AC 8500-1

1988

AEROMEDICAL CERTIFICATION STATISTICAL HANDBOOK

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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CIVIL AEROMEDICAL INSTITUTE
AEROMEDICAL CERTIFICATION DIVISION

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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 1988 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.

AME 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

1987-1988

Region	Percent of 1988 Total*	Aviation Medical Examiners 1988	1987
Eastern	11.6	813	840
Central	7.6	530	563
Southern	17.3	1,214	1,231
Southwest	12.9	903	924
Western Pacific	9.8	686	723
Northwest Mountain	9.9	694	720
New England	3.5	247	259
Great Lakes	16.0	1,128	1,164
Alaskan	1.6	109	113
SUBTOTAL	90.2	6,324	6,537
Military**	5.9	417	410
International	3.9	269	262
TOTAL	100.0	7,010	7,209

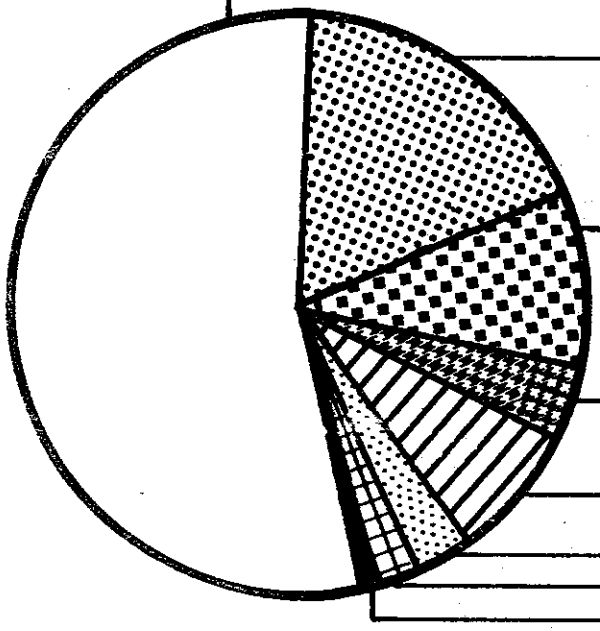
*The basis for percentage computations is total designations as of the end of calendar year 1988, i.e., U.S. and International designations represent one physician for each designation; whereas, Military designations represent one facility for each designation.

**Denotes military installation designations rather than individual physicians.

Source: Civil Aeromedical Institute, Aeromedical Education Division, Aviation Medical Examiner Program; 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 - 1988*



SPECIALTY	Number of AMEs	%
Family Practice	3,741	56.7
Internal Medicine	1,208	18.3
General Surgery	525	7.9
Ophthalmology	209	3.2
Miscellaneous	505	7.7
Aviation Medicine	223	3.4
Industrial Medicine	139	2.1
Psychiatry	43	0.7
TOTAL	6,593	100.0

*Based on United States and International Aviation Medical Examiners; Military not included.

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

Table I.C

REGIONAL COVERAGE OF AVIATION MEDICAL
EXAMINERS VERSUS CIVIL AIRMEN

1988

Region	Active U.S. Civil Airman Population*	U.S. Non-Military AME Population**	Ratio AMEs To Airmen
Eastern	79,961	813	1:98
Central	32,505	530	1:61
Southern	105,793	1,214	1:87
Southwest	74,823	903	1:83
Western Pacific	106,963	686	1:156
Northwest Mountain	58,590	694	1:84
New England	31,431	247	1:127
Great Lakes	107,210	1,128	1:95
Alaskan	9,385	109	1:86
TOTAL	606,661	6,324	1:96

*Active U.S. Civil Airman Population figures are as of December 31, 1988, RIS: AC 8065-4, Examination Time Period Summary. Military and International not included.

**U.S. Non-Military AME Population figures are as of January 25, 1989; 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 Division, Aviation Medical Examiner Program; and Aeromedical Certification Division, Statistics and Records Branch.

Table I.D

AVIATION MEDICAL EXAMINER SEMINARS
DATE, LOCATION, AND ATTENDANCE

1988

Date	Location	Attendance
January 28-31	Boston, Massachusetts	107
February 18-21	Los Angeles, California	85
March 24-27	Memphis, Tennessee	60
April 7-10	Columbus, Ohio	65
April 24-29	Oklahoma City, Oklahoma	47
May 8-12	New Orleans, Louisiana (AsMA)	233
June 9-12	Jackson Hole, Wyoming	87
July 7-10	Philadelphia, Pennsylvania	81
July 28-31	Mobile, Alabama	56
August 18-21	Phoenix, Arizona	64
August 25-28	Kansas City, Missouri	122
September 15-18	Seattle, Washington	93
October 23-28	Oklahoma City, Oklahoma	58
November 3-6	New Orleans, Louisiana (SMA)	81
November 17-20	Washington, D.C.	117
December 1-4	Atlanta, Georgia	79
December 8-11	Chicago, Illinois	90
TOTAL		1,525

Source: Civil Aeromedical Institute, Aeromedical Education Division, Aviation Medical Examiner Program.

Table I.E

AVIATION MEDICAL EXAMINER
SEMINARS AND ATTENDANCE
1960 - 1988

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
1982	15	1,652
1983	17	1,523
1984	17	1,551
1985	15	2,033
1986	11	1,701
1987	13	1,573
1988	17	1,525
TOTAL	338	39,129

Source: Civil Aeromedical Institute, Aeromedical Education Division, Aviation Medical Examiner Program.

Table I.F

ACTIVE AVIATION MEDICAL EXAMINERS
SEMINAR ATTENDANCE BY REGION*
1988

Region	Total AMEs	One Seminar	More Than One Seminar	No Participation At Seminars
Eastern	813	135	675	17
Central	530	91	432	3
Southern	1,214	211	978	29
Southwest	903	187	720	2
Western Pacific	686	149	522	2
Northwest Mountain	694	138	539	5
New England	247	37	209	2
Great Lakes	1,128	232	881	26
Alaskan	109	24	74	6
International	269	92	113	62
TOTAL	6,593	1,296	5,143	154
Percent of Total	100.0	19.7	78.0	2.3

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

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

Table I.G

AVIATION MEDICAL EXAMINER SUMMARY DATA*
1988

A.	Number of Designated U.S. Non-Military Aviation Medical Examiners	6,324
B.	Number of Designated International Aviation Medical Examiners	269
C.	Number of Designated Military Aviation Medical Examiners (Installations)	417
D.	Ratio of U.S. Non-Military Aviation Medical Examiners to U.S. Civil Airmen	1:96
E.	Percentage of Non-Military Aviation Medical Examiners Who Are Qualified Pilots	49.9%*
F.	Percentage of Aviation Medical Examiners Who Were Military Flight Surgeons	17%*
G.	Number of Non-Military Aviation Medical Examiners Who Participate in Accident Investigation	164
H.	Percentage of Non-Military Aviation Medical Examiners Who Have Attended One Seminar	20.1%
I.	Percentage of Non-Military Aviation Medical Examiners Who Have Attended More Than One Seminar	79%
J.	Percentage of Non-Military Aviation Medical Examiners Who Have Not Attended a Seminar	2.4%
K.	Total Number of Seminars Conducted in 1988	17
L.	Total Attendance of Aviation Medical Examiners at Seminars Conducted in 1988	1,525

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

Source: Civil Aeromedical Institute, Aeromedical Education Division, Aviation Medical Examiner Program.

SECTION II

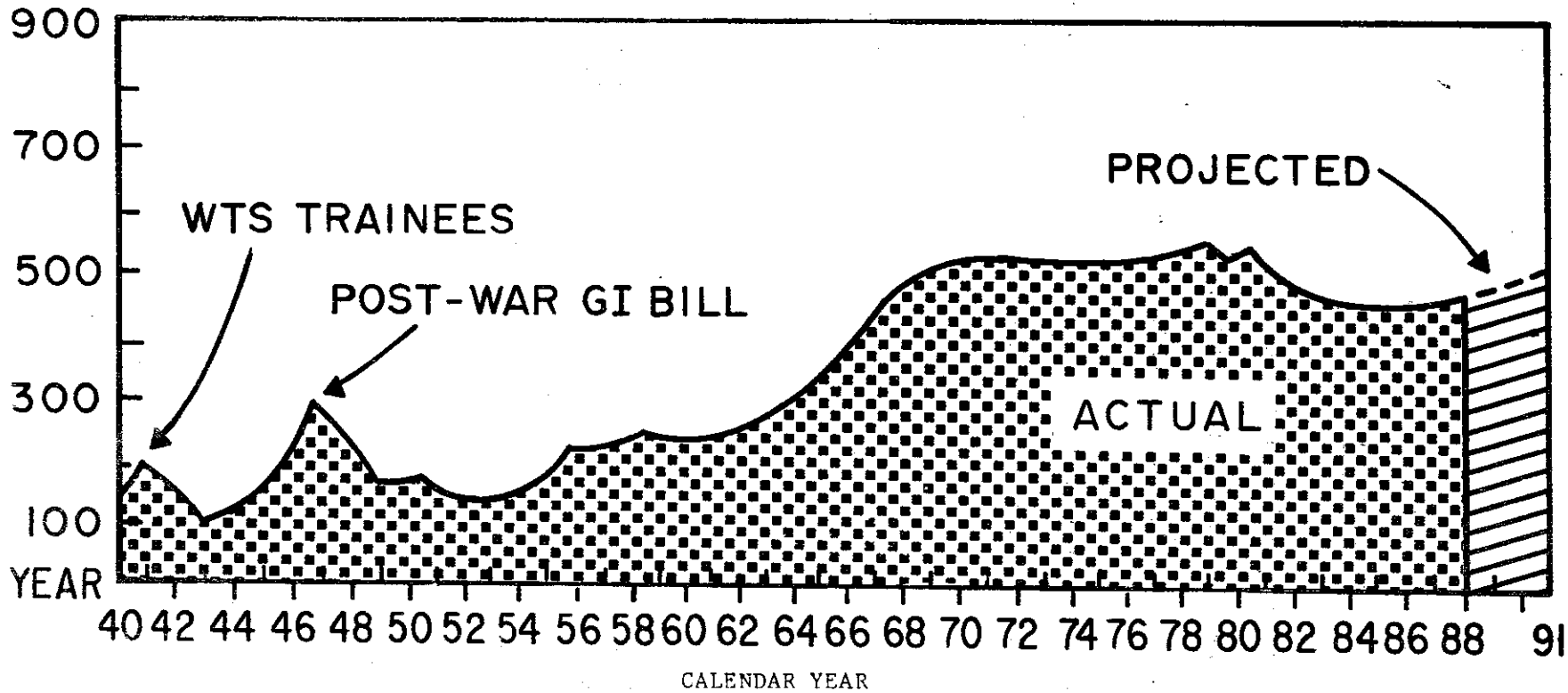
CERTIFICATION ACTIVITY

The Aeromedical Certification Division 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 Division are presented in this section. Data are presented by calendar year and reflect workload in the certification area.

Figure II.A

AIRMAN APPLICATIONS FOR MEDICAL CERTIFICATION 1940-1988 Projected to 1991



Year	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
Applications	134.4	172.2	161.6	102.7	113.8	154.6	202.1	289.6	233.4	162.5	144.0	157.4	145.7	133.5	160.6	168.6
Percentage*	+83.5	+28.2	-6.2	-36.4	+10.8	+35.8	+30.7	+43.3	-19.4	-30.4	-11.4	+9.4	-7.4	-8.4	+20.3	+5.0
Year	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Applications	181.7	229.6	217.9	255.6	237.5	237.3	254.1	271.8	294.7	330.6	387.5	427.6	465.9	487.7	487.7	493.1
Percentage*	+7.8	+26.3	-5.1	+17.3	-7.1	-0.1	+7.1	+6.9	+8.5	+12.2	+17.2	+10.3	+9.0	+2.7	+1.9	+1.1
Year	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Applications	494.7	521.7	515.4	519.2	542.1	550.2	565.5	550.2	529.1	529.4	463.2	477.9	463.6	479.8	474.4	470.2
Percentage*	+0.3	+5.5	-1.2	+0.7	+4.4	+1.5	+2.8	-2.7	-3.8	+0.1	-12.5	+3.2	-3.0	+3.5	-1.1	-0.9
Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Application	466.3	484.9	504.4	524.5												
Percentage*	-0.8	+4.0	+4.0	+4.0												

*Percentage of increase or decrease over previous year. Projected receipts based on 4% increase each calendar year.
Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch.

Table II.B

RECEIPTS OF MEDICAL CERTIFICATE
APPLICATIONS BY CLASS*
1965-1988

Calendar Year	Total	First Class	Percent of Total	Second Class	Percent of Total	Third Class	Percent of Total
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
1982	463,241	110,714	23.9	155,186	33.5	197,341	42.6
1983	477,905	114,219	23.9	171,090	35.8	192,596	40.3
1984	463,617	109,877	23.7	159,948	34.5	193,792	41.8
1985	479,849	126,680	26.4	154,511	32.2	198,658	41.4
1986	474,392	133,304	28.1	146,113	30.8	194,975	41.1
1987	470,208	147,175	31.3	138,241	29.4	184,792	39.3
1988	466,326	147,359	31.6	130,571	28.0	188,396	40.4

*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 1988 were based on percentages compiled from the Record of Physical Examinations Computer Submission Summary, AC 8500-3.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8500-3, Record of Physical Examinations Computer Submission Summary Report.

Table II.C

MEDICAL APPLICATIONS PROCESSING BY THE
AEROMEDICAL CERTIFICATION DIVISION
1988

Month	Applications Received	Applications Coded for Computer Screening	Applications Screened by Computer*	Applications Requiring Manual Review**	Applications Intra-Office Transmitted***
January	36,415	33,515	33,597	12,767	202
February	33,800	39,500	39,887	15,157	182
March	45,700	41,300	41,496	18,473	268
April	38,000	39,300	39,936	15,176	125
May	33,400	31,300	33,468	12,718	139
June	43,650	40,450	35,758	13,588	222
SUBTOTAL	230,965	225,365	224,142	87,879	1,102
July	39,488	36,889	25,324	9,623	275
August	44,800	41,900	43,094	16,376	143
September	40,200	47,000	27,043	10,276	249
October	35,000	30,800	32,139	12,213	160
November	40,744	32,344	36,240	13,771	152
December	35,129	39,229	39,659	15,070	200
SUBTOTAL	235,361	228,162	203,499	77,329	1,179
TOTAL	466,326	453,527	427,641	165,208	2,281

*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 38% of applications screened by computer.

***Figures include applications transmitted to the regions and to the Federal Air Surgeon for certification or review. Represents 0.4% of the applications received.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8065-3, Aeromedical Certification Processing Summary.

Table II.D

AEROMEDICAL CERTIFICATION DIVISION
CORRESPONDENCE UNIT ACTIVITY
1988

Activity	Frequency	Subtotal	Percent of Total
Certification			
Issued and Corrected Certificates	7,973		
Eligibility Letters	23,195		
Issued or Duplicate Waivers	7,965		
		39,133	43.8
Further Action Necessary			
Information Requested	31,140		
Medical Flight Test Authorization	5,081		
Case Summary for the Federal Air Surgeon	544		
Special Issuance Letters	434		
		37,199	41.7
Telegram Replies to Airmen/Agency Offices	1,078	1,078	1.2
Denial Letters			
Final Denials	319		
General Denials	1,141		
Failure to Provide Denials	1,249		
Other Denial Correspondence	2,507	5,216	5.8
Miscellaneous Correspondence*			
AME Error Letters	175		
Other Miscellaneous*	6,507	6,682	7.5
TOTAL		89,308	100.0

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

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

Table II.E
AEROMEDICAL CERTIFICATION DIVISION COMPUTER TAPE FILE SUMMARY
As of: December 31, 1988

Action	Time Lapse Since Date of Last Examination						
	<7 Month	<13 Month	<25 Month	Subtotal	25-36 Month	Over 36 Month	Total
Certified							
First Class	70,388	39,386	16,820	126,594	7,858	N/A	134,452
Second Class	54,415	58,415	76,028	188,858	40,814	N/A	229,672
Third Class	87,310	80,688	180,558	348,556	97,910	N/A	446,466
SUBTOTAL	212,113	178,489	273,406	664,008	146,582	N/A	810,590
Non-Certified							
Pending	2,002	847	1,504	4,353	1,091	N/A	5,444
Denied	1,649	1,904	3,626	7,179	3,141	N/A	10,320
SUBTOTAL	3,651	2,751	5,130	11,532	4,232	N/A	15,764
Link*	N/A	N/A	N/A	N/A	N/A	456,553	456,553
TOTAL	215,764	181,240	278,536	675,540	150,814	456,553	1,282,907

EFFECTIVE STATUS TOTAL: **CLASS 1** = 70,388 **CLASS 2** = 152,216 **CLASS 3** = 441,404

***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 Division, Statistics and Records Branch.

Table II.F

MEDICAL CERTIFICATION ACTIVITY SUMMARY
1986-1988

Activity	CY 1988	CY 1987	CY 1986
Applications for Medical Certification	466,326	470,208	474,392
New Applications for First Class Medical Certificates*	-	4,858	3,089
New Applications for Second Class Medical Certificates*	-	12,100	8,087
New Applications for Third Class Medical Certificates*	-	60,221	43,909
First Class Combined Student/Medical Certificates	5,289	4,580	3,949
Second Class Combined Student/Medical Certificates	12,840	13,090	12,568
Third Class Combined Student/Medical Certificates	101,709	112,941	117,182
Electrocardiograms Received for First Class Pilots	64,766	64,524	55,377
Incoming Correspondence	69,337	70,451	56,145
Outgoing Correspondence	95,490	95,843	86,601
Applications Containing Medical or Clerical Problems	165,208	181,189	178,705
Number of Abnormalities Detected in Electrocardiograms	12,953	12,904	11,075
Number of First Class Active Airmen with Pathology Records	26,388	25,599	24,328
Number of Second Class Active Airmen with Pathology Records	49,546	50,795	51,227
Number of Third Class Active Airmen with Pathology Records	64,865	65,036	64,643

*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 1987, 1,099 or 1.4% new applications were denied, 597 or 0.8% were pending, and 75,483 or 97.8% were issued for a total of 77,179 new applications.

Table II.F (Continued)

MEDICAL CERTIFICATION ACTIVITY SUMMARY
1986-1988

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 Division and inquiries from airmen or regional offices.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8500-1, 8500-3, and 8065-3.

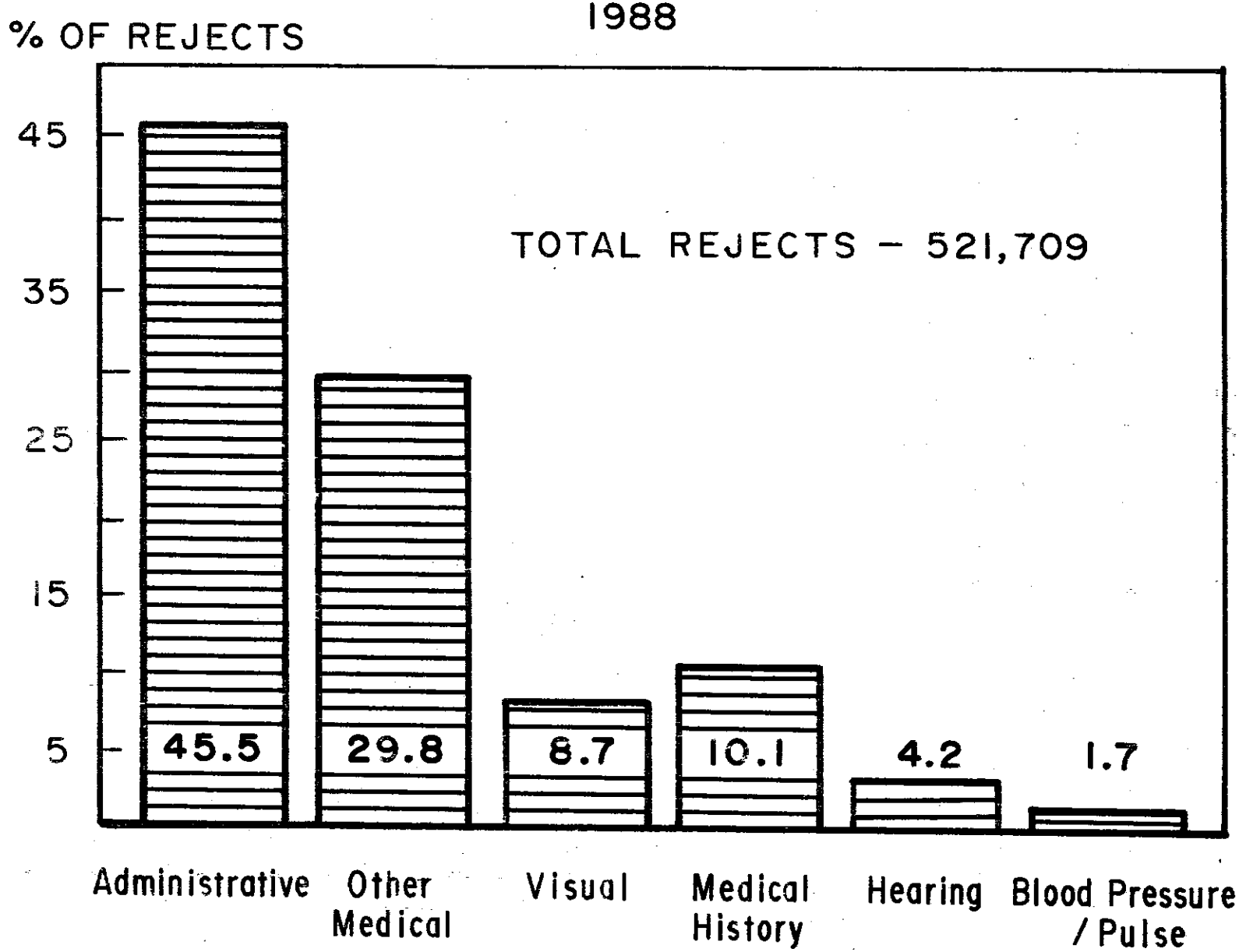
SECTION III

REFERRALS AND DENIALS

This section is concerned with those applications for medical certification which require manual review. 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 Special Issuances and Denials.

Figure III.A

DISTRIBUTION OF CAUSES FOR REVIEW BY MAJOR CATEGORY
1988



Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8500-3, Aeromedical Certification Processing Summary.

Table III.B

DISTRIBUTION OF CAUSES FOR REVIEW BY MAJOR AND MINOR CATEGORIES
1988

Reject	Major Category Totals	Percent	Minor Categories	Percent
Administrative	231,595	44.4		
AME Number Rejects			9,243	1.8
No Ticket Flag Set			61,716	11.8
Previous Exam Has No Ticket Flag			3,640	0.7
Previous Exam Pending			636	0.1
Clerical Reject			16,494	3.2
Airman Over 80 Years of Age			276	0.1
Waiver Rejects			1,626	0.3
Re-Submit Exam to Computer			2,424	0.5
Date of ECG Rejects			6,118	1.2
No Match Between New and Previous Exams			2,780	0.5
Discrepancy in Name/DOB			13,420	2.6
Student/Medical Age Less Than 16			293	0.1
Discrepancy in Social Security Number			14,211	2.7
Other*			98,718	18.8
Visual	41,732	8.0		
Distant Vision			24,291	4.6
Near Vision			12,718	2.4
Intraocular Tension			787	0.2
Field of Vision			479	0.1
Color Vision			3,457	0.7
Other Medical Conditions	156,651	30.0		
Denied or Pending - Current Exam			12,953	2.5
Urinalysis			11,252	2.2
Pathology Codes			52,375	10.0
Abnormalities (Items 25-48)			3,515	0.6
Medication			44,387	8.5
Restrictions			32,169	6.2
Medical History	64,639	12.4		
Special Case			372	0.1
Medical History			43,860	8.4
Previous Exam on Tape Denied			1,761	0.3
Previous Exemption/Special Issuance Case			3,133	0.6
Input Exemption/Special Issuance Case			950	0.2
Follow-up Material Requested			8,925	1.7
Current Information with Previous Record			3,699	0.7
Previous Exam Sent to Washington or Region			626	0.1
Previous Record in ECG Pending/Follow-up Not Required This Exam/File Sent to Consultant			1,313	0.3
Hearing	19,406	3.7		
Hearing			19,406	3.7
Blood Pressure/Pulse	7,686	1.5		
Blood Pressure			5,110	1.0
Pulse			2,576	0.5
TOTAL REJECT MESSAGES	521,709	100.0		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 Division, Statistics and Records Branch; RIS: AC 8065-3, Aeromedical Certification Processing Summary.

Table III.C
Special Issuances and Denials*
As of: December 31, 1988

Category of Issuance/Denial	First Class	Second Class	Third Class	Total
Issuances				
NTSB Issuance	2	11	9	22
Special Issuance by AAM-300	394	265	1,603	2,262
Special Issuance by AAM-1	455	213	627	1,295
Special Issuance by RFS	4	12	92	108
Exemptions	38	40	124	202
Denials				
Final Denials by AAM-300	70	94	397	561
Final Denials by AAM-1	81	41	111	233
Final Denials by RFS	1	4	7	12

*Figures include those cases coded under special issuances or denials on active master file and those still certified under the exemption process.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8065-1, Pathology Code Summary.

SECTION IV

GENERAL AIRMAN POPULATION DATA

This section reflects general data concerning the active airman population. The data presented are as of December 31, 1988, 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 lower class.

Table IV.A

REGIONAL DISTRIBUTION OF ACTIVE AIRMEN BY CLASS OF CERTIFICATE AND EFFECTIVE STATUS*
As of: December 31, 1988

	First Class				Second Class			Third Class		Total Active Airmen				
		Effective Status (Class)**				Effective Status (Class)**			Effective Status (Class)**			Effective Status (Class)**		
Region	First Class Certified	1	2	3	Second Class Certified	2	3	Third Class Certified	3	Total Airmen Certified	Percent of Total Airmen	1	2	3
Eastern	15,921	8,706	5,054	2,161	20,096	12,371	7,725	43,944	43,944	79,961	12.0	8,706	17,425	53,83
Southern	25,600	14,460	8,024	3,116	27,227	17,208	10,019	52,966	52,966	105,793	15.9	14,460	25,232	66,10
Central	4,040	2,405	1,128	507	8,170	5,167	3,003	20,295	20,295	32,505	4.9	2,405	6,295	23,80
Southwest	15,762	8,900	5,008	1,854	20,169	12,937	7,232	38,892	38,892	74,823	11.3	8,900	17,945	47,97
Western-Pacific	20,382	11,243	6,250	2,889	25,844	15,775	10,069	60,737	60,737	106,963	16.1	11,243	22,025	73,69
Northwest-Mountain	11,886	6,750	3,757	1,379	15,407	9,734	5,673	31,297	31,297	58,590	8.8	6,750	13,491	38,34
New England	6,077	3,599	1,753	725	7,702	4,682	3,020	17,652	17,652	31,431	4.7	3,599	6,435	21,39
Great Lakes	17,054	9,694	5,402	1,958	25,545	16,072	9,473	64,611	64,611	107,210	16.2	9,694	21,474	76,04
Alaskan	1,147	570	411	166	3,107	1,958	1,149	5,131	5,131	9,385	1.4	570	2,369	6,44
U.S. TOTAL	117,869	66,327	36,787	14,755	153,267	95,904	57,363	335,525	335,525	606,661	91.3	66,327	132,691	407,64
Military***	53	24	19	10	30,621	13,692	16,929	8,374	8,374	39,048	5.9	24	13,711	25,31
International	8,672	4,037	2,580	2,055	4,970	3,234	1,736	4,657	4,657	18,299	2.8	4,037	5,814	8,448
TOTAL	126,594	70,388	39,386	16,820	188,858	112,830	76,028	348,556	348,556	664,008	100.0	70,388	152,216	441,404
Percent of Total Certified Airmen	(19.1)				(28.4)			(52.5)		(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 at six-month intervals, commercial pilots must be second class medically certified annually, and general aviatic 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 at a military examining facility.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; 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, 1988

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Alabama	751	14	2,020	40	3,876	234	6,647	288
Alaska	1,118	28	2,920	160	4,567	548	8,605	736
Arizona	2,662	107	3,335	177	6,556	650	12,553	934
Arkansas	570	15	1,721	32	3,122	222	5,413	269
California	14,863	570	19,342	1,007	45,971	4,419	80,176	5,996
Colorado	4,359	180	3,673	186	5,870	581	13,902	947
Connecticut	2,206	78	1,894	99	3,973	338	8,073	515
Delaware	288	11	371	17	714	56	1,373	84
District of Columbia	72	5	127	9	252	41	451	55
Florida	10,666	362	10,932	474	17,680	1,611	39,278	2,447
Georgia	5,575	92	3,274	122	7,236	556	16,085	770
Hawaii	922	46	638	34	666	73	2,226	153
Idaho	427	7	1,022	39	2,198	174	3,647	220
Illinois	4,876	172	5,404	289	12,743	1,022	23,023	1,483
Indiana	1,416	60	2,766	122	6,812	469	10,994	651
Iowa	490	5	1,740	54	4,535	270	6,765	329
Kansas	1,061	20	2,257	72	4,961	397	8,279	489
Kentucky	947	30	1,152	37	2,934	213	5,033	280
Louisiana	1,437	24	2,404	75	3,398	216	7,239	315
Maine	437	9	819	27	2,032	167	3,288	203
Maryland	1,474	52	2,001	111	4,655	456	8,130	619
Massachusetts	1,593	76	2,801	181	6,477	614	10,871	871
Michigan	2,340	87	4,324	239	10,929	775	17,593	1,101
Minnesota	3,325	166	3,104	128	8,112	587	14,541	881
Mississippi	458	6	1,419	39	1,985	137	3,862	182
Missouri	1,974	42	2,693	130	6,593	524	11,260	696
Montana	342	10	1,076	31	2,160	158	3,578	199
Nebraska	435	8	1,181	36	2,826	189	4,442	233
Nevada	1,138	25	1,182	64	2,099	207	4,419	296
New Hampshire	1,155	38	1,018	63	1,910	184	4,083	285
New Jersey	2,913	79	2,989	178	6,396	478	12,298	735
New Mexico	536	21	1,132	54	2,041	191	3,709	266

Table IV.B (Continued)

ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED*
As of: December 31, 1988

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
New York	3,571	131	5,277	245	11,413	940	20,261	1,316
North Carolina	2,755	86	3,115	119	6,829	541	12,699	746
North Dakota	358	35	817	31	1,580	92	2,755	158
Ohio	2,542	83	4,974	234	11,760	946	19,276	1,263
Oklahoma	1,151	49	2,774	79	5,718	507	9,643	635
Oregon	833	31	2,340	106	5,434	487	8,607	624
Pennsylvania	3,673	151	4,442	253	9,935	854	18,050	1,258
Rhode Island	227	6	335	21	826	80	1,388	107
South Carolina	1,077	35	1,449	56	3,178	246	5,704	337
South Dakota	188	4	690	21	1,366	87	2,244	112
Tennessee	2,632	85	2,735	135	5,195	405	10,562	625
Texas	11,682	229	11,357	391	21,542	1,822	44,581	2,442
Utah	996	18	1,142	40	2,594	172	4,732	230
Vermont	241	8	385	28	954	93	1,580	129
Virginia	3,166	84	3,125	200	5,572	544	11,863	828
Washington	4,382	147	4,914	276	9,281	998	18,577	1,421
West Virginia	216	9	578	18	1,398	99	2,192	126
Wisconsin	1,357	38	2,291	83	6,820	505	10,468	626
Wyoming	147	3	511	19	1,100	76	1,758	98
U.S. CIVILIAN TOTAL	114,020	3,677	145,982	6,681	308,774	26,251	568,776	36,609
NASA	196	4	388	20	426	56	1,010	80
Military	55	2	29,330	1,512	7,766	664	37,151	2,178
International	8,505	135	4,789	156	4,342	277	17,636	568
TOTAL AIRMEN	122,776	3,818	180,489	8,369	321,308	27,248	624,573	39,435

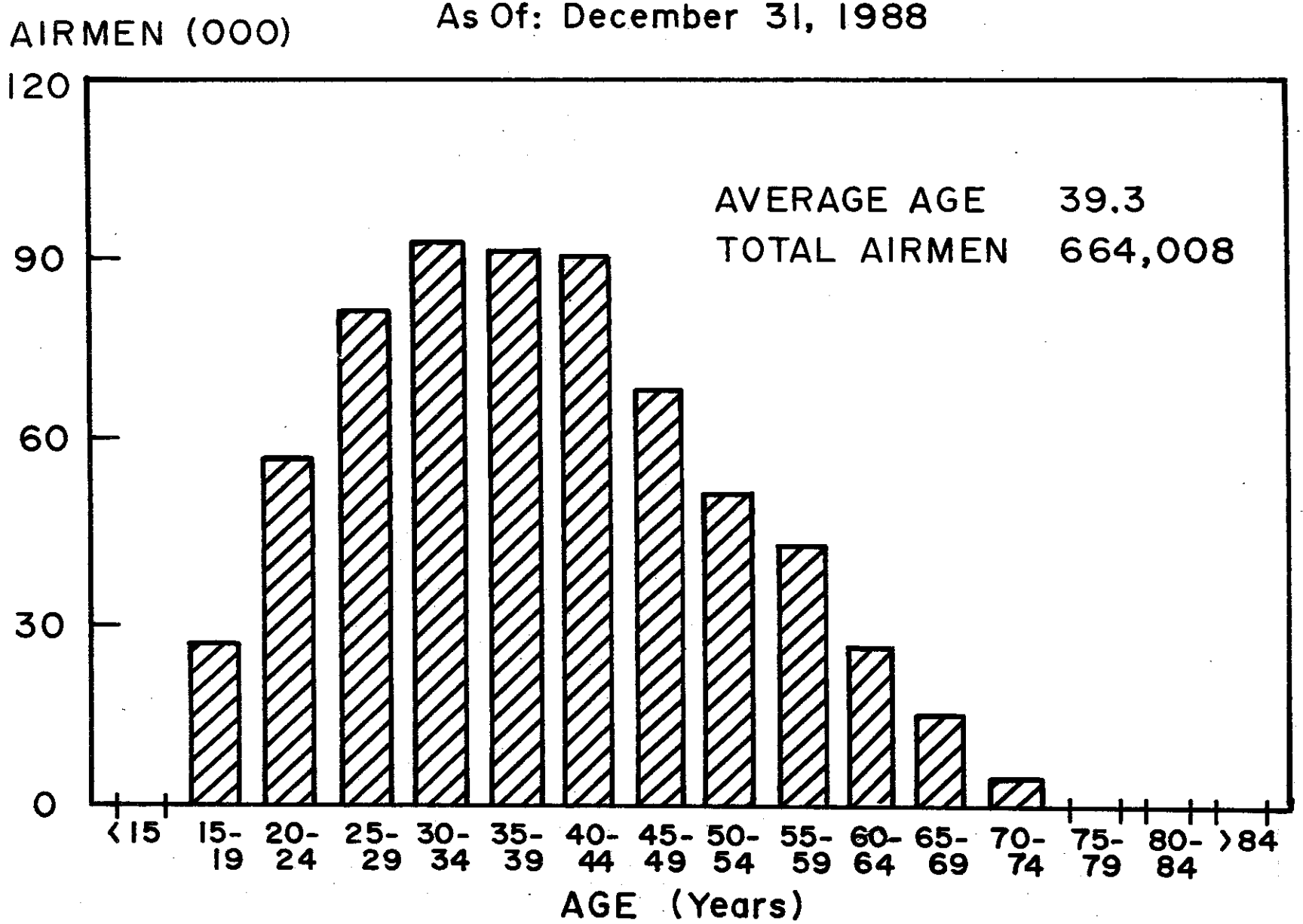
*Totals are based on active airmen certified within the past 25 months.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Fig' ? IV.C

AGE DISTRIBUTION OF MEDICALLY CERTIFIED AIRMEN

As Of: December 31, 1988

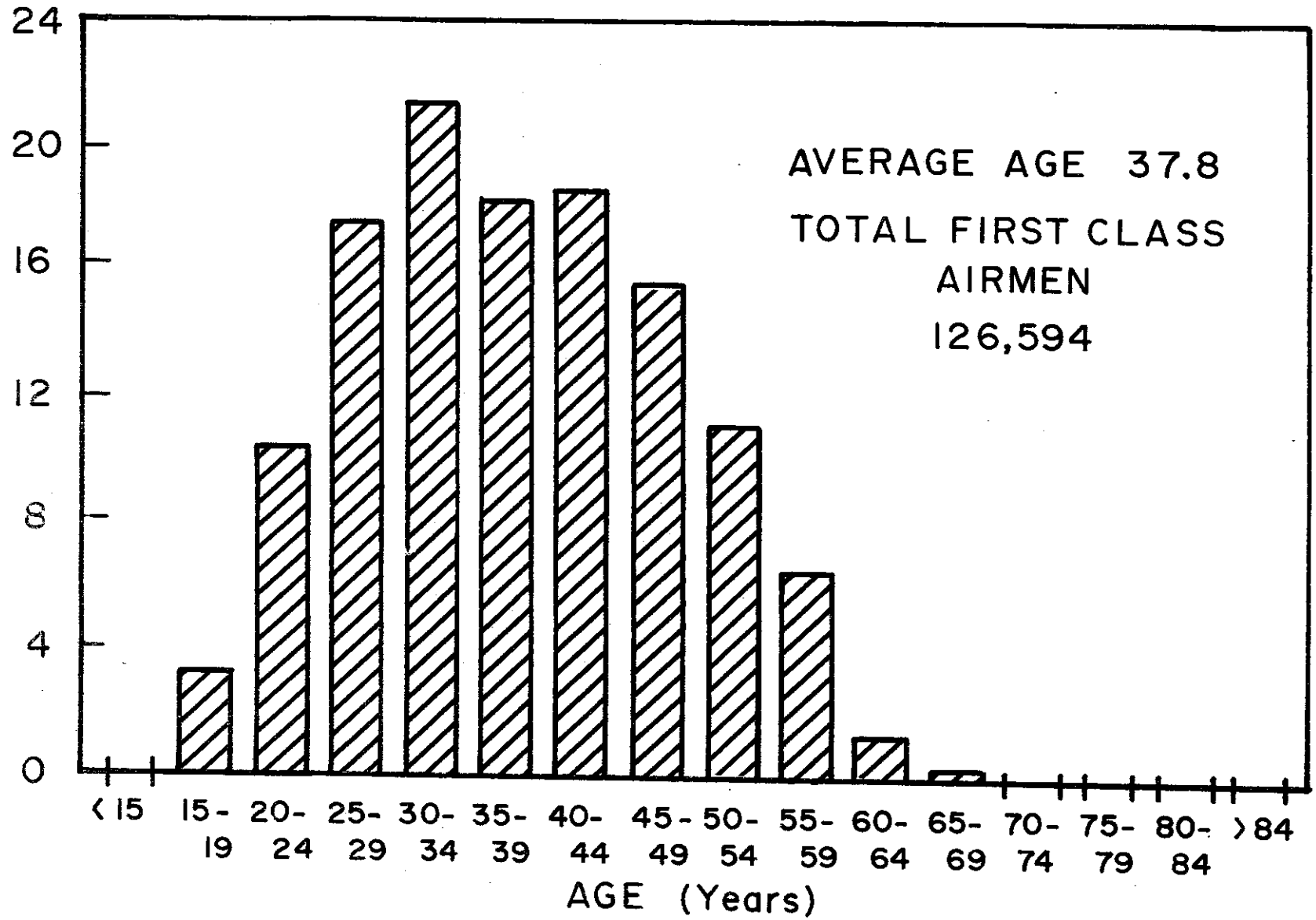


Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer P

AGE DISTRIBUTION OF MEDICALLY CERTIFIED FIRST CLASS AIRMEN

As Of: December 31, 1988



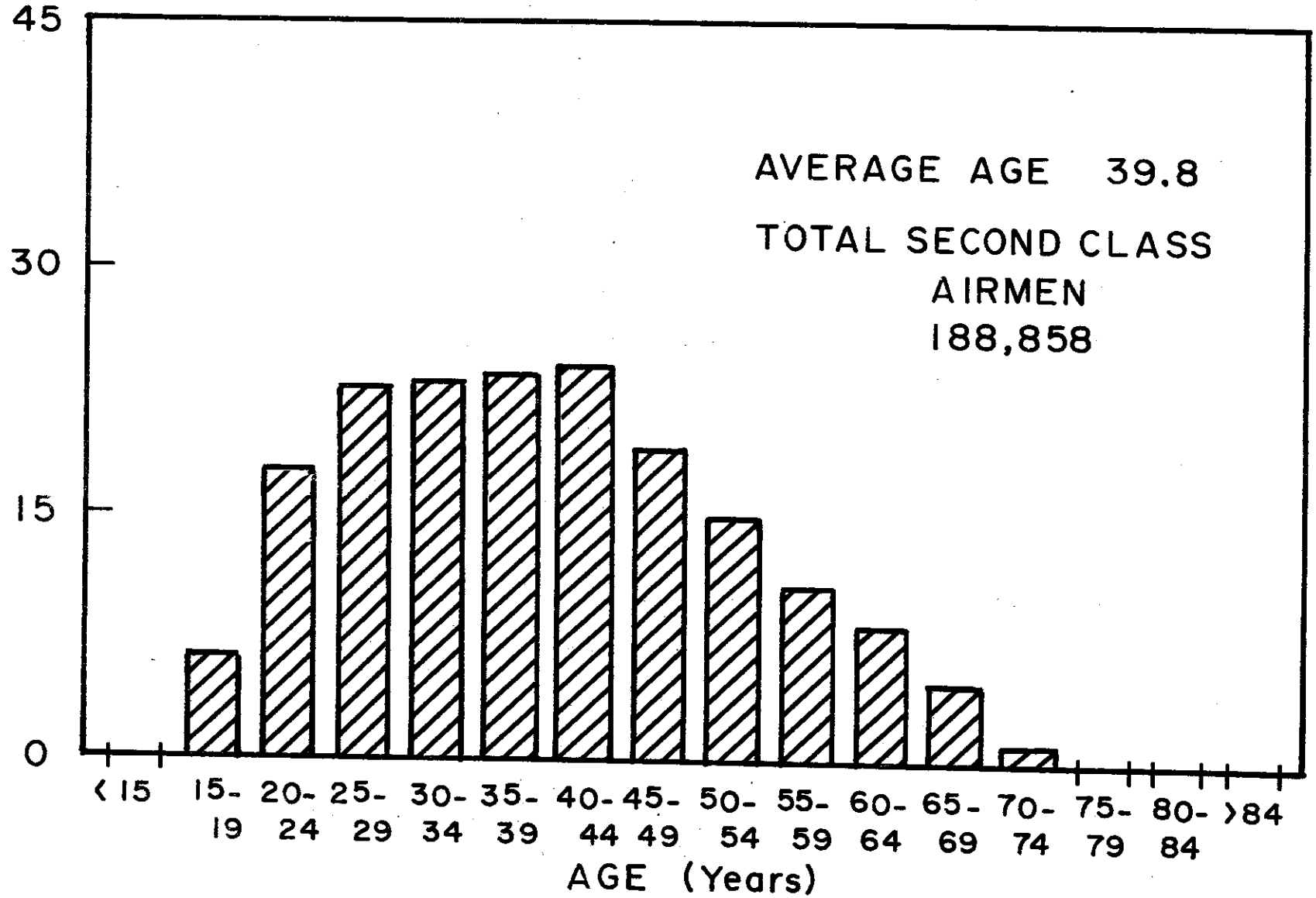
Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

Source: Civil Aeromedical Institute, Aerome[illegible]al Certification Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedica[illegible]tification Statistical Handbook Computer Run

Figure IV.E

AGE DISTRIBUTION OF MEDICALLY CERTIFIED SECOND CLASS AIRMEN

AIRMEN (000) As Of: December 31, 1988

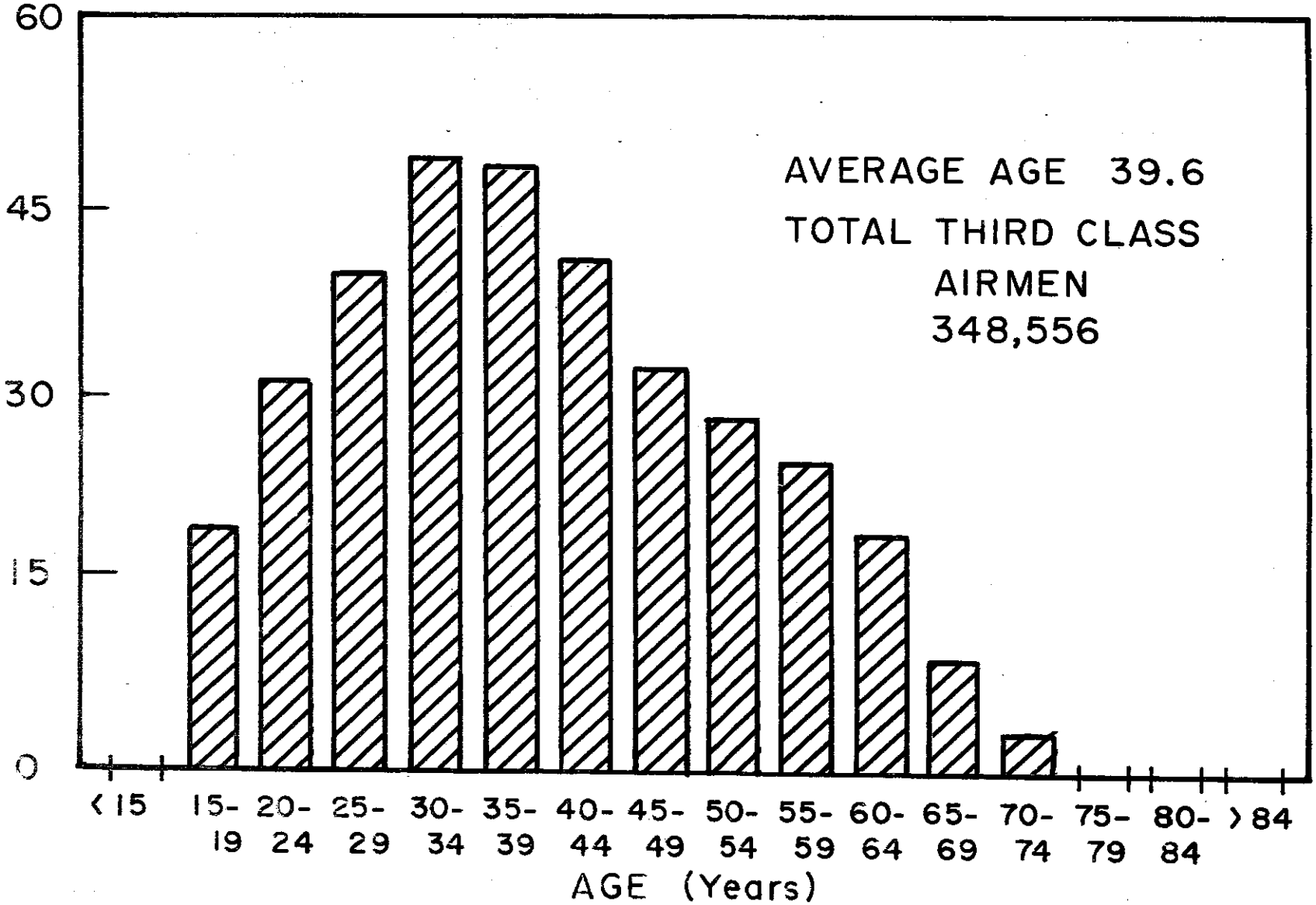


Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

AGE DISTRIBUTION OF MEDICALLY CERTIFIED THIRD CLASS AIRMEN

AIRMEN (000) As Of: December 31, 1988



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 Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedical tification Statistical Handbook Computer Run.

Table IV.G

AGE DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*
As of: December 31, 1988

Age	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 15	3	-	4	-	77	15	84	15
15 - 19	3,024	335	6,060	699	17,120	2,511	26,204	3,545
20 - 24	9,841	784	16,391	1,536	27,363	2,960	53,595	5,280
25 - 29	16,689	1,029	21,547	1,545	36,300	3,892	74,536	6,466
30 - 34	20,876	846	22,102	1,171	43,766	4,399	86,744	6,416
35 - 39	17,865	451	25,260	1,071	43,463	3,991	86,588	5,513
40 - 44	18,570	195	27,148	783	40,001	3,418	85,719	4,396
45 - 49	15,718	101	19,100	528	31,842	2,351	66,660	2,980
50 - 54	11,303	41	14,878	334	25,615	1,557	51,796	1,932
55 - 59	6,580	20	11,837	299	23,953	1,140	42,370	1,459
60 - 64	1,479	10	8,656	225	18,007	660	28,142	895
65 - 69	687	4	5,473	124	9,360	256	15,520	384
70 - 74	125	2	1,607	41	3,402	72	5,134	115
75 - 79	12	-	349	11	836	23	1,197	34
80 - 84	4	-	67	1	177	2	248	3
85 and over	-	-	10	1	26	1	36	2
TOTAL	122,776	3,818	180,489	8,369	321,308	27,248	624,573	39,435
Average Age	38.9	29.2	40.3	33.8	39.9	35.4	39.6	34.5

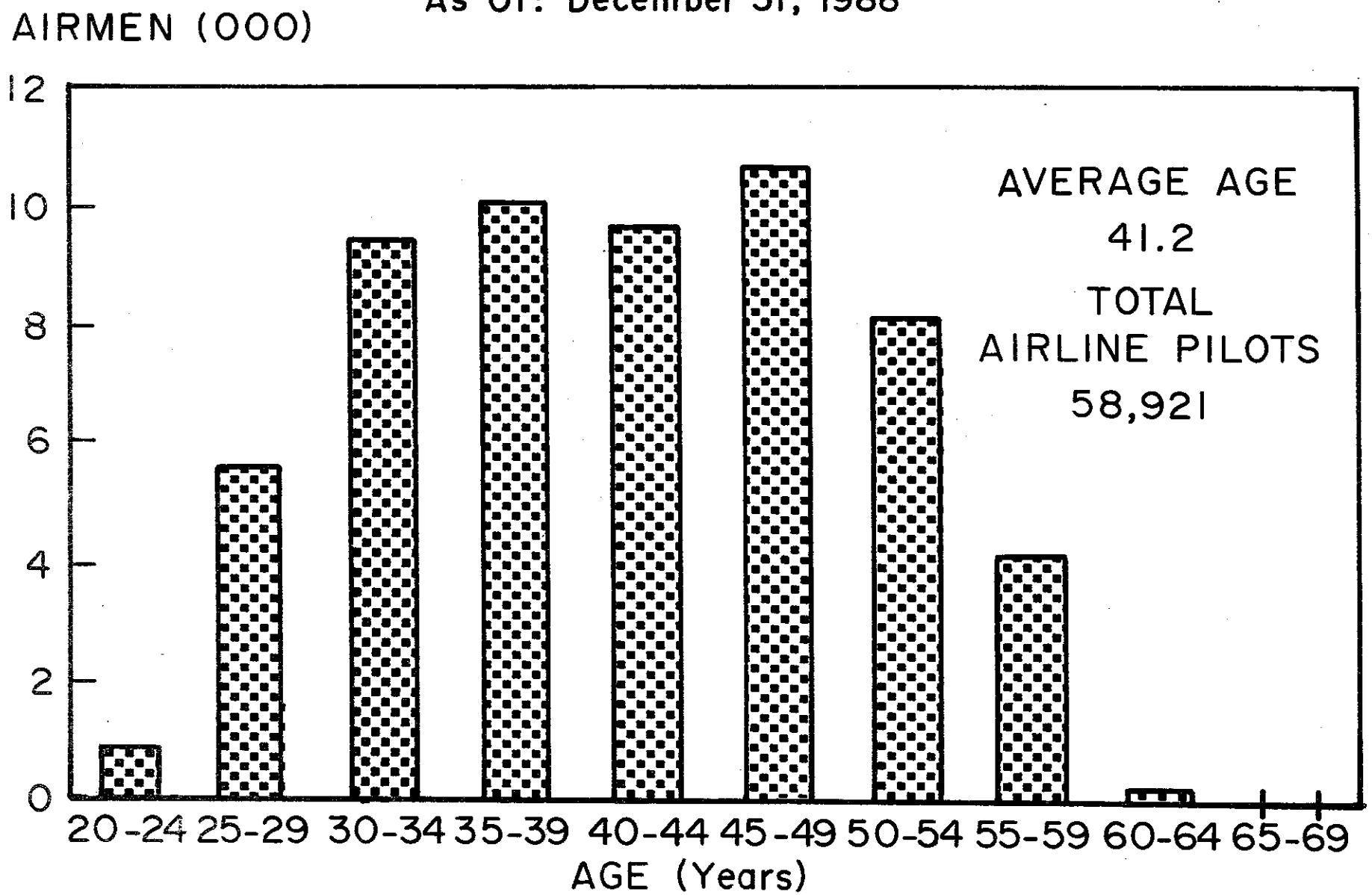
*Totals are based on active certified airmen within the past 25 months.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.H

AGE DISTRIBUTION OF AIRLINE PILOTS

As Of: December 31, 1988



Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table IV.I

AGE DISTRIBUTION OF AIRLINE PILOTS*
As of: December 31, 1988

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)
20 - 24	990	10,625	1.7	8.6
25 - 29	5,663	17,718	9.6	14.4
30 - 34	9,499	21,722	16.1	17.7
35 - 39	10,006	18,316	17.0	14.9
40 - 44	9,709	18,765	16.5	15.3
45 - 49	10,543	15,819	17.9	12.8
50 - 54	8,097	11,344	13.7	9.2
55 - 59	4,123	6,600	7.0	5.4
SUBTOTAL	58,630	120,909		
60 - 64	229	1,489	0.4	1.1
65 - 69	62	691	0.1	0.6
TOTAL	58,921	123,089	100.0	100.00
Average Age	41.2	38.4		

*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 of 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 Division, Statistics and Records Branch; 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, 1988

Height in Inches	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 59	211	51	383	93	523	227	1,117	371
59	96	6	171	33	234	95	501	134
60	144	36	360	203	638	753	1,142	992
61	76	60	150	257	365	902	591	1,219
62	90	224	200	632	522	2,530	812	3,386
63	129	320	354	863	859	2,931	1,342	4,114
64	460	579	1,095	1,277	2,197	4,193	3,752	6,049
65	1,099	572	2,191	1,200	4,317	3,791	7,607	5,563
66	3,037	664	5,783	1,269	11,091	4,053	19,911	5,986
67	6,138	524	9,746	973	17,843	3,125	33,727	4,622
68	11,642	369	17,526	742	31,215	2,278	60,383	3,389
69	13,732	202	20,521	397	34,415	1,189	68,668	1,788
70	18,757	123	27,501	242	50,251	615	96,509	980
71	17,285	52	25,300	99	45,495	232	88,080	383
72	22,847	22	31,900	60	55,624	170	110,371	252
73	10,657	3	15,032	9	26,441	36	52,130	48
74	8,877	6	11,646	5	20,253	51	40,776	62
75	4,136	1	5,611	3	9,639	25	19,386	29
Over 75	3,363	4	5,019	12	9,386	52	17,768	68
TOTAL	122,776	3,818	180,489	8,369	321,308	27,248	624,573	39,435
Average Height	70.7	64.6	70.5	65.2	70.5	65.0	70.5	65.1

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

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; 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, 1988

Weight in Pounds	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 90	2	2	2	6	15	18	19	26
90 - 99	1	21	7	81	26	287	34	389
100 - 109	28	225	59	445	219	1,667	306	2,337
110 - 119	170	725	267	1,351	837	4,297	1,274	6,373
120 - 129	692	1,032	1,139	1,936	2,791	6,321	4,622	9,289
130 - 139	2,548	894	3,961	1,818	8,019	5,504	14,528	8,216
140 - 149	6,831	475	9,517	1,160	17,513	3,680	33,861	5,315
150 - 159	13,797	232	18,285	657	31,550	2,221	63,632	3,110
160 - 169	20,692	86	27,027	367	46,118	1,212	93,837	1,665
170 - 179	22,856	49	30,483	190	51,388	759	104,727	998
180 - 189	20,539	43	30,105	148	50,626	481	101,270	672
190 - 199	14,186	17	21,708	73	37,354	312	73,248	402
200 - 209	8,481	7	14,448	51	25,975	162	48,904	220
210 - 219	5,390	4	9,322	25	17,873	109	32,585	138
220 - 229	3,116	1	6,022	18	12,202	73	21,340	92
230 - 239	1,597	2	3,479	19	7,379	46	12,455	67
240 - 249	861	-	1,985	4	4,431	48	7,277	52
Over 249	989	3	2,673	20	6,992	51	10,654	74
TOTAL	122,776	3,818	180,489	8,369	321,308	27,248	624,573	39,435
Average Weight	179.2	131.3	181.9	135.4	182.8	135.8	177.1	135.3

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

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; 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, 1988

Class Issued	Type of Flying**					
	Business	Percent	Pleasure	Percent	Business & Pleasure	Percent
First	106,941	(16.1)	19,014	(2.9)	639	(0.1)
Second	76,269	(11.5)	110,747	(16.7)	1,842	(0.3)
Third	38,602	(5.8)	307,097	(46.2)	2,857	(0.4)
TOTAL	221,812	(33.4)	436,858	(65.8)	5,338	(0.8)

*Totals are based on active airmen certified within the past 25 months. Basis for percentage computations is also total active certified airmen (664,008).

**Based on response by airmen 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 Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Tab V.M

ACTIVE AIRMEN BY OCCUPATION, CLASS AND SEX*
As of: December 31, 1988

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)	61,133	1,078	260	17	48	1	61,441	1,096	9.4
2 - Flight Engineer	1,567	41	2,347	15	10	-	3,924	56	0.6
3 - Flight Navigator/Flight Radio Operator	16	1	96	1	9	-	121	2	0.1
4 - Business or Executive Pilot	23,962	652	428	8	17	1	24,407	661	3.8
5 - Commercial Pilot (Self Employed)	44	1	4,661	118	32	-	4,737	119	0.7
6 - Commercial Pilot (Not Self Employed)	274	14	16,771	356	53	1	17,098	371	2.6
7 - Aero Application (Agriculture)	103	1	2,787	3	9	-	2,899	4	0.5
8 - Air Traffic Controllers**	321	21	10,814	1,450	164	34	11,299	1,505	1.9
9 - Flight Instructor	3,380	332	3,927	393	16	-	7,323	725	1.2
0 - Aircraft Mechanic & Fixed Base Operator	419	6	2,271	22	179	2	2,869	30	0.4
X - Not Given or Non-Aeronautical Occupation	31,557	1,671	136,127	5,986	320,771	27,209	488,455	34,866	78.8
TOTAL	122,776	3,818	180,489	8,369	321,308	27,248	624,573	39,435	100.0

*Totals are based on active airmen certified within the past 25 months. Occupation was based on response by the airmen 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.

**Includes military ATCs and civilian (FAA) ATCs who are also pilots and/or were issued a medical certificate.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; 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, 1988

Employer	First Class	Second Class	Third Class	Total	Major Percent of Total
Air California	6	2	-	8	
Air Canada	6	-	-	6	
Air France	5	-	1	6	
Air Nevada	15	-	-	15	
Air Pennsylvania	5	-	-	5	
Air Wisconsin	188	3	1	192	
Airlift Associates	12	1	-	13	
Alaska Airlines	618	63	3	684	
Aloha Airlines	123	8	-	131	
American Airlines	6,295	1,167	9	7,471	
American Flyers	10	8	-	18	
Aspen Airways	71	10	-	81	
Atlantic Airlines	8	4	-	12	
Bankair, Inc.	7	3	-	10	
Bar Harbor Airlines	129	4	-	133	
Big Sky Airlines	15	2	-	17	
Braniff Airlines	550	12	1	563	
British Airways	5	-	-	5	
Britt Airways	147	4	-	151	
Capitol International Airways	6	2	-	8	
Comair, Inc.	302	8	-	310	
Continental Airlines	4,230	81	7	4,318	
Delta Airlines	6,236	53	8	6,297	
Eastern Airlines	3,857	76	4	3,937	
Flying Tiger Lines	759	109	-	868	
Great Lakes Airlines	6	-	-	6	
Hawaiian Airlines	333	34	-	367	
Japan Airlines	18	46	-	64	
Korean Airlines	256	88	-	344	
Lufthansa-German Airlines	2	17	-	19	
Metro Airlines	57	4	-	61	
Metroflight Airlines	6	-	-	6	
Midstate Airlines	13	1	-	14	
Midway Airlines	345	23	2	370	
Northwest Orient Airlines	4,774	83	4	4,861	
Pacific Southwest Airlines	87	9	6	102	
Pan American World Airways	1,990	550	2	2,542	
Piedmont Aviation	2,549	45	3	2,597	

Table IV.N (Continued)

EMPLOYERS OF ACTIVE AIRMEN BY
CLASS OF CERTIFICATE ISSUED*
As of: December 31, 1988

Employer	First Class	Second Class	Third Class	Total	Major Percent of Total
South Central Air	5	-	-	5	
Southwest Airlines	738	22	-	760	
Trans International	4	1	-	5	
Trans World Airlines	3,067	128	3	3,198	
U. S. Air	2,594	118	5	2,717	
United Airlines	5,993	610	13	6,616	
Western Airlines	9	5	-	14	
World Airways	88	32	-	120	
Zantop Airways	162	18	-	180	
SUBTOTAL - ALL AIRLINES	46,701	3,454	72	50,227	(7.6)
Federal Aviation Administration	1,107	6,473	328	7,908	(1.2)
Government, other than Military or FAA, includes State and Local Government	974	1,870	15	2,859	(0.4)
Aircraft Industry	524	599	24	1,147	(0.2)
Industry, other than aircraft	7,911	4,430	20	12,361	(1.9)
Fixed Base Operation (flying schools, etc.)	3,155	5,687	86	8,928	(1.3)
Self Employed	4,015	7,862	56	11,933	(1.8)
Other	28,928	10,466	102	39,496	(6.0)
Not Applicable	28,083	129,946	347,495	505,524	(76.1)
Air Force	3,262	8,755	95	12,112	(1.8)
Army	491	4,668	38	5,197	(0.8)
Coast Guard	138	179	-	317	(0.0+)
Marines and Navy	1,221	4,264	55	5,540	(0.8)
National Aeronautics and Space Administration	84	205	170	459	(0.1)
SUBTOTAL - ALL OTHERS	79,893	185,404	348,484	613,781	(92.4)
TOTAL	126,594	188,858	348,556	664,008	(100.0)

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

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; 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, 1988, by class of medical certificate issued.

Table V.A

ACTIVE AIRMEN BY NUMBER OF RESTRICTIONS
CARRIED, CLASS AND SEX*
As of: December 31, 1988

Number of Restrictions	First Class		Second Class		Third Class		Total Airmen		Total Airmen	Total Restrictions
	Male	Female	Male	Female	Male	Female	Male	Female		
1	46,220	1,234	91,762	3,952	157,767	13,401	295,749	18,587	314,336	314,336
2	532	6	1,947	75	7,479	142	9,958	223	10,181	20,362
3	22	-	110	1	205	1	337	2	339	1,017
4	2	-	2	1	4	1	8	2	10	40
5	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-
More than 6	-	-	-	-	-	-	-	-	-	-
Total Airmen	46,776	1,240	93,821	4,029	165,455	13,545	306,052	18,814	324,866	335,755

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

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; 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, 1988

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Must Have Available Glasses for Near Vision	14,758	53	18,537	433	38,007	2,209	71,302	2,695
Must Wear Corrective Lenses	21,026	947	44,396	2,367	76,803	7,669	142,225	10,983
Must Wear Glasses for Near and Distant Vision	3,935	91	12,983	462	19,651	1,446	36,569	1,999
Must Wear Lenses for Distant - Possess Glasses for Near Vision	6,596	141	16,691	643	25,667	2,086	48,954	2,870
Must Wear Prismatic Correction	7	-	18	-	25	-	50	-
Must Wear Corrective Lenses: Extra Pair Must be Available	35	3	143	11	185	14	363	28
Must Wear Hearing Aid	49	-	161	5	487	22	697	27
Must Wear Artificial Limb	18	-	77	-	186	3	281	3
Oxygen Required When Flying Above 7,999 Feet	3	-	-	-	6	-	9	-
Passenger Carrying Prohibited	1	-	4	-	4	1	9	1
Not Valid for Pilot in Command	4	-	24	-	3	-	31	-

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As of: December 31, 1988

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Not Valid for Control Tower Operator Duties	4	-	11	-	25	-	40	-
Not Valid for Air Transport Duties	2	-	1	-	1	-	4	-
Not Valid for Night Flying or By Color Signal Control (Color Vision)	149	-	1,020	3	6,771	26	7,940	29
Not Valid for Night Flying (Glaucoma)	3	-	-	-	4	-	7	-
Not Valid for Flying Where Radio Use is Required	1	-	9	-	58	2	68	2
Valid for Flight Service Station or Center Duties Only	-	-	1	-	-	-	1	-
Valid for Flight Test Only	9	-	15	-	13	-	37	-
Second Class Privileges Limited to Crop Dusting	-	-	4	-	-	-	4	-
Second Class Privileges Limited to Flight Engineer Duties	3	-	28	1	1	-	32	1

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As of: December 31, 1988

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Second Class Privileges Limited to Control Tower Operator Duties	-	-	2	-	-	-	2	-
Valid for and Limited to ATC Duties Only	3	-	202	29	26	2	231	31
Valid for ATC Duties - Center Only	-	1	19	3	2	1	21	5
Valid for Flight Service Station Duties Only	-	-	8	-	1	-	9	-
Limited to Military Controller Duties	-	-	261	119	6	-	267	119
Valid for Control Tower Duties When Second Controller on Duty	-	-	2	-	2	-	4	-
Valid Only When Accompanied by Another Qualified Pilot	-	-	16	-	1	-	17	-
Valid for Student Pilot Purposes Only	21	-	93	5	1,456	109	1,570	114
Second Class Privileges Limited to Cargo Operations	-	-	1	-	-	-	1	-

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As of: December 31, 1988

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Time Limitation Restrictions	459	2	872	20	3,250	79	4,581	101
Special Issuance/Panel Restrictions	15	1	21	-	88	3	124	4
Miscellaneous Restrictions	257	7	374	8	627	20	1,258	35
TOTAL	47,358	1,246	95,994	4,109	173,356	13,692	316,708	19,047

*Figures are based on active airmen certified within the past 25 months; however, the restriction may have been assigned prior to the most recent examination. Airmen may have more than one restriction.

Source: Civil Aeromedical Institute, Aeromedical Certification Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table V.C

ACTIVE AIRMEN WITH DEFECTIVE COLOR VISION
BY CLASS AND SEX*
As of: December 31, 1988

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	1,782	(1.5)	1	(0.0+)
Second	4,509	(2.5)	8	(0.0+)
Third	11,494	(3.6)	36	(0.1)
TOTAL	17,785	(2.9)	45	(0.1)

*Figures are based on active airmen certified within the past 25 months and the assignment of the restriction "Not Valid For Night Flying or by Color Signal Control" or issuance of a waiver for deficient color vision.

**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 Division, Statistics and Records Branch; 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, 1988

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	9,177	(7.5)	353	(9.3)
Second	27,417	(15.2)	1,097	(13.1)
Third	16,495	(5.1)	492	(1.8)
TOTAL	53,089	(8.5)	1,942	(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 Division, Statistics and Records Branch; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.