

1973

AEROMEDICAL CERTIFICATION STATISTICAL HANDBOOK



DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

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 1973, 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
1971-1973

Region	Percent of 1973 Total*	Aviation Medical Examiners		
		1973	1972	1971
Eastern	11.6	863	835	885
Central	8.1	599	596	590
Southern	13.7	1,019	1,026	1,005
Southwest	11.6	862	883	850
Western	12.2	907	965	974
Rocky Mountain	5.8	429	436	418
Northwest	5.5	406	392	370
New England	2.9	216	213	199
Great Lakes	15.1	1,117	1,139	1,146
Alaskan	1.0	76	79	81
Pacific	0.6	44	47	47
SUBTOTAL	88.1	6,538	6,611	6,565
Military**	7.7	575	599	629
International	4.2	313	296	292
TOTAL	100.0	7,426	7,506	7,486

*The basis for percentage computations is total designations as of the end of calendar year 1973, i.e., U.S. and International designations represent one physician for each designation; whereas, Military designations represent one facility for each designation.

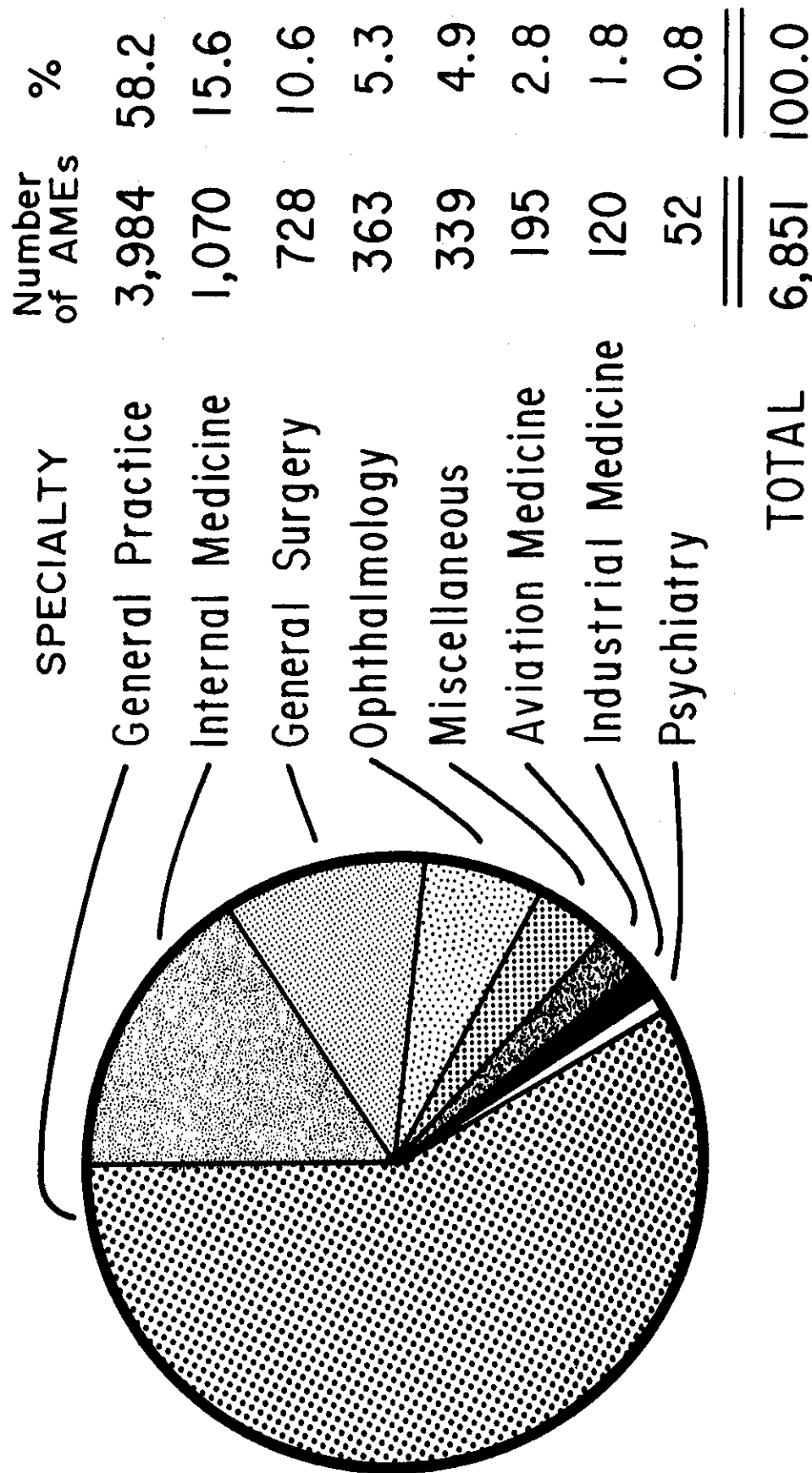
**Denotes military installation designations rather than individual physicians.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Aviation Medical Examiner Section; RIS: AC 8520-2, AME Worklist by State (Designated FAA Aviation Medical Examiners by Region and State).

Figure I.B

MEDICAL PRACTICE OF AVIATION MEDICAL EXAMINERS*

1973



*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

1973

Region	Active U.S. Civil Airman Population*	U.S. Non- Military AME Population**	Ratio AME's To Airmen
Eastern	92,256	863	1:107
Central	42,880	599	1:72
Southern	93,662	1,019	1:92
Southwest	73,384	862	1:85
Western	110,845	907	1:122
Rocky Mountain	29,158	429	1:68
Northwest	32,048	406	1:79
New England	28,875	216	1:134
Great Lakes	124,767	1,117	1:112
Alaskan	7,152	76	1:94
Pacific	2,120	44	1:48
TOTAL	637,147	6,538	1:97

*Active U.S. Civil Airman Population figures are as of December 31, 1973, 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, 1974, 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*
1973

Date	Location	Attendance
July 16-18	New Orleans, Louisiana	199
August 8-10	Chicago, Illinois	132
October 29-31	Washington, D.C.	175
November 14-16	San Francisco, California	300
TOTAL		806

*Nine scheduled seminars were cancelled during 1973 due to budgetary limitations.

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

Table I.E

AVIATION MEDICAL EXAMINER
SEMINARS AND ATTENDANCE
1960-1973

Year	Seminars	Attendance
1960	1	49
1961	16	1,030
1962	24	1,433
1963	13	1,152
1964	9	1,406
1965	10	1,595
1966	7	1,186
1967	11	1,281
1968	5	553
1969	7	971
1970	5	751
1971	10	1,521
1972	5	875
1973	4	806
TOTAL	127	14,609

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

ACTIVE AVIATION MEDICAL EXAMINERS
SEMINAR ATTENDANCE BY REGION*
1973

Region	Total AME's	One Seminar	More Than One Seminar	No Participation At Seminars
Eastern	863	341	471	51
Central	599	259	297	43
Southern	1,019	468	439	112
Southwest	862	360	443	59
Western	907	394	476	37
Rocky Mountain	429	172	222	35
Northwest	406	146	213	47
New England	216	78	99	39
Great Lakes	1,117	480	546	91
Alaskan	76	41	24	11
Pacific	44	23	16	5
International	313	66	11	236
TOTAL	6,851	2,828	3,257	766
Percent of Total	100.0	41.3	47.5	11.2

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

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

Table I.G
REGIONAL ACTIVITIES OF THE
AVIATION MEDICAL EXAMINER PROGRAM*
1973

Region	Number of AME's Designated 1-15-73	New Designations	Separations	Net Gain or Loss	Number of AME's Designated 1-15-74
Eastern	835	68	40	28	863
Central	596	30	27	3	599
Southern	1,026	61	68	- 7	1,019
Southwest	883	32	53	-21	862
Western	965	31	89	-58	907
Rocky Mountain	436	30	37	- 7	429
Northwest	392	44	30	14	406
New England	213	16	13	3	216
Great Lakes	1,139	68	90	-22	1,117
Alaskan	79	9	12	- 3	76
Pacific	47	2	5	- 3	44
International	296	34	17	17	313
TOTAL	6,907	425	481	-56	6,851

*Figures are based on U. S. and international aviation medical examiners; does not include military installations.

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

AVIATION MEDICAL EXAMINER SUMMARY DATA
1973

A. Number of Designated U.S. Non-Military Aviation Medical Examiners	6,538
B. Number of Designated International Aviation Medical Examiners	313
C. Number of Designated Military Aviation Medical Examiners (Installations)	575
D. Ratio of U.S. Non-Military Aviation Medical Examiners to U.S. Civil Airmen	1:97
E. Percentage of Non-Military Aviation Medical Examiners Who Are Qualified Pilots	49%*
F. Percentage of Aviation Medical Examiners Who Were Military Flight Surgeons	16%*
G. Percentage of Non-Military Aviation Medical Examiners Who Participate in Accident Investigation	77%*
H. Percentage of Non-Military Aviation Medical Examiners Who Have Attended One Seminar	41%*
I. Percentage of Non-Military Aviation Medical Examiners Who Have Attended More Than One Seminar	48%*
J. Percentage of Non-Military Aviation Medical Examiners Who Have Not Attended a Seminar	11%*
K. Total Number of Seminars Conducted in 1973	4
L. Total Attendance of Aviation Medical Examiners at Seminars Conducted in 1973	806

*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.

SECTION II

CERTIFICATION ACTIVITY

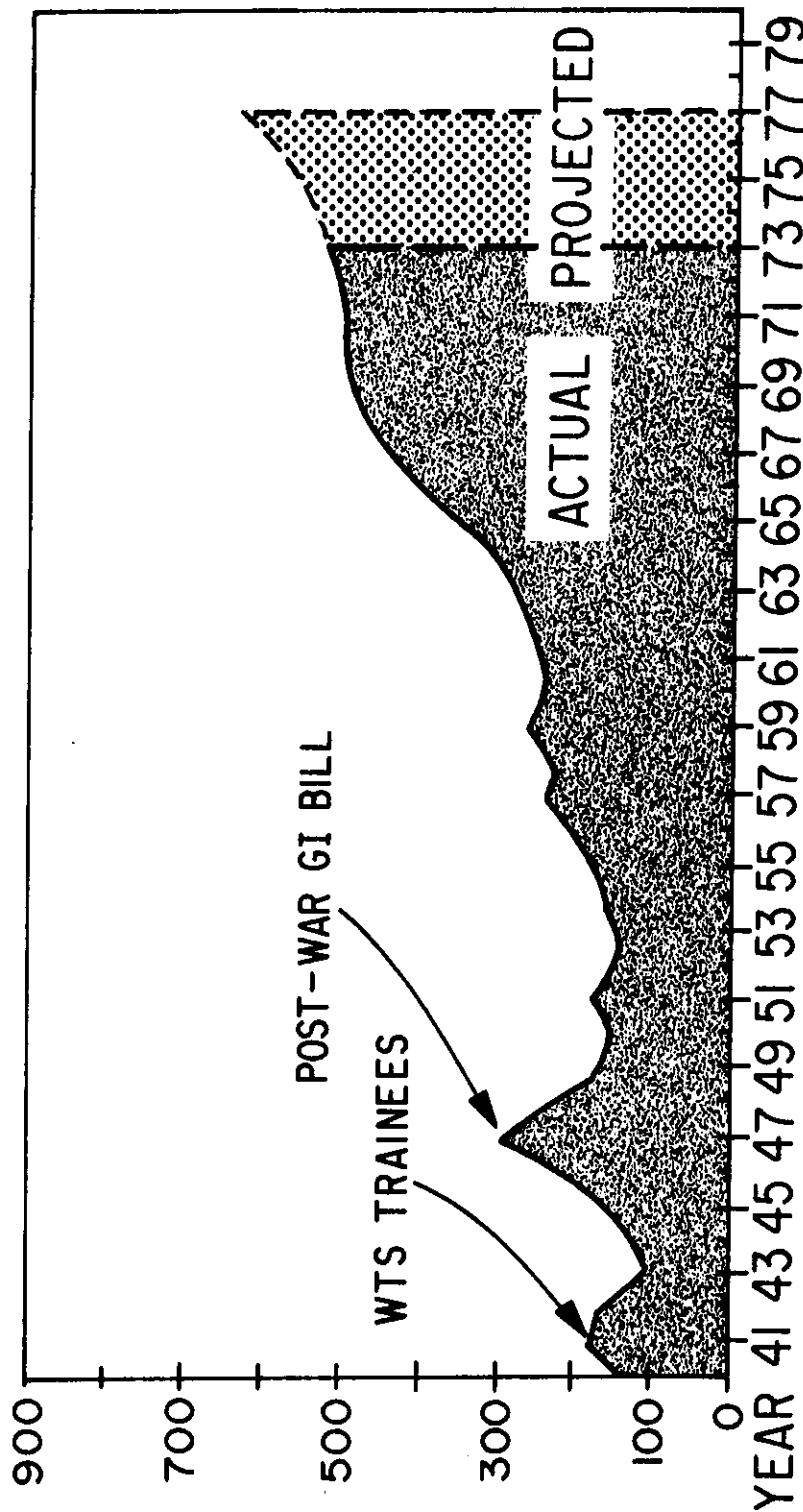
The Aeromedical Certification Branch is the central screening facility and repository within the Federal Aviation Administration for collection, investigation, adjudication, and analysis of medical data.

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

Figure II.A

AIRMEN APPLICATIONS FOR MEDICAL CERTIFICATION

1940-1973 Projected to 1977



YEAR	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
APPLICATIONS	172.2	161.6	102.7	113.8	154.6	202.1	289.6	233.4	162.5	152.9	168.5	145.7	133.5	160.6	168.6	181.7	229.6	217.9	255.6	237.5
PERCENTAGE	+28.2	-6.2	-36.4	+10.8	+35.8	+30.7	+43.3	-19.4	-30.4	-5.9	+10.2	-13.5	-8.4	+20.3	+5.0	+7.8	+26.4	-5.1	+17.3	-7.1
YEAR	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
APPLICATIONS	237.3	254.1	271.8	294.7	330.6	387.5	427.6	465.9	478.7	487.7	493.1	494.7	521.7	544.0	565.8	588.4	611.9			
PERCENTAGE	-0.1	+7.1	+7.0	+8.4	+12.2	+17.2	+10.3	+9.0	+2.7	+1.9	+1.1	+0.3	+5.5	+4.3	+4.0	+4.0	+4.0			
PERCENTAGE INCREASE OR DECREASE OVER PREVIOUS YEAR																				

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

Table II.B
 RECEIPTS OF MEDICAL CERTIFICATE
 APPLICATIONS BY CLASS*
 1960-1973

Calendar Year	Total	Percent Of		Second Class	Percent Of		Third Class	Percent Of	
		First Class	Total		Total	Total		Total	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		

*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 1973 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
1973

Month	Applications Received	Applications			Applications Requiring Manual Review**	Applications Intra-Agency Transmitted***
		Coded For Computer Screening	Applications Screened By Computer*	Applications Requiring Manual Review**		
January	36,800	36,900	39,243	15,336		259
February	38,000	37,200	38,790	15,514		185
March	45,500	44,100	43,497	17,976		250
April	47,600	47,100	48,649	19,139		248
May	44,700	49,100	42,418	18,459		174
June	50,100	47,100	48,864	20,186		225
SUBTOTAL	262,700	261,500	261,461	106,610		1,341
July	50,200	45,000	49,595	20,291		190
August	45,700	52,500	49,576	21,374		363
September	44,500	41,700	43,145	18,480		216
October	45,200	45,700	44,736	19,122		236
November	39,500	39,000	47,494	19,871		284
December	33,900	33,300	31,745	14,087		251
SUBTOTAL	259,000	257,200	266,291	113,225		1,540
TOTAL	521,700	518,700	527,752	219,835		2,881

*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; 41.7% of applications screened by computer.

***Figures include applications transmitted to the regions and to the Federal Air Surgeon for certification or review. Represents 0.6% 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
1973

Activity	Frequency	Subtotal	Percent Of Total
<u>Certification</u>			
Issued, Corrected or Duplicate Certificates	8,781		
Eligibility Letters	32,287		
Issued or Duplicate Waivers	10,718	51,786	46.3
<u>Further Action Necessary</u>			
Information Requested	37,050		
Medical Flight Test Authorization	5,007		
Case Summary for the Federal Air Surgeon	848		
<u>Information Requested From The Branch</u>		42,905	38.4
Telegram Replies to Airmen/Agency Offices	318		
Replies to Insurance Companies	408		
<u>Denial Letters</u>		726	0.7
Mandatory Denials	432		
Other Denials	5,059		
<u>Miscellaneous Correspondence*</u>		5,491	4.9
	10,870	10,870	9.7
TOTAL		111,778	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, 1973

Action	Time Lapse Since Date of Last Examination					Total
	<7 Month	<13 Month	<25 Month	Subtotal	25-36 Month	Over 36 Month
<u>Certified</u>						
First Class	44,824	23,834	10,037	78,695	5,906	N/A
Second Class	99,917	102,520	96,475	298,912	50,099	N/A
Third Class	111,051	88,723	180,862	380,636	102,883	N/A
SUBTOTAL	255,792	215,077	287,374	758,243	158,888	N/A
<u>Non-Certified</u>						
Pending	885	109	125	1,119	15	N/A
Denied	3,032	2,912	5,000	10,944	5,528	N/A
SUBTOTAL	3,917	3,021	5,125	12,063	5,543	N/A
Link*	N/A	N/A	N/A	N/A	N/A	175,040
TOTAL	259,709	218,098	292,499	770,306	164,431	175,040
EFFECTIVE STATUS TOTAL: CLASS 1 = 44,824 CLASS 2 = 226,271 CLASS 3 = 487,148						

*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; Examination Time Period Summary, RIS: AC 8065-4.

MEDICAL CERTIFICATION ACTIVITY SUMMARY
1971-1973

Activity	CY 1973	CY 1972	CY 1971
Applications for Medical Certification	521,700	494,700	493,145
New Applications for First Class Medical Certificates*	---	1,463	1,723
New Applications for Second Class Medical Certificates*	---	17,877	19,394
New Applications for Third Class Medical Certificates*	---	66,332	69,709
First Class Combined Student/Medical Certificates	2,884	3,202	4,490
Second Class Combined Student/Medical Certificates	25,958	25,733	27,829
Third Class Combined Student/Medical Certificates	200,970	197,762	198,582
Electrocardiograms Received for First Class Pilots	30,677	27,545	27,180
Incoming Correspondence**	85,032	76,475	70,553
Outgoing Correspondence	111,778	99,347	95,488
Applications Containing Medical or Clerical Problems	219,835	197,400	194,987
Number of Abnormalities Detected in Electrocardiograms	2,515	2,811	2,653
Number of First Class Active Airmen with Pathology Records	13,778	13,085	12,622
Number of Second Class Active Airmen with Pathology Records	54,736	51,903	49,435
Number of Third Class Active Airmen with Pathology Records	55,208	53,800	54,600

*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 1972, 1,768 or 2.1% new applications were denied, 239 or 0.3% were pending, and 83,665 or 97.6% were issued for a total of 85,672 new applications.

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.

MEDICAL CERTIFICATION ACTIVITY SUMMARY
1971-1973

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

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

SECTION III

REFERRALS AND DENIALS

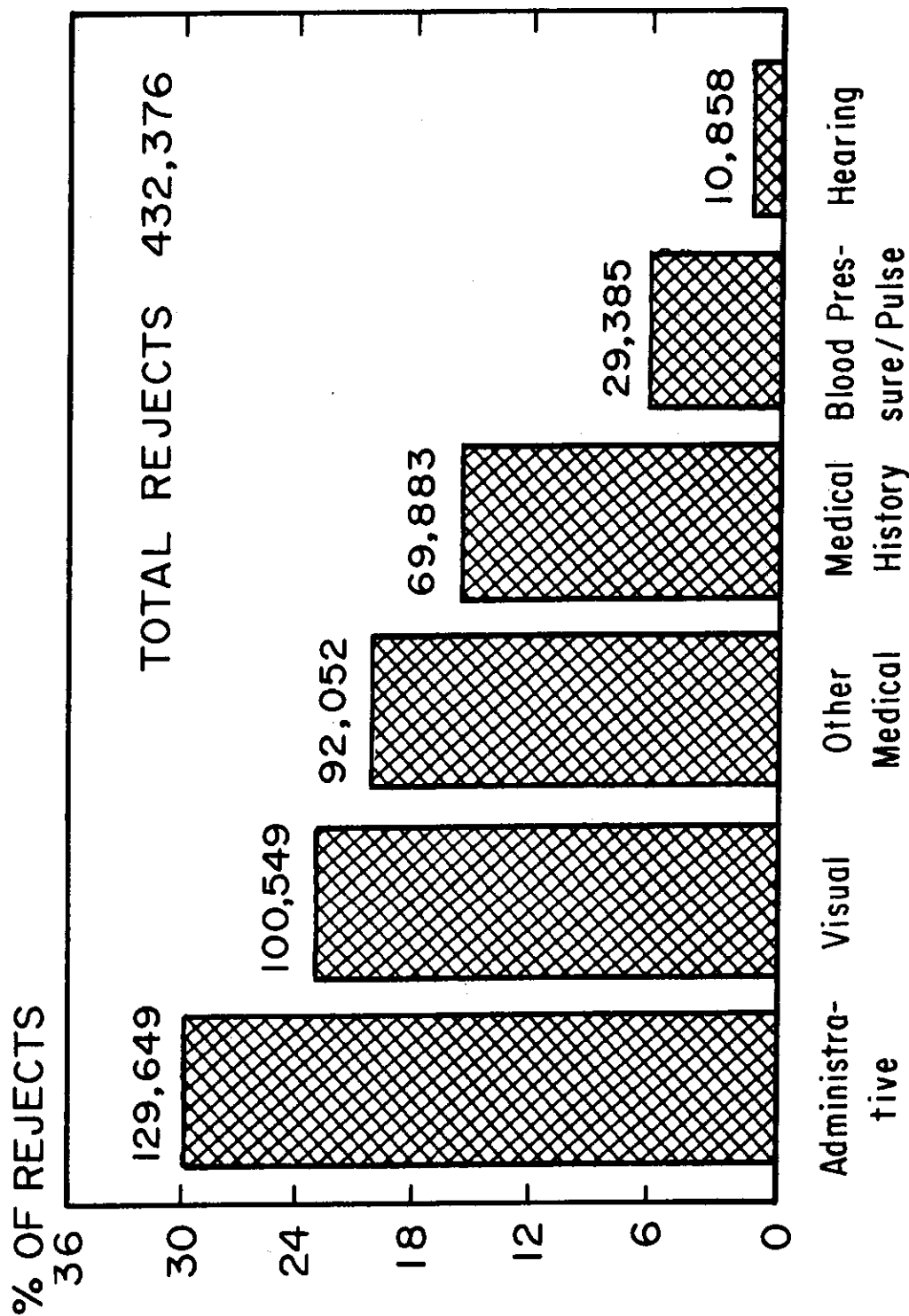
This section is concerned with those applications for medical certification which require manual review and those applications denied medical certification.

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

1973



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

DISTRIBUTION OF CAUSES FOR REVIEW BY MAJOR AND MINOR CATEGORIES
1973

Reject	Major Category Totals	Percent	Minor Categories	Percent
<u>Administrative</u>	129,649	29.99		
First Class by Military			187	0.04
Matches Link Record			5,634	1.30
Special Case			1,154	0.27
Previous Pending			3,625	0.84
Clerical Reject			7,896	1.83
Class Issued Higher Than Applied For			1,362	0.32
First Class Over 60 Years of Age			628	0.15
Coded Previous Waiver			11,303	2.61
Re-Submit Exam to Computer			4,438	1.03
Date of ECG for First Class Exams			4,588	1.06
State Code/Zip Code			26	0.01
Date of Examination			96	0.02
No Match Between New and Previous Exams			20,764	4.80
Follow-Up Material Requested			3,125	0.72
Discrepancy in Pathology Data			12,580	2.91
Other*			52,243	12.08
<u>Visual</u>	100,549	23.25		
Distant Vision			34,329	7.94
Near Vision			23,135	5.35
Intraocular Tension			6,146	1.42
Field of Vision			4,981	1.15
Color Vision			7,750	1.79
Variation in Distant Vision			14,442	3.34
Esophoria and Exophoria			8,032	1.86
Right or Left Hyperphoria			1,734	0.40
<u>Other Medical Conditions</u>	92,052	21.29		
Denied or Pending			17,119	3.96
Urinalysis			6,795	1.57
Pathology Codes			21,984	5.09
Abnormalities			14,753	3.41
Medication			31,401	7.26
<u>Medical History</u>	69,883	16.16		
Previous Denial Indicated			7,965	1.84
Medical History			59,767	13.82
Previous Exam on Tape Denied			1,401	0.33
Previous Exemption Case			520	0.12
New Exemption Case			230	0.05
<u>Blood Pressure/Pulse</u>	29,385	6.80		
Blood Pressure			6,003	1.39
Pulse			23,382	5.41
<u>Hearing</u>	10,858	2.51		
Hearing			10,858	2.51
TOTAL REJECT CARDS	432,376	100.00		

*Rejects resulting from validity checks against established edit criteria for data elements contained on the medical examination other than those listed.

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
1961-1973

<u>Year</u>	<u>Certified</u>	<u>Denied</u>	<u>Total</u>
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
TOTAL	2,025	5,296	7,321

*Incomplete figures for January through March 1961.

**Figures for 1967-1973 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.

RECONSIDERATION ACTIONS BY THE
FEDERAL AIR SURGEON*
1973

Pathology	First Class	Second Class	Third Class	Modifications	Total
<u>Issued</u>					
Eye	8	14	15	-	37
Ear, Nose, Throat	-	1	3	1	5
Respiratory	-	-	7	-	7
Cardiovascular	12	11	29	4	56
Abdominal	1	4	16	-	21
Neurologic	7	11	40	-	58
Psychiatric	7	9	34	2	52
Bone/Joint	1	-	5	-	6
Muscles	-	-	-	-	-
Miscellaneous	2	3	11	1	17
TOTAL ISSUANCES	38	53	160	8	259
<u>Denied</u>					
Eye	3	10	39	-	52
Ear, Nose, Throat	2	2	2	-	6
Respiratory	3	3	9	-	15
Cardiovascular	19	58	116	-	193
Abdominal	2	14	20	-	36
Neurologic	17	24	55	1	97
Psychiatric	6	24	46	-	76
Bone/Joint	2	2	1	-	5
Muscles	-	-	-	-	-
Miscellaneous	1	5	12	3	21
SUBTOTAL	55	142	300	4	501
Denials for Failure to Provide Additional Information (67.31)	1	8	11	-	20
TOTAL DENIALS	56	150	311	4	521

*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.

RECONSIDERATION ACTIONS BY THE
FEDERAL AIR SURGEON*
1963-1973

Pathology	First Class	Second Class	Third Class	Modifications	Total
<u>Issued</u>					
Eye	67	144	190	1	402
Ear, Nose, Throat	6	5	19	1	31
Respiratory	4	10	25	-	39
Cardiovascular	97	115	274	7	493
Abdominal	6	23	60	1	90
Neuropsychiatric	83	106	360	7	556
Bone/Joint	3	4	24	-	31
Muscles	-	1	5	-	6
Miscellaneous	13	29	75	1	118
TOTAL	279	437	1,032	18	1,766
<u>Denied</u>					
Eye	80	240	260	-	580
Ear, Nose, Throat	11	8	12	-	31
Respiratory	11	17	88	-	116
Cardiovascular	215	449	1,240	6	1,910
Abdominal	21	47	138	-	206
Neuropsychiatric	196	349	852	4	1,401
Bone/Joint	7	8	26	-	41
Muscles	2	4	10	-	16
Miscellaneous	36	76	246	4	362
SUBTOTAL	579	1,198	2,872	14	4,663
Denials for Failure to Provide Additional Information (67.31)	4	21	32	-	57
TOTAL DENIALS	583	1,219	2,904	14	4,720

*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.

Table III.F

PETITIONS GRANTED OR DENIED
BY THE FAA*
1973

Pathology	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	-	-	1	1
Ear, Nose, Throat	-	-	-	-
Respiratory	-	1	1	2
Cardiovascular	4	12	86	102
Abdominal	-	-	4	4
Neuropsychiatric	6	11	29	46
Bone/Joint	-	-	-	-
Muscles	-	-	-	-
Miscellaneous	-	1	5	6
TOTAL GRANTS	10	25	126	161
<u>Denied</u>				
Eye	1	1	8	10
Ear, Nose, Throat	-	1	1	2
Respiratory	-	1	5	6
Cardiovascular	15	48	105	168
Abdominal	-	1	2	3
Neuropsychiatric	5	25	49	79
Bone/Joint	-	-	-	-
Muscles	-	-	-	-
Miscellaneous	1	1	2	4
TOTAL DENIALS	22	78	172	272

*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 AAM-1.

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

PETITIONS GRANTED OR DENIED
BY THE FAA*
1961-1973

Pathology	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	10	25	46	81
Ear, Nose, Throat	-	1	-	1
Respiratory	-	1	7	8
Cardiovascular **	18	117	695	830
Abdominal	2	1	14	17
Neuropsychiatric	23	49	233	305
Bone/Joint	1	1	1	3
Muscles	-	-	-	-
Miscellaneous	-	4	9	13
TOTAL GRANTS	54	199	1,005	1,258
<u>Denied</u>				
Eye	9	66	37	112
Ear, Nose, Throat	-	2	2	4
Respiratory	3	2	21	26
Cardiovascular	228	417	1,153	1,798
Abdominal	5	8	32	45
Neuropsychiatric	107	208	563	878
Bone/Joint	1	5	9	15
Muscles	-	-	2	2
Miscellaneous	10	19	101	130
TOTAL DENIALS	363	727	1,920	3,010

*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 AAM-1.

**Subsequent to distribution of the 1972 Statistical Handbook, 1 first class cardiovascular grant was added to 1971's data, increasing the total from 13 to 14; thus, the 1961-1972 total for first class grants was increased from 43 to 44 and the total grants from 1,096 to 1,097.

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

Table III.H

STATUS OF AIRMEN WHO HAVE BEEN
GRANTED EXEMPTIONS
1961-1973

Status Of Airmen	Percent	Number Of Airmen
Airmen Granted Exemptions*	100.0	1,204
Currently Active Airmen	43.4	523
Deceased	4.1	49
Grants Terminated:		
Adverse Change in Condition	7.6	92
Upgraded Grants	4.5	54
For Various Personal Reasons Have Not Validated Their Grants	40.4	486

*Although airmen may have been granted more than one exemption, they have only been counted once. There are 54 airmen who have been granted two exemptions.

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

GENERAL AIRMAN POPULATION DATA

This section reflects general data concerning the active airman population. The data presented are as of December 31, 1973, 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, 1973

Region	First Class			Second Class			Third Class			Total Active Airmen		
	Effective Status (Class)**			Effective Status (Class)**			Effective Status (Class)**			Percent Airmen		
	1	2	3	1	2	3	1	2	3	Certified	Of Total	Effective Status (Class)**
Eastern	11,903	6,832	3,654	1,417	28,317	19,597	8,720	52,036	92,256	12.2	6,832	23,251
Central	2,871	1,762	789	320	13,399	9,045	4,354	26,610	42,880	5.7	1,762	9,834
Southern	13,607	7,924	3,980	1,703	32,652	22,308	10,344	47,403	93,662	12.3	7,924	26,288
Southwest	7,879	4,536	2,517	826	27,291	18,589	8,702	38,214	73,384	9.7	4,536	21,106
Western	15,688	8,884	4,764	2,040	36,488	23,814	12,674	58,669	110,845	14.6	8,884	28,578
Rocky Mountain	2,959	1,645	922	392	10,563	7,253	3,310	15,636	29,158	3.8	1,645	8,175
Northwest	3,235	1,795	1,037	403	11,832	7,896	3,936	16,981	32,048	4.2	1,795	8,933
New England	4,399	2,693	1,258	448	9,342	6,456	2,886	15,134	28,875	3.8	2,693	7,714
Great Lakes	10,815	6,110	3,482	1,223	37,397	25,250	12,147	76,555	124,767	16.5	6,110	28,732
Alaskan	607	330	201	76	2,930	2,031	899	3,615	7,152	0.9	330	2,232
Pacific	472	263	156	53	833	591	242	815	2,120	0.3	263	747
U. S. TOTAL	74,435	42,774	22,760	8,901	211,044	142,830	68,214	351,668	637,147	84.0	42,774	165,590
Military***	34	8	13	13	84,983	57,754	27,229	25,838	110,855	14.6	8	57,767
Foreign	4,226	2,042	1,061	1,123	2,885	1,853	1,032	3,130	10,241	1.4	2,042	2,914
TOTAL	78,695	44,824	23,834	10,037	298,912	202,437	96,475	380,636	758,243	100.0	44,824	226,271
Percent of Total Certified Airmen	(10.38)				(39.42)			(50.20)	(100.00)			

*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 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, 1973

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Alabama	441	3	2,696	53	3,848	286	6,985	342
Alaska	600	4	2,820	108	3,227	396	6,647	508
Arizona	839	4	3,415	122	5,752	623	10,006	749
Arkansas	229	3	2,038	53	2,846	174	5,113	230
California	14,188	87	30,517	1,055	45,483	4,799	90,188	5,941
Colorado	2,219	18	4,679	142	5,401	541	12,299	701
Connecticut	1,860	9	2,502	46	3,976	363	8,338	418
Delaware	193	-	530	12	710	46	1,433	58
District of Columbia	79	-	238	30	382	45	699	75
Florida	7,128	47	11,919	317	15,186	1,572	34,233	1,936
Georgia	3,325	12	4,540	83	5,895	433	13,760	528
Hawaii	468	6	808	32	710	111	1,986	149
Idaho	158	1	1,331	35	2,277	209	3,766	245
Illinois	3,975	16	8,358	248	16,540	1,244	28,873	1,508
Indiana	855	4	4,848	124	8,924	656	14,627	784
Iowa	291	2	2,990	57	6,411	425	9,692	484
Kansas	887	4	3,755	81	6,401	561	11,043	646
Kentucky	235	3	1,758	29	2,999	194	4,992	226
Louisiana	822	4	3,605	73	3,458	299	7,885	376
Maine	183	1	869	12	1,574	110	2,626	123
Maryland	924	7	2,665	96	4,688	405	8,277	508
Massachusetts	1,440	7	3,715	108	5,892	522	11,047	637
Michigan	1,342	10	6,408	164	14,431	996	22,181	1,170
Minnesota	2,167	6	4,674	89	8,704	677	15,545	772
Mississippi	243	1	1,967	28	2,566	180	4,776	209
Missouri	1,469	7	4,343	113	8,107	644	13,919	764
Montana	176	-	1,566	47	2,284	182	4,026	229
Nebraska	210	1	2,032	44	3,773	310	6,015	355
Nevada	523	7	1,320	29	1,824	195	3,667	231
New Hampshire	656	2	1,180	27	1,126	108	2,962	137

Table IV.B (Continued)

ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED*
As Of: December 31, 1973

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
New Jersey	3,026	10	4,259	122	8,298	638	15,583	770
New Mexico	217	1	1,793	62	2,644	254	4,654	317
New York	3,407	11	8,934	200	15,830	1,318	28,171	1,529
North Carolina	852	2	3,497	64	5,929	394	10,278	460
North Dakota	78	1	1,073	22	1,884	131	3,035	154
Ohio	1,545	14	8,937	214	16,246	1,278	26,728	1,506
Oklahoma	725	11	3,963	95	6,089	540	10,777	646
Oregon	434	3	3,806	81	5,322	520	9,562	604
Pennsylvania	2,117	12	5,959	154	11,687	864	19,763	1,030
Rhode Island	137	-	378	13	648	49	1,163	62
South Carolina	311	5	1,791	24	2,499	178	4,601	207
South Dakota	89	1	860	8	1,719	116	2,668	125
Tennessee	932	4	3,606	99	4,887	357	9,425	460
Texas	5,800	19	15,160	321	20,004	1,810	40,964	2,150
Utah	285	-	1,527	25	2,119	144	3,931	169
Vermont	103	-	474	13	706	80	1,283	93
Virginia	1,873	5	4,100	103	5,086	435	11,059	543
Washington	2,608	11	6,403	152	7,883	777	16,894	940
West Virginia	153	-	710	8	1,488	101	2,351	109
Wisconsin	833	3	3,261	63	6,463	449	10,557	515
Wyoming	86	-	615	9	1,052	79	1,753	88
U. S. CIVILIAN TOTAL	73,736	389	205,192	5,309	323,878	27,818	602,806	33,516
Military and NASA	475	3	84,806	1,033	25,054	1,236	110,335	2,272
International	4,082	10	2,514	58	2,472	178	9,068	246
TOTAL AIRMEN	78,293	402	292,512	6,400	351,404	29,232	722,209	36,034

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

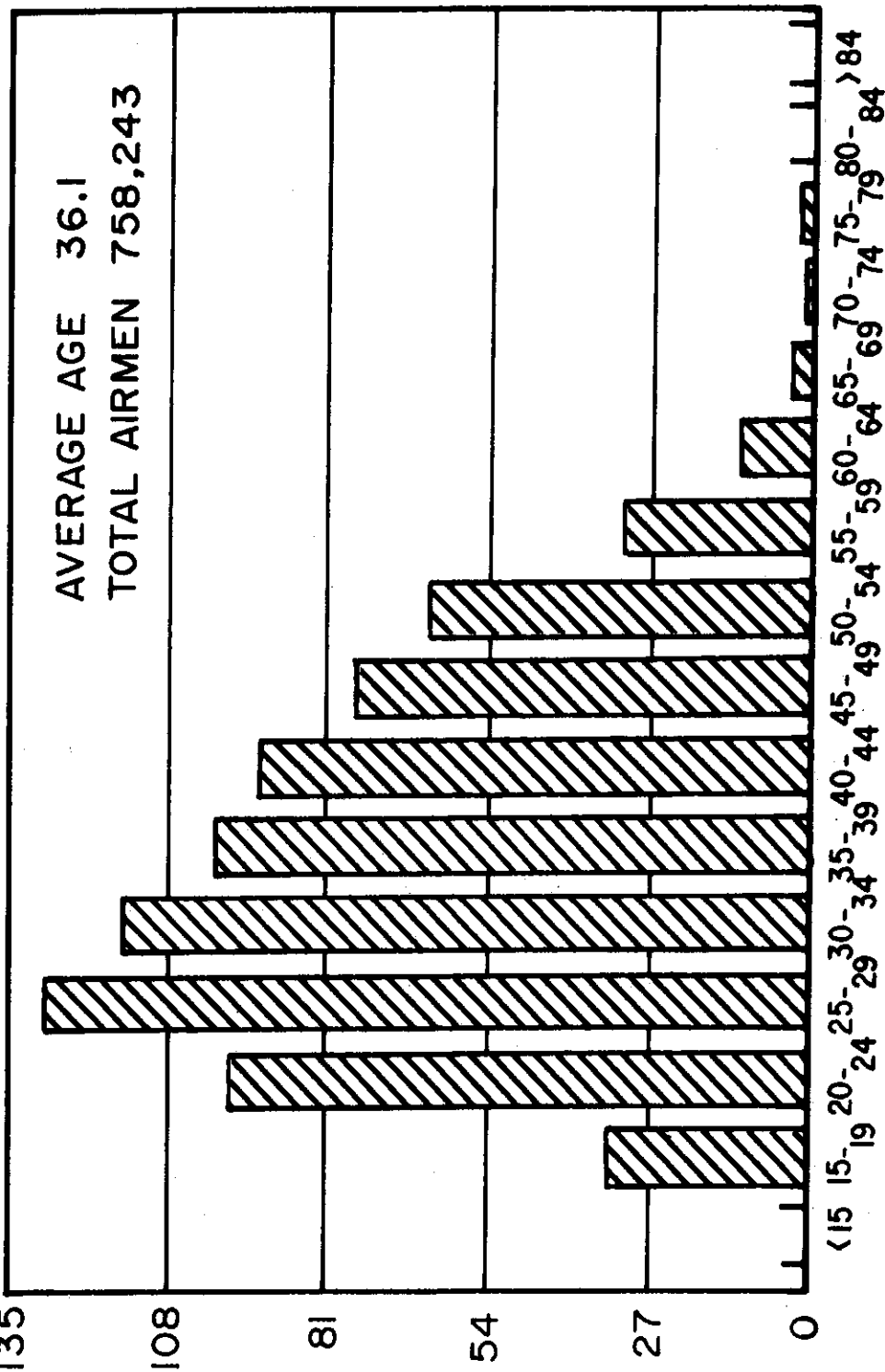
Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.C

AGE DISTRIBUTION OF MEDICALLY CERTIFIED AIRMEN

AIRMEN (000)

As Of: December 31, 1973



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

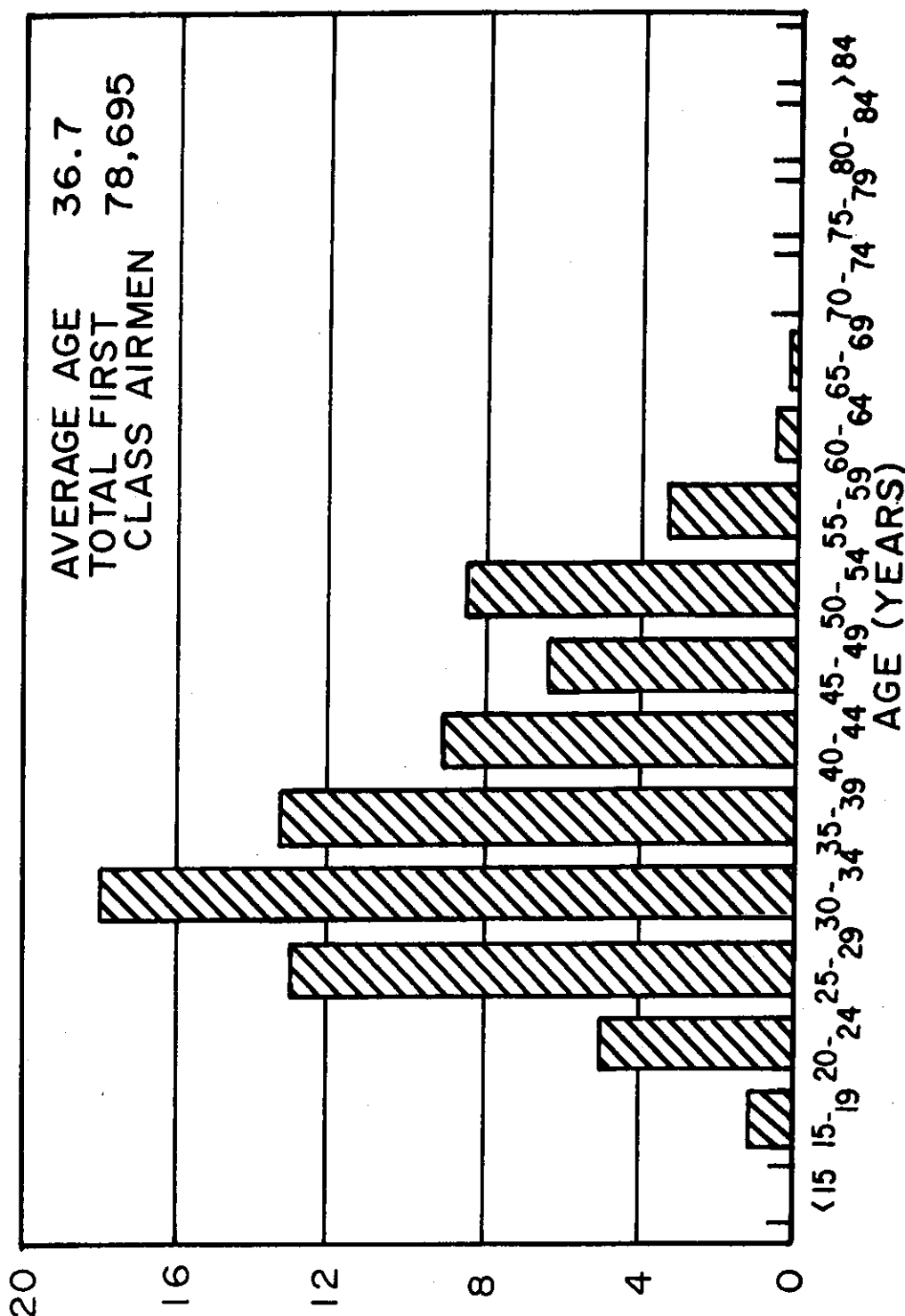
Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.D

AGE DISTRIBUTION OF MEDICALLY CERTIFIED FIRST CLASS AIRMEN

AIRMEN (000)

As Of: December 31, 1973



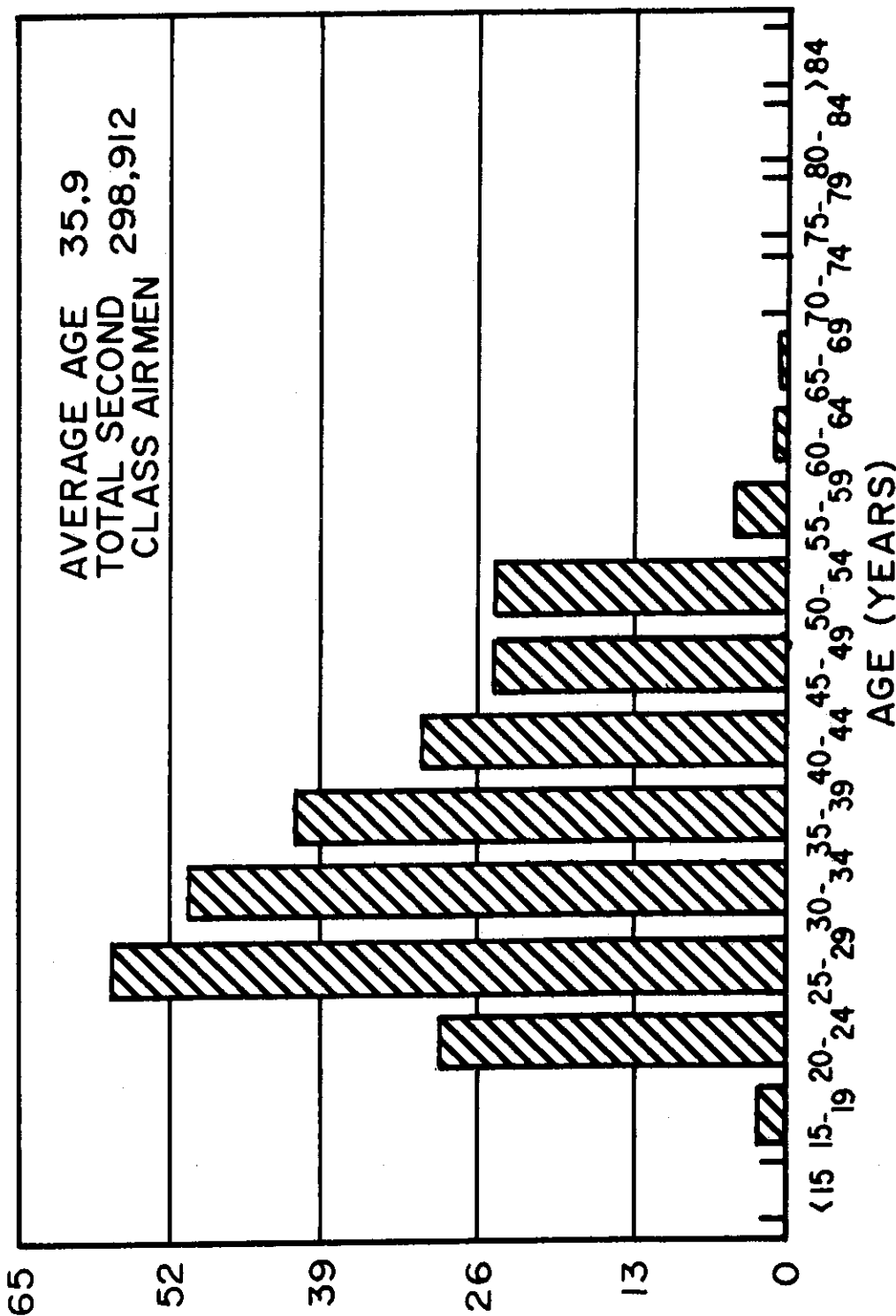
*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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, 1973

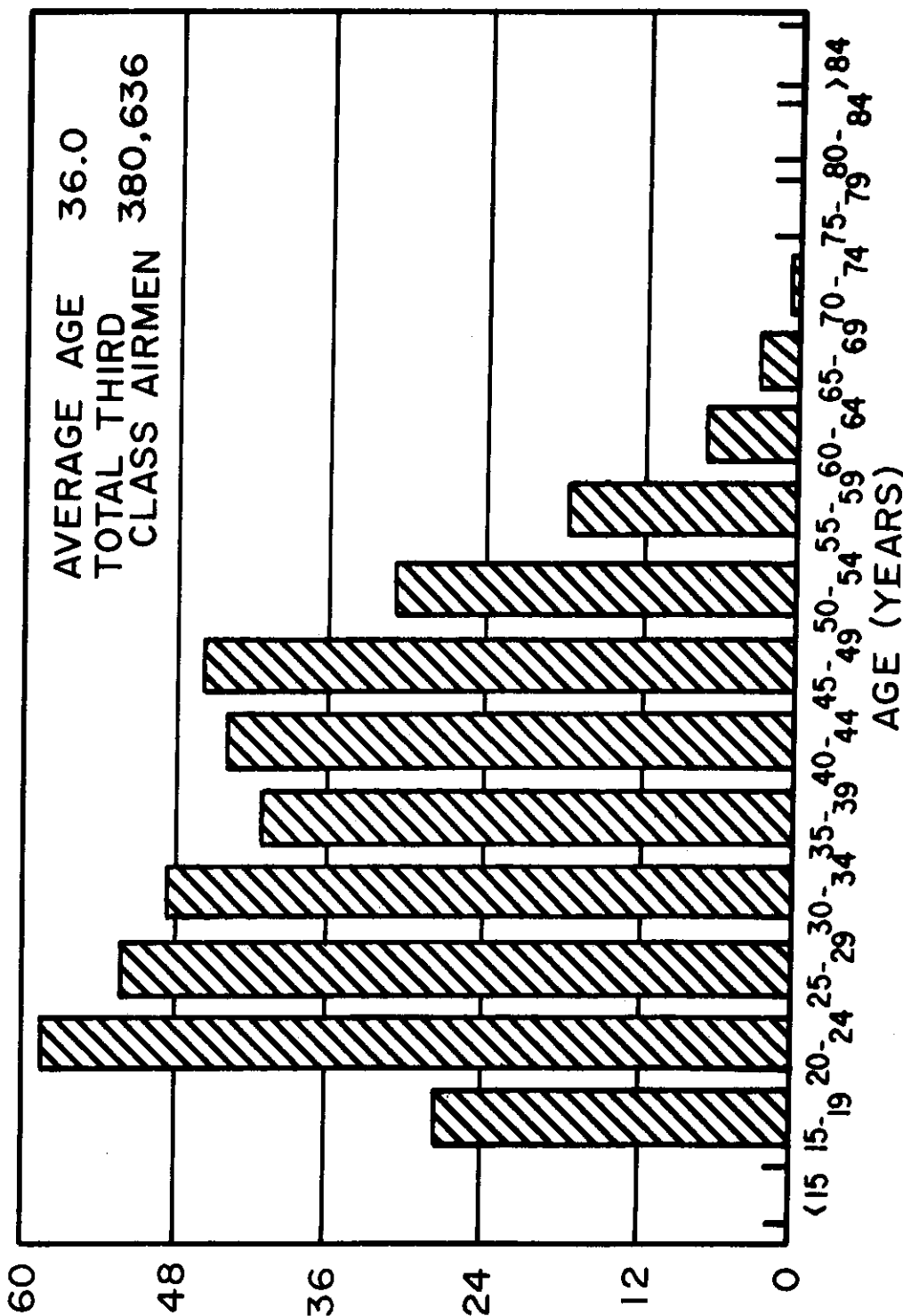


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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

AGE DISTRIBUTION OF MEDICALLY CERTIFIED THIRD CLASS AIRMEN

As Of: December 31, 1973



*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, 1973

Age	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 15	-	-	1	1	35	3	36	4
15 - 19	1,172	29	5,550	372	25,015	2,667	31,737	3,068
20 - 24	5,068	59	31,532	1,261	54,481	4,528	91,081	5,848
25 - 29	12,730	99	62,242	1,112	46,804	5,351	121,776	6,562
30 - 34	18,078	67	48,933	890	43,400	4,802	110,411	5,759
35 - 39	13,270	51	44,253	739	38,010	3,528	95,533	4,318
40 - 44	9,132	32	36,576	652	42,068	3,051	87,776	3,735
45 - 49	6,376	32	23,837	563	43,257	2,547	73,470	3,142
50 - 54	8,037	20	23,805	448	30,145	1,581	61,987	2,049
55 - 59	3,527	8	10,546	220	16,672	784	30,745	1,012
60 - 64	753	5	3,556	93	7,490	251	11,799	349
65 - 69	123	-	1,232	39	2,816	109	4,171	148
70 - 74	24	-	360	9	896	22	1,280	31
75 - 79	3	-	81	1	268	7	352	8
80 - 84	-	-	7	-	44	1	51	1
85 and over	-	-	1	-	3	-	4	-
TOTAL	78,293	402	292,512	6,400	351,404	29,232	722,209	36,034

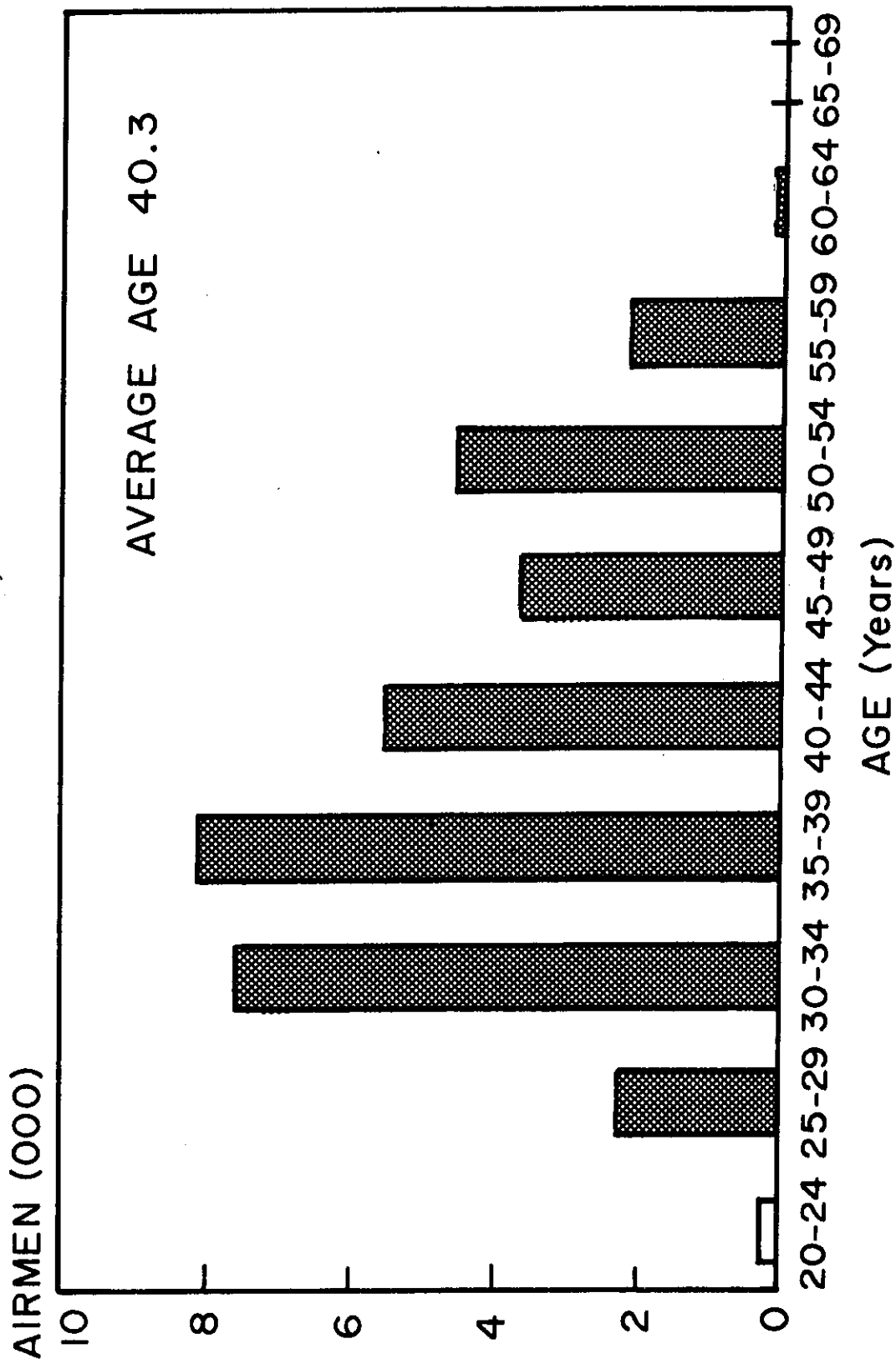
*Totals are based on active certified airmen within the past 25 months.

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, 1973



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, 1973

Age Groups (1)	Airline Pilots (2)	Certified First Class Airmen** (3)	Percent of Total	
			Airline Pilots (4)	Certified First Class Airmen (5)
20 - 24	258	5,127	0.8	6.6
25 - 29	2,227	12,829	6.5	16.6
30 - 34	7,629	18,145	22.4	23.4
35 - 39	8,124	13,321	23.9	17.2
40 - 44	5,485	9,164	16.1	11.8
45 - 49	3,533	6,408	10.4	8.3
50 - 54	4,547	8,057	13.4	10.4
55 - 59	2,077	3,535	6.1	4.6
60 - 64	152	758	0.4	1.0
65 - 69	6	123	0.0+	0.1
TOTAL	34,038	77,467	100.0	100.0

*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.

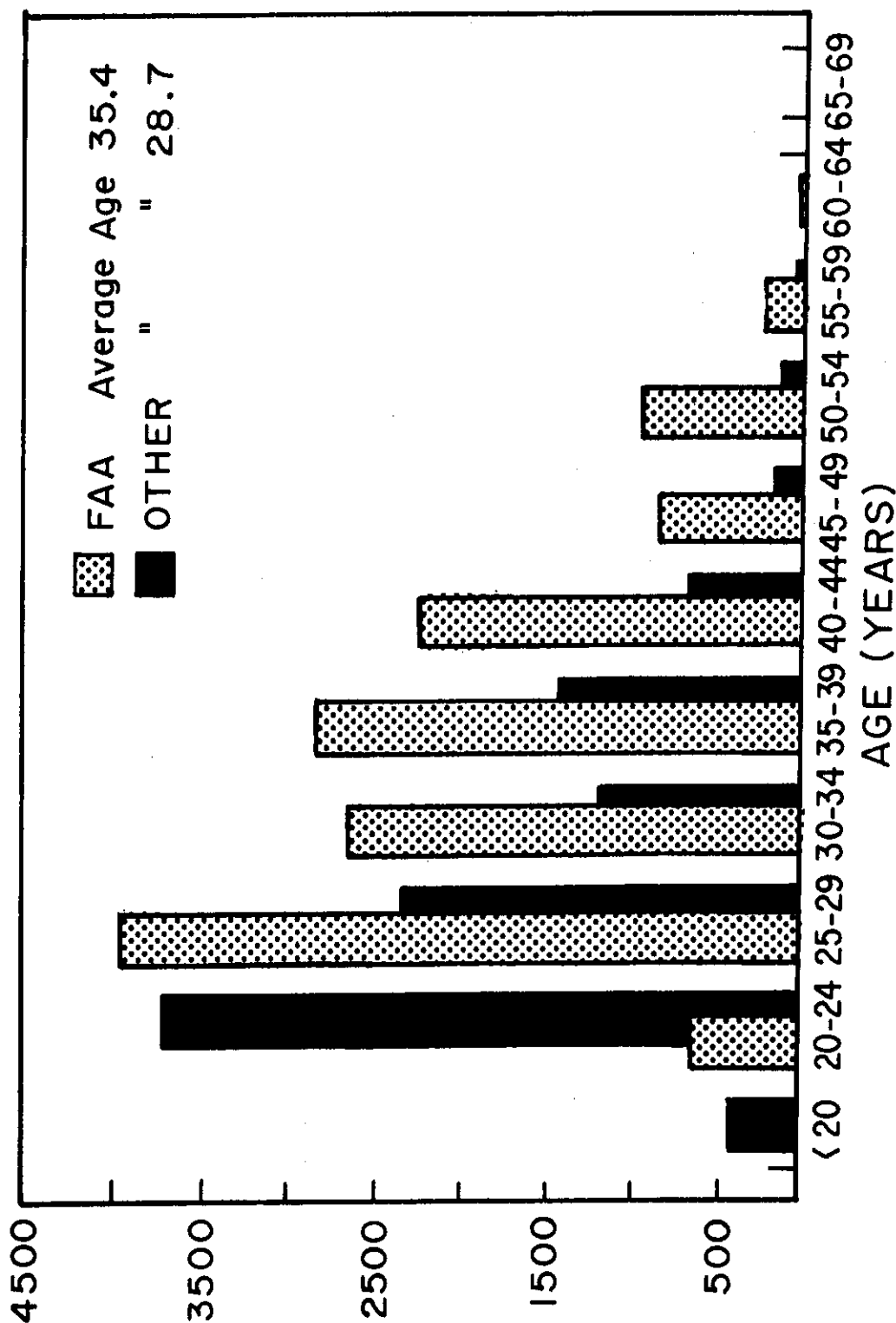
Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.J

AGE DISTRIBUTION OF AIR TRAFFIC CONTROLLERS

As of: December 31, 1973

AIRMEN



*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, refer to accompanying table (Table IV.K) for frequencies.

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

Table IV.K

AGE DISTRIBUTION OF AIR TRAFFIC CONTROLLERS*
As Of: December 31, 1973

Age	FAA ATC'S	Other ATC'S
Less than 20	16	391
20 - 24	659	3,718
25 - 29	3,960	2,358
30 - 34	2,677	1,208
35 - 39	2,876	1,464
40 - 44	2,266	650
45 - 49	831	214
50 - 54	977	133
55 - 59	266	48
60 - 64	24	6
65 - 69	3	-
Over 69	-	-
TOTAL	14,555	10,190
Percent of all Certified Second Class Airmen	4.9	3.4

*Air Traffic Controllers (ATC'S) issued medical certificates within the past 13 months.

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

Table IV.L
HEIGHT DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*
As Of: December 31, 1973

Height In Inches	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 59	167	2	764	74	766	234	1,697	310
59	77	2	310	20	280	129	667	151
60	134	12	615	169	673	810	1,422	991
61	57	8	265	185	455	1,002	777	1,195
62	59	39	291	588	651	2,878	1,001	3,505
63	65	43	485	691	1,011	3,330	1,561	4,064
64	218	65	1,549	954	2,630	4,634	4,397	5,653
65	538	48	3,204	950	5,091	4,273	8,833	5,271
66	1,705	68	9,291	987	12,876	4,435	23,872	5,490
67	3,751	47	16,142	690	20,406	3,211	40,299	3,948
68	7,822	33	29,855	532	36,310	2,204	73,987	2,769
69	9,372	14	33,760	297	39,141	1,081	82,273	1,392
70	12,356	7	44,391	138	53,034	525	109,781	670
71	11,681	6	43,586	65	53,874	201	109,141	272
72	14,382	7	51,312	26	57,978	129	123,672	162
73	6,535	1	23,816	10	28,094	46	58,445	57
74	5,373	-	18,230	9	20,563	33	44,166	42
75	2,401	-	8,182	6	9,432	22	20,015	28
Over 75	1,600	-	6,464	9	8,139	55	16,203	64
TOTAL	78,293	402	292,512	6,400	351,404	29,232	722,209	36,034

*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.

Table IV.M

WEIGHT DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*

As Of: December 31, 1973

Weight In Pounds	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 90	40	-	129	10	192	62	361	72
90 - 99	5	8	8	73	63	432	76	513
100 - 109	25	31	83	464	350	2,370	458	2,865
110 - 119	136	89	459	1,131	1,442	5,613	2,037	6,833
120 - 129	529	108	2,206	1,655	4,908	7,303	7,643	9,066
130 - 139	1,663	75	7,768	1,323	13,480	5,982	22,911	7,380
140 - 149	4,504	50	18,220	818	25,585	3,278	48,309	4,146
150 - 159	9,420	15	34,244	402	41,830	1,813	85,494	2,230
160 - 169	13,664	11	47,319	215	54,289	999	115,272	1,225
170 - 179	15,559	7	53,427	131	58,738	586	127,724	724
180 - 189	13,723	6	48,424	78	52,311	342	114,458	426
190 - 199	8,544	2	33,913	40	36,906	183	79,363	225
200 - 209	4,938	-	20,742	23	23,894	106	49,574	129
210 - 219	2,826	-	11,739	13	15,548	56	30,113	69
220 - 229	1,477	-	6,758	8	9,588	41	17,823	49
230 - 239	686	-	3,421	8	5,364	24	9,471	32
240 - 249	293	-	1,705	3	2,917	18	4,915	21
Over 249	261	-	1,947	5	3,999	24	6,207	29
TOTAL	78,293	402	292,512	6,400	351,404	29,232	722,209	36,034

*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.

Table IV.N
ACTIVE AIRMEN BY TYPE OF
FLYING AND CLASS*
As Of: December 31, 1973

Class Issued	Type of Flying**			
	Business	Percent	Pleasure	Percent
First	64,121	(8.4)	14,574	(1.9)
Second	94,802	(12.5)	204,110	(26.9)
Third	46,134	(6.1)	334,502	(44.1)
TOTAL	205,057	(27.0)	553,186	(73.0)

*Totals are based on active airmen certified within the past 25 months. Basis for percentage computations is also total active certified airmen (758,243).

**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." If both business and pleasure were indicated, type of flying was classified as "business."

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

Table IV.0

AIRMEN BY OCCUPATION, CLASS AND SEX*
As Of: December 31, 1973

Occupation Code	First Class		Second Class		Third Class		Total	
	Male	Female %	Male	Female %	Male	Female	Male	Female %
1 - Pilot (Scheduled or Non-Scheduled Airline)	36,793	9 (46.8)	120	- (0.0)	15	1	36,928	10 (4.9)
2 - Flight Engineer	1,354	- (1.7)	2,777	- (0.9)	6	-	4,137	- (0.5)
3 - Flight Navigator/Flight Radio Operator	19	- (0.0)	192	- (0.1)	13	-	224	- (0.0)
4 - Business or Executive Pilot	13,043	61 (16.7)	142	- (0.1)	14	-	13,199	61 (1.7)
5 - Commercial Pilot (Self Employed)	28	- (0.0)	3,306	70 (1.1)	20	-	3,354	70 (0.5)
6 - Commercial Pilot (Not Self Employed)	64	- (0.1)	10,970	71 (3.7)	27	1	11,061	72 (1.5)
7 - Aero Application (Agriculture)	77	- (0.1)	2,576	4 (0.9)	16	-	2,669	4 (0.4)
8 - Air Traffic Controller	328	3 (0.4)	34,248	1,058 (11.8)	159	3	34,735	1,064 (4.7)
9 - Flight Instructor	2,606	68 (3.4)	4,020	244 (1.4)	10	1	6,636	313 (0.9)
0 - Aircraft Mechanic and Fixed Base Operators	407	- (0.5)	3,003	5 (1.0)	1,539	51	4,949	56 (0.7)
X - Not Given or Non-Aeronautical Occupation	23,574	261 (30.3)	231,158	4,948 (79.0)	349,585	29,175	604,317	34,384 (84.2)
TOTAL	78,293	402(100.0)	292,512	6,400(100.0)	351,404	29,232	722,209	36,034 (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 total active airmen within each class.

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

EMPLOYERS OF ACTIVE AIRMEN BY
CLASS OF CERTIFICATE ISSUED*

As Of: December 31, 1973

Employer	First Class	Second Class	Third Class	Total	Major Percents Of Total
Airlift International	130	31	-	161	
Airwest	351	13	6	370	
Alaska Airlines	130	21	2	153	
Allegheny Airlines (Merge-Mohawk)	1,006	43	16	1,065	
Aloha Airlines	58	10	-	68	
American Airlines	3,471	694	28	4,193	
American Flyers Airlines Corp.	3	4	1	8	
Braniff Airways	1,202	20	9	1,231	
Capitol International Airways	71	65	1	137	
Continental Air Lines	1,062	80	6	1,148	
Delta Air Lines (Merge-Northeast)	2,968	74	20	3,062	
Eastern Airlines	3,935	272	24	4,231	
Flying Tiger Line	385	74	6	465	
Frontier Airlines	441	25	2	468	
Hawaiian Airlines	116	4	1	121	
Modern Air Transport	34	13	-	47	
National Airlines	602	250	5	857	
New York Airways	11	4	-	15	
North Central Airlines	440	20	5	465	
Northwest Airlines	1,542	21	11	1,574	
Overseas National Airways	164	81	1	246	
Ozark Air Lines	317	18	7	342	
Pan American World Airways	2,639	524	13	3,176	
Piedmont Aviation	375	20	7	402	
Reeve Aleutian Airways	-	3	1	4	
San Francisco & Oakland Helicopters	2	1	-	3	
Saturn Airways	196	104	1	301	
Seaboard World Airlines	152	67	-	219	
Southern Air Transport	5	4	-	9	
Southern Airways	337	112	6	455	
Trans International Airlines	92	43	1	136	
Texas International Airlines	247	16	6	269	
Trans World Airlines	3,585	502	41	4,128	
United Airlines	5,262	501	39	5,802	
Universal Airlines	12	8	1	21	
Western Air Lines	1,110	138	12	1,260	
Western Alaska Airlines	4	4	-	8	
Wien Consolidated Airlines	67	13	4	84	
World Airways	202	42	-	244	
SUBTOTAL ALL AIRLINES	32,726	3,939	283	36,948	4.9

EMPLOYERS OF ACTIVE AIRMEN BY
CLASS OF CERTIFICATE ISSUED*
As Of: December 31, 1973

Employer	First Class	Second Class	Third Class	Total	Major Percents Of Total
Federal Aviation Administration	1,564	16,530	659	18,753	2.5
Government, other than military or FAA, includes state and local government	471	1,115	32	1,618	0.2
Aircraft Industry	547	798	125	1,470	0.2
Industry, other than aircraft	6,876	4,197	97	11,170	1.5
Fixed Base Operation (flying schools, etc.)	3,473	7,225	476	11,174	1.5
Self Employed	1,929	4,991	159	7,079	0.9
Other	7,752	5,021	340	13,113	1.7
Not Applicable	21,291	203,899	377,673	602,863	79.5
Air Force	1,210	29,148	304	30,662	4.0
Army	158	9,617	69	9,844	1.3
Coast Guard	14	254	2	270	0.0
Marines and Navy	604	11,856	63	12,523	1.7
National Aeronautics and Space Administration	80	322	354	756	0.1
SUBTOTAL ALL OTHERS	45,969	294,973	380,353	721,295	95.1
TOTAL	78,695 (10.38%)	298,912 (39.42%)	380,636 (50.20%)	758,243	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, 1973, by class of medical certificate issued.

Table V.A

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FREQUENCY OF SELECTED PRELIMINARY ECG DIAGNOSIS CODES
AMONG FIRST CLASS AIRMAN APPLICANTS*
As Of: December 31, 1973

ECG Code	Issued	Pending Or Denied
DISTURBANCE IN RHYTHM		
4 - Supraventricular Tachycardia	5	1
5 - Paroxysmal Atrial Tachycardia	5	-
7 - Atrial Fibrillation	15	2
8 - Paroxysmal Atrial Tachycardia with Block	-	1
10 - Nodal Tachycardia, Nodal Rhythm	113	1
DISTURBANCE IN CONDUCTION		
35 - Complete Heart Block	7	-
OTHER CONDUCTION DEFECTS		
48 - Complete Right Bundle Branch Block	553	19
49 - Complete Right Bundle Branch Block with Infarction	7	1
50 - Incomplete Left Bundle Branch Block	35	4
51 - Complete Left Bundle Branch Block	55	16
52 - Complete Left Bundle Branch Block with Infarction	2	-
53 - Intraventricular Conduction Beat	644	5
54 - Wolff-Parkinson-White Syndrome	93	12
CHANGES IN SIZE OF HEART CHAMBERS		
68 - Left Ventricular Hypertrophy with or without Strain	157	7
69 - Right Ventricular Hypertrophy with or without Strain	13	-
71 - Right Ventricular Hypertrophy with Right Bundle Branch Block	3	-
72 - Left Ventricular Hypertrophy with Left Bundle Branch Block	1	-
T WAVE CHANGES		
110 - Isoelectric or Inverted T in any or all of Leads V ₃ , V ₄ , V ₅ , V ₆	90	7
116 - Miscellaneous Primary T Wave Changes	903	46
ST CHANGES		
127 - A Decrease of 0.5 mm or more in any Lead	180	4
MYOCARDIAL INFARCTION		
138 - Diaphragmatic	11	1
139 - Anterior	10	2
140 - Anterolateral	12	4
141 - Anteroseptal	35	5
142 - Post Posterior	8	1
144 - Acute	8	4
145 - Old	134	13
147 - Subendocardial	2	1
149 - Anterolateral Peri-infarction Block - initial vector inferior, terminal leftward	1	-
150 - Diaphragmatic Peri-infarction Block - initial vector leftward, terminal vector inferior	1	1
MASTER'S TEST		
162 - Positive	46	38
164 - Borderline	40	3
MISCELLANEOUS		
198 - Digitalis Effect	2	-
205 - Dextrocardia	4	-

*Figures are based on first class airman applicants within the past 25 months; however, the table may contain some second or third class airmen due to downgrading of certificate.

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

Table V.C

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: December 31, 1973

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Must Have Available Glasses For Near Vision While Flying	8,149	19	20,546	398	29,227	1,654	57,922	2,071
Must Wear Glasses For Distant Vision While Flying	12,663	105	81,793	2,180	105,580	8,903	200,036	11,188
Must Wear Glasses for Near and Distant Vision While Flying	2	-	6	-	5	1	13	1
Must Wear Prismatic Correction While Flying	6	-	38	1	17	-	61	1
May Wear Contact Lenses While Flying	178	7	788	66	900	239	1,866	312
May Wear Contact Lenses While Flying. Glasses Must Be Available	498	18	3,126	313	4,976	1,519	8,600	1,850
Must Wear Hearing Aid While Flying	9	-	112	1	262	11	383	12
Must Wear Artificial Limb While Flying	16	-	85	-	212	7	313	7
Oxygen Required When Flying Above 7,999 Feet	-	-	6	-	12	-	18	-
Passenger Carrying Prohibited	-	-	2	-	5	1	7	1
Not Valid For Pilot In Command	4	-	4	-	5	-	13	-
Not Valid For Control Tower Operator Duties	26	-	158	3	86	2	270	5
Not Valid For Air Transport Duties	3	-	4	-	4	1	11	1
Not Valid For Night Flying or By Color Signal Control (Color Vision)	83	-	1,941	3	8,450	46	10,474	49

Table V.C (Continued)
 FREQUENCY OF RESTRICTIONS AMONG
 ACTIVE AIRMEN BY CLASS AND SEX*
 As Of: December 31, 1973

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Not Valid For Night Flying (Glaucoma)	1	-	8	-	6	-	15	-
Not Valid For Flying Where Radio Use Is Required	-	-	7	1	71	1	78	2
Flying Limited To Remote Areas	-	-	1	-	1	-	2	-
Valid For Flight Test Only	9	-	22	-	12	-	43	-
Second Class Privileges Limited To Crop Dusting	-	-	3	-	1	-	4	-
Second Class Privileges Limited To Flight Engineer Duties	3	-	29	-	-	1	32	1
Second Class Privileges Limited To Flight Navigator Duties	-	-	7	-	-	-	7	-
Second Class Privileges Limited To Control Tower Operator Duties	2	-	11	1	2	1	15	2
Valid For And Limited To ATC Duty Only	6	-	2,457	72	23	-	2,486	72
Valid For ATC Duties - Center Only	-	-	231	11	7	-	238	11
Limited To Military Controller Duties	-	-	253	11	8	-	261	11
Valid For Control Tower Duties When Second Controller On Duty	1	-	-	-	-	-	1	-
Valid Only When Accompanied By Another Qualified Pilot	1	-	2	-	5	-	8	-

Table V.C (Continued)
 FREQUENCY OF RESTRICTIONS AMONG
 ACTIVE AIRMEN BY CLASS AND SEX*
 As Of: December 31, 1973

Restriction	First Class		Second Class		Third Class		Active Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Valid For Student Pilot Purposes Only	8	-	140	1	2,937	194	3,085	195
Second Class Privileges Limited To Cargo Operations	-	-	1	-	-	-	1	-
Issued on Basis of Demonstrated Medical Fitness	-	-	1	-	1	-	2	-
Time Limitation Restrictions	387	-	2,424	43	3,830	255	6,641	298
Panel Restrictions	37	-	130	1	530	3	697	4
Miscellaneous Restrictions	125	-	697	20	540	26	1,362	46
TOTAL	22,217	149	115,033	3,126	157,715	12,865	294,965	16,140

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

Table V.D

ACTIVE AIRMEN WITH DEFECTIVE COLOR VISION
BY CLASS AND SEX*
As Of: December 31, 1973

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	530	(0.7)	1	(0.2)
Second	4,075	(1.4)	5	(0.1)
Third	9,859	(2.8)	65	(0.2)
TOTAL	14,464	(2.0)	71	(0.2)

*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, i.e., 0.7% of first class male airmen have defective color vision, etc. 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.E

ACTIVE AIRMEN WITH WAIVERS
 BY CLASS AND SEX*
 As Of: December 31, 1973

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	3,230	(4.1)	33	(8.2)
Second	23,252	(7.9)	760	(11.9)
Third	11,148	(3.2)	1,014	(3.5)
TOTAL	37,630	(5.2)	1,807	(5.0)

*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.

Table V.F

FREQUENCY OF WAIVER CAUSE CODES
BY CLASS OF MEDICAL CERTIFICATE ISSUED*
As Of: December 31, 1973

Waiver Cause Code	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
A - External Eye Problem	42	-	263	6	160	11	465	17
B - Internal Eye Problem	34	-	102	2	190	6	326	8
C - Glaucoma	-	-	1	-	-	-	1	-
D - Deficient Distant Vision	1,306	18	14,201	465	2,800	102	18,307	585
E - Deficient Near Vision	2	-	11	-	8	2	21	2
F - Deficient Color Vision	480	-	2,369	1	1,808	6	4,657	7
G - Contact Lenses	425	8	2,180	186	2,894	751	5,499	945
H - Field of Vision (Visual Field Deficiency)	3	-	7	1	16	-	26	1
I - Deficient Hearing	394	1	1,132	5	356	11	1,882	17
J - Ear	1	-	2	-	-	-	3	-
K - Nose	-	-	-	-	-	-	-	-
L - Throat	-	-	1	-	1	-	2	-
M - Mute	-	-	-	-	5	-	5	-
N - Respiratory System	-	-	6	-	4	-	10	-
O - Heart Disease, General	-	-	5	-	-	-	5	-
P - Heart Disease, Valvular	-	-	-	-	-	-	-	-
Q - Heart Disease, Vascular	-	-	1	-	-	-	1	-
R - Heart Disease, Arrhythmia	-	-	1	-	-	-	1	-
S - Electrocardiogram Abnormality	-	-	1	-	-	-	1	-

Table V.F (Continued)

FREQUENCY OF WAIVER CAUSE CODES
BY CLASS OF MEDICAL CERTIFICATE ISSUED*
As Of: December 31, 1973

Waiver Cause Code	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
T - Abdominal	-	-	-	-	-	-	-	-
U - Neurological	3	-	26	-	58	2	87	2
V - Mental and Nervous	-	-	2	-	2	-	4	-
W - Bone and Joint	15	-	69	2	122	3	206	5
X - Muscles	9	-	57	-	145	3	211	3
Y - Miscellaneous Conditions	20	-	86	-	193	4	299	4
Z - Malignancy	-	-	1	-	3	-	4	-
1 - Amputation	26	-	104	1	227	2	357	3
TOTAL	2,760	27	20,628	669	8,992	903	32,380	1,599

*This is a summary of only those airmen assigned waiver numbers. Figures are based on active airmen certified within the past 25 months; however, the waiver may have been assigned prior to most recent certification. Prior to 1964 waiver numbers were not assigned; therefore, total figures on this table do not agree with the total figures on Table V.E.

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

