

AC 8500-1

1981

AEROMEDICAL CERTIFICATION

STATISTICAL HANDBOOK



**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
MIKE MONRONEY AERONAUTICAL CENTER
CIVIL AEROMEDICAL INSTITUTE
AEROMEDICAL CERTIFICATION BRANCH
Medical Statistical Section**



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SYMBOLS

Category not applicable.....	N/A
Data not available.....	---
Quantity zero.....	-
Quantity more than 0 but less than 0.05	0.0
More than.....	>
Less than	<

FOR ADDITIONAL INFORMATION ON DATA PRESENTED, please refer to the footnotes provided on the table or chart, or contact the office indicated in the source note.

SECTION I

AVIATION MEDICAL EXAMINER INFORMATION

This section reflects the activities of the Aviation Medical Examiner Program during calendar year 1981 with some comparative data for previous years.

An Aviation Medical Examiner (AME) is a physician authorized by the Federal Aviation Administration (FAA) to perform airman physical examinations for issuance of FAA medical certificates. These physicians are designated according to the geographical distribution of airmen. There are also military facilities (installations) designated to perform FAA airman examinations of military personnel for issuance of second and third class certificates. A facility or installation, instead of an individual, is designated in this instance due to frequent rotation of military medical officers.

Aviation Medical Examiner seminars are held in each region and at Oklahoma City's Aeronautical Center to acquaint these physicians with the regulations and procedures governing the issuance of FAA medical certificates.

Table I.A

DESIGNATED FAA AVIATION MEDICAL EXAMINERS BY REGION

1979-1981

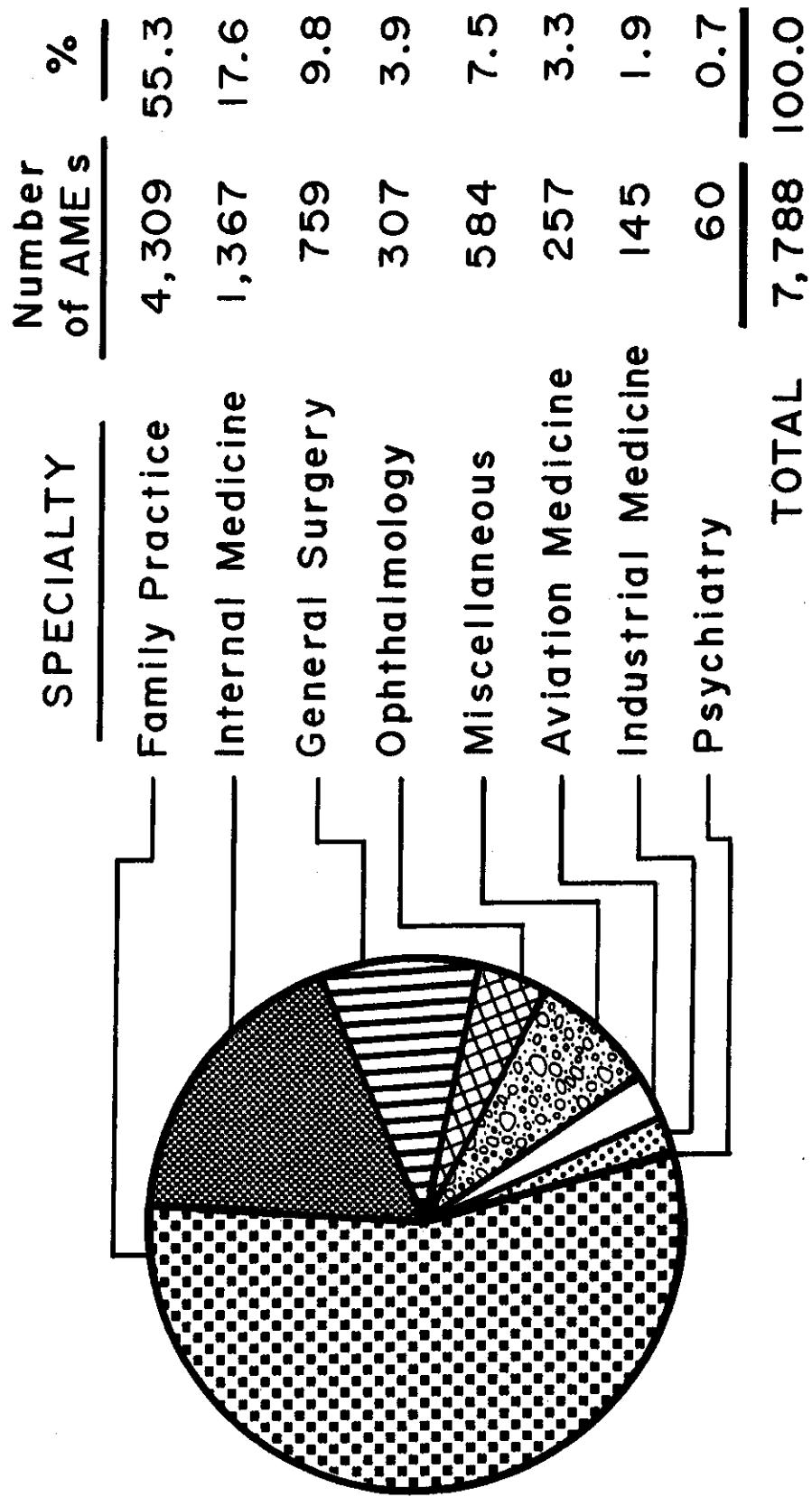
Region	Percent of 1981 Total*	Aviation Medical Examiners		
		1981	1980	1979
Eastern	11.6	959	952	937
Central	8.9	740	745	728
Southern	16.2	1,345	1,336	1,315
Southwest	11.8	980	956	941
Western	9.2	767	778	807
Rocky Mountain	5.8	482	486	511
Northwest	6.5	543	536	514
New England	3.1	251	252	259
Great Lakes	15.4	1,279	1,293	1,244
Alaskan	1.1	90	84	84
Pacific	0.5	45	45	43
SUBTOTAL	90.1	7,481	7,463	7,383
Military**	6.2	514	493	489
International	3.7	307	309	333
TOTAL	100.0	8,302	8,265	8,205

* The basis for percentage computations is total designations as of the end of calendar year 1981, i.e., U.S. and International designations represent one physician for each designation; whereas, Military designations represent one facility for each designation.

**Denotes military installation designations rather than individual physicians.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section; RIS: AC 8500-2, AME Worklist by State (Designated FAA Aviation Medical Examiners by Region and State).

Figure I.B
MEDICAL PRACTICE OF AVIATION MEDICAL EXAMINERS*
1981



*BASED ON UNITED STATES AND INTERNATIONAL AVIATION MEDICAL EXAMINERS; MILITARY NOT INCLUDED.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section; RIS: AC 8520-5, AME Specialty Summary by State.

Table I.C.

**REGIONAL COVERAGE OF AVIATION MEDICAL
EXAMINERS VERSUS CIVIL AIRMEN
1981**

<u>Region</u>	<u>Active U.S. Civil Airman Population*</u>	<u>U.S. Non- Military AME Population**</u>	<u>Ratio AMEs To Airmen</u>
Eastern	83,659	959	1:87
Central	43,283	740	1:58
Southern	103,613	1,345	1:77
Southwest	89,850	980	1:92
Western	119,999	767	1:156
Rocky Mountain	36,222	482	1:75
Northwest	40,180	543	1:74
New England	30,089	251	1:120
Great Lakes	118,270	1,279	1:92
Alaskan	9,531	90	1:106
Pacific	2,473	45	1:55
TOTAL	677,169	7,481	1:91

* Active U.S. Civil Airman Population figures are as of December 31, 1981; RIS: AC 8065-4, Examination Time Period Summary. Military and International not included.

** U.S. Non-Military AME Population figures are as of January 15, 1982; RIS: AC 8520-2, AME Worklist by State (Designated FAA Aviation Medical Examiners by Region and State). Military and International not included.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section; and Aeromedical Certification Branch, Medical Statistical Section.

Table I.D.

**AVIATION MEDICAL EXAMINER SEMINARS
DATE, LOCATION, AND ATTENDANCE**

1981

Date	Location	Attendance
January 30 - February 1	Oakland, California	159
February 20 - 22	Mobile, Alabama	108
March 27 - 29	Albuquerque, New Mexico	147
April 5 - 10	Oklahoma City, Oklahoma	79
May 4 - 7	Aerospace - San Antonio, Texas	139
May 22 - 24	Kansas City, Missouri	125
June 26 - 28	Columbus, Ohio	150
July 10 - 12	Spokane, Washington	121
July 24 - 26	St. Paul, Minnesota	121
August 7 - 9	Philadelphia, Pennsylvania	Cancelled*
August 21 - 23	Dallas, Texas	Cancelled*
September 4 - 6	Denver, Colorado	Cancelled*
September 13 - 18	Oklahoma City, Oklahoma	42
October 23 - 25	Miami Beach, Florida	91
November 20 - 22	Chicago, Illinois	106
December 4 - 6	Oakland, California	89
TOTAL		1,477

* Cancellations due to Air Traffic Controllers' strike.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section.

Table I.E.

**AVIATION MEDICAL EXAMINER
SEMINARS AND ATTENDANCE
1960-1981**

Date	Seminar	Attendance
1960	1	49
1961	16	1,031
1962	24	1,431
1963	13	1,153
1964	9	1,406
1965	10	1,596
1966	7	1,187
1967	11	1,281
1968	5	545
1969	7	970
1970	5	750
1971	10	1,521
1972	5	873
1973	4	806
1974	8	1,498
1975	13	1,633
1976	15	1,871
1977	12	1,309
1978	14	1,439
1979	16	1,733
1980	15	2,012
1981	13	1,477
TOTAL	233	27,571

Source: Civil Aeromedical Institute, Aeromedical Education Branch,
Aviation Medical Examiner Section.

Table I.F

ACTIVE AVIATION MEDICAL EXAMINERS
SEMINAR ATTENDANCE BY REGION*
1981

<u>Region</u>	Total AMEs	One Seminar	At Least Four Seminars	No Participation At Seminars
Eastern	959	240	668	80
Central	740	242	444	57
Southern	1,345	440	828	113
Southwest	980	247	678	71
Western	767	126	631	15
Rocky Mountain	482	158	310	21
Northwest	543	187	321	39
New England	251	77	159	19
Great Lakes	1,279	392	856	54
Alaskan	90	26	61	5
Pacific	45	19	22	5
International	307	59	62	193
TOTAL	7,788	2,213**	5,040**	672**
Percent of Total	100.0	27.9	63.6	8.5

* Training data are obtained from computer listings of non-military aviation medical examiners.

** There are 137 AMEs (FAAFS, FAA personnel, private industry, etc.) reported in these figures that are not counted in the total AME data by region; therefore, these figures do not sum to the (total AMEs) figure.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section; RIS: AC 8520-6, AME Training Summary Report.

Table I.G

AVIATION MEDICAL EXAMINER SUMMARY DATA*
1981

A.	Number of Designated U.S. Non-Military Aviation Medical Examiners	7,481
B.	Number of Designated International Aviation Medical Examiners	307
C.	Number of Designated Military Aviation Medical Examiners (Installations)	514
D.	Ratio of U.S. Non-Military Aviation Medical Examiners to U.S. Civil Airmen	1:91
E.	Percentage of Non-Military Aviation Medical Examiners Who Are Qualified Pilots	46.9*
F.	Percentage of Aviation Medical Examiners Who Were Military Flight Surgeons	19%*
G.	Percentage of Non-Military Aviation Medical Examiners Who Participate in Accident Investigation	78.5%*
H.	Percentage of Non-Military Aviation Medical Examiners Who Have Attended One Seminar	27.9%
I.	Percentage of Non-Military Aviation Medical Examiners Who Have Attended At Least Four Seminars	63.6%
J.	Percentage of Non-Military Aviation Medical Examiners Who Have Not Attended A Seminar	8.5%
K.	Total Number of Seminars Conducted in 1981**	13
L.	Total Attendance of Aviation Medical Examiners at Seminars Conducted in 1981	1,477

* An aviation medical examiner may have been classified in more than one of these categories.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section.

** Three seminars cancelled due to Air Traffic Controllers' strike.

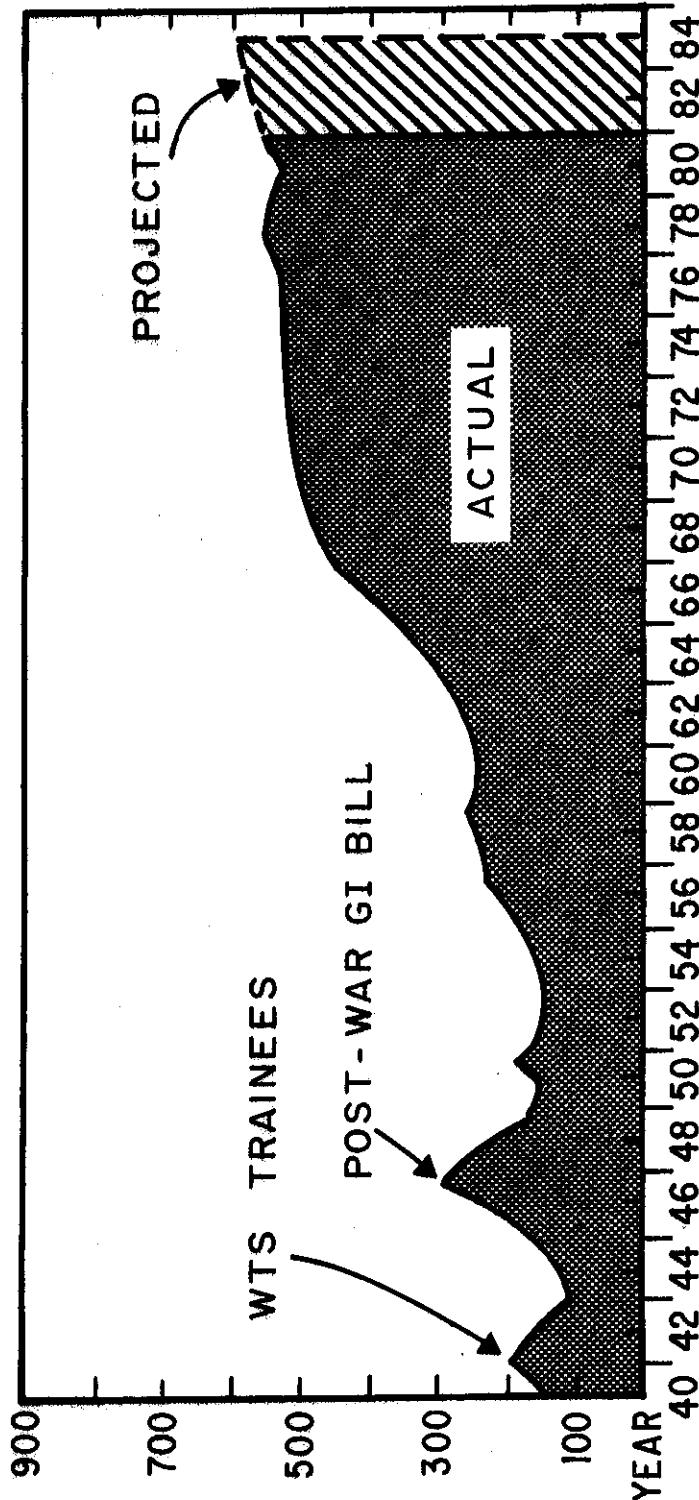
SECTION II

CERTIFICATION ACTIVITY

The Aeromedical Certification Branch is the central screening facility and repository within the Federal Aviation Administration for collection, investigation, adjudication, and analysis of medical data.

Activities of the Aeromedical Certification Branch are presented in this section. Data are presented by calendar year and reflect workload in the certification area.

**AIRMAN APPLICATIONS FOR MEDICAL CERTIFICATION
1940-1981 Projected to 1984 ***



CALENDAR YEAR										
Year	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Applications	134.4	172.2	161.6	102.7	113.8	154.6	202.1	289.6	233.4	162.5
Percentage*	+83.5	+28.2	-6.2	-36.4	+10.8	+35.8	+30.7	+43.3	-19.4	-30.4
Year	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Applications	168.6	181.7	229.6	217.9	255.6	237.5	237.3	254.1	271.8	294.7
Percentage*	+5.0	+7.8	+26.3	-5.1	+17.3	-7.1	-0.1	+7.1	+6.9	+8.5
Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Applications	487.7	493.1	494.7	521.7	515.4	519.2	542.1	550.2	565.5	550.2
Percentage*	+1.9	+1.1	+0.3	+5.5	-1.2	+0.7	+4.4	+1.5	+2.8	-2.7

*Percentage of increase or decrease over previous year. Projected receipts based on 4% increase each calendar year.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section.

Table II.B

RECEIPTS OF MEDICAL CERTIFICATE
APPLICATIONS BY CLASS*
1960-1981

Calendar Year	Total	First Class	Percent of Total	Second Class	Percent of Total	Third Class	Percent of Total
1960	237,509	33,964	14.3	84,715	35.7	118,830	50.0
1961	237,311	33,936	14.3	84,644	35.7	118,731	50.0
1962	254,142	36,342	14.3	90,647	35.7	127,153	50.0
1963	271,764	38,862	14.3	96,933	35.7	135,969	50.0
1964	294,734	42,147	14.3	105,126	35.7	147,461	50.0
1965	330,617	52,006	15.7	109,600	33.2	169,011	51.1
1966	387,537	73,903	19.1	124,593	32.1	189,041	48.8
1967	427,596	80,474	18.8	143,458	33.6	203,664	47.6
1968	465,929	87,408	18.8	173,139	37.2	205,382	44.0
1969	478,700	90,666	18.9	178,699	37.3	209,335	43.8
1970	487,700	94,419	19.4	189,276	38.8	204,005	41.8
1971	493,145	91,478	18.5	204,853	41.5	196,814	40.0
1972	494,700	86,573	17.5	205,597	41.6	202,530	40.9
1973	521,700	93,384	17.9	220,679	42.3	207,637	39.8
1974	515,400	91,741	17.8	214,922	41.7	208,737	40.5
1975	519,200	91,379	17.6	224,814	43.3	203,007	39.1
1976	542,159	93,793	17.3	230,418	42.5	217,948	40.2
1977	550,243	97,393	17.7	230,552	41.9	222,298	40.4
1978	565,534	105,755	18.7	228,476	40.4	231,303	40.9
1979	550,188	111,138	20.2	212,373	38.6	226,677	41.2
1980	529,051	118,507	22.4	197,865	37.4	212,679	40.2
1981	529,418	128,649	24.3	183,708	34.7	217,061	41.0

* Class distributions for 1960 through 1964 were compiled by applying percentages based on the 1964 computer count to actual applications received per year. The 1965 class distributions were achieved by applying percentages based on card counts of applications performed during 1965 to the total receipts for the year. Class distributions for 1966 through 1981 were based on percentages compiled from the Record of Physical Examinations Computer Submission Summary, AC 8500-3.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-3, Record of Physical Examinations Computer Submission Summary Report.

Table II.C

MEDICAL APPLICATIONS PROCESSING BY THE
AEROMEDICAL CERTIFICATION BRANCH
1981

Month	Applications Received	Applications Coded for Computer Screening	Applications Screened by Computer*	Applications Requiring Manual Review**	Applications Intra-Agency Transmitted***
January	44,854	42,254	43,777	21,890	363
February	38,896	36,996	43,113	21,557	365
March	41,232	46,232	41,199	20,600	313
April	56,697	51,197	40,242	20,242	310
May	42,932	41,732	39,951	20,175	243
May	51,031	48,531	41,777	20,888	274
SUBTOTAL	275,642	256,942	250,059	125,352	1,868
July	39,663	42,263	36,926	18,648	220
August	51,948	36,248	33,390	16,695	299
September	45,890	43,290	48,254	24,125	308
October	39,566	38,066	58,268	29,250	308
November	31,958	45,458	55,255	27,738	333
December	44,751	42,251	54,825	27,630	318
SUBTOTAL	253,776	247,576	286,918	144,086	1,786
TOTAL	529,418	514,518	536,977	269,438	3,654

*Figures reflect the number of submissions to the computer rather than the number of applications because an application may have to be submitted to the computer more than once before it is accepted.

**Total applications rejected for any reason is presently 50% of applications screened by computer.

***Figures include applications transmitted to the regions and to the Federal Air Surgeon for certification or review. Represents 0.7% of the applications received.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8065-3, Aeromedical Certification Processing Summary.

Table II.D

AEROMEDICAL CERTIFICATION BRANCH
CORRESPONDENCE SECTION ACTIVITY
1981

Activity	Frequency	Subtotal	Percent of Total
<u>Certification</u>			
Issued and Corrected Certificates	7,826		
Eligibility Letters	24,773		
Issued or Duplicate Waivers	8,424		
		41,023	42.9
<u>Further Action Necessary</u>			
Information Requested	36,725		
Medical Flight Test Authorization	4,699		
Case Summary for the Federal Air Surgeon	590		
		42,014	44.0
<u>Telegram Replies to Airmen/Agency Offices</u>			
	635		
		635	0.7
<u>Denial Letters</u>			
Mandatory Denials	484		
Other Denials	3,356		
		3,840	4.0
<u>Miscellaneous Correspondence*</u>			
	8,050		
		8,050	8.4
TOTAL		95,562	100.0

* Includes refund letters, charge letters, second request letters, requests for return of medical certificate, replies to airmen and physicians inquiries, and other miscellaneous letters.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Correspondence Section;
RIS: AC 8065-3, Aeromedical Certification Processing Summary.

TABLE II.E
AEROMEDICAL CERTIFICATION BRANCH COMPUTER TAPE FILE SUMMARY
As of: December 31, 1981

Action	<7 Month	<13 Month	<25 Month	Time Lapse Since Last Examination	Subtotal	25-36 Month	Over 36 Month	Total
<u>Certified</u>								
First Class	57,198	32,224	16,756	105,987	9,530	N/A	N/A	115,517
Second Class	78,769	79,618	253,611	70,560	N/A	N/A	N/A	324,171
Third Class	1,912	9,922	153,584	399,518	119,779	N/A	N/A	519,297
SUBTOTAL	245,979	207,764	305,373	759,116	199,869	N/A	N/A	958,985
<u>Non-Certified</u>								
Pending	1,706	779	1,228	3,713	949	N/A	N/A	4,662
Denied	1,916	2,250	4,985	9,151	5,072	N/A	N/A	14,223
SUBTOTAL	3,622	3,029	6,213	12,864	6,021	N/A	N/A	18,885
<u>LINK*</u>	N/A	N/A	N/A	N/A	N/A	326,100	326,100	326,100
TOTAL	249,601	210,793	311,586	771,980	205,890	326,100	1,303,970	
EFFECTIVE STATUS TOTAL:				<u>CLASS 1</u> = 57,198	<u>CLASS 2</u> = 190,611			<u>CLASS 3</u> = 511,307

*Abbreviated records maintained on individuals having significant pathology who have not had a physical examination in the past 36 months. These people may or may not have been certified.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section.

Table II.F

**MEDICAL CERTIFICATION ACTIVITY SUMMARY
1979-1981**

Activity	CY 1981	CY 1980	CY 1979
Applications for Medical Certification	529,418	529,051	550,188
New Applications for First Class Medical Certificates*	-	3,931	4,426
New Applications for Second Class Medical Certificates*	-	15,155	17,931
New Applications for Third Class Medical Certificates*	-	78,296	92,529
First Class Combined Student/Medical Certificates	3,909	4,183	4,429
Second Class Combined Student/Medical Certificates	15,391	16,990	21,756
Third Class Combined Student/Medical Certificates	147,279	147,099	174,062
Electrocardiograms Received for First Class Pilots	43,253	43,670	44,088
Incoming Correspondence**	79,030	90,602	89,085
Outgoing Correspondence	95,562	120,582	122,932
Applications Containing Medical or Clerical Problems	269,438	252,418	300,728
Number of Abnormalities Detected in Electrocardiograms***	8,651	8,724	4,739
Number of First Class Active Airmen with Pathology Records	20,354	20,308	19,202
Number of Second Class Active Airmen with Pathology Records	56,330	62,141	64,056
Number of Third Class Active Airmen with Pathology Records	59,742	57,961	60,823

*An application receipt is considered a "new application" if the airman has made no indication of previous FAA physical examination and if total flying time equals last six months flying time. Of examinations performed in 1980, 1,804 or 1.8% new applications were denied, 553 or 0.6% were pending, and 95,025 or 97.6% were issued for a total of 114,886 new applications.

Table II.F (Continued)

MEDICAL CERTIFICATION ACTIVITY SUMMARY
1979-1981

The "Record of Physical Examinations Computer Submissions Summary Report," AC 8500-3, was modified during 1969 to reflect the final certification action for each application performed during the previous year. The report is produced in August of each year and reflects data for the previous year.

** Includes information requested by the Aeromedical Certification Branch and inquiries from airmen or regional offices.

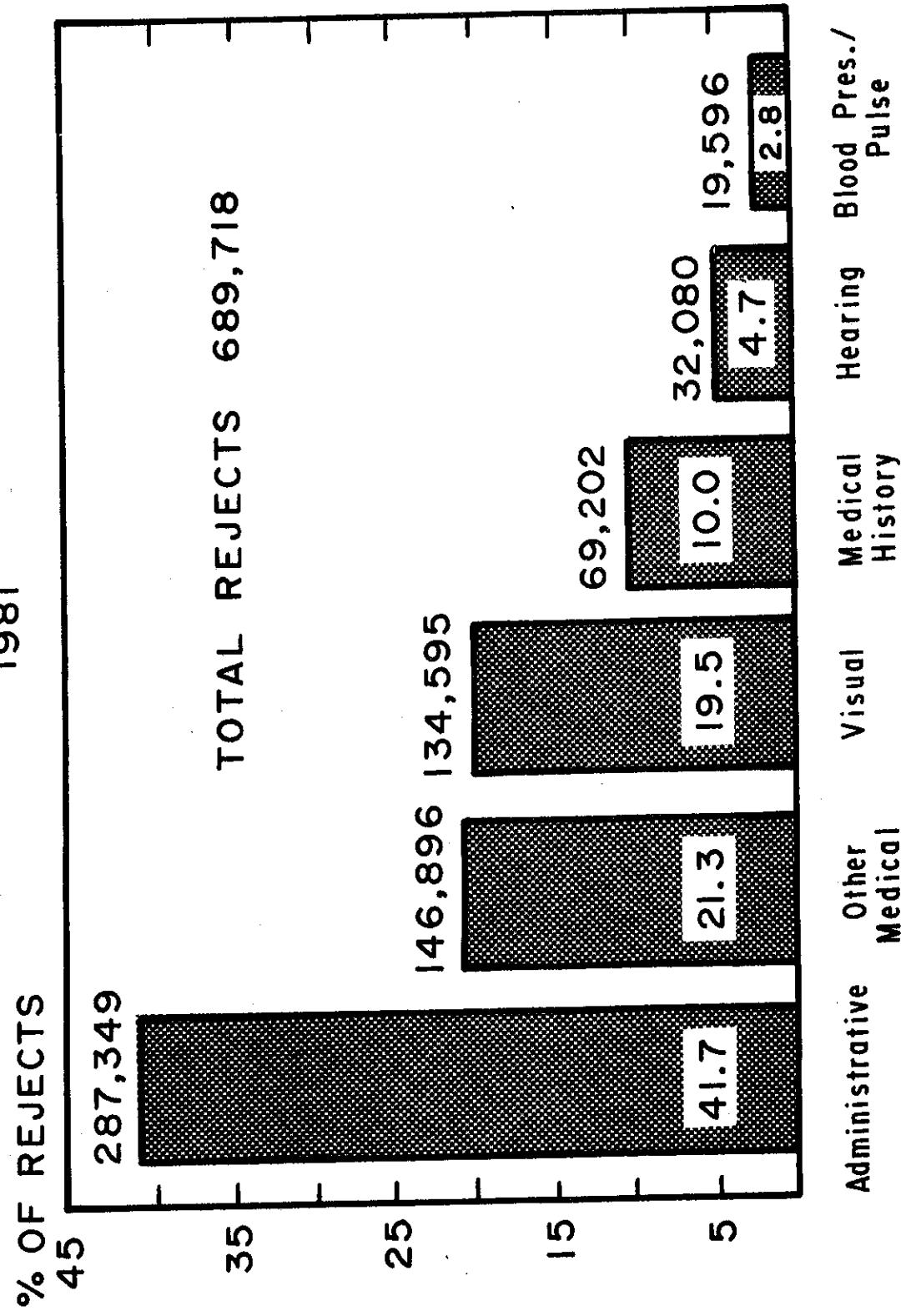
*** Increase due to more efficient detection of these abnormalities by an EKG technician working closely with AAC-130 EKG personnel and doctors.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, 8500-3, and 8065-3.

SECTION III
REFERRALS AND DENIALS

This section is concerned with those applications for medical certification which require manual review and those applications denied medical certification. These data are presented by calendar year and reflect the number of rejects, either medical or administrative, generated when the application enters the automated system. Also included are data reflecting the number of cases considered at the appellate levels, by the Federal Air Surgeon or the Federal Aviation Administration.

Figure III.A
DISTRIBUTION OF CAUSES FOR REVIEW BY MAJOR CATEGORY
1981



Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-3, Aeromedical Certification Processing Summary.

Table III.B

DISTRIBUTION OF CAUSES FOR REVIEW BY MAJOR AND MINOR CATEGORIES
1981

<u>Reject</u>	<u>Major Category</u>	<u>Totals</u>	<u>Percent</u>	<u>Minor Categories</u>	<u>Percent</u>
<u>Administrative</u>		287,349	41.7		
AME Number Rejects				16,369	2.4
No Ticket Flag Set				58,741	8.5
Previous Exam Has No Ticket Flag				2,763	0.4
Previous Pending				523	0.1
Clerical Reject				12,853	1.9
Class Issued Higher Than Applied For				5,534	0.8
Airman Over 80 Years of Age				316	0.0+
First Class Over 60 Years of Age				2,282	0.3
Waiver Rejects				11,455	1.7
Re-Submit Exam to Computer				4,147	0.6
Date of ECG Rejects				18,313	2.7
No Match Between New and Previous Exams				7,199	1.0
Discrepancy in Name/DOB				23,822	3.4
Student/Medical Age Less than 16				524	0.1
Discrepancy in Social Security Number				25,407	3.7
Other*				97,101	14.1
<u>Visual</u>		134,595	19.5		
Distant Vision				31,100	4.5
Near Vision				19,899	2.9
Intraocular Tension				8,108	1.2
Field of Vision				3,946	0.6
Color Vision				6,650	1.0
Variation in Distant Vision				27,359	4.0
Esophoria and Exophoria				18,737	2.7
Right or Left Hyperphoria				18,796	2.7
<u>Other Medical Conditions</u>		146,896	21.3		
Denied or Pending - Current Exam				14,460	2.1
Urinalysis				9,241	1.3
Pathology Codes				41,667	6.1
Abnormalities (Items 25-48)				18,870	2.7
Medication				35,190	5.1
Restrictions				27,468	4.0
<u>Medical History</u>		69,202	10.0		
Special Case				581	0.1
Medical History				55,386	8.0
Previous Exam on Tape Denied				2,267	0.3
Previous Exemption Case				1,200	0.2
Input Exemption Case				841	0.1
Follow-up Material Requested				6,694	1.0
Current Information with Previous Record				1,482	0.2
Previous Exam Sent to Washington or Region				751	0.1
<u>Hearing</u>		32,080	4.7		
Hearing				32,080	4.7
<u>Blood Pressure/Pulse</u>		19,596	2.8		
Blood Pressure				11,388	1.6
Pulse				8,208	1.2
TOTAL REJECT MESSAGES		689,718	100.0		

*Rejects resulting from validity checks against established edit criteria for height, weight, and address; rejects for certificates not issued due to class, no ticket flag, or bad address; and Pathology Number assigned rejects.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8065-3, Aeromedical Certification Processing Summary.

Table III.C

APPEALS CONSIDERED BY
THE FEDERAL AIR SURGEON
1961-1980

Year	Certified	Denied	Total
1961*	70	204	274
1962	189	372	561
1963	147	472	619
1964	149	711	860
1965	242	661	903
1966	119	344	463
1967**	95	234	329
1968**	106	273	379
1969**	140	273	413
1970**	172	372	544
1971**	140	379	519
1972**	197	480	677
1973**	259	521	780
1974**	349	565	914
1975**	421	738	1,159
1976**	309	591	900
1977**	249	725	974
1978**	259	616	875
1979**	216	465	681
1980**	191	454	645
TOTAL	4,019	9,450	13,469

* Incomplete figures for January through March 1961.

** Figures for 1967-1980 include only reconsideration actions. They do not include opinions and/or other decisions rendered by the Federal Air Surgeon (cases reviewed and eventually referred to other offices for appropriate action).

Source: Office of Aviation Medicine, Aeromedical Standards Division,
Appeals Branch.

NOTE: 1981 figures not available.

Table III.D
RECONSIDERATION ACTIONS BY THE
FEDERAL AIR SURGEON*
1980

<u>Pathology</u>	<u>First Class</u>	<u>Second Class</u>	<u>Third Class</u>	<u>Modifications</u>	<u>Total</u>
<u>Issued</u>					
Eye	4	5	14	-	23
Ear, Nose, Throat	-	-	1	-	1
Respiratory	-	-	2	-	2
Cardiovascular	11	25	26	2	64
Abdominal	-	3	5	2	10
Neurologic	9	7	28	2	46
Psychiatric	8	7	7	-	22
Bone/Joint	-	-	1	-	1
Muscles	-	-	-	-	-
Miscellaneous	3	5	13	1	22
TOTAL ISSUANCES	35	52	97	7	191
<u>Denied</u>					
Eye	-	7	47	-	54
Ear, Nose, Throat	-	-	-	-	-
Respiratory	-	3	12	-	15
Cardiovascular	17	54	142	1	214
Abdominal	-	-	10	-	10
Neurologic	17	32	58	1	108
Psychiatric	10	10	16	-	36
Bone/Joint	-	-	-	1	1
Muscles	-	-	-	-	-
Miscellaneous	-	4	9	-	13
SUBTOTAL	44	110	294	3	451
Denials for Failure to Provide Additional Information (67.31)	-	1	2	-	3
TOTAL DENIALS	44	111	296	3	454

* Figures include only reconsideration actions. They do not include opinions and/or other decisions rendered by the Federal Air Surgeon (cases reviewed and eventually referred to other offices for appropriate action).

Source: Office of Aviation Medicine, Aeromedical Standards Division, Appeals Branch.

NOTE: 1981 figures not available.

Table III.E

RECONSIDERATION ACTIONS BY THE
FEDERAL AIR SURGEON*
1963-1980

Pathology	First Class	Second Class	Third Class	Modifications	Total
<u>Issued</u>					
Eye	112	179	318	4	613
Ear, Nose, Throat	13	13	37	2	65
Respiratory	5	12	64	2	83
Cardiovascular	223	235	568	23	1,049
Abdominal	25	46	136	5	212
Neuropsychiatric	189	307	839	44	1,379
Bone/Joint	10	9	40	1	60
Muscles	1	2	8	-	11
Miscellaneous	26	67	187	8	288
TOTAL	604	870	2,197	89	3,760
<u>Denied</u>					
Eye	94	295	659	2	1,050
Ear, Nose, Throat	25	16	25	-	66
Respiratory	21	48	176	-	245
Cardiovascular	435	839	2,277	30	3,581
Abdominal	36	90	260	4	390
Neuropsychiatric	389	733	1,711	22	2,855
Bone/Joint	19	11	39	1	70
Muscles	2	4	15	-	21
Miscellaneous	52	99	306	7	464
SUBTOTAL	1,073	2,135	5,468	66	8,742
Denials for Failure to Provide Additional Information (67.31)	14	48	71	-	133
TOTAL DENIALS	1,087	2,183	5,539	66	8,875

* Figures include only reconsideration actions. They do not include opinions and/or other decisions rendered by the Federal Air Surgeon (cases reviewed and eventually referred to other offices for appropriate action).

Source: Office of Aviation Medicine, Aeromedical Standards Division, Appeals Branch.

NOTE: 1981 figures not available.

Table III.F
PETITIONS GRANTED OR DENIED
BY THE FAA*
1980

<u>Pathology</u>	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	-	-	1	1
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	-	-
Cardiovascular	3	9	74	86
Abdominal	-	-	-	-
Neuropsychiatric	66	7	34	107
Bone/Joint	-	-	-	-
Muscles	-	-	-	-
Miscellaneous	-	-	3	3
TOTAL GRANTS	69	16	112	197
Modifications	N/A	N/A	N/A	49
<u>Denied</u>				
Eye	-	1	21	22
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	-	-
Cardiovascular	22	46	129	197
Abdominal	-	-	-	-
Neuropsychiatric	14	40	43	97
Bone/Joint	-	-	-	-
Muscles	-	-	-	-
Miscellaneous	4	4	20	28
TOTAL DENIALS	40	91	213	344
Denials for Failure to Provide Additional Information (67.31)	N/A	N/A	N/A	200
Modifications	N/A	N/A	N/A	34

* Counts are based on number of petitions considered rather than the number of airmen petitioning. Airmen now petition the FAA rather than the Administrator and all petitions are granted or denied by the Federal Air Surgeon.

Source: Office of Aviation Medicine, Aeromedical Standards Division, Appeals Branch.

NOTE: 1981 figures not available.

Table III.G

PETITIONS GRANTED OR DENIED
BY THE FAA*
1961-1980

Pathology	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	11	27	87	125
Ear, Nose, Throat	2	2	1	5
Respiratory	-	1	15	16
Cardiovascular	60	220	1,415	1,695
Abdominal	3	1	24	28
Neuropsychiatric	383	185	669	1,237
Bone/Joint	1	1	3	5
Muscles	-	-	-	-
Miscellaneous	2	6	15	23
TOTAL GRANTS	459	443	2,229	3,134
Modifications	N/A	N/A	N/A	408
<u>Denied</u>				
Eye	11	81	152	244
Ear, Nose, Throat	-	2	6	8
Respiratory	3	10	38	51
Cardiovascular	390	827	2,336	3,553
Abdominal	5	14	47	66
Neuropsychiatric	183	410	924	1,517
Bone/Joint	1	5	10	16
Muscles	-	-	2	2
Miscellaneous	17	29	157	203
TOTAL DENIALS	610	1,378	3,672	5,660
Denials for Failure to Provide Additional Information (67.31)	N/A	N/A	N/A	1,815
Modifications	N/A	N/A	N/A	323

* Counts are based on number of petitions considered rather than number of airmen petitioning. Airmen now petition the FAA rather than the Administrator and all petitions are granted or denied by the Federal Air Surgeon.

Source: Office of Aviation Medicine, Aeromedical Standards Division, Appeals Branch.

NOTE: 1981 figures not available.

Table III.H

**STATUS OF AIRMEN WHO HAVE BEEN
GRANTED EXEMPTIONS
1961-1980**

Status of Airmen	Percent	Number of Airmen
Airmen Granted Exemptions*	100.0	3,015
Currently Active Airmen	33.3	1,005
Deceased	2.4	74
Grants Terminated:		
Adverse Change in Condition	13.5	407
No Longer Abide By Grants (Issued Under FAR 67.19)	2.1	64
For Various Personal Reasons Have Not Validated Their Grants	48.6	1,465

* Due to legal problems in 1980, the number of exemptions granted decreased to 205, compared to 316 exemptions granted in 1979. Although airmen may have been granted more than one exemption, they have only been counted once. There are 158 airmen who have been granted two or more exemptions (upgraded their grants).

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, and Office of Aviation Medicine, Aeromedical Standards Division, Appeals Branch.

NOTE: 1981 figures are not available.



SECTION IV

GENERAL AIRMAN POPULATION DATA

This section reflects general data concerning the active airman population. The data presented are as of December 31, 1981, and cover the preceding 25 months. The 25-month time period was used to describe the active airman population because a medically certified airman is considered "active" for a maximum of 25 months after his last FAA physical examination, i.e., regardless of the class of medical certificate issued, it is valid for third class purposes for a period of time up to 25 months. Those airmen who have allowed their medical certification to lapse into a time period greater than 25 months would be considered "inactive" airmen.

Data are presented by class of medical certificate issued and do not include applications pending or denied. Table IV.A presents data by "effective status" of medical certification. This refers to the time lapse since the certificate was issued as opposed to the class issued. Present FAA regulations stipulate that air transport pilots must be first class medically certified at six month intervals, commercial pilots must be second class medically certified annually, and general aviation airmen must obtain third class medical certification every two years. Thus, an airman may be first or second class medically certified and the time lapse since examination would reduce the "effective status" to a lesser class.

Table IV.A

REGIONAL DISTRIBUTION OF ACTIVE AIRMEN BY CLASS OF CERTIFICATE AND EFFECTIVE STATUS*
As of: December 31, 1981

Region	First Class			Second Class			Third Class			Total Active Airmen			
	Total Certified	Status (Class)**		Total Certified	Status (Class)**		Total Certified	Status (Class)**		Total Certified	Status (Class)**		
		1	2		1	2		1	2		1	2	3
Eastern	13,130	7,147	3,941	2,042	24,114	14,808	9,306	46,415	83,659	11,0	7,147	18,749	57,763
Central	3,653	2,052	1,089	512	11,501	7,191	4,310	28,129	43,283	5.7	2,052	8,280	32,951
Southern	19,064	10,832	5,469	2,763	31,192	19,035	12,157	53,357	103,613	13.6	10,832	24,504	68,277
Southwest	13,560	7,420	4,314	1,826	27,968	17,718	10,250	48,322	89,850	11.8	7,420	22,032	60,398
Western	18,491	9,769	5,723	2,999	33,131	19,924	13,207	68,377	119,999	15.8	9,769	25,647	84,583
Rocky Mountain	4,812	2,599	1,530	683	10,854	6,730	4,124	20,556	36,222	4.8	2,599	8,260	25,363
Northwest	4,798	2,528	1,534	736	12,089	7,295	4,794	23,293	40,180	5.3	2,528	8,829	28,823
New England	5,851	3,254	1,662	835	8,610	5,097	3,513	15,628	30,089	4.0	3,254	6,759	19,976
Great Lakes	13,643	7,452	4,330	1,861	30,849	18,640	12,209	73,778	118,270	15.6	7,452	22,970	87,848
Alaskan	1,239	670	436	133	3,175	2,059	1,116	5,117	9,531	1.3	670	2,495	6,366
Pacific	759	442	218	99	832	481	351	882	882	0.3	442	699	1,332
U.S. TOTAL	99,000	54,265	30,246	14,489	194,315	118,978	75,337	383,854	677,169	89.2	54,265	149,224	473,680
Military***	84	41	26	17	54,653	36,644	18,009	11,012	65,749	8.7	41	36,670	29,038
Foreign	6,903	2,892	1,952	2,059	4,643	2,765	1,878	4,652	16,198	2.1	2,892	4,717	8,589
TOTAL	105,987	57,198	32,224	16,565	253,611	158,387	95,224	399,518	759,518	100.0	57,198	190,611	511,307
Percent of Total Certified Airmen	(14.0)				(33.4)				(52.6)		(100.0)		

*Figures are based on a 25-month summary from the computer tape files; only certified airmen are included.

**Refers to the time lapse since the certificate was issued as opposed to the class issued. Present FAA regulations stipulate that air transport pilots must be first class medically certified annually, commercial pilots must be second class medically certified annually, and general aviation airmen must obtain third class medical certification every two years. Thus, an airman may be first or second class medically certified and the time lapse since examination would reduce the "effective status" to a lesser class.

***Military airmen were tabulated on the basis of the physical examination being performed by a military aviation medical examiner.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8065-4, Examination Time Period Summary.

Table IV.B

ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED*
As of: December 31, 1981

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Alabama	618	4	2,544	82	4,184	342	7,346	428
Alaska	1,208	31	3,008	119	4,500	593	8,716	743
Arizona	1,605	51	4,115	198	7,129	749	12,849	998
Arkansas	489	6	2,112	55	3,262	247	5,863	308
California	15,152	466	25,916	1,244	51,725	5,989	92,793	7,699
Colorado	3,338	85	4,705	232	7,066	741	15,109	1,058
Connecticut	2,335	53	2,254	106	3,608	327	8,197	486
Delaware	248	3	416	18	699	60	1,363	81
District of Columbia	68	5	190	15	297	42	555	62
Florida	9,356	243	12,380	518	18,048	1,986	39,784	2,747
Georgia	4,195	54	3,757	122	6,596	525	14,548	701
Hawaii	739	20	767	65	755	127	2,261	212
Idaho	325	4	1,474	43	3,061	290	4,860	337
Illinois	4,452	114	6,989	299	16,454	1,370	27,895	1,783
Indiana	1,104	29	3,354	129	7,630	590	12,088	748
Iowa	424	10	2,383	81	7,010	505	9,817	596
Kansas	1,126	21	3,360	115	7,164	653	11,650	789
Kentucky	422	9	1,490	37	3,093	211	5,005	257
Louisiana	1,477	21	3,617	107	4,561	366	9,655	494
Maine	306	10	908	46	1,816	166	3,030	222
Maryland	1,010	41	2,150	104	4,248	446	7,408	591
Massachusetts	1,578	50	3,137	160	5,719	601	10,434	811
Michigan	1,810	52	5,423	235	12,324	1,013	19,557	1,300
Minnesota	2,613	70	4,144	167	9,397	767	16,154	1,004
Mississippi	374	2	1,798	37	2,492	191	4,664	230
Missouri	1,704	23	3,517	120	7,437	649	12,658	792
Montana	281	6	1,503	36	2,977	203	4,761	245
Nebraska	328	9	1,863	52	4,379	324	6,570	385
Nevada	1,143	23	1,509	68	2,429	274	5,081	365
New Hampshire	1,133	14	997	48	1,434	154	3,564	216
New Jersey	2,842	53	3,737	168	7,171	620	13,750	841
New Mexico	437	13	1,448	68	2,886	297	378	4,771

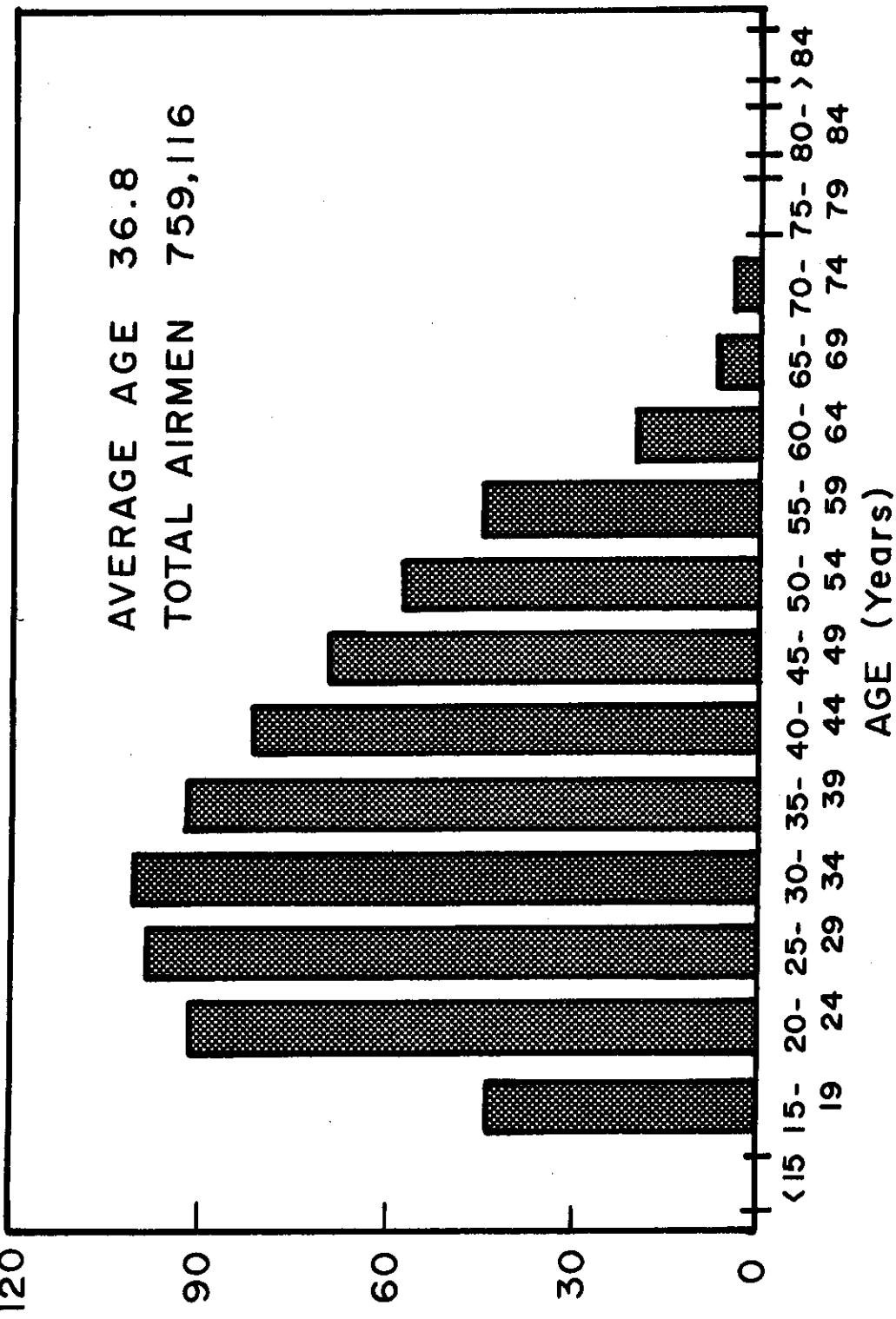
ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED*
As of: December 31, 1981

State	First Class		Second Class		Third Class		Total Airmen		
							Male	Female	
	Male	Female	Male	Female	Male	Female	Male	Female	
New York	3,447	105	7,036	314	12,594	1,014	23,077	1,433	
North Carolina	1,431	26	3,376	103	6,257	458	11,064	587	
North Dakota	171	10	1,022	38	1,997	132	3,190	180	
Ohio	2,202	45	6,650	233	14,107	1,276	22,959	1,554	
Oklahoma	1,152	33	4,321	155	7,314	690	12,787	878	
Oregon	751	18	3,647	153	7,602	827	12,000	998	
Pennsylvania	2,686	74	5,083	225	10,433	917	18,202	1,216	
Rhode Island	198	4	4,244	20	794	67	1,416	91	
South Carolina	613	18	1,687	44	2,770	190	5,070	252	
South Dakota	134	2	886	25	1,950	126	2,970	153	
Tennessee	1,636	34	2,884	92	5,442	457	9,962	583	
Texas	9,758	110	15,365	513	26,063	2,482	51,186	3,105	
Utah	561	7	1,545	44	3,118	242	5,224	293	
Vermont	161	3	383	25	816	87	1,360	115	
Virginia	2,141	48	3,594	144	5,321	580	11,056	772	
Washington	3,605	92	6,424	299	10,315	1,182	20,344	1,573	
West Virginia	267	2	698	17	1,684	125	2,649	144	
Wisconsin	1,107	23	3,074	113	8,115	720	12,296	856	
Wyoming	212	2	784	27	1,826	176	2,822	205	
U. S. Civilian - TOTAL	96,473	2,251	185,848	7,478	350,069	33,166	632,390	42,895	
Military and NASA	501	8	53,163	2,553	10,813	857	64,477	3,418	
International	6,700	54	4,470	99	4,297	316	15,467	469	
TOTAL AIRMEN	103,674	2,313	243,481	10,130	365,179	34,339	712,334	46,782	

*Totals are based on active airmen certified within the past 25 months.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

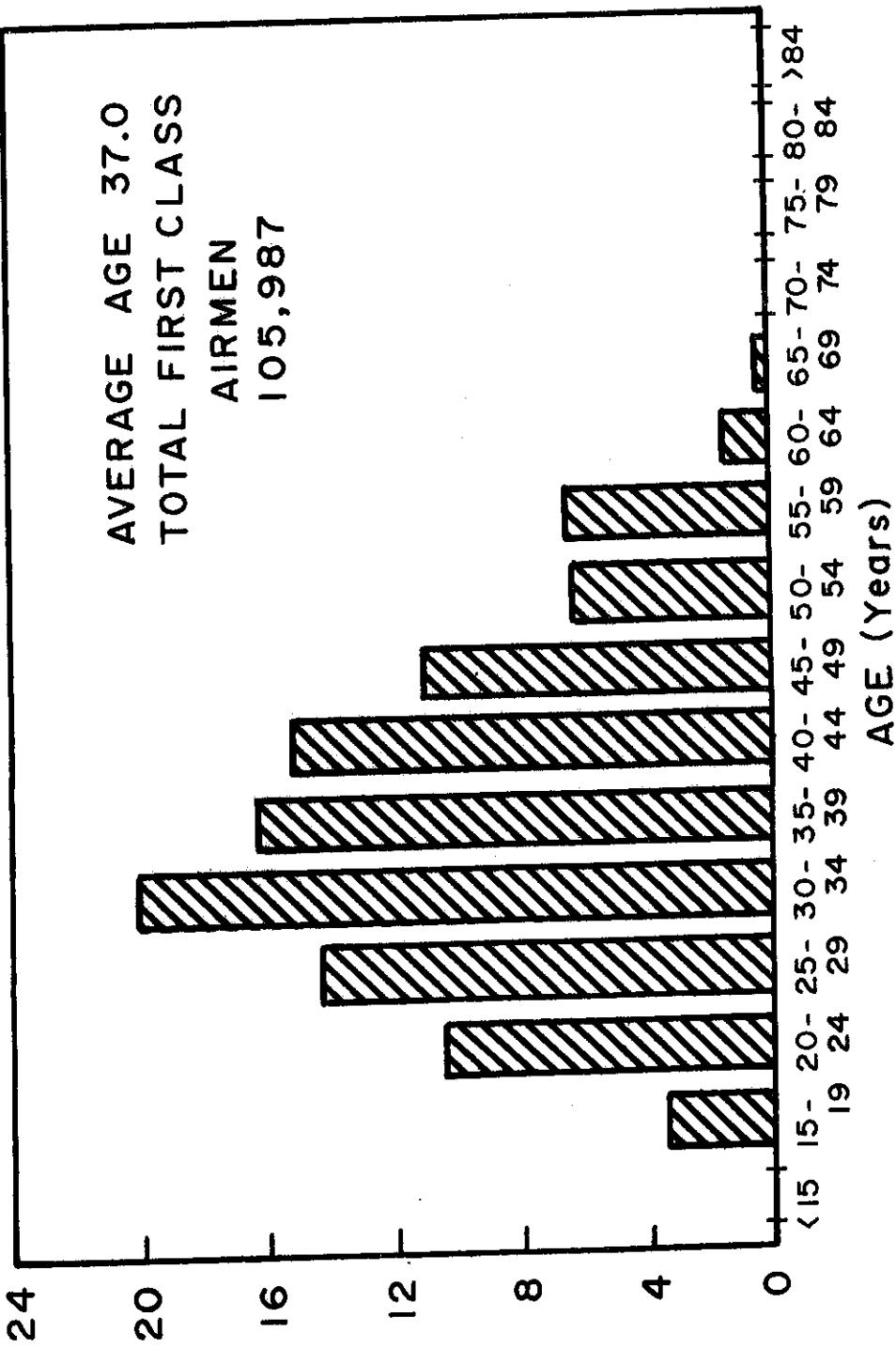
Figure IV.C
AGE DISTRIBUTION OF MEDICALLY CERTIFIED AIRMEN
As Of: December 31, 1981



BRACKETS ARE INDICATIVE OF AGE CLASS INTERVALS WHEREIN MAGNITUDES ARE NOT APPARENT ON THIS SCALE.
IN SUCH INSTANCES, THE ACCOMPANYING TABLE (TABLE IV.G) SHOULD BE CONSULTED FOR FREQUENCIES.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

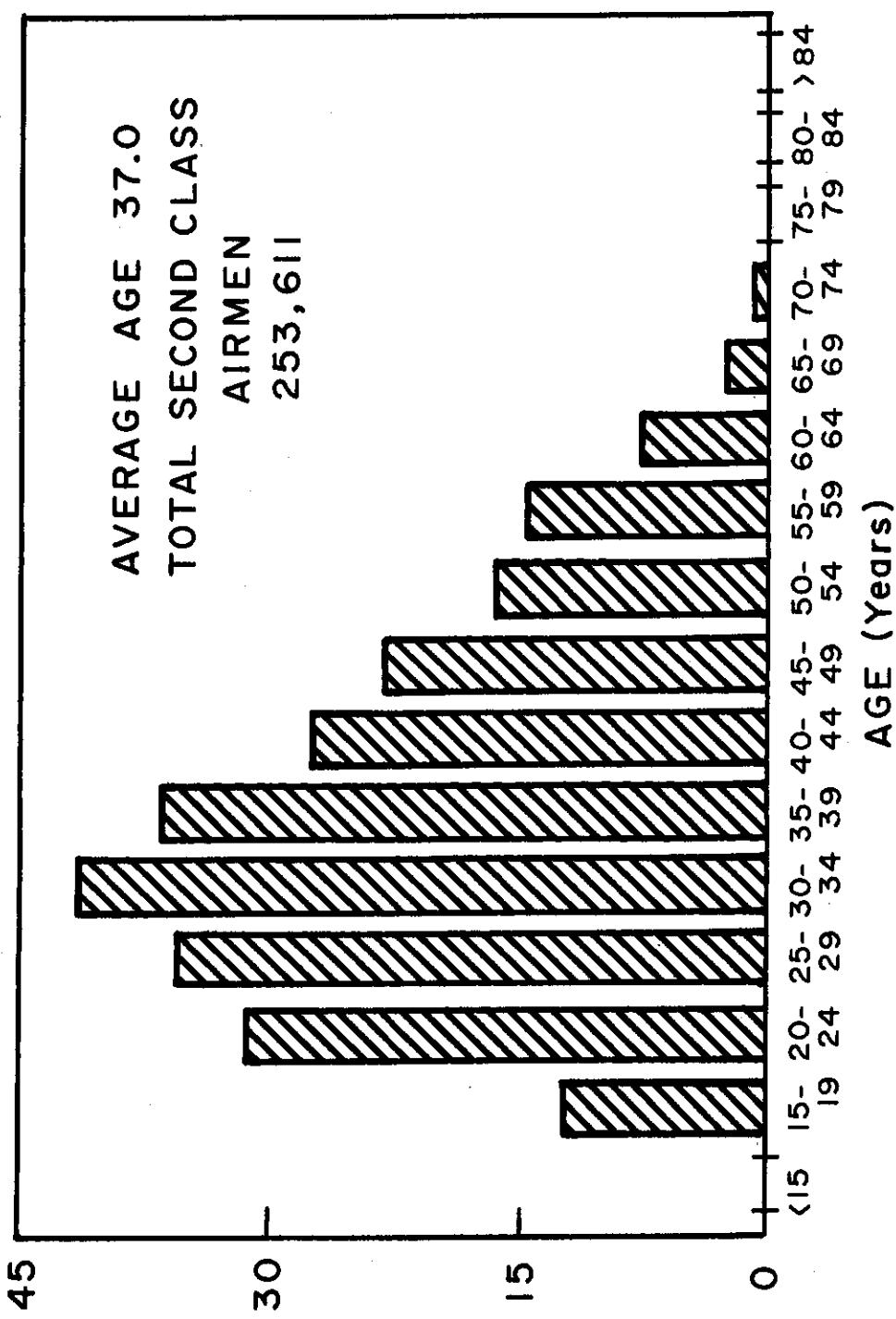
Figure IV.D
AGE DISTRIBUTION OF MEDICALLY CERTIFIED FIRST CLASS AIRMEN
AIRMEN (000)
As Of: December 31, 1981



BRACKETS ARE INDICATIVE OF AGE CLASS INTERVALS WHEREIN MAGNITUDES ARE NOT APPARENT ON THIS SCALE.
 IN SUCH INSTANCES, THE ACCOMPANYING TABLE (TABLE IV.G) SHOULD BE CONSULTED FOR FREQUENCIES.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.E
AGE DISTRIBUTION OF MEDICALLY CERTIFIED SECOND CLASS AIRMEN
AIRMEN (000)
As Of: December 31, 1981

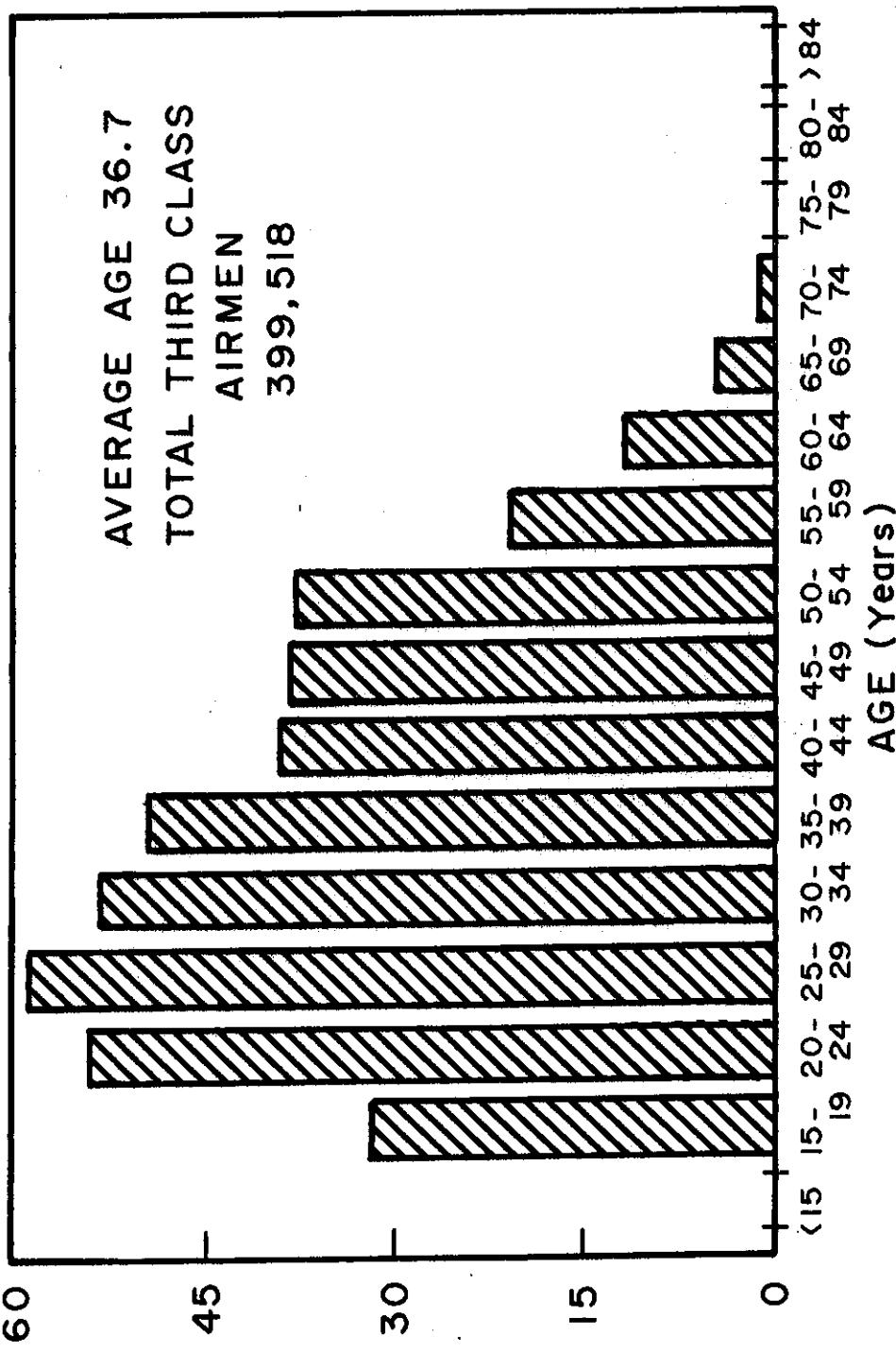


BRACKETS ARE INDICATIVE OF AGE CLASS INTERVALS WHEREIN MAGNITUDES ARE NOT APPARENT ON THIS SCALE.
 IN SUCH INSTANCES, THE ACCOMPANYING TABLE (TABLE IV.G) SHOULD BE CONSULTED FOR FREQUENCIES.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
 RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.F

AGE DISTRIBUTION OF MEDICALLY CERTIFIED THIRD CLASS AIRMEN
As Of: December 31, 1981



BRACKETS ARE INDICATIVE OF AGE CLASS INTERVALS WHEREIN MAGNITUDES ARE NOT APPARENT ON THIS SCALE. IN SUCH INSTANCES, THE ACCOMPANYING TABLE (TABLE IV.G) SHOULD BE CONSULTED FOR FREQUENCIES.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table IV.G

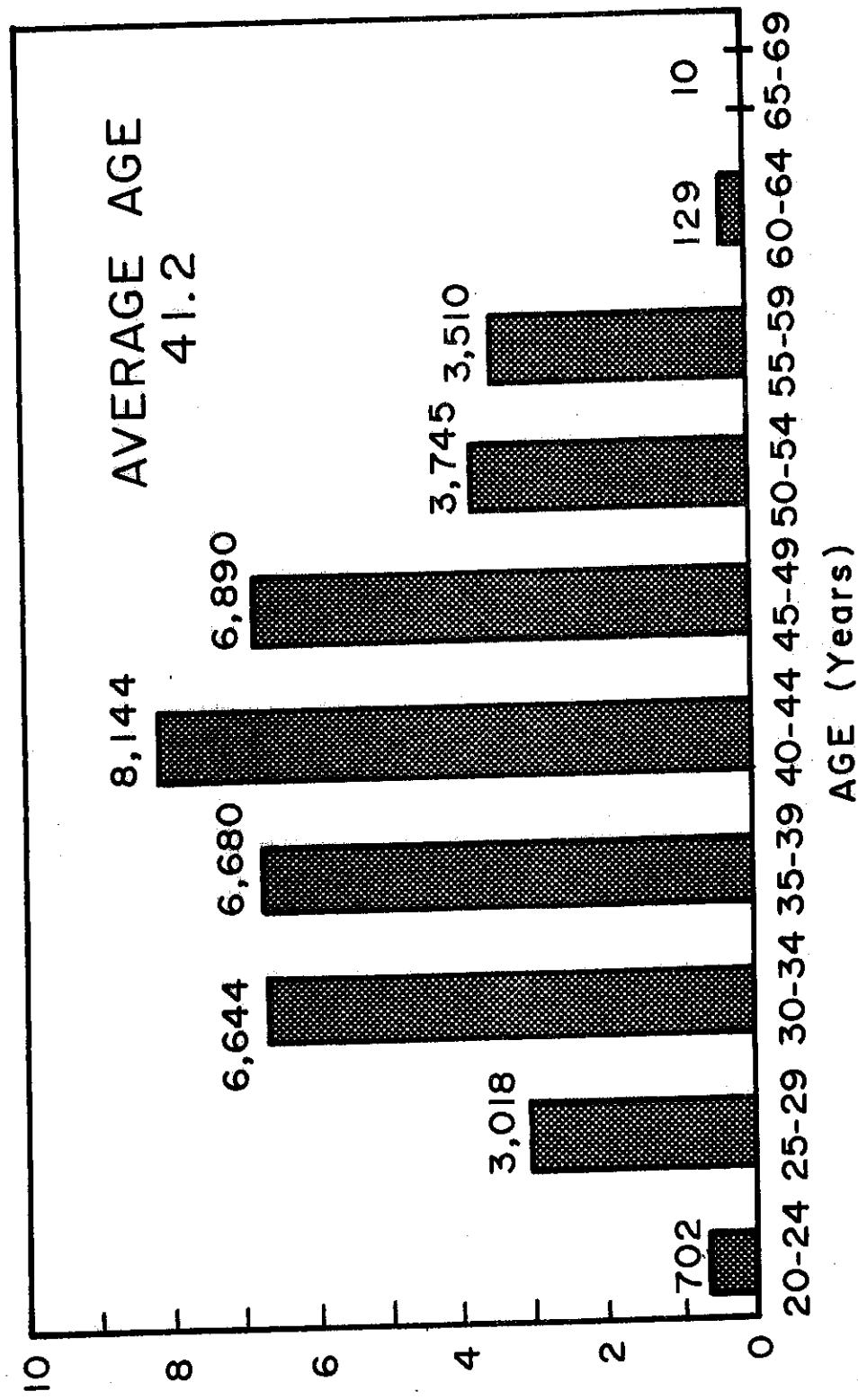
AGE DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*
As of: December 31, 1981

Age	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 15								
15-19	6	1	17	3	127	16	150	20
20-24	3,142	329	9,304	1,249	26,691	3,532	39,137	5,110
25-29	9,917	600	28,950	2,440	45,763	5,073	84,630	8,113
30-34	13,858	614	34,173	1,839	52,282	6,119	100,313	8,572
35-39	19,745	426	41,281	1,277	50,215	5,820	111,241	7,523
40-44	16,295	152	36,262	1,037	44,318	4,627	96,875	5,816
45-49	14,407	85	27,627	682	36,760	3,084	78,794	3,851
50-54	11,210	35	23,504	535	33,914	2,420	68,628	2,990
55-59	6,365	32	16,222	471	33,596	1,952	56,183	2,455
60-64	6,555	23	14,710	340	23,303	1,063	44,568	1,426
65-69	1,792	8	8,061	167	11,645	438	21,498	613
70-74	309	7	2,523	57	4,679	137	7,511	201
75-79	65	1	657	28	1,413	43	2,135	72
80-84	7	0	154	5	379	12	540	17
85 and over	1	0	29	0	73	2	103	2
TOTAL	103,674	2,313	243,481	10,130	365,179	34,339	712,334	46,782
Average Age	37.2	27.6	37.2	31.4	37.0	33.2	37.1	32.5

*Totals are based on active certified airmen within the past 25 months.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.H
 AGE DISTRIBUTION OF AIRLINE PILOTS
 As Of: December 31, 1981



Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
 RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table IV.1

AGE DISTRIBUTION OF AIRLINE PILOTS*
As of: December 31, 1981

Age Groups (1)	Airline Pilots (2)	Certified First Class Airmen** (3)		Percent of Total Airline Pilots (4)	Percent of Total Certified First Class Airmen (5)
		Airline Pilots (2)	Certified First Class Airmen** (3)		
20 - 24	702	10,517	1.8	10.3	
25 - 29	3,018	14,472	7.6	14.1	
30 - 34	6,644	20,171	16.8	19.7	
35 - 39	6,680	16,447	16.9	16.1	
40 - 44	8,144	14,492	20.6	14.1	
45 - 49	6,890	11,245	17.4	11.0	
50 - 54	3,745	6,397	9.5	6.2	
55 - 59	3,510	6,578	8.9	6.4	
60 - 64	129	1,800	0.3	1.8	
65 - 69	10	316	0.2	0.3	
TOTAL	39,472	102,435	100.0	100.0	
Average Age	41.2	37.6			

*Airline Pilots, Column (2), were determined by the combination of first class medical certificate issuance during the preceding 13 months and an occupation of "pilot for an airline." Figures in Column (3) were based on first class medical certificate issuance during the preceding 25 months.

**Extreme age groups were deleted to more closely compare with age requirements for airline pilots. Under Part 121, Federal Aviation Regulations, no person may serve as a pilot on an airplane engaged in air carrier operations if that person has reached his 60th birthday. However, some airmen falling into this category still list their occupation as "pilot" even though their actual duties do not involve control of the airplane.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-2, Aeromedical Certification Statistical Handbook Computer Run.

Table IV.J

HEIGHT DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*
As of: December 31, 1981

Height in Inches	First Class		Second Class		Third Class		Total Airmen		
	Male		Male		Male		Male		Male
	Female	Female	Female	Female	Female	Female	Female	Female	Female
Less than 59	158	16	439	77	541	205	1,138	298	
59	52	4	168	43	149	119	369	166	
60	128	40	474	224	594	971	1,196	1,235	
61	74	48	197	361	444	1,183	715	1,592	
62	78	162	259	847	643	3,402	980	4,411	
63	120	239	468	1,052	1,048	3,861	1,636	5,152	
64	398	340	1,520	1,605	2,634	5,249	4,552	7,194	
65	918	324	3,039	1,396	4,982	4,914	8,939	6,634	
66	2,620	358	7,823	1,571	12,689	5,238	23,132	7,167	
67	5,153	356	13,425	1,170	20,913	3,805	39,491	5,331	
68	10,243	210	24,294	880	36,206	2,684	70,743	3,774	
69	11,991	112	27,698	468	39,004	1,410	78,693	1,990	
70	15,884	55	36,884	242	56,279	711	109,047	1,008	
71	14,850	27	34,609	83	52,970	269	102,429	379	
72	19,195	15	42,882	76	62,501	168	124,578	259	
73	8,785	2	20,041	11	30,048	41	58,874	54	
74	7,160	4	15,604	6	22,817	38	45,581	48	
75	3,360	0	7,388	6	10,678	21	21,426	27	
Over 75	2,507	1	6,269	12	10,039	50	18,815	63	
TOTAL	103,674	2,313	243,481	10,130	365,179	34,339	712,334	46,782	
Average Height	70.7	65.4	70.5	65.1	70.5	65.0	70.5	65.0	

*Totals are based on active airmen certified within the past 25 months. Height, as reported by the airman, is rounded to the nearest inch.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table IV.K

WEIGHT DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*
As of: December 31, 1981

Weight in Pounds	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 90								
90 - 99	44	2	97	16	145	51	286	69
100 - 109	9	19	12	115	64	442	85	576
110 - 119	46	204	99	715	323	2,607	468	3,526
120 - 129	184	529	537	1,843	1,311	6,535	2,032	8,907
130 - 139	826	687	2,022	2,509	4,204	8,521	7,052	11,717
140 - 149	2,808	456	6,820	2,183	12,032	6,896	21,660	9,535
150 - 159	6,768	213	15,363	1,290	24,106	3,942	46,237	5,445
160 - 169	13,308	95	28,477	681	41,758	2,244	83,543	3,020
170 - 179	18,342	52	38,807	321	55,841	1,213	112,990	1,586
180 - 189	19,804	24	43,094	186	60,185	708	123,083	918
190 - 199	16,991	19	39,310	97	55,385	461	111,686	577
200 - 209	10,740	8	27,410	71	39,078	255	77,228	334
210 - 219	6,104	3	17,163	46	26,001	176	49,268	225
220 - 229	3,754	0	10,570	15	17,395	73	31,719	88
230 - 239	1,978	2	6,312	7	11,397	81	19,687	90
240 - 249	1,011	0	3,372	9	6,663	44	11,046	53
Over 249	488	0	1,812	10	3,813	31	6,113	41
	469	0	2,204	16	5,478	59	8,151	75
TOTAL	103,674	2,313	243,481	10,130	365,179	34,339	712,334	46,782
Average Weight	176.2	128.1	178.5	132.3	179.3	132.5	178.6	132.2

*Totals are based on active airmen certified within the past 25 months. Weight, as reported by the airman, is rounded to the nearest pound.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table IV.L

ACTIVE AIRMEN BY TYPE OF
FLYING AND CLASS*
As of: December 31, 1981

Class Issued	Type of Flying**					Business & Pleasure	Percent
	Business	Percent	Pleasure	Percent			
First	86,681	(11.4)	17,550	(2.3)	1,756	(0.2)	
Second	85,420	(11.2)	156,547	(20.6)	11,644	(1.6)	
Third	43,181	(5.7)	338,036	(44.6)	18,301	(2.4)	
TOTAL	215,282	(28.3)	512,133	(67.5)	31,701	(4.2)	

*Totals are based on active airmen certified within the past 25 months. Basis for percentage computations is also total active certified airmen (759,116).

**Based on response by airman in Block 14 of FAA Form 8500-8. If type of flying was not given, it was classified as "pleasure."

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table IV.M

ACTIVE AIRMEN BY OCCUPATION, CLASS AND SEX*
As of: December 31, 1981

Occupation Code	First Class		Second Class		Third Class		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Percent
1 - Pilot (Scheduled or Non-Scheduled Airline)	41,813	198	170	1	31	0	42,014	199	(5.6)
2 - Flight Engineer	1,988	11	2,945	2	7	0	4,940	13	(0.7)
3 - Flight Navigator/Flight Radio Operator	41	1	255	2	7	0	303	3	(0.0+)
4 - Business or Executive Pilot	28,701	463	340	8	14	0	29,055	471	(3.9)
5 - Commercial Pilot (Self Employed)	37	0	3,772	94	11	0	3,820	94	(0.5)
6 - Commercial Pilot (Not Self Employed)	240	2	15,292	210	33	1	15,565	213	(2.1)
7 - Aero Application (Agriculture)	129	4	3,891	7	9	0	4,029	11	(0.5)
8 - Air Traffic Controller at Centers/Towers	140	5	16,671	2,217	52	5	16,863	2,227	(2.5)
F - Air Traffic Controller at Flight Service Stations	54	2	610	75	35	9	699	86	(0.1)
9 - Flight Instructor	3,437	325	4,810	483	11	1	8,258	809	(1.2)
O - Aircraft Mechanic & Fixed Base Operator	421	4	3,119	31	67	0	3,607	35	(0.5)
X - Not Given or Non-Aeronautical Occupation	26,673	1,298	191,606	7,000	364,902	34,323	583,181	42,621	(82.4)
TOTAL	103,674	2,313	243,481	10,130	365,179	34,339	712,334	46,782	(100.0)

*Totals are based on active airmen certified within the past 25 months. Occupation was based on response by the airman in Block 10 of FAA Form 8500-8, if not given, occupation was classified as "non-aeronautical." Basis for Percentage computations is number in each occupation category to total airmen.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table IV.N

**EMPLOYERS OF ACTIVE AIRMEN BY
CLASS OF CERTIFICATE ISSUED***
As of: December 31, 1981

Employer	First Class	Second Class	Third Class	TOTAL	Major Percent of Total
Airlift International	61	15	-	76	
Airwest	22	19	-	41	
Alaska Airlines	202	22	-	224	
Aloha Airlines	53	8	-	61	
American Airlines	3,921	697	3	4,621	
Aspen Airways	29	-	-	29	
Braniff Airways	1,738	53	3	1,794	
Capitol International Airways	94	52	-	146	
Continental Air Lines	1,501	103	-	1,604	
Delta Air Lines	4,061	75	3	4,139	
Eastern Airlines	4,120	276	5	4,401	
Flying Tiger Line	763	131	3	897	
Frontier Airlines	590	63	1	654	
Golden Gate Airways	23	2	-	25	
Hawaiian Airlines	102	8	-	110	
New York Airways	28	1	-	29	
Northwest Airlines	1,502	25	-	1,527	
Overseas National Airways	31	8	-	39	
Ozark Airlines	476	17	-	493	
Pacific Southwest Airlines	455	35	-	490	
Pan American World Airways	2,435	632	1	3,068	
Piedmont Aviation	547	21	-	568	
Reeve Aleutian Airways	8	3	-	11	
Southern Air Transport	3	2	-	5	
Texas International Airlines	358	19	-	377	
Trans World Airlines	3,157	373	1	3,531	
United Airlines	5,340	437	4	5,781	
Western Airlines	1,350	143	1	1,494	
Wien Consolidated Airlines	143	11	1	155	
World Airways	241	38	-	279	
SUBTOTAL - ALL AIRLINES	33,354	3,289	26	36,669	4.8

Table IV.N (Continued)

**EMPLOYERS OF ACTIVE AIRMEN BY
CLASS OF CERTIFICATE ISSUED***
As of: December 31, 1981

<u>Employer</u>	<u>First Class</u>	<u>Second Class</u>	<u>Third Class</u>	<u>Total</u>	<u>Major Percent of Total</u>
Federal Aviation Administration	1,305	6,258	359	7,922	(1.1)
Government, other than Military or FAA, includes State and Local Government	651	1,170	5	1,826	(0.2)
Aircraft Industry	659	767	5	1,431	(0.2)
Industry, other than aircraft	8,443	3,573	8	12,024	(1.6)
Fixed Base Operation (flying schools, etc.)	3,374	6,761	42	10,177	(1.4)
Self Employed	3,547	7,964	38	11,549	(1.5)
Other	26,753	11,840	66	38,659	(5.1)
Not Applicable	25,113	178,673	398,544	602,330	(79.3)
Air Force	1,458	17,240	43	18,741	(2.5)
Army	384	6,328	29	6,741	(0.9)
Coast Guard	64	334	-	398	(0.0+)
Marines and Navy	786	9,127	39	9,952	(1.3)
National Aeronautics and Space Administration	96	287	314	697	(0.1)
SUBTOTAL - ALL OTHERS	72,633	250,322	399,492	722,447	(95.2)
TOTAL	105,987	253,611	399,518	759,116	(100.0)

*Totals are based on active airmen certified within the past 25 months. Employer data is provided by the airman in Block 12 of FAA Form 8500-8. If blank or other than aeronautical employer is reflected, it is classified as "not applicable."

NOTE: Mergers, name changes, etc., will necessarily affect frequencies recorded until such changes are known to the Aeromedical Certification Branch and code schedules are changed accordingly.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.



SECTION V

MEDICAL CHARACTERISTICS OF THE AIRMAN POPULATION

This section presents medical characteristics of the active airman population (those airmen certified within the preceding 25 months) as of December 31, 1981, by class of medical certificate issued.

Table V.A

ACTIVE AIRMEN BY NUMBER OF RESTRICTIONS
CARRIED, CLASS AND SEX*
As of: December 31, 1981

Number of Restrictions	First Class		Second Class		Third Class		Total Airmen		Total Airmen
			Male	Female	Male	Female	Male	Female	
	Male	Female							
1	32,602	702	107,767	4,497	164,792	15,591	305,161	20,790	325,951
2	1,538	27	4,144	333	9,319	374	15,001	734	15,735
3	59	-	102	4	285	9	446	13	459
4	3	-	4	-	11	1	18	1	19
5	-	-	-	-	1	1	-	1	2
6	-	-	-	-	-	-	-	-	-
More than 6	-	-	-	-	-	-	-	-	-

*Figures are based on active airmen certified within the past 25 months.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table V.B

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As of: December 31, 1981

<u>Restriction</u>	<u>First Class</u>		<u>Second Class</u>		<u>Third Class</u>		<u>Total Airmen</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
Must Have Available Glasses for Near Vision	11,240	36	21,637	505	35,621	2,130	68,498	2,671
Must Wear Corrective Lenses	14,787	551	59,481	3,033	90,589	10,248	164,857	13,832
Must Wear Glasses for Near and Distant Vision	6,713	103	26,958	913	39,856	3,305	73,527	4,321
Must Wear Corrective Lenses for Distant Vision and Possess Glasses for Near Vision	8	1	19	2	25	4	52	7
Must Wear Prismatic Correction	6	1	30	-	22	2	58	3
Must Wear Corrective Lenses: Extra Pair Must be Available	436	50	1,772	218	901	132	3,109	400
Must Wear Hearing Aid	26	-	135	4	403	18	564	22
Must Wear Artificial Limb	24	-	80	-	262	3	366	3
Oxygen Required When Flying Above 7,999 Feet	1	-	1	-	6	-	8	-
Passenger Carrying Prohibited	1	-	4	-	7	-	12	-
Not Valid for Pilot in Command	3	-	9	-	3	-	15	-

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As of: December 31, 1981

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Not Valid for Control Tower Operator Duties	7	1	49	-	69	1	125	2
Not Valid for Air Transport Duties	3	-	4	-	5	-	12	-
Flying of Jet Aircraft Prohibited	-	-	-	-	-	-	-	-
Not Valid for Night Flying or By Color Signal Control (Color Vision)	122	-	1,450	1	8,279	47	9,851	48
Not Valid for Night Flying (Glaucoma)	-	-	2	-	3	1	5	1
Not Valid for Flying Where Radio Use is Required	-	-	8	-	77	2	85	2
Flying Limited to Remote Areas	-	-	2	-	-	-	2	-
Valid for Flight Service Station or Center Duties Only	-	-	6	-	1	1	7	1
Valid for Flight Test Only	14	-	21	1	21	-	56	1
Second Class Privileges Limited to Crop Dusting	1	-	-	-	2	-	3	-
Second Class Privileges Limited to Flight Engineer Duties	-	-	25	1	-	-	26	1
Second Class Privileges Limited to Flight Navigator Duties	-	-	1	-	-	-	1	-

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As of: December 31, 1981

<u>Restriction</u>	<u>First Class</u>		<u>Second Class</u>		<u>Third Class</u>		<u>Total Airmen</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
Second Class Privileges Limited to Control Tower Operator Duties	2	-	2	-	1	-	5	-
Valid for and Limited to ATC Duties Only	4	-	1,033	83	32	1	1,069	84
Valid for ATC Duties - Center Only	-	-	10	2	1	-	11	2
Valid for Flight Service Station Duties Only	1	-	57	9	2	-	60	9
Limited to Military Controller Duties	-	-	970	343	4	2	974	345
Valid for Control Tower Duties When Second Controller on Duty	1	-	6	2	6	-	13	2
Valid Only When Accompanied by Another Qualified Pilot	1	-	1	-	3	-	5	-
Valid for Student Pilot Purposes Only	5	1	121	5	2,022	168	2,148	174
Second Class Privileges Limited to Cargo Operation	1	-	-	-	-	-	1	-
Issued on Basis of Demonstrated Medical Fitness	-	-	-	-	1	-	1	-

Table V.B (Continued)

**FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX***

As of: December 31, 1981

Restrictions	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Time Limitation Restrictions	139	2	1,782	43	4,535	267	6,456	312
Panel Restrictions	359	1	174	3	741	12	1,274	16
Miscellaneous Restrictions	243	6	527	7	834	31	1,604	44
ERG Due Before Airman's Next Examination (Computer Assigned)	1,718	3	-	-	-	-	1,718	3
TOTAL	35,867		756	116,377	5,175	184,334	16,375	336,578

Table V.C

ACTIVE AIRMEN WITH DEFECTIVE COLOR VISION
 BY CLASS AND SEX*
 As of: December 31, 1981

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	272	(0.3)	1	(0.0+)
Second	2,333	(1.0)	3	(0.0+)
Third	6,527	(1.8)	51	(0.1)
TOTAL	9,132	(1.3)	55	(0.1)

*Figures are based on active airmen certified within the past 25 months with "abnormal" color vision indicated.

**Basis for percentages is the number of active airmen by sex within each class. Percent of total is computed using the total male or female population.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.



Table V.D

ACTIVE AIRMEN WITH WAIVERS
 BY CLASS AND SEX*
 As of: December 31, 1981

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	7,101	(6.8)	222	(9.6)
Second	31,394	(12.9)	1,312	(13.0)
Third	15,863	(4.3)	741	(2.2)
TOTAL	54,358	(7.6)	2,275	(4.9)

*Figures are based on active airmen certified within the past 25 months; however, the waiver may have been issued prior to the most recent examination. Tabulations were based on an indication of a waiver in the class issued code or the presence of a waiver number.

**Basis for percentages is the number of active airmen by sex within each class. Percent of total is computed using the total male or female population.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

