

1972

# **AEROMEDICAL CERTIFICATION STATISTICAL HANDBOOK**



**DEPARTMENT OF TRANSPORTATION**

**FEDERAL AVIATION ADMINISTRATION**

**CIVIL AEROMEDICAL INSTITUTE  
AEROMEDICAL CERTIFICATION BRANCH**

**Medical Statistical Section**



## Table of Contents

Section	Page
I. AVIATION MEDICAL EXAMINER INFORMATION	1
A. Designated FAA Aviation Medical Examiners by Region	2
B. Medical Practice of Aviation Medical Examiners (Chart)	3
C. Regional Coverage of Aviation Medical Examiners Versus Civil Airmen	4
D. Aviation Medical Examiner Seminars - Date, Location, and Attendance	5
E. Aviation Medical Examiner Seminars and Attendance	6
F. Active Aviation Medical Examiners Seminar Attendance by Region	7
G. Regional Activities of the Aviation Medical Examiner Program	8
H. Aviation Medical Examiner Summary Data	9
II. CERTIFICATION ACTIVITY	10
A. Airman Applications for Medical Certification (Chart)	11
B. Receipts of Medical Certificate Applications by Class	12
C. Medical Applications Processing by the Aeromedical Certification Branch	13
D. Aeromedical Certification Branch, Correspondence Section Activity	14
E. Aeromedical Certification Branch Computer Tape File Summary	15
F. Medical Certification Activity Summary	16
III. REFERRALS AND DENIALS	18
A. Distribution of Causes for Review by Major Category (Chart)	19
B. Distribution of Causes for Review by Major and Minor Categories	20
C. Appeals Considered by the Federal Air Surgeon	21
D. Reconsideration Actions by the Federal Air Surgeon (1972)	22
E. Reconsideration Actions by the Federal Air Surgeon (1963-1972)	23
F. Petitions Granted or Denied by the FAA (1972)	24
G. Petitions Granted or Denied by the FAA (1961-1972)	25
H. Status of Airmen Who Have Been Granted Exemptions	26

## Table of Contents

Section	Page
IV. GENERAL AIRMAN POPULATION DATA	27
A. Regional Distribution of Active Airmen by Class of Certificate and Effective Status	28
B. Active Airmen's State of Residence by Sex and Class of Certificate Issued	29
C. Age Distribution of Medically Certified Airmen (Chart)	31
D. Age Distribution of Medically Certified First Class Airmen (Chart)	32
E. Age Distribution of Medically Certified Second Class Airmen (Chart)	33
F. Age Distribution of Medically Certified Third Class Airmen (Chart)	34
G. Age Distribution of Active Airmen by Class and Sex (Table)	35
H. Age Distribution of Airline Pilots (Chart)	36
I. Age Distribution of Airline Pilots (Table)	37
J. Age Distribution of Air Traffic Controllers (Chart)	38
K. Age Distribution of Air Traffic Controllers (Table)	39
L. Height Distribution of Active Airmen by Class and Sex	40
M. Weight Distribution of Active Airmen by Class and Sex	41
N. Active Airmen by Type of Flying and Class	42
O. Active Airmen by Occupation, Class and Sex	43
P. Employers of Active Airmen by Class of Certificate Issued	44
V. MEDICAL CHARACTERISTICS OF THE AIRMAN POPULATION	46
A. Frequency of Selected Preliminary ECG Diagnosis Codes Among First Class Airman Applicants	47
B. Active Airmen by Number of Restrictions Carried, Class and Sex	48
C. Frequency of Restrictions Among Active Airmen by Class and Sex	49
D. Active Airmen with Defective Color Vision by Class and Sex	52
E. Active Airmen with Waivers by Class and Sex	53
F. Frequency of Waiver Cause Codes by Class of Medical Certificate Issued	54

SYMBOLS

Category not applicable.....	N/A
Data not available.....	---
Quantity zero.....	0
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 1972, 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.

DESIGNATED FAA AVIATION MEDICAL EXAMINERS BY REGION  
1970-1972

Region	Percent Of 1972 Total*	Aviation Medical Examiners		
		1972	1971	1970
Eastern	11.1	835	885	1,440
Central	7.9	596	590	1,633
Southern	13.7	1,026	1,005	881
Southwest	11.8	883	850	812
Western	12.9	965	974	1,536
Rocky Mountain**	5.8	436	418	-
Northwest**	5.2	392	370	-
New England**	2.8	213	199	-
Great Lakes**	15.2	1,139	1,146	-
Alaskan	1.1	79	81	68
Pacific	0.6	47	47	45
SUBTOTAL	88.1	6,611	6,565	6,415
Military***	8.0	599	629	670
International	3.9	296	292	285
TOTAL	100.0	7,506	7,486	7,370

\*The basis for percentage computations is total designations as of the end of calendar year 1972, i.e., U. S. and International designations represent one physician for each designation; whereas, Military designations represent one facility for each designation.

\*\*New regions were established on the AME automatic data processing system effective 15 September 1971.

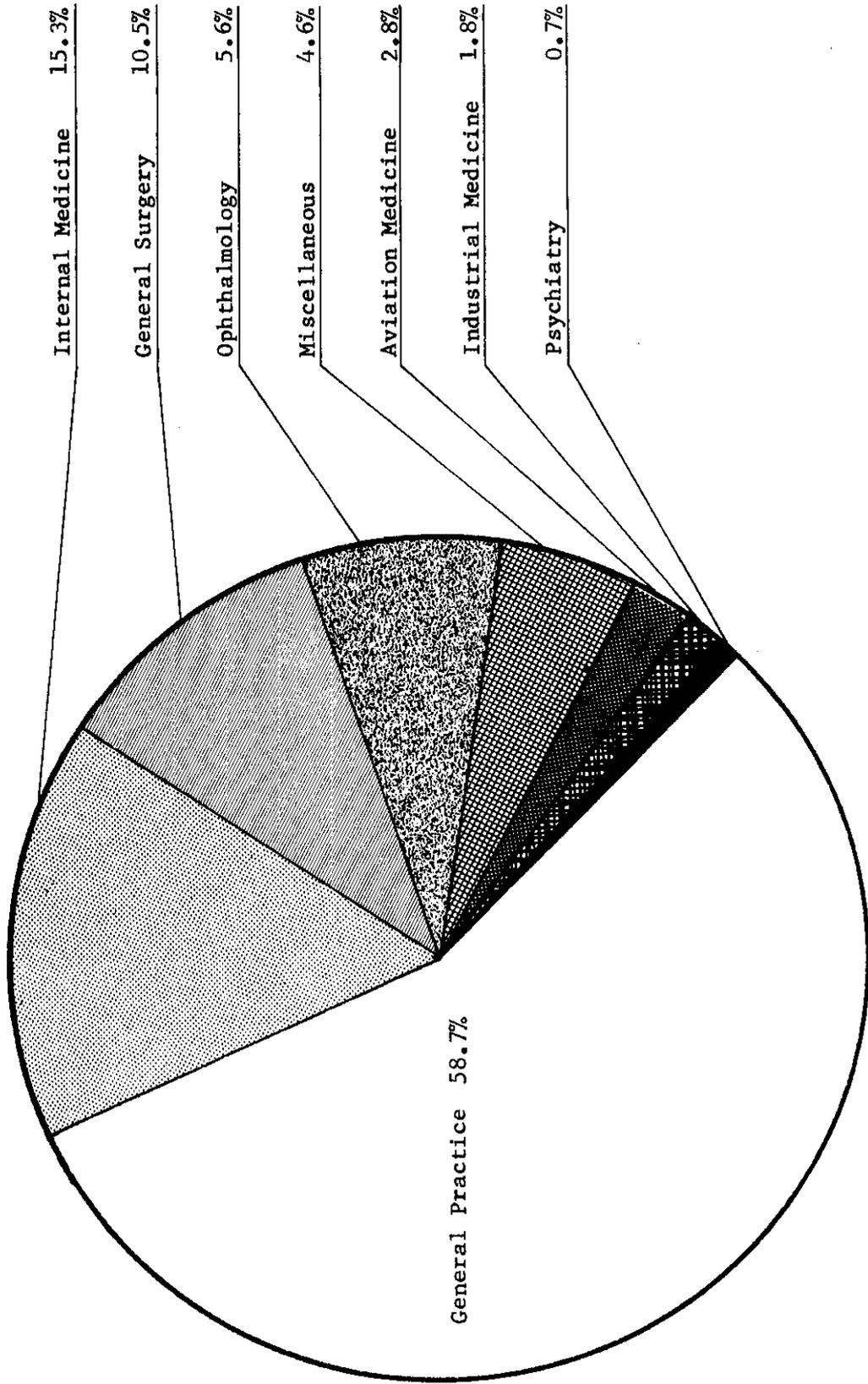
\*\*\*Denotes military installation designations rather than individual physicians.

Source: Civil Aeromedical Institute, Aeromedical Education 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\*

1972



\*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

1972

Region	Active U.S. Civil Airman Population*	U.S. Non- Military AME Population**	Ratio AME's To Airmen
Eastern	88,762	835	1:106
Central	42,517	596	1:71
Southern	89,290	1,026	1:87
Southwest	72,796	883	1:82
Western	107,603	965	1:112
Rocky Mountain	28,287	436	1:65
Northwest	30,335	392	1:77
New England	27,505	213	1:129
Great Lakes	122,374	1,139	1:107
Alaskan	6,663	79	1:84
Pacific	2,103	47	1:45
TOTAL	618,235	6,611	1:94

\*Active U. S. Civil Airman Population figures are as of 31 December 1972; RIS: AC 8065-4, Examination Time Period Summary. Military and international not included.

\*\*U. S. Non-Military AME Population figures are as of 15 January 1973; 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\*  
1972

Date	Location	Attendance
January 17-19	Phoenix, Arizona	163
July 12-14	Philadelphia, Pennsylvania	200
August 2-4	Chicago, Illinois	221
September 11-15**	Oklahoma City, Oklahoma	90
October 18-20	Dallas, Texas	201
TOTAL		875

\*Six scheduled seminars were cancelled during 1972 due to budgetary limitations.

\*\*Denotes the five day AME Flight Surgeon Seminar attended by invitation only from Regional Flight Surgeons. The other seminars are for all AMEs upon initial designation and every four to five years for periodic upgrading and standardization to retain designation.

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

Table I.E

AVIATION MEDICAL EXAMINER  
SEMINARS AND ATTENDANCE  
1960-1972

<u>Year</u>	<u>Seminars</u>	<u>Attendance</u>
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
TOTAL	123	13,803

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

Table I.F

ACTIVE AVIATION MEDICAL EXAMINERS  
SEMINAR ATTENDANCE BY REGION\*  
1972

Region	Total AME's	One Seminar	More Than One Seminar	No Participation At Seminars
Eastern	835	284	485	66
Central	596	194	310	92
Southern	1,026	310	446	270
Southwest	883	312	459	112
Western	965	301	504	160
Rocky Mountain	436	128	232	76
Northwest	392	91	226	75
New England	213	57	104	52
Great Lakes	1,139	418	576	145
Alaskan	79	23	26	30
Pacific	47	21	16	10
International	296	62	8	226
TOTAL	6,907	2,201	3,392	1,314
Percent of Total	100.0	31.9	49.1	19.0

\*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\*

Region	Number of AME's Designated 1971	New Designations	Separations	Net Gain or Loss	Number of AME's Designated 1972
Eastern	885	71	121	-50	835
Central	590	50	44	6	596
Southern	1,005	109	88	21	1,026
Southwest	850	93	60	33	883
Western	974	45	54	- 9	965
Rocky Mountain	418	48	30	18	436
Northwest	370	41	19	22	392
New England	199	27	13	14	213
Great Lakes	1,146	101	108	- 7	1,139
Alaskan	81	12	14	- 2	79
Pacific	47	4	4	0	47
International	292	35	31	4	296
<b>TOTAL</b>	<b>6,857</b>	<b>636</b>	<b>586</b>	<b>50</b>	<b>6,907</b>

\*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  
1972

A. Number of Designated U. S. Non-Military Aviation Medical Examiners	6,611
B. Number of Designated International Aviation Medical Examiners	296
C. Number of Designated Military Aviation Medical Examiners (Installations)	599
D. Ratio of U. S. Non-Military Aviation Medical Examiners to U. S. Civil Airmen	1:94
E. Percentage of Non-Military Aviation Medical Examiners Who Are Qualified Pilots	48%*
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	32%*
I. Percentage of Non-Military Aviation Medical Examiners Who Have Attended More Than One Seminar	49%*
J. Percentage of Non-Military Aviation Medical Examiners Who Have Not Attended a Seminar	19%*
K. Total Number of Seminars Conducted in 1972	5
L. Total Attendance of Aviation Medical Examiners at Seminars Conducted in 1972	875

\*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

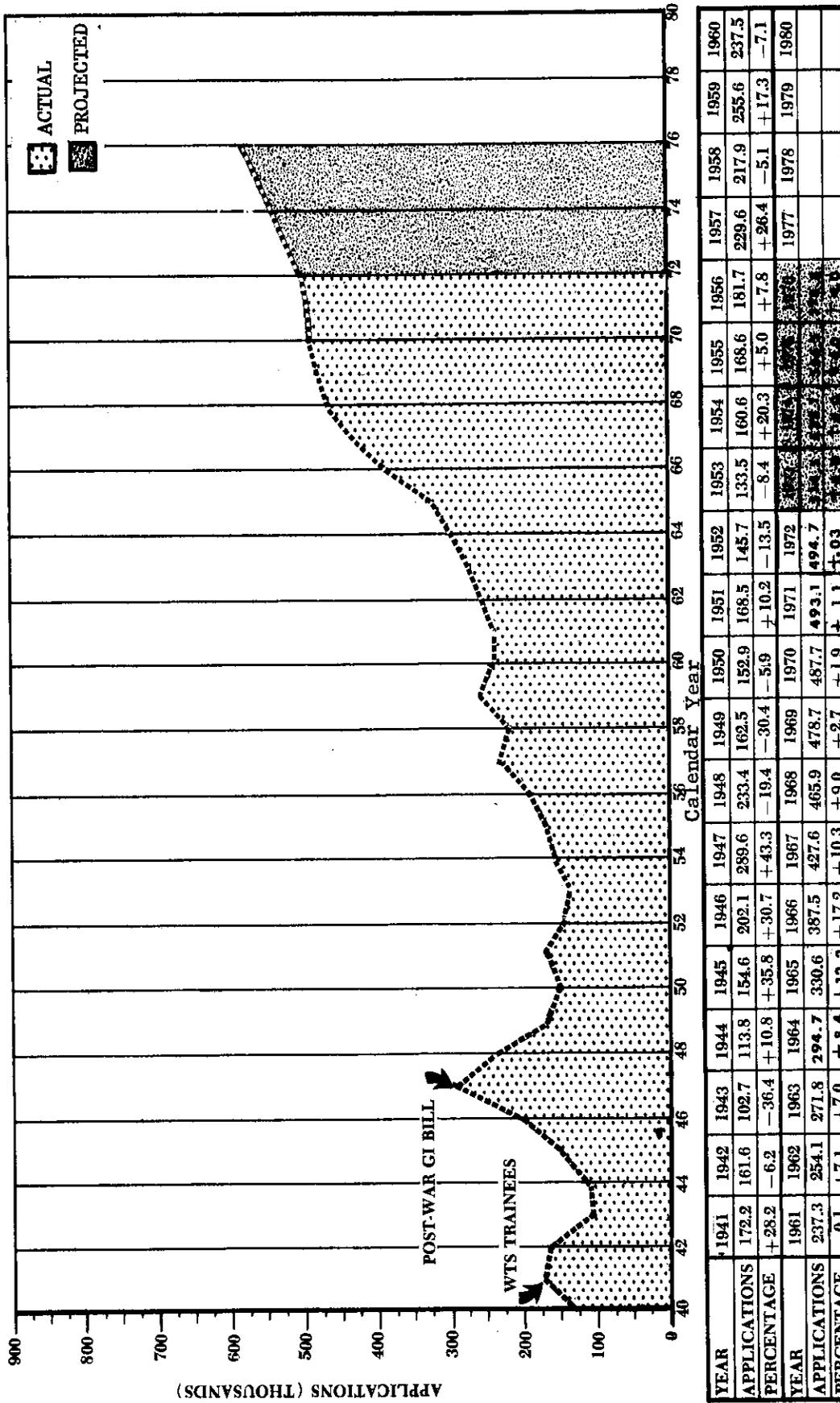
CERTIFICATION ACTIVITY

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

AIRMAN APPLICATIONS FOR MEDICAL CERTIFICATION  
1940-1972 (Projected to 1976)



1/ 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\*  
 1960-1972

Calendar Year	Total	Percent Of			Percent Of Total
		First Class	Second Class	Third Class	
1960	237,509	33,964	84,715	118,830	50.0
1961	237,311	33,936	84,644	118,731	50.0
1962	254,142	36,342	90,647	127,153	50.0
1963	271,764	38,862	96,933	135,969	50.0
1964	294,734	42,147	105,126	147,461	50.0
1965	330,617	52,006	109,600	169,011	51.1
1966	387,537	73,903	124,593	189,041	48.8
1967	427,596	80,474	143,458	203,664	47.6
1968	465,929	87,408	173,139	205,382	44.0
1969	478,700	90,666	178,699	209,335	43.8
1970	487,700	94,419	189,276	204,005	41.8
1971	493,145	91,478	204,853	196,814	40.0
1972	494,700	86,573	205,597	202,530	40.9

\*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 1972 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

1972

Month	Applications Received	Applications Coded For Computer Screening	Applications Screened By Computer*	Applications Requiring Manual Review**	Applications Intra-Agency Transmitted***
January	36,600	31,500	37,370	13,077	202
February	35,400	34,900	33,625	13,653	222
March	44,300	44,600	47,731	16,957	245
April	41,000	42,200	43,298	16,893	248
May	46,500	46,000	43,245	17,688	284
June	47,800	47,200	45,691	18,094	286
SUBTOTAL	251,600	246,400	250,960	96,362	1,487
July	44,900	42,300	40,380	15,457	258
August	45,200	50,300	52,001	22,243	339
September	40,000	39,900	40,528	16,440	203
October	43,100	42,000	43,876	17,907	223
November	36,900	39,800	43,916	17,085	258
December	33,000	30,200	28,686	11,906	150
SUBTOTAL	243,100	244,500	249,387	101,038	1,431
TOTAL	494,700	490,900	500,347	197,400	2,918

\*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; 39.5% 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  
1972

Activity	Frequency	Subtotal	Percent Of Total
<u>Certification</u>			
Issued, Corrected or Duplicate Certificates	7,384		
Eligibility Letters	25,624		
Issued or Duplicate Waivers	8,221	41,229	41.5
<u>Further Action Necessary</u>			
Information Requested	29,494		
Medical Flight Test Authorization	3,328		
Case Summary for the Federal Air Surgeon	826	33,648	33.9
<u>Information Requested From The Branch</u>			
Telegram Replies to Airmen/Agency Offices	267		
Replies to Insurance Companies	1,612	1,879	1.9
<u>Denial Letters</u>			
Mandatory Denials	450		
Other Denials	4,169	4,619	4.6
<u>Miscellaneous Correspondence*</u>	17,972	17,972	18.1
<b>TOTAL</b>		99,347	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: 31 December 1972

Action	Time Lapse Since Date of Last Examination					Total
	< 7 Month	< 13 Month	< 25 Month	Subtotal	25-36 Month	
<u>Certified</u>						
First Class	43,828	21,642	10,650	76,120	7,779	N/A
Second Class	98,065	98,290	96,165	292,520	51,687	N/A
Third Class	103,668	86,095	185,039	374,802	98,752	N/A
SUBTOTAL	245,561	206,027	291,854	743,442	158,218	N/A
<u>Non-Certified</u>						
Pending	666	81	129	876	33	N/A
Denied	2,645	2,375	4,186	9,206	6,056	N/A
SUBTOTAL	3,311	2,456	4,315	10,082	6,089	N/A
<u>Link*</u>	N/A	N/A	N/A	N/A	N/A	159,245
TOTAL	248,872	208,483	296,169	753,524	164,307	159,245
EFFECTIVE STATUS TOTAL:	CLASS 1 = 43,828	CLASS 2 = 217,997	CLASS 3 = 481,617			

\*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  
1970-1972

Activity	CY 1972	CY 1971	CY 1970
Applications for Medical Certification	494,700	493,145	487,700
New Applications for First Class Medical Certificates*	---	1,723	2,672
New Applications for Second Class Medical Certificates*	---	19,394	26,046
New Applications for Third Class Medical Certificates*	---	69,709	68,941
First Class Combined Student/Medical Certificates	3,202	4,490	6,115
Second Class Combined Student/Medical Certificates	25,733	27,829	30,249
Third Class Combined Student/Medical Certificates	197,762	198,582	196,793
Electrocardiograms Received for First Class Pilots	27,545	27,180	26,770
Incoming Correspondence**	76,475	70,553	76,770
Outgoing Correspondence	99,347	95,488	79,345
Applications Containing Medical or Clerical Problems	197,400	194,987	190,836
Number of Abnormalities Detected in Electrocardiograms***	2,811	2,653	3,443
Number of First Class Active Airmen with Pathology Records	13,085	12,622	12,484
Number of Second Class Active Airmen with Pathology Records	51,903	49,435	46,607
Number of Third Class Active Airmen with Pathology Records	53,800	54,600	55,193

\*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 1971, 1,606 or 1.8% new applications were denied, 270 or 0.3% were pending, and 88,950 or 97.9% were issued for a total of 90,826 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  
1970-1972

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

\*\*\*Prior to June 1970, Non-Critical ECG Defect Codes were not brought forward from examination to examination; thus, every two years non-critical EKG defect codes were re-file maintained on the airmen's tape records.

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

## SECTION III

REFERRALS AND DENIALS

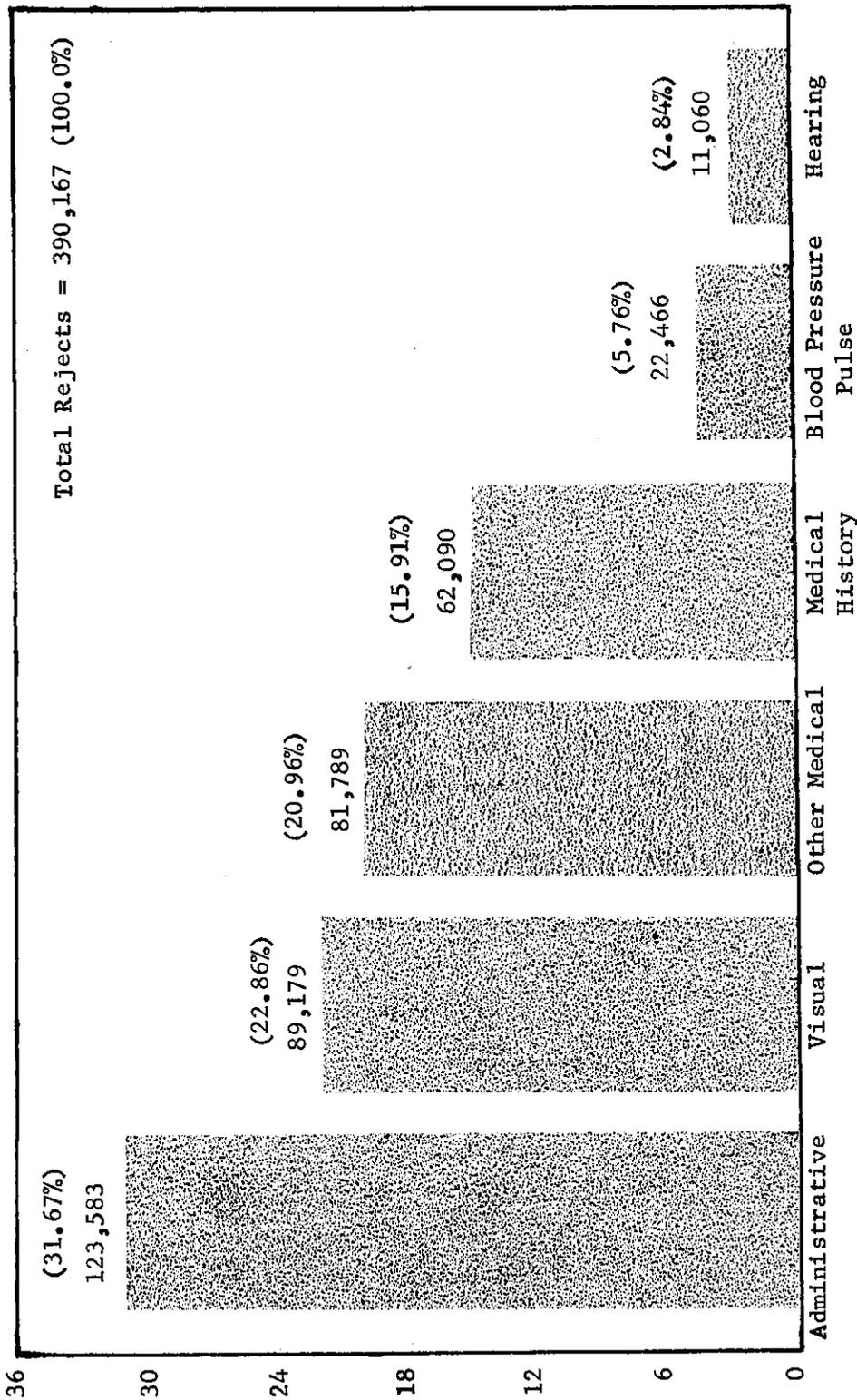
This section is concerned with those applications for medical certification which require manual review and those applications denied medical certification.

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  
1972

Percentage  
Of Rejects



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  
1972

Reject	Major Category Totals	Percent	Minor Categories	Percent
<u>Administrative</u>	123,583	31.67		
First Class by Military			185	0.05
Matches Link Record			4,952	1.27
Special Case			959	0.24
Previous Pending			3,148	0.81
Clerical Reject			8,708	2.23
Class Issued Higher Than Applied For			1,394	0.36
First Class Over 60 Years of Age			543	0.14
Coded Previous Waiver			10,801	2.77
Re-Submit Exam to Computer			3,645	0.93
Date of ECG for First Class Exams			4,492	1.15
State Code/Zip Code			1,088	0.28
Date of Examination			62	0.02
No Match Between New and Previous Exams			19,362	4.96
Follow-Up Material Requested			2,376	0.61
Discrepancy in Pathology Data			11,605	2.97
Other*			50,263	12.88
<u>Visual</u>	89,179	22.86		
Distant Vision			30,336	7.77
Near Vision			20,040	5.14
Intraocular Tension			4,907	1.26
Field of Vision			4,332	1.11
Color Vision			6,955	1.78
Variation in Distant Vision			13,369	3.43
Esophoria and Exophoria			7,523	1.93
Right or Left Hyperphoria			1,717	0.44
<u>Other Medical Conditions</u>	81,789	20.96		
Denied or Pending			15,192	3.89
Urinalysis			6,440	1.65
Pathology Codes			19,263	4.94
Abnormalities			13,015	3.34
Medication			27,879	7.14
<u>Medical History</u>	62,090	15.91		
Previous Denial Indicated			7,502	1.92
Medical History			52,638	13.49
Previous Exam on Tape Denied			1,302	0.33
Previous Exemption Case			447	0.12
New Exemption Case			201	0.05
<u>Blood Pressure/Pulse</u>	22,466	5.76		
Blood Pressure			5,457	1.40
Pulse			17,009	4.36
<u>Hearing</u>	11,060	2.84		
Hearing			11,060	2.84
<b>TOTAL REJECT CARDS</b>	<b>390,167</b>	<b>100.00</b>		

\*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  
1961-1972

Year	Certified	Denied	Total
1961*	70	204	274
1962	189	372	561
1963	147	472	619
1964	149	711	860
1965	242	661	903
1966	119	344	463
1967**	95	234	329
1968**	106	273	379
1969**	140	273	413
1970**	172	372	544
1971**	140	379	519
1972**	197	480	677
TOTAL	1,766	4,775	6,541

\*Incomplete figures for January through March 1961.

\*\*Figures for 1967-1972 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.D

RECONSIDERATION ACTIONS BY THE  
FEDERAL AIR SURGEON \*  
1972

<u>Pathology</u>	<u>First Class</u>	<u>Second Class</u>	<u>Third Class</u>	<u>Modifications</u>	<u>Total</u>
<u>Issued</u>					
Eye	3	3	16	-	22
Ear, Nose, Throat	-	1	1	-	2
Respiratory	1	1	3	-	5
Cardiovascular	11	12	30	1	54
Abdominal	2	4	10	-	16
Neurologic	7	11	17	2	37
Psychiatric	2	5	33	1	41
Bone/Joint	-	-	5	-	5
Muscles	-	-	-	-	-
Miscellaneous	2	8	5	-	15
TOTAL ISSUANCES	28	45	120	4	197
<u>Denied</u>					
Eye	8	7	33	-	48
Ear, Nose, Throat	2	1	1	-	4
Respiratory	2	2	12	-	16
Cardiovascular	20	42	92	4	158
Abdominal	3	6	14	-	23
Neurologic	10	33	63	3	109
Psychiatric	10	20	40	-	70
Bone/Joint	1	-	1	-	2
Muscles	-	-	1	-	1
Miscellaneous	4	6	19	1	30
SUBTOTAL	60	117	276	8	461
Denials for Failure to Provide Additional Information (67.31)	1	6	12	-	19
TOTAL DENIALS	61	123	288	8	480

\*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\*  
1963-1972

Pathology	First Class	Second Class	Third Class	Modifications	Total
<u>Issued</u>					
Eye	59	130	175	1	365
Ear, Nose, Throat	6	4	16	-	26
Respiratory	4	10	18	-	32
Cardiovascular	85	104	245	3	437
Abdominal	5	19	44	1	69
Neuropsychiatric	69	86	286	5	446
Bone/Joint	2	4	19	-	25
Muscles	-	1	5	-	6
Miscellaneous	11	26	64	-	101
TOTAL	241	384	872	10	1,507
<u>Denied</u>					
Eye	77	230	221	-	528
Ear, Nose, Throat	9	6	10	-	25
Respiratory	8	14	79	-	101
Cardiovascular	196	391	1,124	6	1,717
Abdominal	19	33	118	-	170
Neuropsychiatric	173	301	751	3	1,228
Bone/Joint	5	6	25	-	36
Muscles	2	4	10	-	16
Miscellaneous	35	71	234	1	341
SUBTOTAL	524	1,056	2,572	10	4,162
Denials for Failure to Provide Additional Information (67.31)	3	13	21	-	37
TOTAL DENIALS	527	1,069	2,593	10	4,199

\*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\*  
1972

Pathology	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	-	-	6	6
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	1	1
Cardiovascular	2	13	76	91
Abdominal	-	-	3	3
Neuropsychiatric	8	5	25	38
Bone/Joint	-	-	-	-
Muscles	-	-	-	-
Miscellaneous	-	2	3	5
TOTAL GRANTS	10	20	114	144
<u>Denied</u>				
Eye	-	2	3	5
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	2	2
Cardiovascular	20	43	116	179
Abdominal	-	2	1	3
Neuropsychiatric	7	24	71	102
Bone/Joint	-	-	-	-
Muscles	-	-	-	-
Miscellaneous	1	2	3	6
TOTAL DENIALS	28	73	196	297

\*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\*  
1961-1972

Pathology	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	10	25	45	80
Ear, Nose, Throat	-	1	-	1
Respiratory	-	-	6	6
Cardiovascular	13	105	609	727
Abdominal	2	1	10	13
Neuropsychiatric **	17	38	204	259
Bone/Joint	1	1	1	3
Muscles	-	-	-	-
Miscellaneous **	-	3	4	7
TOTAL GRANTS	43	174	879	1,096
<u>Denied</u>				
Eye	8	65	29	102
Ear, Nose, Throat	-	1	1	2
Respiratory	3	1	16	20
Cardiovascular**	213	369	1,048	1,630
Abdominal	5	7	30	42
Neuropsychiatric**	102	183	514	799
Bone/Joint	1	5	9	15
Muscles	-	-	2	2
Miscellaneous**	9	18	99	126
TOTAL DENIALS	341	649	1,748	2,738

\*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 1971 Statistical Handbook, 1 first class cardiovascular denial was added, increasing that total from 192 to 193; thus, the 1961-1971 total for first class denials was increased from 312 to 313 and the total denials from 2,440 to 2,441.

Also, due to changes in pathology classification, 7 second class grants and 23 third class grants were moved from Miscellaneous to Neuropsychiatric; 8 first class denials, 15 second class denials, and 52 third class denials were moved from Miscellaneous to Neuropsychiatric.

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

Table III.H

STATUS OF AIRMEN WHO HAVE BEEN  
GRANTED EXEMPTIONS  
1961-1972

Status Of Airmen	Percent	Number Of Airmen
Airmen Granted Exemptions*	100.0	1,051
Currently Active Airmen	43.2	454
Deceased	2.3	24
Grants Terminated:		
Adverse Change in Condition or Failed to Furnish Required Information	6.9	73
Currently Meets Medical Standards - Grant No Longer Necessary	4.3	45
For Various Personal Reasons Have Not Validated Their Grants	43.3	455

\*Although airmen may have been granted more than one exemption, they have only been counted once. There are 45 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 31 December 1972 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: 31 December 1972

Region	First Class			Second Class			Third Class			Total Active Airmen				
	Total Certified	Effective Status (Class)**		Total Certified	Effective Status (Class)**		Total Certified	Effective Status (Class)**		Total Certified	Percent Airmen Of Total	Effective Status (Class)**		
		1	2		3	1		2	3			1	2	3
Eastern	11,729	6,754	3,446	1,529	26,807	18,100	8,707	50,226	50,226	88,762	11.9	6,754	21,546	60,462
Central	2,775	1,722	738	315	12,987	8,757	4,230	26,755	26,755	42,517	5.7	1,722	9,495	31,300
Southern	12,772	7,530	3,454	1,788	30,788	20,827	9,961	45,730	45,730	89,290	12.0	7,530	24,281	57,479
Southwest	7,459	4,405	2,224	830	26,568	17,970	8,598	38,769	38,769	72,796	9.8	4,405	20,194	48,197
Western	15,397	8,981	4,137	2,279	35,147	23,065	12,082	57,059	57,059	107,603	14.5	8,981	27,202	71,420
Rocky Mountain	2,888	1,593	882	413	10,214	6,781	3,433	15,185	15,185	28,287	3.8	1,593	7,663	19,031
Northwest	3,148	1,741	940	467	11,068	7,162	3,906	16,119	16,119	30,335	4.1	1,741	8,102	20,492
New England	4,203	2,550	1,126	527	8,646	5,876	2,770	14,656	14,656	27,505	3.7	2,550	7,002	17,953
Great Lakes	10,511	5,924	3,241	1,346	35,761	23,597	12,164	76,102	76,102	122,374	16.5	5,924	26,838	89,612
Alaskan	567	306	200	61	2,723	1,919	804	3,373	3,373	6,663	0.9	306	2,119	4,238
Pacific	440	220	162	58	851	612	239	812	812	2,103	0.3	220	774	1,109
U. S. TOTAL	71,889	41,726	20,550	9,613	201,560	134,666	66,894	344,786	344,786	618,235	83.2	41,726	155,216	421,293
Military***	56	26	17	13	88,294	59,926	28,368	26,973	26,973	115,323	15.5	26	59,943	55,354
Foreign	4,175	2,076	1,075	1,024	2,666	1,763	903	3,043	3,043	9,884	1.3	2,076	2,838	4,970
TOTAL	76,120	43,828	21,642	10,650	292,520	196,355	96,165	374,802	374,802	743,442	100.0	43,828	217,997	481,617
Percent of Total Certified Airmen (10.24)					(39.35)			(50.41)		(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: 31 December 1972

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Alabama	414	1	2,578	52	3,948	299	6,940	352
Alaska	564	3	2,630	92	3,040	333	6,234	428
Arizona	787	3	3,238	103	5,334	536	9,359	642
Arkansas	239	4	1,962	39	2,743	154	4,944	197
California	14,099	77	29,524	934	44,861	4,404	88,484	5,415
Colorado	2,145	17	4,531	129	5,121	463	11,797	609
Connecticut	1,788	9	2,243	44	3,923	321	7,954	374
Delaware	170	-	458	8	671	46	1,299	54
District of Columbia	74	1	244	22	407	42	725	65
Florida	6,815	38	10,963	278	13,922	1,342	31,700	1,658
Georgia	3,180	8	4,468	84	5,875	417	13,523	509
Hawaii	437	5	824	28	722	93	1,983	126
Idaho	159	1	1,234	25	2,154	173	3,547	199
Illinois	3,927	17	8,115	209	16,296	1,151	28,338	1,377
Indiana	877	2	4,612	107	8,951	639	14,440	748
Iowa	256	1	2,915	51	6,479	389	9,650	441
Kansas	887	3	3,693	83	6,360	557	10,940	643
Kentucky	237	3	1,698	32	3,031	196	4,966	231
Louisiana	787	4	3,473	77	3,444	282	7,704	363
Maine	160	1	829	8	1,597	119	2,586	128
Maryland	820	2	2,467	74	4,605	384	7,892	460
Massachusetts	1,438	4	3,456	98	5,689	460	10,583	562
Michigan	1,207	6	6,088	140	14,450	960	21,745	1,106
Minnesota	2,180	4	4,534	66	8,726	663	15,440	733
Mississippi	200	2	1,881	25	2,569	168	4,650	195
Missouri	1,421	5	4,134	106	8,152	626	13,707	737
Montana	173	-	1,559	45	2,249	188	3,981	233
Nebraska	204	1	1,967	41	3,896	308	6,067	350
Nevada	433	3	1,273	29	1,722	179	3,428	211
New Hampshire	582	2	1,109	18	1,056	93	2,747	113

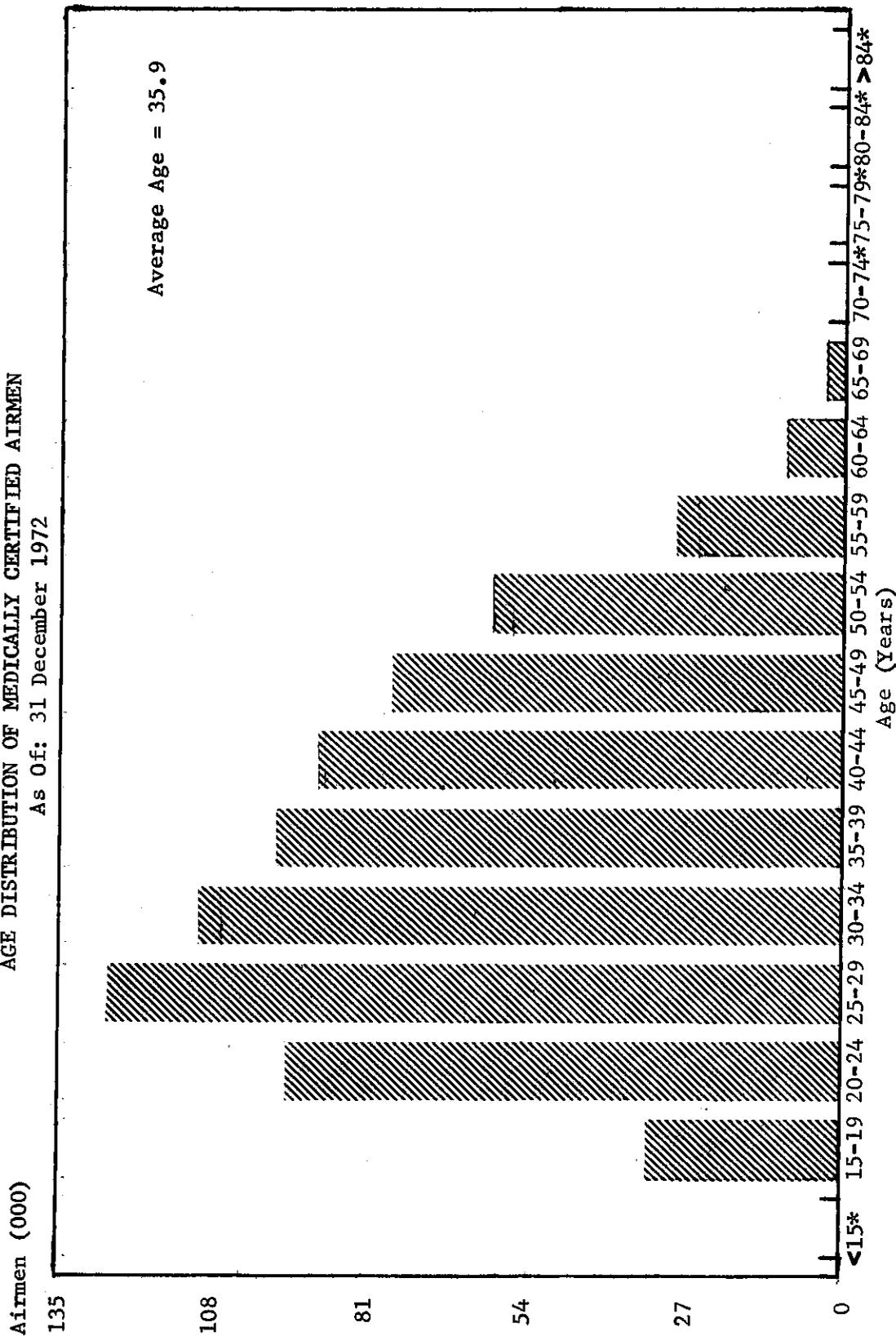
Table IV.B (Continued)  
 ACTIVE AIRMEN'S STATE OF RESIDENCE  
 BY SEX AND CLASS OF CERTIFICATE ISSUED\*  
 As Of: 31 December 1972

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
New Jersey	3,060	15	4,014	98	7,879	572	14,953	685
New Mexico	203	-	1,810	64	2,641	234	4,654	298
New York	3,579	12	8,656	176	15,565	1,189	27,800	1,377
North Carolina	778	2	3,256	58	5,958	381	9,992	441
North Dakota	78	3	1,026	17	1,937	117	3,041	137
Ohio	1,484	13	8,504	196	16,267	1,206	26,255	1,415
Oklahoma	720	9	3,811	86	6,183	519	10,714	614
Oregon	390	4	3,592	80	5,057	437	9,039	521
Pennsylvania	2,016	10	5,643	133	11,330	813	18,989	956
Rhode Island	131	-	368	15	608	46	1,107	61
South Carolina	287	2	1,659	25	2,317	151	4,263	178
South Dakota	77	2	845	9	1,732	115	2,654	126
Tennessee	793	5	3,498	76	4,791	329	9,082	410
Texas	5,453	11	14,818	286	20,722	1,723	40,993	2,020
Utah	300	2	1,458	23	2,040	138	3,798	163
Vermont	94	-	437	9	672	73	1,203	82
Virginia	1,773	6	3,907	71	4,805	395	10,485	472
Washington	2,585	11	5,982	125	7,570	721	16,137	857
West Virginia	138	-	663	7	1,397	87	2,198	94
Wisconsin	785	3	3,119	53	6,385	418	10,289	474
Wyoming	90	-	567	7	1,021	72	1,678	79
U. S. CIVILLIAN TOTAL	71,474	337	196,333	4,661	318,870	25,721	586,677	30,719
Military and NASA	239	1	88,107	932	26,118	1,294	114,464	2,227
International	4,059	10	2,443	44	2,613	186	9,115	240
TOTAL AIRMEN	75,772	348	286,883	5,637	347,601	27,201	710,256	33,186

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

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

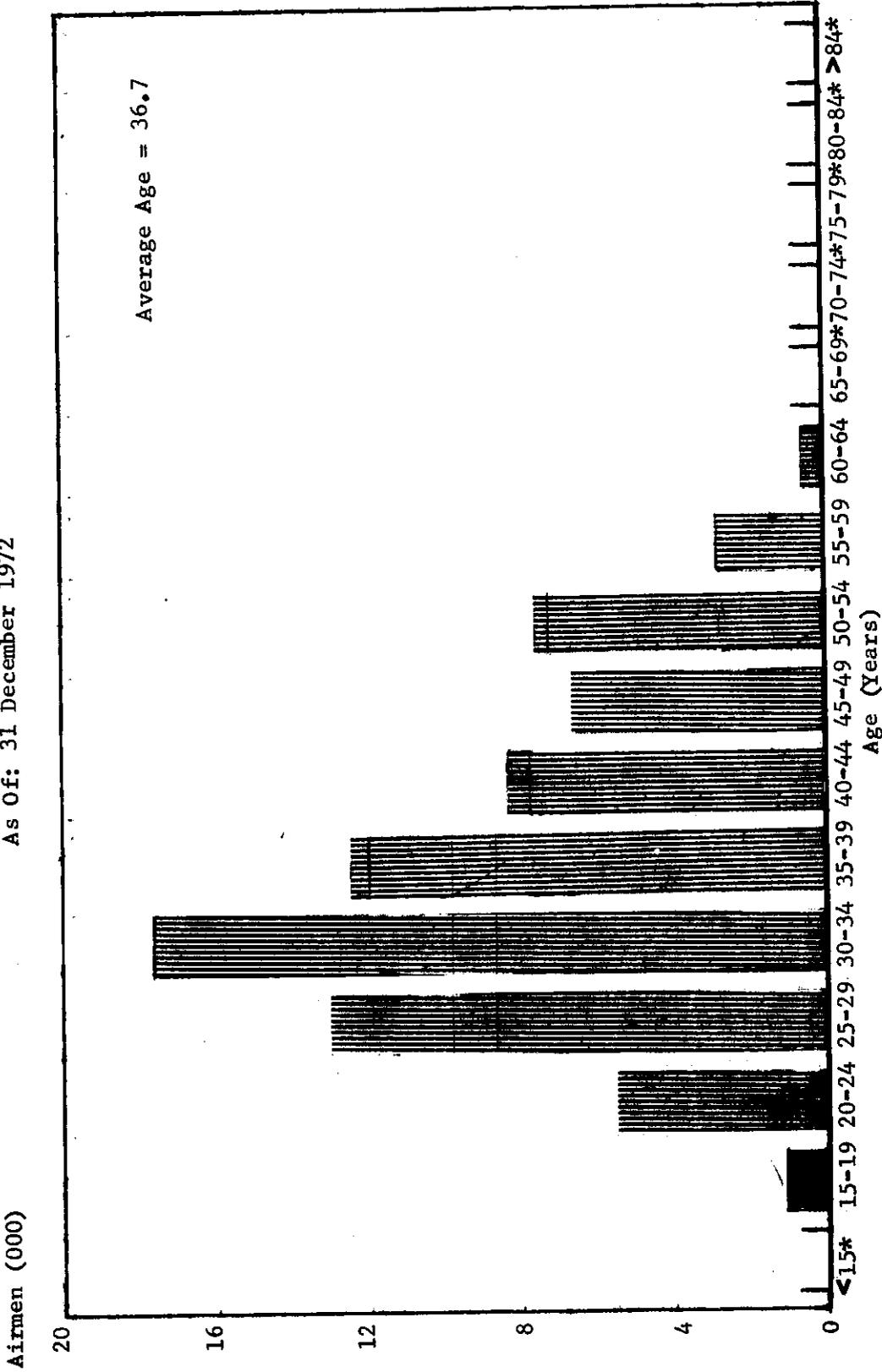
Figure IV.C  
 AGE DISTRIBUTION OF MEDICALLY CERTIFIED AIRMEN  
 As Of: 31 December 1972



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

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

Figure IV.D  
 AGE DISTRIBUTION OF MEDICALLY CERTIFIED FIRST CLASS AIRMEN  
 As Of: 31 December 1972

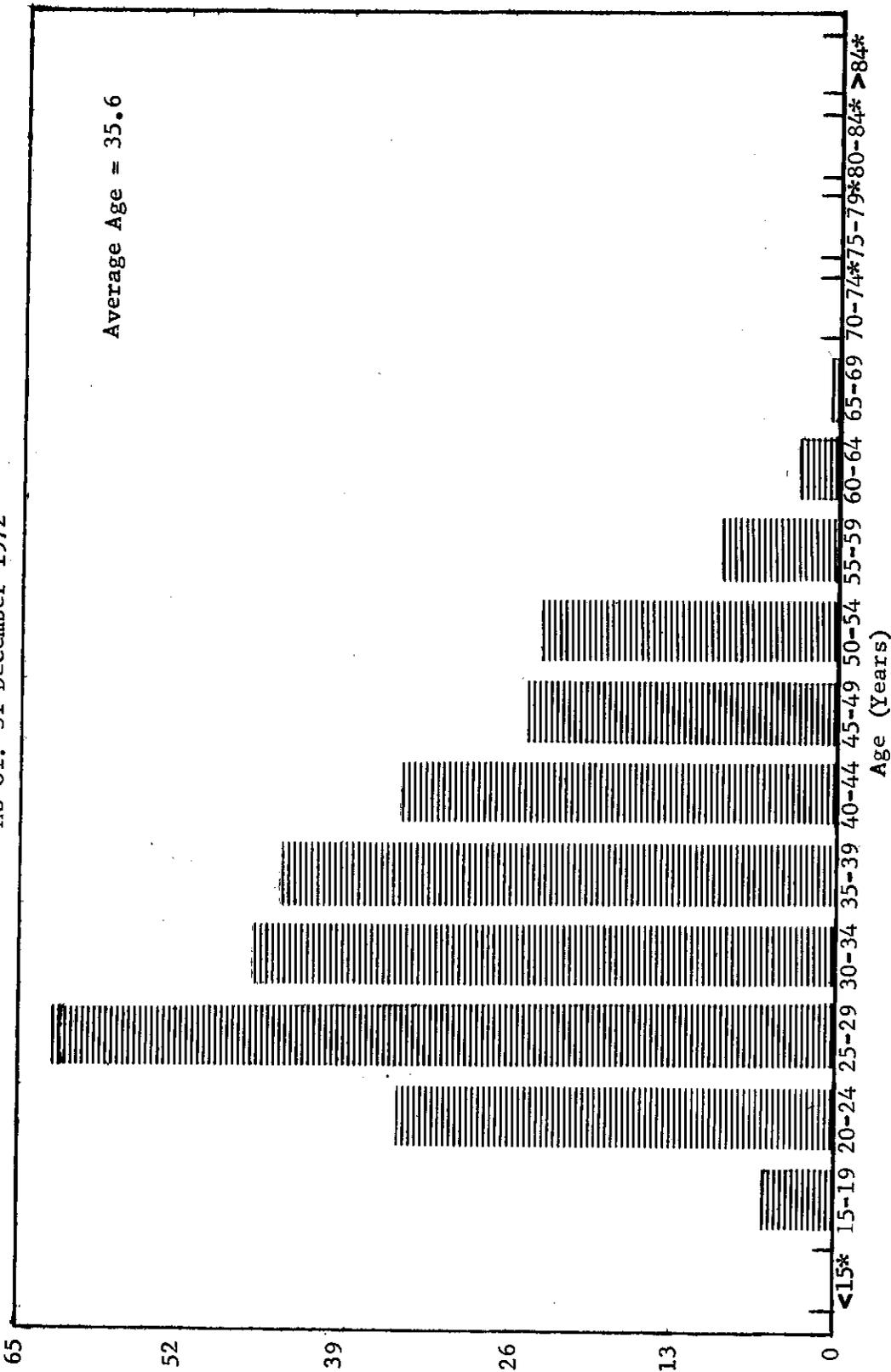


\*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.  
 Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.E

AGE DISTRIBUTION OF MEDICALLY CERTIFIED SECOND CLASS AIRMEN  
As Of: 31 December 1972

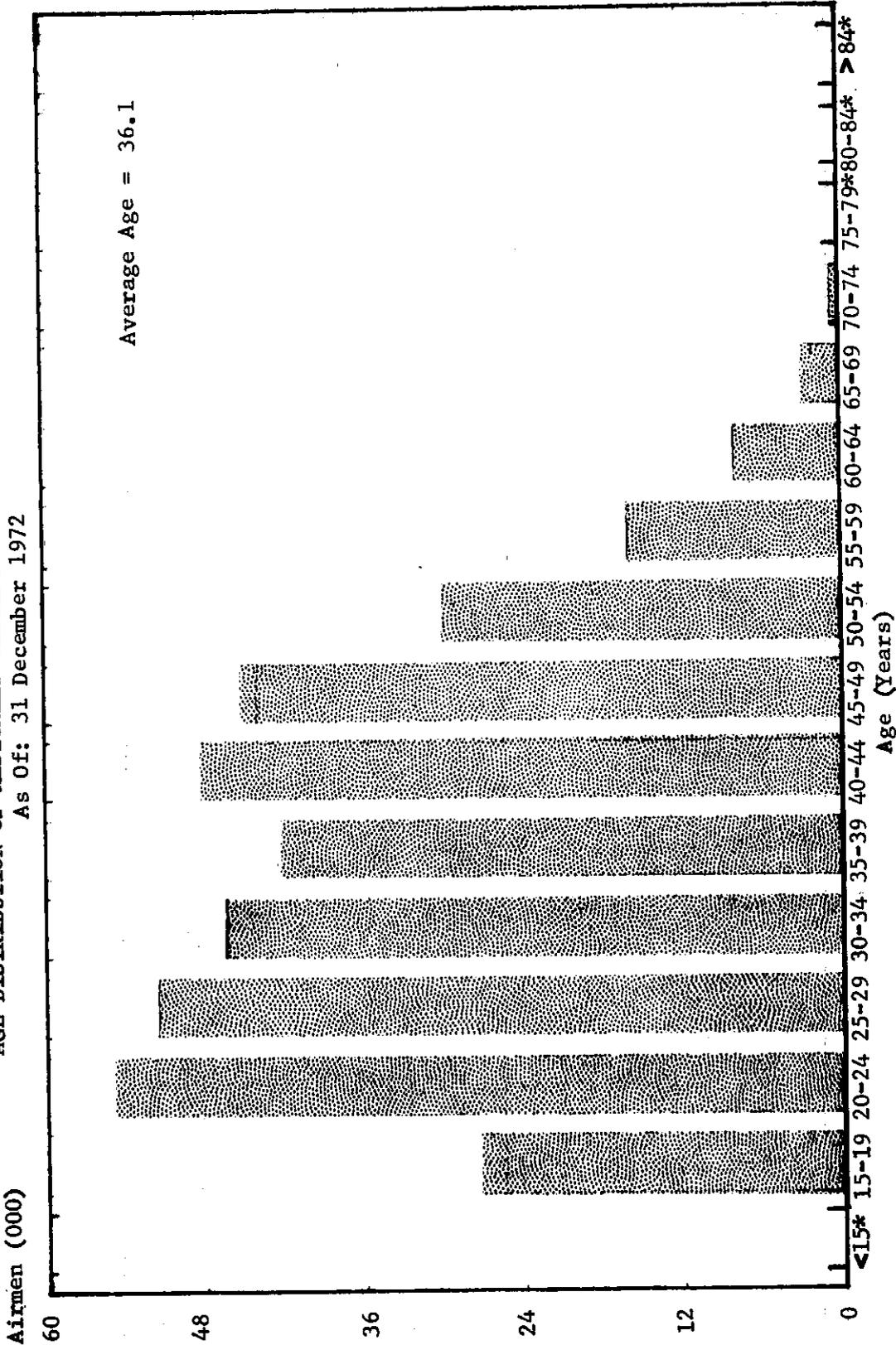
Airmen (000)



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

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

Figure IV.F  
 AGE DISTRIBUTION OF MEDICALLY CERTIFIED THIRD CLASS AIRMEN  
 As Of: 31 December 1972



\*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

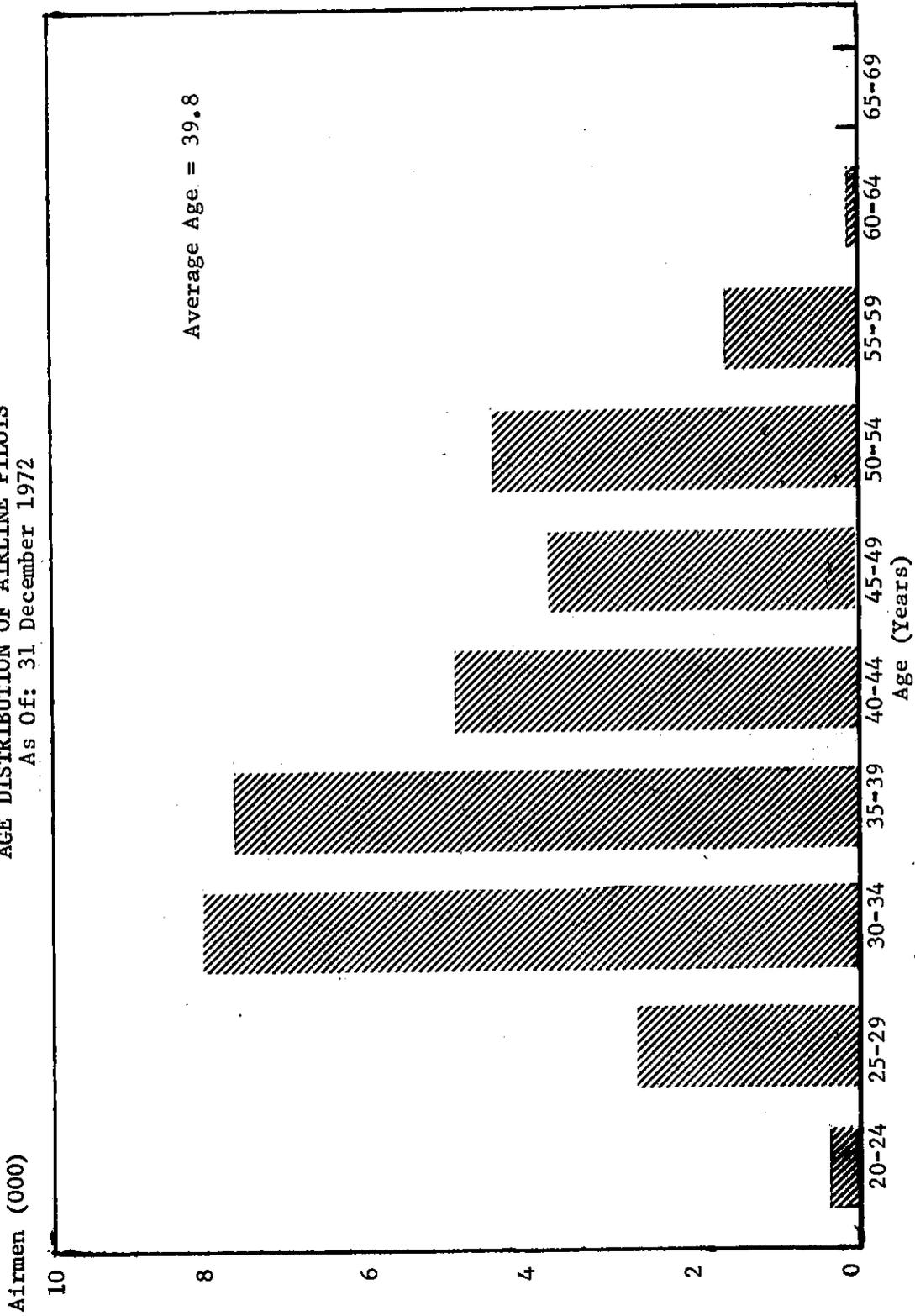
AGE DISTRIBUTION OF ACTIVE AIRMEN  
BY CLASS AND SEX\*  
As Of: 31 December 1972

Age	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 15	2	-	5	1	35	4	42	5
15 - 19	1,249	17	5,592	285	24,700	2,546	31,541	2,848
20 - 24	5,362	55	33,916	1,083	51,718	3,948	90,996	5,086
25 - 29	12,937	81	62,327	898	46,347	5,189	121,611	6,168
30 - 34	17,496	72	46,293	777	42,434	4,308	106,223	5,157
35 - 39	12,322	36	43,200	691	38,804	3,281	94,326	4,008
40 - 44	8,303	29	34,018	596	45,265	2,985	87,586	3,610
45 - 49	6,713	26	24,669	541	43,285	2,456	74,667	3,023
50 - 54	7,755	21	23,020	447	28,656	1,443	59,431	1,911
55 - 59	2,869	8	9,132	196	15,643	699	27,644	903
60 - 64	634	2	3,216	83	6,975	234	10,825	319
65 - 69	109	1	1,123	30	2,626	75	3,858	106
70 - 74	20	-	303	9	816	27	1,139	36
75 - 79	1	-	59	-	261	5	321	5
80 - 84	-	-	9	-	31	1	40	1
85 and over	-	-	1	-	5	-	6	-
TOTAL	75,772	348	286,883	5,637	347,601	27,201	710,256	33,186

\*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: 31 December 1972



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

Table IV. I  
 AGE DISTRIBUTION OF AIRLINE PILOTS\*  
 As Of: 31 December 1972

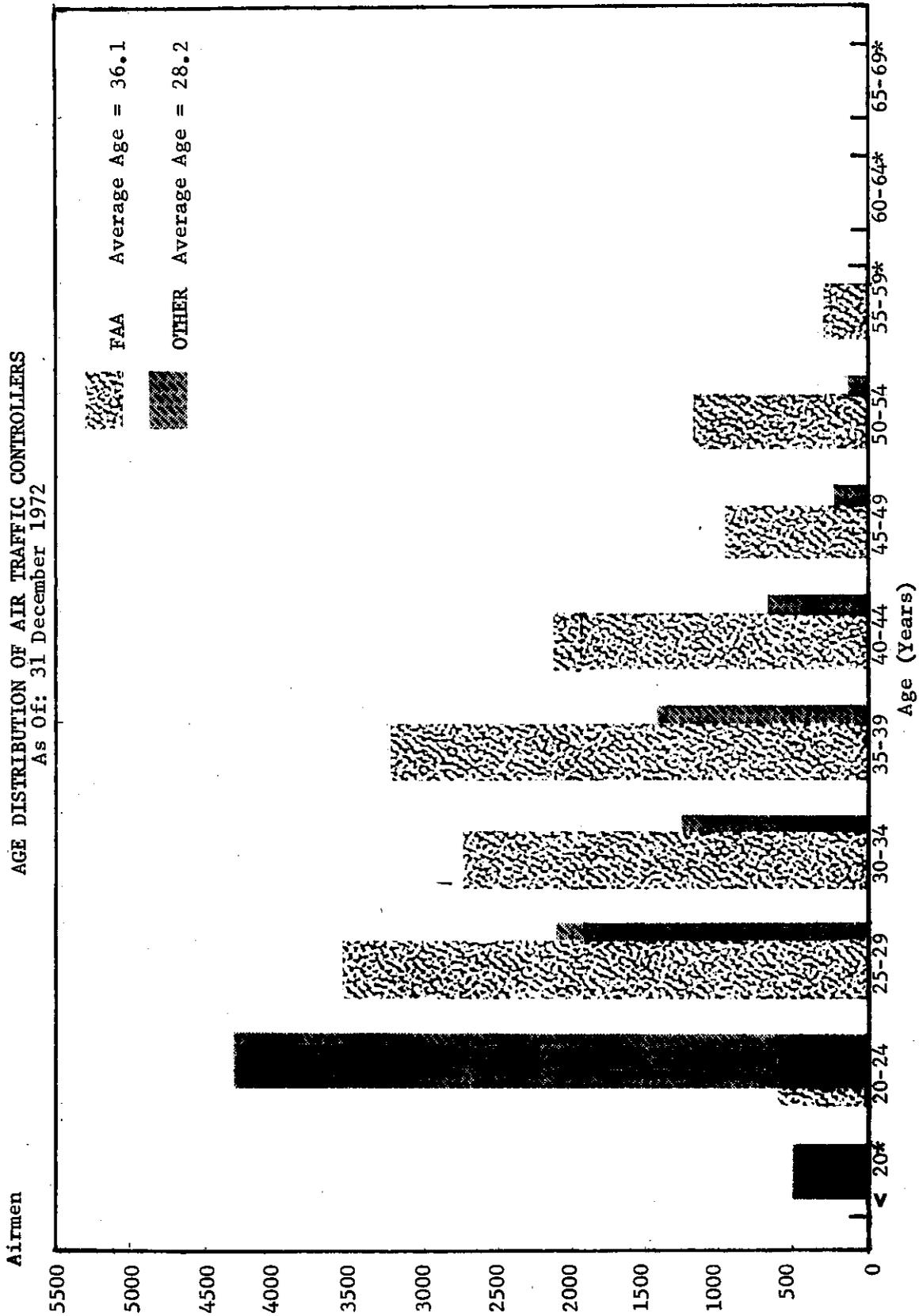
Age Groups (1)	Airline Pilots (2)	Certified First Class Airmen** (3)	Percent of Total	
			Airline Pilots (4)	Certified First Class Airmen (5)
20 - 24	318	5,417	0.9	7.2
25 - 29	2,690	13,018	7.9	17.4
30 - 34	8,150	17,568	23.9	23.5
35 - 39	7,737	12,358	22.7	16.5
40 - 44	5,059	8,332	14.9	11.1
45 - 49	3,763	6,739	11.0	9.0
50 - 54	4,540	7,776	13.3	10.4
55 - 59	1,670	2,877	4.9	3.8
60 - 64	151	636	0.5	0.9
65 - 69	7	110	0.0†	0.2
TOTAL	34,085	74,831	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: 31 December 1972



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

Table IV.K

AGE DISTRIBUTION OF AIR TRAFFIC CONTROLLERS\*  
As Of: 31 December 1972

Age	FAA ATC'S	Other ATC'S
Less than 20	20	507
20 - 24	613	4,315
25 - 29	3,579	2,159
30 - 34	2,732	1,263
35 - 39	3,272	1,403
40 - 44	2,182	628
45 - 49	974	207
50 - 54	1,181	137
55 - 59	288	46
60 - 64	42	4
65 - 69	3	1
Over 69	-	-
<b>TOTAL</b>	<b>14,886</b>	<b>10,670</b>
Percent of all Certified Second Class Airmen	5.1	3.6

\*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: 31 December 1972

Height In Inches	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 59	147	1	579	57	606	214	1,332	272
59	61	2	268	20	213	103	542	125
60	118	13	514	136	607	725	1,239	874
61	44	8	226	164	401	948	671	1,120
62	55	33	257	516	585	2,691	897	3,240
63	74	31	435	625	960	3,026	1,469	3,682
64	237	45	1,500	826	2,559	4,381	4,296	5,252
65	559	47	3,168	864	5,095	4,012	8,822	4,923
66	1,672	65	9,197	876	12,772	4,175	23,641	5,116
67	3,802	38	16,001	609	20,436	2,972	40,239	3,619
68	7,623	39	29,372	463	36,107	2,055	73,102	2,557
69	8,991	12	33,230	256	39,027	992	81,248	1,260
70	12,013	6	43,837	121	52,728	466	108,578	593
71	11,351	3	43,175	50	53,422	186	107,948	239
72	13,864	4	50,232	29	57,144	114	121,240	147
73	6,224	-	23,078	13	27,456	39	56,758	52
74	5,125	-	17,686	4	20,225	40	43,036	44
75	2,295	-	7,963	2	9,305	13	19,563	15
Over 75	1,517	1	6,165	6	7,953	49	15,635	56
TOTAL	75,772	348	286,883	5,637	347,601	27,201	710,256	33,186

\*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: 31 December 1972

Weight In Pounds	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 90	36	-	105	9	168	71	309	80
90 - 99	5	6	9	53	69	381	83	440
100 - 109	37	30	81	405	354	2,133	472	2,568
110 - 119	142	78	462	958	1,410	5,224	2,014	6,260
120 - 129	528	78	2,211	1,479	4,731	6,892	7,470	8,449
130 - 139	1,754	70	7,622	1,215	13,229	5,522	22,605	6,807
140 - 149	4,411	38	18,139	718	25,368	3,100	47,918	3,856
150 - 159	9,084	20	33,706	355	41,143	1,669	83,933	2,044
160 - 169	13,357	14	46,770	199	53,887	989	114,014	1,202
170 - 179	14,906	7	52,432	94	58,498	518	125,836	619
180 - 189	12,998	6	47,950	69	52,028	305	112,976	380
190 - 199	8,425	-	33,286	33	36,844	169	78,555	202
200 - 209	4,761	1	19,797	19	23,638	86	48,196	106
210 - 219	2,765	-	11,410	12	15,346	55	29,521	67
220 - 229	1,373	-	6,435	8	9,208	22	17,016	30
230 - 239	637	-	3,118	5	5,205	28	8,960	33
240 - 249	292	-	1,631	2	2,786	16	4,709	18
Over 249	261	-	1,719	4	3,689	21	5,669	25
<b>TOTAL</b>	<b>75,772</b>	<b>348</b>	<b>286,883</b>	<b>5,637</b>	<b>347,601</b>	<b>27,201</b>	<b>710,256</b>	<b>33,186</b>

\*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: 31 December 1972

Class Issued	Type of Flying**			
	Business	Percent	Pleasure	Percent
First	61,405	( 8.3)	14,715	( 2.0)
Second	94,777	(12.7)	197,743	(26.6)
Third	46,494	( 6.3)	328,308	(44.1)
TOTAL	202,676	(27.3)	540,766	(72.7)

\*Totals are based on active airmen certified within the past 25 months. Basis for percentage computations is also total active certified airmen (743,442).

\*\*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: 31 December 1972

Occupation Code	First Class		Second Class		Third Class		Total	
	Male	Female %	Male	Female %	Male	Female	Male	Female
1 - Pilot (Scheduled or Non-Scheduled Airline)	36,845	10 (48.4)	124	- (0.0)	26	1	36,995	11
2 - Flight Engineer	1,343	1 ( 1.8)	2,778	- (1.0)	8	-	4,129	1
3 - Flight Navigator/Flight Radio Operator	26	- ( 0.0)	253	- (0.1)	6	-	285	-
4 - Business or Executive Pilot	11,270	46 (14.9)	126	2 (0.0)	8	-	11,404	48
5 - Commercial Pilot (Self Employed)	20	- ( 0.0)	3,333	76 (1.2)	13	-	3,366	76
6 - Commercial Pilot (Not Self Employed)	73	- ( 0.1)	10,594	62 (3.6)	26	2	10,693	64
7 - Aero Application (Agriculture)	77	- ( 0.1)	2,450	2 (0.9)	13	-	2,540	2
8 - Air Traffic Controller	352	2 ( 0.5)	35,382	969 (12.4)	167	3	35,901	974
9 - Flight Instructor	2,633	59 ( 3.5)	3,891	234 (1.4)	7	-	6,531	293
0 - Aircraft Mechanic and Fixed Base Operators	395	1 ( 0.5)	3,009	3 (1.0)	1,714	57	5,118	61
X - Not Given or Non-Aeronautical Occupation	22,738	229 (30.2)	224,943	4,289(78.4)	345,613	27,138	593,294	31,656
<b>TOTAL</b>	<b>75,772</b>	<b>348 (100.0)</b>	<b>286,883</b>	<b>5,637(100.0)</b>	<b>347,601</b>	<b>27,201</b>	<b>710,256</b>	<b>33,186</b>

\*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.

Table IV.P

EMPLOYERS OF ACTIVE AIRMEN BY  
CLASS OF CERTIFICATE ISSUED\*  
As Of: 31 December 1972

Employer	First Class	Second Class	Third Class	Total	Major Percents Of Total
Airlift International	152	37	1	190	
Airwest	402	17	8	427	
Alaska Airlines	151	19	4	174	
Allegheny Airlines (Merge-Mohawk)	969	42	19	1,030	
Aloha Airlines	53	6	1	60	
American Airlines	3,320	711	37	4,068	
American Flyers Airlines Corp.	4	7	1	12	
Braniff Airways	1,117	22	9	1,148	
Capitol International Airways	78	75	3	156	
Caribbean Atlantic Airlines	1	-	-	1	
Chicago Helicopter Airways	3	-	-	3	
Continental Air Lines	1,015	66	11	1,092	
Delta Air Lines	2,422	69	19	2,510	
Eastern Airlines	3,689	226	31	3,946	
Flying Tiger Line	374	94	7	475	
Frontier Airlines	429	21	3	453	
Hawaiian Airlines	105	1	1	107	
Los Angeles Airways	1	1	-	2	
Modern Air Transport	34	16	-	50	
National Airlines	602	254	8	864	
New York Airways	15	5	-	20	
North Central Airlines	409	15	4	428	
Northeast Airlines	234	10	4	248	
Northwest Airlines	1,535	40	14	1,589	
Overseas National Airways	162	89	-	251	
Ozark Air Lines	317	22	4	343	
Pacific Airlines	1	-	-	1	
Pan American World Airways	2,647	533	22	3,202	
Piedmont Aviation	365	23	8	396	
Reeve Aleutian Airways	2	3	-	5	
San Francisco & Oakland Helicopter	2	2	-	4	
Saturn Airways	159	86	1	246	
Seaboard World Airlines	167	72	2	241	
Southern Air Transport	7	6	-	13	
Southern Airways	311	165	8	484	
Trans Caribbean Airways	2	-	-	2	
Trans International Airlines	97	49	-	146	
Texas International Airlines	264	28	5	297	
Trans World Airlines	3,487	508	55	4,050	
United Airlines	5,296	549	50	5,895	
Universal Airlines	66	43	2	111	
West Coast Airlines	1	-	-	1	
Western Air Lines	1,015	145	12	1,172	
Western Alaska Airlines	1	2	1	4	
Wien Consolidated Airlines	67	13	4	84	
World Airways	181	39	-	220	
SUBTOTAL ALL AIRLINES				36,221	4.9

EMPLOYERS OF ACTIVE AIRMEN BY  
CLASS OF CERTIFICATE ISSUED\*  
As Of: 31 December 1972

Employer	First Class	Second Class	Third Class	Total	Major Percents Of Total
Federal Aviation Administration Government, other than military or FAA, includes state and local government	1,615	18,537	663	20,815	2.8
Aircraft Industry	510	1,131	40	1,681	0.2
Industry, other than aircraft Fixed Base Operation (flying schools, etc.)	546	805	143	1,494	0.2
Self Employed	6,232	3,705	105	10,042	1.4
Other	2,912	6,803	521	10,236	1.4
Not Applicable	1,936	5,149	204	7,289	1.0
	7,918	4,904	324	13,146	1.8
	21,145	193,147	371,459	585,751	78.7
Air Force	938	30,824	406	32,168	4.3
Army	149	10,109	81	10,339	1.4
Coast Guard	20	218	2	240	0.0
Marines and Navy	398	12,745	93	13,236	1.8
National Aeronautics and Space Administration	70	312	402	784	0.1
SUBTOTAL ALL OTHERS				707,221	95.1
TOTAL	76,120	292,520	374,802	743,442	100.0
	(10.24%)	(39.35%)	(50.41%)		

\*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.

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 31 December 1972 by class of medical certificate issued.

FREQUENCY OF SELECTED PRELIMINARY ECG DIAGNOSIS CODES  
 AMONG FIRST CLASS AIRMAN APPLICANTS\*  
 As Of: 31 December 1972

ECG Code	Issued	Pending Or Denied
<b>DISTURBANCE IN RHYTHM</b>		
4 - Supraventricular Tachycardia	7	-
5 - Paroxysmal Atrial Tachycardia	5	2
7 - Atrial Fibrillation	15	5
8 - Paroxysmal Atrial Tachycardia with Block	-	-
10 - Nodal Tachycardia, Nodal Rhythm	91	3
<b>DISTURBANCE IN CONDUCTION</b>		
35 - Complete Heart Block	7	-
<b>OTHER CONDUCTION DEFECTS</b>		
48 - Complete Right Bundle Branch Block	558	26
49 - Complete Right Bundle Branch Block with Infarction	4	1
50 - Incomplete Left Bundle Branch Block	29	5
51 - Complete Left Bundle Branch Block	54 <sup>55</sup>	15
52 - Complete Left Bundle Branch Block with Infarction	1 <sup>2</sup>	2
53 - Intraventricular Conduction Beat	489	3
54 - Wolff-Parkinson-White Syndrome	96	12
<b>CHANGES IN SIZE OF HEART CHAMBERS</b>		
68 - Left Ventricular Hypertrophy with or without Strain	155	7
69 - Right Ventricular Hypertrophy with or without Strain	15	1
71 - Right Ventricular Hypertrophy with Right Bundle Branch Block	3	-
72 - Left Ventricular Hypertrophy with Left Bundle Branch Block	1	-
<b>T WAVE CHANGES</b>		
110 - Isoelectric or Inverted T in any or all of Leads V <sub>3</sub> , V <sub>4</sub> , V <sub>5</sub> , V <sub>6</sub>	83	7
116 - Miscellaneous Primary T Wave Changes**	856	39
<b>ST CHANGES</b>		
127 - A Decrease of 0.5 mm or more in any Lead	145	6
<b>MYOCARDIAL INFARCTION</b>		
138 - Diaphragmatic	12	-
139 - Anterior	11	2
140 - Anterolateral	12	6
141 - Anteroseptal	38	2
142 - Post Posterior	9	-
144 - Acute	8	3
145 - Old	131	15
147 - Subendocardial	2	-
149 - Anterolateral Peri-infarction Block - initial vector inferior, terminal leftward	1	-
150 - Diaphragmatic Peri-infarction Block - initial vector leftward, terminal vector inferior	1	-
<b>MASTER'S TEST</b>		
162 - Positive	40	54
164 - Borderline	38	5
<b>MISCELLANEOUS</b>		
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.

\*\*Prior to 5 June 1970 all Miscellaneous T Wave Changes were code 116. After 5 June 1970 the 116 code identifies Miscellaneous Primary T Wave Changes and a code 117 identifies Non-Specific T Wave Changes.

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

Table V.B

ACTIVE AIRMEN BY NUMBER OF RESTRICTIONS  
 CARRIED, CLASS AND SEX\*  
 As Of: 31 December 1972

Number Of Restrictions	First Class		Sub- Total		Second Class		Sub- Total		Third Class		Sub- Total		Total Airmen		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Total
1	20,299	119	20,418	100,477	2,555	103,032	137,386	11,277	148,663	258,162	13,951	272,113			
2	255	-	255	3,407	73	3,480	6,365	166	6,531	10,027	239	10,266			
3	19	-	19	150	1	151	265	6	271	434	7	441			
4	-	-	-	11	-	11	8	1	9	19	1	20			
More Than 4	-	-	-	1	-	1	-	-	-	1	-	1			

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

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

Table V.C

FREQUENCY OF RESTRICTIONS AMONG  
ACTIVE AIRMEN BY CLASS AND SEX\*  
As Of: 31 December 1972

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	7,917	22	20,380	371	27,770	1,479	56,067	1,872
Must Wear Glasses For Distant Vision While Flying	11,786	80	76,700	1,904	101,842	8,180	190,328	10,164
Must Wear Glasses for Near and Distant Vision While Flying	4	-	8	-	10	-	22	-
Must Wear Prismatic Correction While Flying	3	-	38	-	19	2	60	2
May Wear Contact Lenses While Flying	148	5	719	48	843	205	1,710	258
May Wear Contact Lenses While Flying; Glasses Must Be Available	409	12	2,662	249	4,528	1,326	7,599	1,587
Must Wear Hearing Aid While Flying	11	-	106	2	215	8	332	10
Must Wear Artificial Limb While Flying	13	-	75	1	214	5	302	6
Oxygen Required When Flying Above 7,999 Feet	-	-	7	-	14	-	21	-
Passenger Carrying Prohibited	1	-	3	-	6	-	10	-
Not Valid For Pilot In Command	4	-	5	-	7	-	16	-
Not Valid For Control Tower Operator Duties	33	-	199	3	99	3	331	6
Not Valid For Air Transport Duties	7	-	4	-	5	-	16	-
Flying Jet Aircraft Prohibited	-	-	1	-	-	-	1	-

Table V.C (Continued)  
 FREQUENCY OF RESTRICTIONS AMONG  
 ACTIVE AIRMEN BY CLASS AND SEX\*  
 As Of: 31 December 1972

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Not Valid For Night Flying Or By Color Signal Control (Color Vision)	59	-	1,789	4	8,214	33	10,062	37
Not Valid For Night Flying (Glaucoma)	1	-	17	-	23	-	41	-
Not Valid For Flying Where Radio Use Is Required	1	-	6	1	57	3	64	4
Flying Limited To Remote Areas	-	-	1	-	1	-	2	-
Valid For Flight Test Only	4	-	20	-	13	-	37	-
Second Class Privileges Limited To Crop Dusting	-	-	3	-	1	-	4	-
Second Class Privileges Limited To Flight Engineer Duties	3	-	30	-	-	-	33	-
Second Class Privileges Limited To Flight Navigator Duties	-	-	10	-	2	-	12	-
Second Class Privileges Limited To Control Tower Operator Duties	3	-	11	1	4	-	18	1
Valid For ATC Duties Only	1	-	2,099	57	8	-	2,108	57
Limited To Military Controller Duties	-	-	185	11	4	-	189	11
Valid For Control Tower Duties When Second Controller On Duty	-	-	-	-	3	-	3	-
Valid Only When Accompanied By Another Qualified Pilot	-	-	4	-	4	-	8	-

Table V.C (Continued)

FREQUENCY OF RESTRICTIONS AMONG  
ACTIVE AIRMEN BY CLASS AND SEX\*  
As Of: 31 December 1972

Restriction	First Class		Second Class		Third Class		Active Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Valid For Student Pilot Purposes Only	4	-	109	1	2,954	179	3,067	180
Second Class Privileges Limited To Cargo Operations	-	-	1	-	-	-	1	-
Issued on Basis of Demonstrated Medical Fitness	-	-	-	-	1	-	1	-
Time Limitation Restrictions	315	-	1,863	32	3,127	180	5,305	212
Panel Restrictions	24	-	126	1	455	2	605	3
Miscellaneous Restrictions	115	-	607	18	502	25	1,224	43
<b>TOTAL</b>	<b>20,866</b>	<b>119</b>	<b>107,788</b>	<b>2,704</b>	<b>150,945</b>	<b>11,630</b>	<b>279,599</b>	<b>14,453</b>

\*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: 31 December 1972

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	512	(0.7)	-	(0.0)
Second	3,918	(1.4)	5	(0.1)
Third	9,942	(2.9)	38	(0.1)
TOTAL	14,372	(2.0)	43	(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, 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: 31 December 1972

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	2,902	(3.8)	21	( 6.0)
Second	21,003	(7.3)	639	(11.3)
Third	10,351	(3.0)	657	( 2.4)
TOTAL	34,256	(4.8)	1,317	( 4.0)

\*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: 31 December 1972

Waiver Cause Code	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
A - External Eye Problem	38	-	251	6	174	12	463	18
B - Internal Eye Problem	24	-	75	-	116	4	215	4
C - Glaucoma	-	-	5	-	1	-	6	-
D - Deficient Distant Vision	1,139	10	12,497	411	2,613	91	16,249	512
E - Deficient Near Vision	1	-	17	-	9	1	27	1
F - Deficient Color Vision	453	-	2,129	1	1,728	5	4,310	6
G - Contact Lenses	353	7	1,846	129	2,270	438	4,469	574
H - Field of Vision (Visual Field Deficiency)	2	-	8	1	11	-	21	1
I - Deficient Hearing	330	1	1,074	8	333	9	1,737	18
J - Ear	1	-	3	-	-	-	4	-
K - Nose	-	-	-	-	-	-	-	-
L - Throat	-	-	1	-	1	-	2	-
M - Mute	-	-	-	-	4	-	4	-
N - Respiratory System	-	-	3	-	3	-	6	-
O - Heart Disease, General	-	-	5	-	1	-	6	-
P - Heart Disease, Valvular	-	-	1	-	-	-	1	-
Q - Heart Disease, Vascular	-	-	1	-	-	-	1	-
R - Heart Disease, Arrhythmia	-	-	-	-	-	-	-	-
S - Electrocardiogram Abnormality	-	-	1	-	-	-	1	-

Table V.F (Continued)

FREQUENCY OF WAIVER CAUSE CODES  
 BY CLASS OF MEDICAL CERTIFICATE ISSUED\*  
 As Of: 31 December 1972

Waiver Cause Code	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
T - Abdominal	-	-	-	-	-	-	-	-
U - Neurological	4	-	16	-	59	3	79	3
V - Mental and Nervous	-	-	2	-	1	-	3	-
W - Bone and Joint	14	-	67	2	132	3	213	5
X - Muscles	10	-	57	-	141	2	208	2
Y - Miscellaneous Conditions	21	-	87	-	204	2	312	2
Z - Malignancy	-	-	2	-	2	-	4	-
1 - Amputation	19	-	100	2	214	2	333	4
TOTAL	2,409	18	18,248	560	8,017	572	28,674	1,150

\*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.

