,057	2,402
Pennsylvania	20,787	4,942	9,308	3,972	1,979	586	2,065
Virginia	14,304	2,825	5,388	4,083	1,646	362	1,355
Maryland	9,198	2,135	4,105	1,994	731	233	809
West Virginia	2,805	703	1,281	574	203	44	258
Delaware	1,566	282	687	360	202	35	188
New Jersey	15,455	3,460	6,371	3,205	2,002	417	1,495
District of Columbia	632	174	261	134	31	32	42
Great Lakes--Total	121,090	24,566	61,586	23,695	9,168	2,075	10,608
Illinois	29,348	6,159	14,102	5,690	2,874	523	2,698
Indiana	12,695	2,695	6,494	2,516	786	204	1,160
Minnesota	15,968	2,786	8,146	3,309	1,564	163	1,317
Michigan	20,136	4,183	10,567	3,638	1,257	491	1,675
North Dakota	3,764	843	1,872	911	96	42	272
Ohio	23,954	4,960	12,063	4,729	1,694	508	2,285
South Dakota	3,051	596	1,629	696	111	19	222
Wisconsin	12,174	2,344	6,713	2,206	786	125	979
Central--Total	40,518	7,138	21,563	8,362	2,863	592	3,412
Kansas	11,683	1,921	6,232	2,488	883	159	980
Iowa	9,319	1,648	5,449	1,702	377	143	720
Missouri	13,095	2,466	6,281	2,783	1,322	243	1,245
Nebraska	6,421	1,103	3,601	1,389	281	47	467

TABLE 4 (Continued)

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

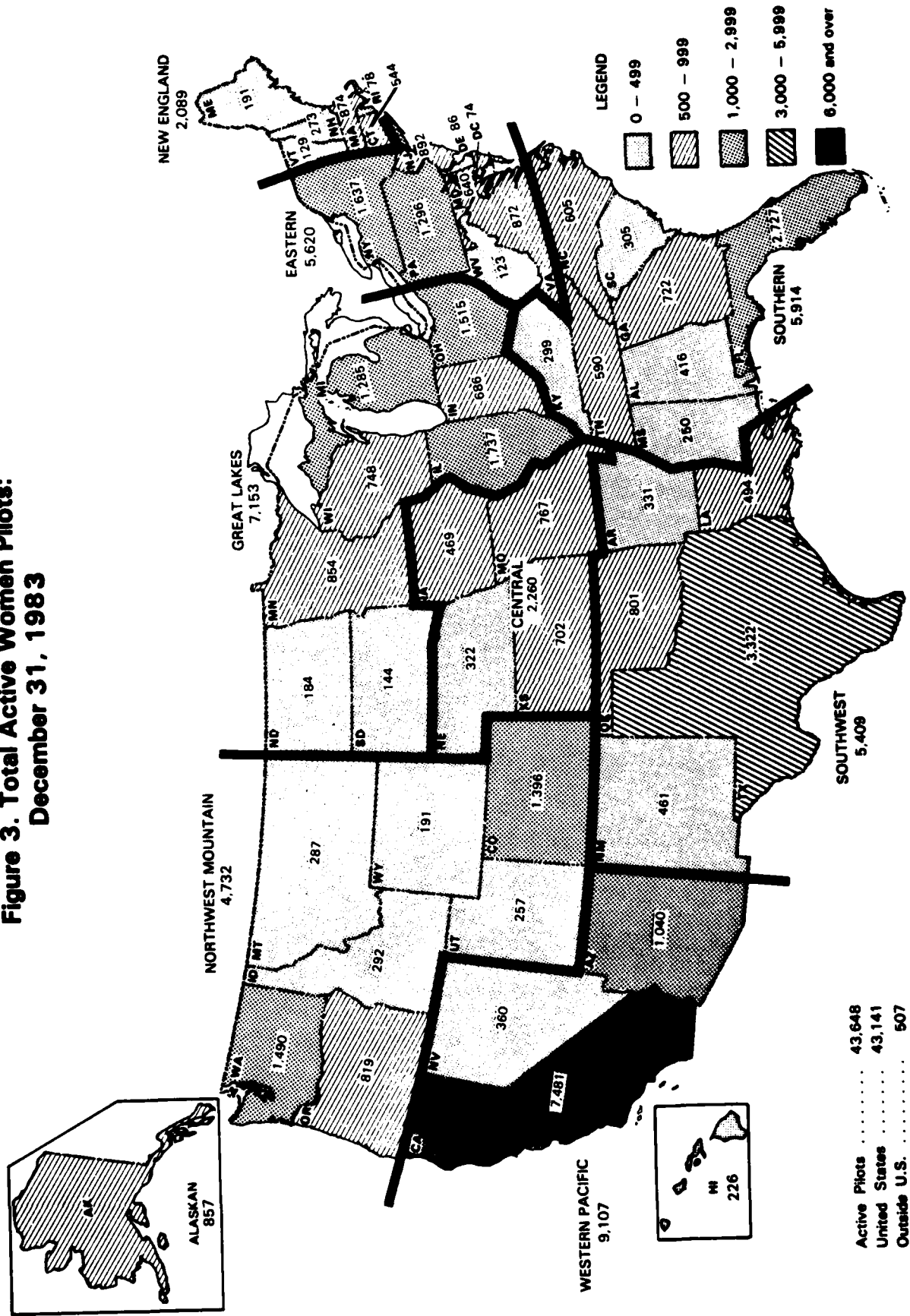
DECEMBER 31, 1983

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous ^{2/}	Flight Instructor ^{3/}
Southern--Total	110,368	22,747	44,482	27,090	13,451	2,598	9,632
North Carolina	12,387	2,718	5,539	2,756	1,112	262	1,025
South Carolina	6,174	1,417	2,565	1,583	482	127	512
Georgia	16,188	3,175	5,759	3,896	3,023	335	1,311
Florida	44,480	8,694	17,567	11,329	6,200	690	3,894
Mississippi	5,126	1,115	2,094	1,505	313	99	423
Alabama	9,250	1,804	3,675	2,675	553	543	1,005
Tennessee	11,145	2,467	4,724	2,266	1,368	320	993
Kentucky	5,618	1,357	2,559	1,080	400	222	469
Southwest--Total	95,633	19,901	40,278	22,772	10,663	1,939	8,630
Louisiana	10,625	2,290	4,137	2,971	836	341	975
Oklahoma	13,963	2,998	6,835	3,013	949	168	1,184
Texas	58,752	12,078	23,763	13,724	8,021	1,166	5,454
New Mexico	5,868	1,251	2,693	1,334	398	192	495
Arkansas	6,425	1,364	2,850	1,730	409	72	522
Western-Pacific--Total.	127,126	24,492	57,507	28,108	13,433	3,586	10,476
Hawaii	3,224	693	894	892	575	170	260
California	103,825	19,962	47,795	22,657	10,625	2,786	8,338
Arizona	14,457	2,788	6,540	3,321	1,317	491	1,295
Nevada	5,620	1,049	2,278	1,238	916	139	533
Northwest-Mountain--Total	70,387	14,097	32,364	15,091	7,060	1,775	6,283
Washington	22,043	4,134	9,647	5,116	2,713	433	2,001
Oregon	11,360	2,006	6,213	2,383	556	202	937
Idaho	4,793	838	2,480	1,119	289	67	454
Colorado	18,891	4,383	7,328	3,767	2,563	350	1,788
Wyoming	2,951	660	1,535	545	166	45	246
Utah	5,493	1,146	2,607	1,093	520	127	443
Montana	4,856	930	2,554	1,068	253	51	414
Alaskan Region--Total .	11,100	2,149	5,061	2,700	1,028	162	922
Outside U.S.--Total . .	18,458	3,139	3,628	5,675	5,620	396	913
U.S. Territories--Total ^{4/}	1,975	609	692	335	321	18	0
Puerto Rico	1,513	499	517	245	235	17	0
Virgin Island	358	92	150	67	48	1	0
American Samoa	12	0	1	5	6	0	0
Canal Zone	3	1	1	1	0	0	0
Guam	83	16	21	16	30	0	0
Wake Island	6	1	2	1	2	0	0

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

^{1/} Includes Outside U.S.^{2/} Includes helicopter, glider, and lighter-than-air.^{3/} Not included in total.^{4/} U.S. Territories are included in Outside U.S. total.

**Figure 3. Total Active Women Pilots:
December 31, 1983**



Active Pilots 43,648
 United States 43,141
 Outside U.S. 507

TABLE 5
 ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE:
 DECEMBER 31, 1983

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous 2/	Flight Instructor 3/
Total 1/	<u>43,648</u>	<u>18,696</u>	<u>18,801</u>	<u>4,281</u>	<u>884</u>	<u>986</u>	<u>2,685</u>
United States--Total	<u>43,141</u>	<u>18,484</u>	<u>18,609</u>	<u>4,209</u>	<u>866</u>	<u>973</u>	<u>2,664</u>
New England--Total . . .	<u>2,089</u>	<u>988</u>	<u>794</u>	<u>210</u>	<u>44</u>	<u>53</u>	<u>142</u>
Maine	191	101	64	21	3	2	14
New Hampshire	273	132	95	35	6	5	20
Rhode Island	78	35	33	8	1	1	5
Massachusetts	874	420	346	70	12	26	49
Connecticut	544	246	203	63	20	12	46
Vermont	129	54	53	13	2	7	8
Eastern--Total	<u>5,620</u>	<u>2,536</u>	<u>2,239</u>	<u>571</u>	<u>101</u>	<u>173</u>	<u>366</u>
New York	1,637	741	647	159	18	72	99
Pennsylvania	1,296	602	503	140	21	30	97
Virginia	872	409	343	86	19	15	54
Maryland	640	277	264	69	16	14	42
West Virginia	123	69	45	8	0	1	3
Delaware	86	35	38	9	1	3	8
New Jersey	892	371	368	96	20	37	57
District of Columbia	74	32	31	4	6	1	6
Great Lakes--Total . . .	<u>7,153</u>	<u>2,921</u>	<u>3,233</u>	<u>734</u>	<u>129</u>	<u>136</u>	<u>470</u>
Illinois	1,737	709	790	189	29	20	113
Indiana	686	291	295	77	11	12	44
Minnesota	854	312	400	107	26	9	73
Michigan	1,285	555	533	121	22	54	71
North Dakota	184	72	84	25	2	1	18
Ohio	1,515	645	656	150	31	33	110
South Dakota	144	68	68	7	1	0	3
Wisconsin	748	269	407	58	7	7	38
Central--Total	<u>2,260</u>	<u>864</u>	<u>1,121</u>	<u>192</u>	<u>38</u>	<u>45</u>	<u>130</u>
Kansas	702	250	376	58	9	9	32
Iowa	469	164	248	41	4	12	24
Missouri	767	331	329	70	17	20	53
Nebraska	322	119	168	23	8	4	21

TABLE 5 (Continued)

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

DECEMBER 31, 1983

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Miscellaneous ^{2/}	Flight Instructor ^{3/}
Southern--Total	<u>5,914</u>	<u>2,739</u>	<u>2,324</u>	<u>593</u>	<u>164</u>	<u>94</u>	<u>346</u>
North Carolina	605	283	236	65	12	9	39
South Carolina	305	153	105	32	7	8	16
Georgia	722	354	261	76	19	12	37
Florida	2,727	1,208	1,100	300	83	36	168
Mississippi	250	128	94	20	6	2	14
Alabama	416	191	173	31	5	16	20
Tennessee	590	269	243	44	26	8	34
Kentucky	299	153	112	25	6	3	18
Southwest--Total	<u>5,409</u>	<u>2,543</u>	<u>2,201</u>	<u>472</u>	<u>97</u>	<u>96</u>	<u>291</u>
Louisiana	494	236	185	51	14	8	39
Oklahoma	801	354	366	63	13	5	45
Texas	3,322	1,559	1,377	273	62	51	163
New Mexico	461	224	158	44	7	28	25
Arkansas	331	170	115	41	1	4	19
Western-Pacific--Total.	<u>9,107</u>	<u>3,514</u>	<u>4,216</u>	<u>947</u>	<u>187</u>	<u>243</u>	<u>594</u>
Hawaii	226	95	77	29	10	15	18
California	7,481	2,834	3,542	784	147	174	496
Arizona	1,040	424	445	102	21	48	61
Nevada	360	161	152	32	9	6	19
Northwest-Mountain--Total	<u>4,732</u>	<u>2,002</u>	<u>2,092</u>	<u>424</u>	<u>87</u>	<u>127</u>	<u>289</u>
Washington	1,490	565	699	174	27	25	103
Oregon	819	322	413	59	10	15	35
Idaho	292	116	135	31	3	7	18
Colorado	1,396	685	499	110	31	71	94
Wyoming	191	74	95	17	3	2	13
Utah	257	106	124	13	9	5	12
Montana	287	134	127	20	4	2	14
Alaskan Region--Total .	<u>857</u>	<u>377</u>	<u>389</u>	<u>66</u>	<u>19</u>	<u>6</u>	<u>36</u>
Outside U.S.--Total . .	<u>507</u>	<u>212</u>	<u>192</u>	<u>72</u>	<u>18</u>	<u>13</u>	<u>21</u>
U.S. Territories--Total ^{4/}	<u>74</u>	<u>40</u>	<u>24</u>	<u>6</u>	<u>3</u>	<u>1</u>	<u>0</u>
Puerto Rico	43	29	7	3	3	1	0
Virgin Island	25	8	14	3	0	0	0
American Samoa	0	0	0	0	0	0	0
Canal Zone	1	0	1	0	0	0	0
Guam	5	3	2	0	0	0	0
Wake Island	0	0	0	0	0	0	0

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

^{1/} Includes outside U.S.^{2/} Includes helicopter, glider, and lighter-than-air.^{3/} Not included in total.^{4/} U.S. Territories are included in Outside of U.S. total.

TABLE 6
ESTIMATED ACTIVE HELICOPTER PILOTS BY CLASS OF CERTIFICATES:
DECEMBER 31, 1983

Class of Certificates	Number of Certificates Held
Total	30,090
Private helicopter	615
Private gyroplane, private airplane	31
Private helicopter, private airplane	1,112
Private helicopter, private airplane, private glider	47
Private airplane, commercial gyroplane, commercial helicopter.	1
Private airplane, private glider, commercial helicopter.	19
Private gyroplane	8
Private airplane, commercial glider, commercial helicopter	14
Commercial helicopter	6,286
Commercial helicopter, private airplane	3,218
Commercial airplane, commercial helicopter.	16,142
Commercial airplane, private helicopter.	241
Commercial airplane, private glider, commercial helicopter	150
Commercial airplane, commercial glider, commercial helicopter	625
Commercial helicopter, private glider	3
Commercial helicopter, commercial glider	7
Commercial gyroplane, commercial airplane	23
Commercial airplane, commercial gyroplane, commercial glider	3
Commercial airplane, commercial gyroplane, commercial helicopter	20
Commercial airplane, commercial gyroplane, commercial helicopter, commercial glider.	8
Commercial helicopter, commercial gyroplane	2
Commercial airplane, commercial glider, private helicopter	13
Airline transport helicopter	316
Airline transport airplane, airline transport helicopter	1,186

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

TABLE 7

ESTIMATED ACTIVE GLIDER PILOTS BY CLASS OF CERTIFICATES:

DECEMBER 31, 1983

Class of Certificates	Number of Certificates Held
Total	20,395
Private glider	6,794
Private airplane, private glider	4,269
Private airplane, commercial glider	716
Private airplane, private glider, private helicopter	47
Private airplane, private glider, commercial helicopter	19
Private airplane, commercial glider, commercial helicopter	14
Private glider, commercial airplane	2,158
Private glider, commercial airplane, commercial helicopter	150
Private glider, commercial helicopter	3
Commercial glider	1,363
Commercial airplane, commercial glider	4,206
Commercial airplane, commercial glider, private helicopter	13
Commercial airplane, commercial glider, commercial helicopter	625
Commercial helicopter, commercial glider	7
Commercial airplane, commercial gyroplane, commercial glider, commercial helicopter	8
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, 1979-83

Calendar Year	Total Helicopter Pilots <u>1/</u>		Total Glider Pilots <u>2/</u>	
	Number	Percent Change	Number	Percent Change
1983	30,090	+1	20,395	+3
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

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, 1979-83

Calendar Year	Total Pilots <u>1/</u>	Instrument Rated Pilots	
		Number	Percent of Total
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

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: 1974-1983

Year	Total	Age Group		
		20-34 Years	35-44 Years	45 Years and Over
Number				
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
1983	75,938	18,237	27,122	30,579
Percent Distribution				
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
1983	100.0	24.0	35.7	40.3

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: 1983, 1982, 1978

Age Group	Type of Pilot Certificates														
	Total Active Pilots			Student			Private			Commercial			Airline Transport		
	1983	1982	1978	1983	1982	1978	1983	1982	1978	1983	1982	1978	1983	1982	1978
Total	718,004	733,255	798,833	147,197	156,361	204,874	318,643	322,094	337,644	159,495	165,093	185,833	75,938	73,471	55,881
14-15	280	322	361	280	322	361	0	0	0	0	0	0	0	0	0
16-19	19,595	22,860	32,295	14,188	16,458	24,203	4,959	5,863	7,445	267	319	374	0	0	0
20-24	70,879	77,535	93,546	29,759	33,072	45,153	28,039	30,369	36,405	10,806	11,911	10,402	622	678	437
25-29	97,060	102,067	118,503	29,019	31,163	41,872	40,229	42,257	47,995	18,640	19,549	21,888	6,038	6,026	4,214
30-34	104,166	108,873	131,012	24,195	25,080	32,722	46,459	47,309	49,989	18,585	20,740	35,006	11,577	12,208	10,005
35-39	107,927	109,815	110,402	18,089	18,415	22,100	45,670	46,176	44,779	26,219	28,285	32,582	14,628	13,936	9,160
40-44	89,756	87,748	89,250	11,857	12,020	14,411	39,859	38,512	38,271	23,913	23,940	26,062	12,494	11,793	9,208
45-49	71,234	70,592	78,930	7,819	7,901	11,058	32,483	32,092	38,627	18,684	19,180	20,347	11,221	10,476	7,665
50-54	61,035	61,315	63,994	5,718	5,915	7,232	30,941	32,372	35,985	15,065	14,478	14,178	8,479	7,714	5,482
55-59	46,738	46,750	48,877	3,541	3,488	3,604	26,481	25,589	21,794	10,825	11,676	15,754	5,175	5,325	6,745
60 and over	49,534	45,378	31,663	2,732	2,527	2,158	23,523	21,555	16,354	16,491	15,015	9,240	5,704	5,315	2,965
	Type of Pilot Certificates														
	Helicopter (Only)			Glider (Only) 2/			Lighter-than-air 2/			Flight Instructor 1/					
Total	7,237	7,034	4,874	8,157	7,842	6,541	1,337	1,360	3,186	62,201	62,492	52,201			
14-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-19	11	10	10	152	185	243	18	25	20	108	117	137			
20-24	811	805	239	551	592	835	91	108	75	5,533	6,205	4,632			
25-29	1,891	1,740	1,254	1,043	1,093	1,090	200	239	190	9,511	9,805	7,972			
30-34	1,633	1,831	2,023	1,373	1,322	1,011	344	383	256	9,612	10,064	10,388			
35-39	1,732	1,590	733	1,260	1,143	706	329	270	342	10,642	10,620	8,401			
40-44	648	591	335	833	748	554	152	144	409	8,081	7,780	6,617			
45-49	296	268	167	647	589	547	84	86	519	6,221	6,085	4,934			
50-54	125	128	71	632	654	587	75	54	459	4,831	4,574	3,491			
55-59	63	55	31	632	592	487	21	25	462	3,272	3,224	3,261			
60 and over	27	16	11	1,034	924	481	23	26	454	4,390	4,018	2,368			

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

1/ Not included in total active pilots.

2/ Glider and lighter-than-air pilots are not required to have a medical examination; however, totals above represent pilots who received a medical examination.

TABLE 12

ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES: DECEMBER 31, 1983 AND 1982

Class of Certificate	1983	1982	Percent Change 1983-1982
Total--all groups	254,271	255,073	0
Private pilots--total	41,951	40,803	3
Private airplane (only)	38,836	37,865	3
Private airplane, private glider	921	880	5
Private airplane, commercial glider	86	84	2
Private airplane, private helicopter	267	247	8
Private airplane, private glider, private helicopter	19	15	27
Private airplane, commercial helicopter	1,797	1,688	6
Private airplane, private gyroplane	4	4	0
Private airplane, private glider, commercial helicopter	10	9	11
Private airplane, commercial glider, commercial helicopter	10	10	0
Private airplane, other	1	1	0
Commercial pilots--total	131,445	135,984	-3
Commercial airplane (only)	111,188	115,441	-4
Commercial airplane, private glider	1,823	1,806	1
Commercial airplane, commercial glider	3,360	3,304	2
Commercial airplane, private helicopter	188	171	10
Commercial airplane, commercial helicopter	14,139	14,533	-3
Commercial airplane, private glider, commercial helicopter	138	133	4
Commercial airplane, commercial glider, commercial helicopter	558	537	4
Commercial airplane, commercial gyroplane	14	16	-13
Commercial airplane, commercial helicopter, commercial gyroplane	16	18	-11
Commercial airplane, commercial gyroplane, commercial glider	2	2	0
Commercial airplane, commercial glider, private helicopter	12	11	9
Commercial airplane, commercial gyroplane, commercial helicopter, commercial glider	7	12	-42
Airline transport pilots--total	75,938	73,471	3
Airline transport airline	74,752	72,393	3
Airline transport airplane, airline transport helicopter	1,186	1,078	10
Rotorcraft pilots--total	4,937	4,815	3
Commercial helicopter	4,864	4,756	2
Airline transport helicopter	60	45	33
Rotorcraft other	13	14	-7

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

TABLE 13
ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES, BY FAA REGION: DECEMBER 31, 1963

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Western Pacific	Northwest Mountain	Alaska	Outside U.S.
Total—all groups	254,271	10,970	32,547	38,208	12,324	44,356	34,798	44,617	22,891	3,431	10,129
Private pilots—total	41,951	1,756	6,025	8,708	2,557	6,490	4,966	7,547	3,401	254	247
Private airplane (only).	38,836	1,645	5,548	8,345	2,402	5,785	4,523	7,047	3,108	209	224
Private airplane, private glider	921	44	189	148	36	130	102	199	60	5	8
Private airplane, commercial glider	86	10	14	10	2	9	5	16	20	0	0
Private airplane, private helicopter	267	13	26	37	11	55	46	51	27	1	0
Private airplane, private glider	19	1	4	4	0	3	1	3	3	0	0
Private airplane, commercial helicopter	1,797	42	241	158	104	501	288	228	182	39	14
Private airplane, private gyroplane	4	1	0	1	1	1	0	0	0	0	0
Private airplane, private glider, commercial helicopter	10	0	2	0	0	3	0	3	1	0	1
Private airplane, commercial glider	10	0	1	4	1	3	1	0	0	0	0
Commercial helicopter	1	0	0	1	0	0	0	0	0	0	0
Private airplane, other	1	0	0	1	0	0	0	0	0	0	0
Commercial pilots—total	131,445	5,176	17,015	19,893	6,670	22,935	18,402	23,035	12,051	2,056	4,212
Commercial airplane (only)	111,188	4,456	14,290	17,676	5,800	18,550	15,518	19,202	10,072	1,707	3,917
Commercial airplane, private glider	1,823	71	287	252	71	299	187	430	184	22	20
Commercial airplane, commercial glider	3,360	182	543	487	126	515	403	690	370	29	35
Commercial airplane, private helicopter	186	5	19	35	11	34	30	28	17	4	5
Commercial airplane, commercial helicopter	14,139	451	1,763	1,347	634	3,413	2,172	2,521	1,329	285	224
Commercial airplane, private glider, commercial helicopter	138	6	25	22	2	26	14	24	16	1	2
Commercial airplane, commercial glider, commercial helicopter	558	25	82	65	24	94	68	126	57	8	9

TABLE 13 (Continued)
ESTIMATED INSTRUMENT RATINGS HELD, BY CLASS OF CERTIFICATES, BY FAA REGION: DECEMBER 31, 1983

Class of Certificate	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Western Pacific	Northwest Mountain	Alaska	Outside U.S.
Commercial airplane, commercial gyroplane	14	0	1	2	0	2	2	3	4	0	0
Commercial airplane, commercial helicopter, commercial gyroplane	16	0	1	4	1	0	4	5	1	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	12	0	2	2	1	0	4	3	0	0	0
Commercial airplane, commercial gyroplane, commercial helicopter, commercial glider	7	0	2	1	0	1	0	2	1	0	0
Airline transport pilots--total	<u>75,938</u>	<u>3,048</u>	<u>8,804</u>	<u>9,168</u>	<u>2,863</u>	<u>13,451</u>	<u>10,663</u>	<u>13,433</u>	<u>7,060</u>	<u>1,028</u>	<u>5,620</u>
Airline transport airplane	74,752	3,758	8,615	9,060	2,833	13,243	10,447	13,238	6,966	1,000	5,592
Airline transport airplane, airline transport helicopter	1,186	90	189	108	30	208	216	195	94	28	28
Rotocraft pilots--total	<u>4,937</u>	<u>190</u>	<u>703</u>	<u>439</u>	<u>234</u>	<u>1,480</u>	<u>767</u>	<u>602</u>	<u>379</u>	<u>93</u>	<u>50</u>
Commercial helicopter	4,864	186	691	434	233	1,473	747	594	371	91	44
Airline transport helicopter	60	3	10	5	1	5	18	6	4	2	6
Other	13	1	2	0	0	2	2	2	4	0	0

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

II. ACTIVE NONPILOT CERTIFICATES HELD

TABLE 14

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

DECEMBER 31, 1983 ^{1/}

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Navigator	Flight Engineer
Total 2/	<u>432,890</u>	<u>288,335</u>	<u>10,074</u>	<u>66,385</u>	<u>8,223</u>	<u>19,691</u>	<u>1,636</u>	<u>38,546</u>
United States--Total	<u>415,873</u>	<u>277,010</u>	<u>9,931</u>	<u>65,097</u>	<u>6,561</u>	<u>19,544</u>	<u>1,545</u>	<u>36,185</u>
New England--Total . .	<u>20,383</u>	<u>13,654</u>	<u>407</u>	<u>3,050</u>	<u>201</u>	<u>728</u>	<u>177</u>	<u>2,166</u>
Maine	1,374	828	42	278	18	118	6	84
New Hampshire	2,030	859	33	352	20	142	25	599
Rhode Island	1,033	670	44	204	7	48	4	56
Massachusetts	9,644	7,424	192	1,257	85	253	17	416
Connecticut	5,722	3,542	83	809	60	134	121	973
Vermont	580	331	13	150	11	33	4	38
Eastern--Total	<u>70,580</u>	<u>49,609</u>	<u>1,688</u>	<u>9,940</u>	<u>1,839</u>	<u>3,263</u>	<u>263</u>	<u>3,978</u>
New York	30,180	22,510	406	3,516	1,236	1,494	85	933
Pennsylvania	15,787	11,763	371	2,315	162	506	46	624
Virginia	6,118	3,052	411	1,155	111	612	34	743
Maryland	3,767	2,251	140	783	29	212	12	340
West Virginia	1,156	682	52	277	5	102	1	37
Delaware	1,084	726	24	172	13	70	6	73
New Jersey	11,910	8,241	256	1,601	266	254	79	1,213
District of Columbia	578	384	28	121	17	13	0	15
Great Lakes--Total . .	<u>55,437</u>	<u>36,084</u>	<u>1,327</u>	<u>10,540</u>	<u>632</u>	<u>2,434</u>	<u>50</u>	<u>4,370</u>
Illinois	15,825	10,033	300	2,756	265	581	16	1,874
Indiana	5,408	3,544	201	1,062	26	322	8	245
Minnesota	8,901	5,837	142	1,333	191	238	8	1,152
Michigan	8,511	5,702	206	1,830	57	412	7	297
North Dakota	921	573	25	199	3	115	0	16
Ohio	10,897	7,283	287	2,229	67	531	5	495
South Dakota	946	582	26	245	1	56	1	35
Wisconsin	4,028	2,530	140	896	22	179	5	256
Central--total	<u>22,554</u>	<u>16,344</u>	<u>453</u>	<u>3,873</u>	<u>156</u>	<u>805</u>	<u>15</u>	<u>908</u>
Kansas	6,653	4,808	115	1,141	37	268	5	279
Iowa	3,046	2,079	91	669	13	123	0	71
Missouri	10,889	8,188	173	1,609	104	295	5	515
Nebraska	1,966	1,269	74	454	2	119	5	43

TABLE 14 (Continued)

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

DECEMBER 31, 1983 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Navigator	Flight Engineer
Southern--total	70,012	43,957	1,836	10,491	1,375	4,517	271	7,565
North Carolina	5,414	3,086	385	1,005	68	550	12	308
South Carolina	2,315	1,208	95	509	10	336	6	151
Georgia	13,760	8,493	295	1,495	218	561	15	2,683
Florida	33,411	21,817	527	4,747	856	1,618	217	3,629
Mississippi	1,847	1,048	50	426	6	226	5	86
Alabama	6,378	4,371	143	985	105	659	6	109
Tennessee	4,843	2,741	175	907	102	402	8	508
Kentucky	2,044	1,193	166	417	10	165	2	91
Southwest--total	54,316	35,829	1,109	9,117	508	2,843	89	4,821
Louisiana	4,906	3,279	106	816	28	343	4	330
Oklahoma	11,997	9,329	197	1,728	35	455	9	244
Texas	33,011	20,582	654	5,546	425	1,649	69	4,086
New Mexico	2,158	1,240	84	512	12	228	4	78
Arkansas	2,244	1,399	68	515	8	168	3	83
Western-Pacific--total	83,858	57,620	1,642	11,677	1,282	3,077	519	8,041
Hawaii	3,099	2,176	56	315	133	242	15	162
California	70,676	49,071	1,337	9,566	1,056	2,196	423	7,027
Arizona	7,589	5,175	196	1,297	72	394	18	437
Nevada	2,494	1,198	53	499	21	245	63	415
Northwest-Mountain--total	34,167	20,985	1,316	5,644	421	1,585	156	4,060
Washington	13,383	8,397	358	1,845	195	645	77	1,866
Oregon	3,944	2,636	238	702	28	156	31	153
Idaho	1,829	1,146	155	328	9	124	3	64
Colorado	9,696	5,632	169	1,734	165	379	30	1,587
Wyoming	1,003	659	33	204	9	41	5	52
Utah	2,344	1,405	85	400	12	158	5	279
Montana	1,968	1,110	278	431	3	82	5	59
Alaskan Region--total . . .	4,566	2,928	153	765	147	292	5	276
Outside U.S.--total	17,017	11,325	143	1,288	1,662	147	91	2,361
U.S. Territories--Total 2/	1,424	1,068	36	158	52	40	0	70
Puerto Rico	1,122	885	13	117	40	24	0	43
Virgin Island	127	80	3	22	4	11	0	7
American Samoa	7	3	0	2	0	2	0	0
Canal Zone	39	16	18	3	2	0	0	0
Guam	119	74	2	14	6	3	0	20
Wake Island	10	10	0	0	0	0	0	0

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

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 retain their validity.

2/ Includes Outside U.S.

3/ U.S. territories are included in Outside U.S. total.

TABLE 15
ESTIMATED ACTIVE WOMEN NONPILOT CERTIFICATES HELD, BY FAA REGION AND STATE:

DECEMBER 31, 1963 1/

FAA Region and State	Total	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Engineer
Total 2/	<u>7,670</u>	<u>1,493</u>	<u>603</u>	<u>3,354</u>	<u>249</u>	<u>1,319</u>	<u>248</u>
United States--Total	<u>7,602</u>	<u>1,485</u>	<u>600</u>	<u>3,320</u>	<u>235</u>	<u>1,314</u>	<u>247</u>
New England--Total . .	<u>339</u>	<u>57</u>	<u>28</u>	<u>172</u>	<u>4</u>	<u>62</u>	<u>16</u>
Maine	45	6	4	20	0	15	0
New Hampshire	38	5	1	16	0	11	5
Rhode Island	24	1	12	9	0	2	0
Massachusetts	138	22	7	77	0	28	4
Connecticut	82	22	3	40	4	6	7
Vermont	12	1	1	10	0	0	0
Eastern--Total	<u>1,083</u>	<u>140</u>	<u>81</u>	<u>492</u>	<u>62</u>	<u>286</u>	<u>22</u>
New York	432	59	16	167	43	142	5
Pennsylvania	219	30	18	117	7	42	5
Virginia	134	12	33	58	2	45	4
Maryland	87	7	5	48	2	22	3
West Virginia	23	8	0	10	1	4	0
Delaware	25	4	1	10	1	9	0
New Jersey	126	20	7	72	5	19	3
District of Columbia	17	0	1	10	1	3	2
Great Lakes--Total . .	<u>1,134</u>	<u>264</u>	<u>63</u>	<u>590</u>	<u>34</u>	<u>146</u>	<u>37</u>
Illinois	309	74	14	162	12	35	12
Indiana	105	11	20	49	1	17	7
Minnesota	119	32	6	52	11	10	8
Michigan	186	37	5	109	4	29	2
North Dakota	20	2	0	6	1	11	0
Ohio	283	94	13	135	4	31	6
South Dakota	31	2	0	24		5	0
Wisconsin	81	12	5	53	1	8	2
Central--Total	<u>351</u>	<u>95</u>	<u>24</u>	<u>186</u>	<u>1</u>	<u>42</u>	<u>3</u>
Kansas	114	34	7	56	0	16	1
Iowa	72	22	3	43	1	3	0
Missouri	130	36	11	65	0	17	1
Nebraska	35	3	3	22	0	6	1

TABLE 15 (Continued)

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

DECEMBER 31, 1983 1/

FAA Region and State	Total	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Control Tower Operator	Flight Engineer
Southern--Total	1,380	208	137	620	46	320	49
North Carolina	152	15	39	65	1	30	2
South Carolina	53	2	5	26	1	18	1
Georgia	129	15	8	65	2	26	13
Florida	597	127	24	271	34	123	18
Mississippi	48	5	5	27	0	11	0
Alabama	189	16	6	96	1	67	3
Tennessee	148	13	36	49	6	34	10
Kentucky	64	15	14	21	1	11	2
Southwest--Total	1,071	211	128	501	14	196	21
Louisiana	102	25	2	47	0	26	2
Oklahoma	218	53	19	104	2	37	3
Texas	635	121	89	291	12	107	15
New Mexico	79	9	15	37	0	17	1
Arkansas	37	3	3	22	0	9	0
Western-Pacific--Total.	1,462	340	83	616	46	314	62
Hawaii	66	6	0	24	8	26	2
California 3/	1,199	299	66	498	38	246	51
Arizona	148	30	12	76	0	27	3
Nevada	49	5	5	18	0	15	6
Northwest-Mountain--Total	651	152	44	299	8	115	33
Washington	233	69	7	82	3	52	20
Oregon	85	14	13	46	0	12	0
Idaho	39	6	2	19	1	11	0
Colorado	195	48	7	100	3	27	10
Wyoming	19	3	2	11	1	2	0
Utah	45	9	6	18	0	9	3
Montana	35	3	7	23	0	2	0
Alaskan Region--Total .	131	18	12	44	20	33	4
Outside U.S.--Total 3/.	68	8	5	34	14	5	1
U.S. Territories--Total 4/	7	3	0	3	0	1	0
Puerto Rico	5	3	0	2	0	0	0
Virgin Island	2	0	0	1	0	1	0

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

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 Outside U.S.

3/ Includes one woman from California and Outside U.S. with a current certificate for flight navigator.

4/ U.S. Territories are included in Outside of U.S. total.

III. PILOT CERTIFICATES ISSUED

TABLE 16

PILOT CERTIFICATES ISSUED, BY CATEGORY: CALENDAR YEARS 1979-1983

Category of Certificates	1979		1980		1981		1982		1983	
	Original	Additional	Original	Additional	Original	Additional	Original	Additional	Original	Additional
Pilot--Total	207,360	41,331	180,742	38,791	177,861	33,532	163,733	36,699	150,368	30,898
Student	128,749	0	107,808	0	111,531	0	90,816	0	92,188	0
Private	54,466	16,466	50,458	16,035	45,713	14,897	52,144	16,276	41,210	12,721
Commercial	12,627	17,793	12,652	16,015	10,657	12,146	11,048	11,910	8,789	9,513
Airline transport	8,981	6,603	7,116	6,289	4,763	5,991	5,037	7,956	5,643	8,187
Helicopter (only)	1,300	283	1,721	272	1,985	302	2,256	330	1,932	315
Glider (only)	642	157	583	151	629	164	793	184	606	162
Lighter-than-air	595	29	604	29	2,583	32	1,639	43	---	---
Nonpilot--Total	17,895	7,129	17,280	7,275	18,498	7,263	21,016	8,655	17,932	7,378
Mechanic	9,697	3,812	11,640	4,254	13,673	4,790	15,622	5,636	11,676	4,470
Parachute rigger	201	45	185	50	232	17	215	31	214	13
Ground instructor	2,081	513	1,981	570	1,861	384	1,882	383	1,524	371
Dispatcher	292	0	351	0	302	1	499	1	632	1
Control tower operator	1,109	2,483	1,179	2,286	1,186	1,897	1,550	2,388	2,230	1,958
Flight navigator	2	0	9	0	8	0	3	0	15	2
Flight engineer	4,513	276	1,935	115	1,236	174	1,245	216	1,641	563
Flight instructor certificates 2/	6,716	6,072	7,188	6,953	6,461	8,767	6,228	10,397	4,614	7,698
Instrument ratings*	0	16,651	0	16,123	0	14,219	0	14,517	0	11,078

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 represented above; not to be added to total.

2/ Not included in total.

3/ Six month total.

TABLE 17

PILOT CERTIFICATES ISSUED, BY CATEGORY AND CONDUCTOR: December 31, 1983

Category of Certificates	Total Ratings Issued	Original Issuances			Additional Ratings				
		Total	Examiner	Inspector	No Test	Total	Examiner	Inspector	No Test
Total	206,576	168,300	59,238	95,844	13,111	38,276	29,036	5,690	3,550
Pilot--Total	181,266	150,368	46,657	95,229	8,482	30,898	22,752	5,619	2,527
Student	92,188	92,188	0	92,188	0	0	0	0	0
Private	53,931	41,210	37,212	231	3,767	12,721	11,961	161	599
Commercial	18,302	8,789	6,213	195	2,381	9,513	7,685	352	1,476
Airline transport	13,830	5,643	2,155	2,426	1,062	8,187	2,819	4,992	376
Helicopter (only)	2,247	1,932	526	159	1,247	315	137	105	73
Glider (only)	768	606	551	30	25	162	150	9	3
Nonpilot--Total	25,310	17,932	12,581	722	4,629	7,378	6,284	71	1,023
Mechanic	16,146	11,676	9,235	22	2,419	4,470	4,225	5	240
Parachute rigger	227	214	105	32	77	13	7	1	5
Ground instructor	1,895	1,524	110	2	1,412	371	34	2	335
Dispatcher	633	632	251	201	180	1	1	0	0
Control tower operator	4,188	2,230	2,141	1	88	1,958	1,884	2	72
Flight navigator	17	15	1	4	10	2	0	0	2
Flight engineer	2,204	1,641	738	460	443	563	133	61	369
Flight instructor*	12,312	4,614	4,404	192	18	7,698	7,192	497	9

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: 1983, 1982, 1979

Class of Certificates	1983	1982	1979	Percent Change 1983-1982
Total--All Groups	<u>11,078</u>	<u>14,517</u>	<u>16,651</u>	<u>-24</u>
Private Pilots--Total	<u>7,034</u>	<u>9,646</u>	<u>10,311</u>	<u>-27</u>
Private airplane (only)	6,549	8,902	9,584	-26
Private airplane, private glider	92	100	128	-8
Private airplane, commercial glider	5	6	6	-17
Private airplane, private helicopter	20	18	20	11
Private airplane, commercial helicopter	149	217	220	-31
Private airplane, private glider, private helicopter	1	1	0	---
Private airplane, other	218	402	353	-46
Commercial Pilots--Total	<u>2,956</u>	<u>3,493</u>	<u>5,602</u>	<u>-15</u>
Commercial airplane (only)	2,376	2,751	4,646	-14
Commercial airplane, private glider	23	29	70	-21
Commercial airplane, commercial glider	36	44	98	-19
Commercial airplane, private helicopter	5	1	2	400
Commercial airplane, commercial helicopter	495	646	753	-23
Commercial airplane, private glider, commercial helicopter	4	10	4	-60
Commercial airplane, commercial glider, commercial helicopter	14	11	23	-27
Commercial airplane, other	3	1	6	200
Rotorcraft Pilots--Total	<u>1,088</u>	<u>1,378</u>	<u>738</u>	<u>-21</u>
Commercial helicopter	1,085	1,365	710	-21
Commercial helicopter, acrlne transport helicopter	0	13	21	---
Commercial helicopter, private glider	0	0	4	---
Commercial helicopter, commercial glider	1	0	3	100
Commercial helicopter, other	2	0	0	200

TABLE 19
STUDENT CERTIFICATES ISSUED, BY MONTH: 1979-1983

Month	1983	1982	1981	1980	1979
Total	92,188	90,816	111,531	107,808	128,749
January	6,511	6,306	8,377	8,061	8,668
February	6,146	6,208	7,763	7,783	7,570
March	7,724	7,600	9,318	7,970	10,474
April	6,737	7,081	9,119	8,481	10,094
May	7,650	7,559	8,797	8,425	11,640
June	9,344	8,997	11,330	9,854	13,158
July	9,253	9,143	12,057	11,340	13,801
August	10,426	8,781	11,041	10,353	13,819
September	8,971	8,532	10,120	10,695	11,542
October	8,040	7,978	9,287	10,071	12,110
November	6,494 (P)	7,165	7,812	7,723	9,040
December	4,892 (P)	5,466	6,510	7,052	6,833

P/ Preliminary

~~U.S. GOVERNMENT PRINTING OFFICE: 1981-10-428-1-20~~

END

Dtlic

5-86