

1971

AEROMEDICAL CERTIFICATION STATISTICAL HANDBOOK



DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
CIVIL AEROMEDICAL INSTITUTE
AEROMEDICAL CERTIFICATION BRANCH
Medical Statistical Section

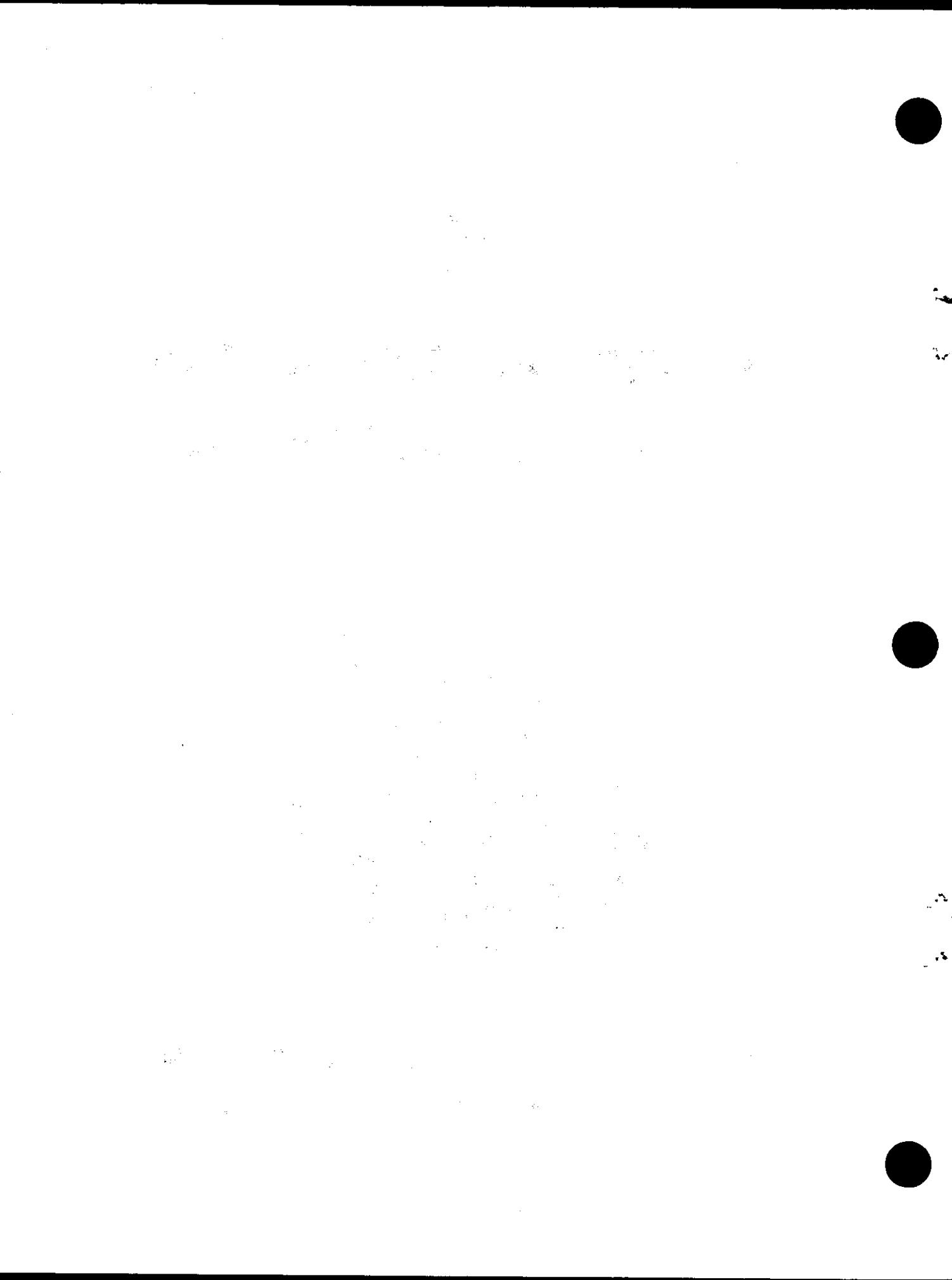


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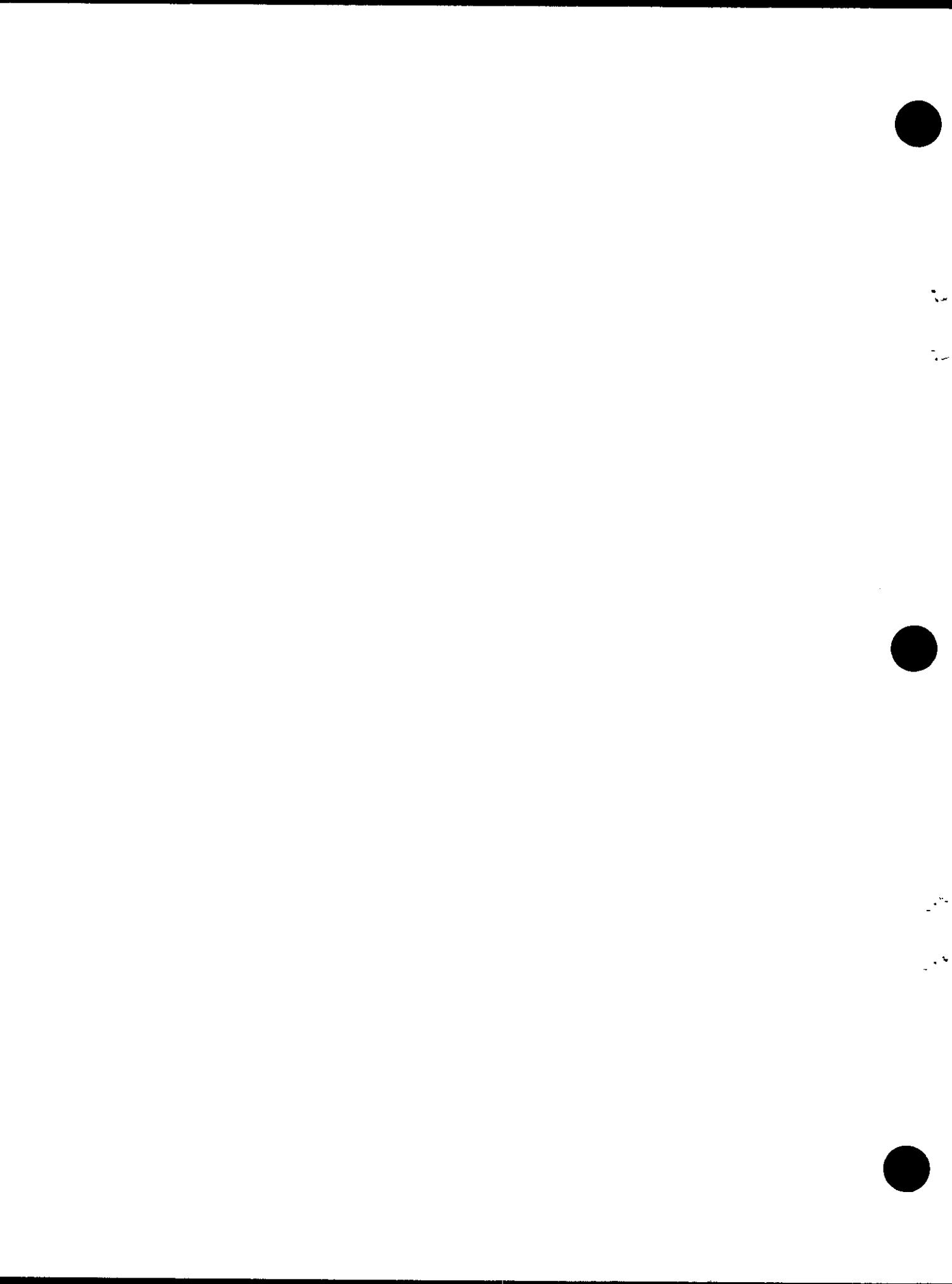
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SYMBOLS

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 1971, 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
1969-1971

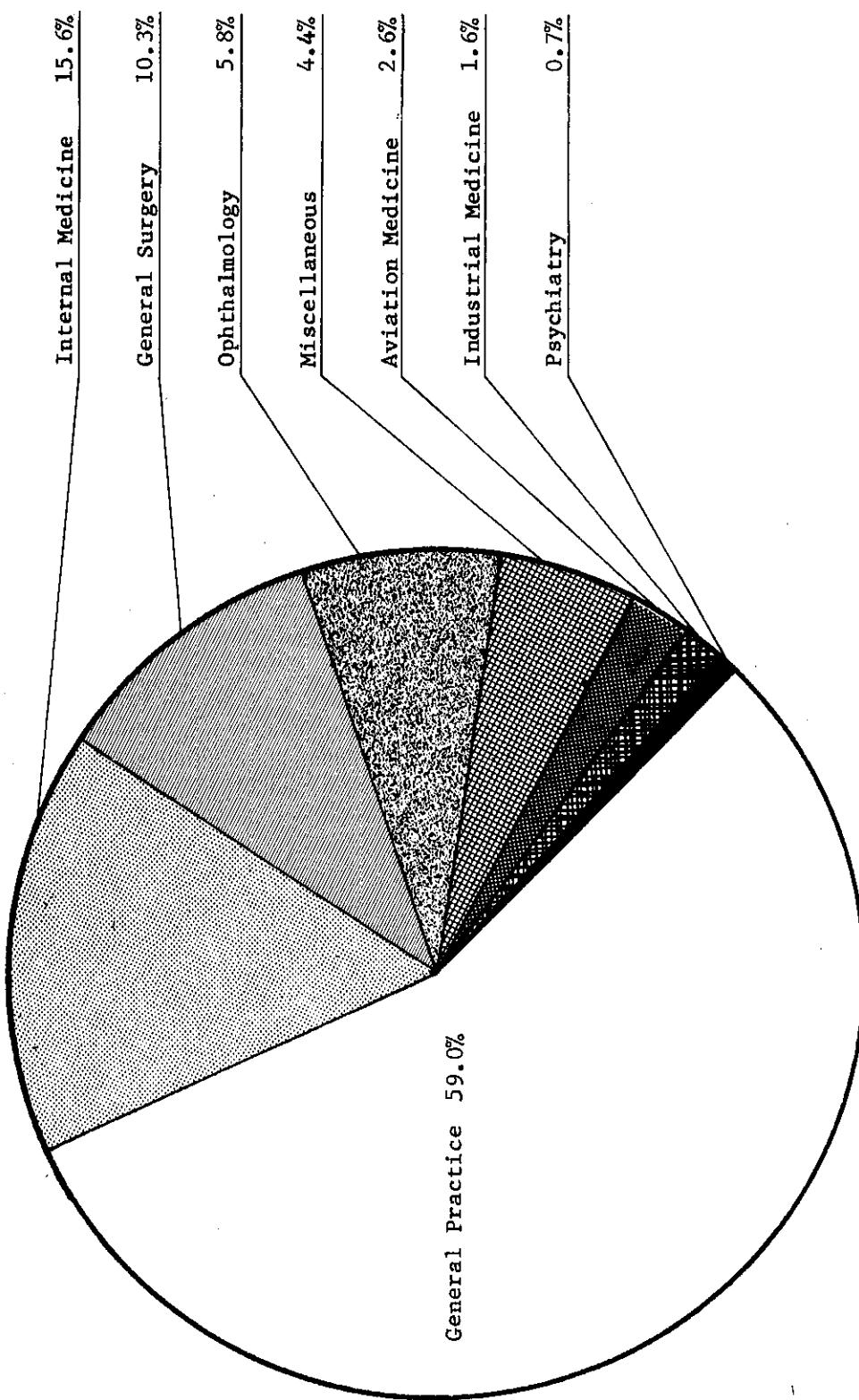
Region	Aviation Medical Examiners		
	1971	1970	1969
Eastern	885	1,440	1,436
Central	590	1,633	1,545
Southern	1,005	881	874
Southwest	850	812	775
Western	974	1,536	1,495
Rocky Mountain*	418	-	-
Northwest*	370	-	-
New England*	199	-	-
Great Lakes*	1,146	-	-
Alaskan	81	68	62
Pacific	47	45	44
SUBTOTAL	6,565	6,415	6,231
Military**	629	670	689
International	292	285	273
TOTAL	7,486	7,370	7,193

*New regions were established on 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*
1971



*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*

1971

<u>Region</u>	<u>Active U.S. Civil Airman Population**</u>	<u>U.S. Non- Military AME Population***</u>	<u>Ratio AME's To Airmen</u>
Eastern	89,231	885	1:101
Central	42,576	590	1:72
Southern	86,547	1,005	1:86
Southwest	73,505	850	1:86
Western	106,928	974	1:110
Rocky Mountain	28,143	418	1:67
Northwest	29,811	370	1:81
New England	26,681	199	1:134
Great Lakes	122,857	1,146	1:107
Alaskan	6,503	81	1:80
Pacific	2,158	47	1:46
TOTAL	614,940	6,565	1:94

*New regions were established on AME automatic data processing system effective 15 September 1971 and on the Medical Certification automatic data processing system 1 July 1971.

**Active U. S. Civil Airman Population figures are as of 31 December 1971; 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 1972; 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
1971**

Date	Location	Attendance
March 15-17	Washington, D. C.	158
April 5-7	Newport Beach, California	187
May 12-14	Chicago, Illinois	197
June 13-18*	Oklahoma City, Oklahoma	43
July 14-16	San Francisco, California	153
August 11-13	Kansas City, Missouri	83
September 12-17*	Oklahoma City, Oklahoma	46
October 27-29	Washington, D. C.	223
November 7-12*	Oklahoma City, Oklahoma	54
December 6-8	Dallas, Texas	377
TOTAL		1,521

*Denotes the five day AME Flight Surgeon Seminars 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
1960-1971

<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
TOTAL	118	12,928

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

Table I.F

ACTIVE AVIATION MEDICAL EXAMINERS
SEMINAR ATTENDANCE BY REGION*
1971

<u>Region</u>	<u>Total AME's</u>	<u>One Seminar</u>	<u>More Than One Seminar</u>	<u>No Participation At Seminars</u>
Eastern	885	293	465	127
Central	590	202	280	108
Southern	1,005	338	456	211
Southwest	850	322	441	87
Western	975	324	488	163
Rocky Mountain	417	144	219	54
Northwest	370	97	229	44
New England	199	61	102	36
Great Lakes	1,146	424	553	169
Alaskan	81	27	28	26
Pacific	47	21	18	8
International	292	61	7	224
TOTAL	6,857	2,314	3,286	1,257

*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*

<u>Region</u>	<u>Number of AME's Designated 1970</u>	<u>New Designations</u>	<u>Separations</u>	<u>Net Gain or Loss</u>	<u>Number of AME's Designated 1971</u>
Eastern	1,440	68	110	-42	885
Central	1,633	101	68	33	590
Southern	881	77	31	46	1,005
Southwest	812	91	52	39	850
Western	1,536	102	68	34	974
Rocky Mountain		18	13	5	418
Northwest		12	7	5	370
New England		14	8	6	199
Great Lakes		18	9	9	1,146
Alaskan	68	17	4	13	81
Pacific	45	9	7	2	47
International	285	22	15	7	292
TOTAL	6,700	549	392	157	6,857

*Figures are based on U. S. and international aviation medical examiners; does not include military installations. The change in geographical boundaries associated with the establishment of new regions during 1971 involved the reassignment of some AMEs to the new regions.

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

Table I.H

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**AVIATION MEDICAL EXAMINER SUMMARY DATA
1971**

A.	Number of Designated U. S. Non-Military Aviation Medical Examiners	6,565
B.	Number of Designated International Aviation Medical Examiners	292
C.	Number of Designated Military Aviation Medical Examiners (Installations)	629
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	46%*
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	76%*
H.	Percentage of Non-Military Aviation Medical Examiners Who Have Attended One Seminar	34%*
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	18%*
K.	Total Number of Seminars Conducted in 1971	10
L.	Total Attendance of Aviation Medical Examiners at Seminars Conducted in 1971	1,521

*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

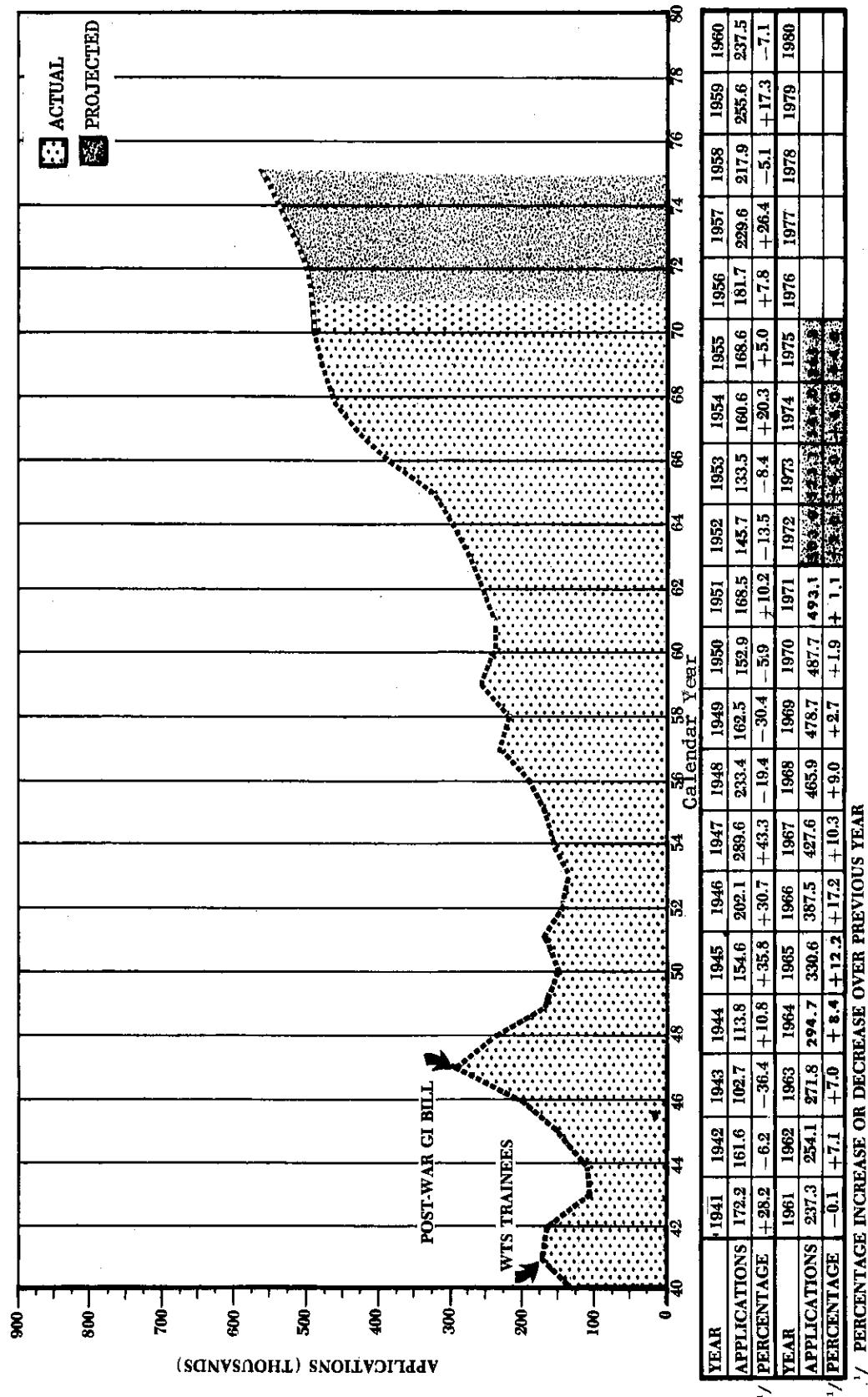
CERTIFICATION ACTIVITY

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
1940-1971 (Projected to 1975)



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

Table II.B

RECEIPTS OF MEDICAL CERTIFICATE
APPLICATIONS BY CLASS*
1960-1971

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

*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 1971 were based on percentages compiled from the Record of Physical Examinations Computer Submission Summary (RIS: AC 8500-3).

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

Table II.C

MEDICAL APPLICATIONS PROCESSING BY THE
AEROMEDICAL CERTIFICATION BRNACH
1971

Month	Applications Received	Applications Coded For Computer Screening	Applications Screened By Computer*	Applications Requiring Manual Review	Applications Intra-Agency Transmitted**
January	32,370	34,870	38,472	13,607	171
February	35,575	30,875	33,272	12,476	159
March	44,900	43,600	45,288	16,831	204
April	43,200	38,400	40,557	15,642	214
May	41,100	47,200	43,403	16,756	183
June	50,000	46,500	46,704	17,488	191
SUBTOTAL	247,145	241,445	247,696	92,800	1,122
July	44,600	47,500	50,613	18,608	173
August	45,400	46,100	48,640	17,776	222
September	44,400	43,200	44,598	18,088	193
October	38,600	38,300	48,079	17,844	176
November	39,600	42,600	44,856	15,943	164
December	33,400	35,800	36,812	13,928	174
SUBTOTAL	246,000	253,500	273,598	102,187	1,102
TOTAL	493,145	494,945	521,294	194,987	2,224

*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 on tape.

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

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
1971

<u>Activity</u>	<u>Frequency</u>
<u>Certification</u>	
Issued, Corrected or Duplicate Certificates	4,820
Eligibility Letters	24,157
Issued or Duplicate Waivers	7,917
<u>Further Action Necessary</u>	
Information Requested	31,962
Medical Flight Test Authorization	2,471
Case Summary for the Federal Air Surgeon	463
<u>Information Requested From The Branch</u>	
Telegram Replies to Airmen/Agency Offices	234
Replies to Insurance Companies	2,014
<u>Denial Letters</u>	
Mandatory Denials	545
Other Denials	3,548
<u>Miscellaneous Correspondence*</u>	17,357

*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 III.E

AEROMEDICAL CERTIFICATION BRANCH COMPUTER TAPE FILE SUMMARY
As Of: 31 December 1971

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	43,288	21,409	13,242	77,939	8,385	N/A	86,324
Second Class	101,243	94,232	93,701	288,976	46,140	N/A	335,116
Third Class	1,233	85,079	177,402	373,720	101,533	N/A	475,253
SUBTOTAL	255,770	200,720	284,145	740,635	156,058	N/A	896,693
<u>Non-Certified</u>							
Pending	634	115	193	942	42	N/A	984
Denied	2,268	2,055	4,848	9,171	4,991	N/A	14,162
SUBTOTAL	2,902	2,170	5,041	10,113	5,033	N/A	15,146
Link*	N/A	N/A	N/A	N/A	N/A	143,751	143,751
TOTAL	258,672	202,890	289,186	750,748	161,091	143,751	1,055,590
EFFECTIVE STATUS TOTAL:	<u>CLASS 1</u> = 43,288	<u>CLASS 2</u> = 216,884	<u>CLASS 3</u> = 480,463				

*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.

Table II.F

**MEDICAL CERTIFICATION ACTIVITY SUMMARY
1969-1971**

<u>Activity</u>	CY 1971	CY 1970	CY 1969
Applications for Medical Certification	493,145	487,700	478,700
New Applications for First Class Medical Certificates*	---	2,672	3,909
New Applications for Second Class Medical Certificates*	---	26,046	22,628
New Applications for Third Class Medical Certificates*	---	68,941	72,333
First Class Combined Student/Medical Certificates	4,490	6,115	7,758
Second Class Combined Student/Medical Certificates	27,829	30,249	31,499
Third Class Combined Student/Medical Certificates	198,582	196,793	207,652
Electrocardiograms Received for First Class Pilots	27,180	26,770	22,763
Incoming Correspondence**	70,553	76,770	70,541
Outgoing Correspondence	95,488	79,345	72,215
Applications Containing Medical or Clerical Problems	194,987	190,836	183,405
Number of Abnormalities Detected in Electrocardiograms***	2,653	3,443	6,084
Number of First Class Active Airmen with Pathology Records	12,622	12,484	11,203
Number of Second Class Active Airmen with Pathology Records	49,435	46,607	42,937
Number of Third Class Active Airmen with Pathology Records	54,600	55,193	55,048

*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 1970, 2,340 or 2.4% new applications were denied, 131 or 0.1% were pending, and 95,188 or 97.5% were issued for a total of 97,659 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
1969-1971

**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.

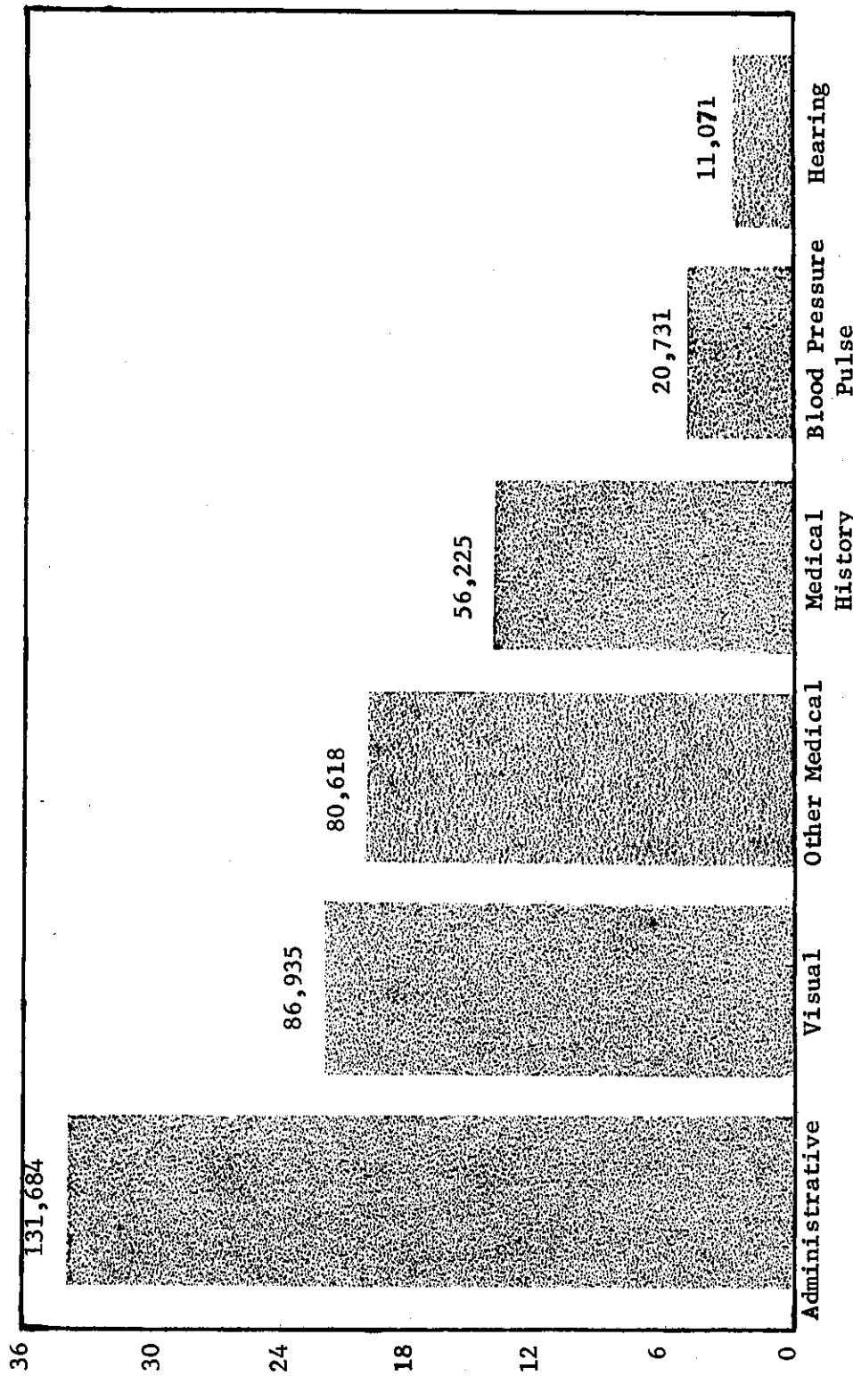
SECTION III

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.B
COMPUTER REJECT PATTERN
1971



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

Table III.B
COMPUTER REJECT PATTERN
1971

Reject	Major Category		Minor Categories	
	Totals	Percent		Percent
<u>Administrative</u>	131,684	34.00		
First Class by Military			135	.03
Matches Link Record			4,998	1.29
Special Case			913	.24
Previous Pending			3,157	.81
Clerical Reject			7,093	1.83
Class Issued Higher Than Applied For			1,547	.40
First Class Over 60 Years of Age			494	.13
Coded Previous Waiver			10,662	2.75
Re-Submit Exam to Computer			5,452	1.41
Date of ECG for First Class Exams			4,892	1.26
State Code/Zip Code			12,780	3.30
Date of Examination			1,970	.51
No Match Between New and Previous Exams			18,648	4.82
Follow-Up Material Requested			1,943	.50
Discrepancy in Pathology Data			11,746	3.03
Other*			45,254	11.69
<u>Visual</u>	86,935	22.45		
Distant Vision			29,211	7.54
Near Vision			19,409	5.01
Intraocular Tension			5,216	1.35
Field of Vision			4,597	1.19
Color Vision			6,850	1.77
Variation in Distant Vision			12,513	3.23
Esophoria and Exophoria			7,746	2.00
Right or Left Hyperphoria			1,393	.36
<u>Other Medical Conditions</u>	80,618	20.82		
Denied or Pending			14,357	3.71
Urinalysis			6,520	1.68
Pathology Codes			18,225	4.71
Abnormalities			13,227	3.42
Medication			28,289	7.30
<u>Medical History</u>	56,225	14.52		
Previous Denial Indicated			7,628	1.97
Medical History			46,644	12.04
Previous Exam on Tape Denied			1,390	.36
Previous Exemption Case			411	.11
New Exemption Case			152	.04
<u>Blood Pressure/Pulse</u>	20,731	5.35		
Blood Pressure			5,322	1.37
Pulse			15,409	3.98
<u>Hearing</u>	11,071	2.86		
Hearing			11,071	2.86
TOTAL REJECT CARDS	387,264	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
1961-1971**

<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
TOTAL	1,569	4,295	5,864

*Incomplete figures for January through March 1961.

**Figures for 1967-1971 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*
1971

<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	1	11	1	16
Ear, Nose, Throat	1	-	-	-	1
Respiratory	1	-	1	-	2
Cardiovascular	9	9	27	2	47
Abdominal	1	3	5	1	10
Neurologic	4	4	15	1	24
Psychiatric	4	3	16	1	48
Bone/Joint	-	-	4	-	4
Muscles	-	-	-	-	-
Miscellaneous	1	3	8	-	12
TOTAL ISSUANCES	24	23	87	6	140
<u>Denied</u>					
Eye	1	2	27	-	30
Ear, Nose, Throat	-	-	-	-	-
Respiratory	-	1	10	-	11
Cardiovascular	24	52	79	2	157
Abdominal	2	5	13	-	20
Neurologic	14	13	53	-	80
Psychiatric	12	17	31	-	60
Bone/Joint	-	1	3	-	4
Muscles	-	1	-	-	1
Miscellaneous	2	4	6	-	12
SUBTOTAL	55	96	222	2	375
Denials for Failure to Provide Additional Information (67.31)	1	1	2	-	4
TOTAL DENIALS	56	97	224	2	379

*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.E

23

**RECONSIDERATION ACTIONS BY THE
FEDERAL AIR SURGEON***
1963-1971

<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	56	127	159	1	343
Ear, Nose, Throat	6	3	15	-	24
Respiratory	3	9	15	-	27
Cardiovascular	74	92	215	2	383
Abdominal	3	15	34	1	53
Neuropsychiatric	60	70	236	2	368
Bone/Joint	2	4	14	-	20
Muscles	-	1	5	-	6
Miscellaneous	9	18	59	-	86
TOTAL	213	339	752	6	1,310
<u>Denied</u>					
Eye	69	223	188	-	480
Ear, Nose, Throat	7	5	9	-	21
Respiratory	6	12	67	-	85
Cardiovascular	176	349	1,032	2	1,559
Abdominal	16	27	104	-	147
Neuropsychiatric	153	248	648	-	1,049
Bone/Joint	4	6	24	-	34
Muscles	2	4	9	-	15
Miscellaneous	31	65	215	-	311
SUBTOTAL	464	939	2,296	2	3,701
Denials for Failure to Provide Additional Information (67.31)	2	7	9	-	18
TOTAL DENIALS	466	946	2,305	2	3,719

*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*
1971

<u>Pathology</u>	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	-	1	8	9
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	-	-
Cardiovascular	-	21	62	83
Abdominal	-	-	-	-
Neuropsychiatric	2	7	25	34
Bone/Joint	-	-	-	-
Muscles	-	-	-	-
Miscellaneous	-	3	7	10
TOTAL GRANTS	2	32	102	136
<u>Denied</u>				
Eye	-	1	-	1
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	-	-
Cardiovascular	15	26	92	133
Abdominal	-	-	4	4
Neuropsychiatric	12	12	45	69
Bone/Joint	-	1	-	1
Muscles	-	-	-	-
Miscellaneous	1	6	10	17
TOTAL DENIALS	28	46	151	225

*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 AM-1.

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

Table III.G

25

PETITIONS GRANTED OR DENIED
BY THE FAA*
1961 - 1971

<u>Pathology</u>	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	10	25	39	74
Ear, Nose, Throat	-	1	-	1
Respiratory	-	-	5	5
Cardiovascular	11	92	533	636
Abdominal	2	1	7	10
Neuropsychiatric	9	26	156	191
Bone/Joint	1	1	1	3
Muscles	-	-	-	-
Miscellaneous	-	8	24	32
TOTAL GRANTS**	33	154	765	952
<u>Denied</u>				
Eye	8	63	26	97
Ear, Nose, Throat	-	1	1	2
Respiratory	3	1	14	18
Cardiovascular	192	326	932	1,450
Abdominal	5	5	29	39
Neuropsychiatric	87	144	391	622
Bone/Joint	1	5	9	15
Muscles	-	-	2	2
Miscellaneous	16	31	148	195
TOTAL DENIALS**	312	576	1,552	2,440

*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 AM-1. As a result, 14 AM-1 grants previously not included in this table have now been added into the Total Grants.

**Subsequent to distribution of the 1970 Statistical Handbook, adjustments were made to the "Granted" and "Denied" data for previous years. The 1970 totals were affected as adjustments were made within classes of pathology. However, the 14 AM-1 grants were added to the "Granted" portion increasing the 1970 total from 802 to 816.

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

Table III.H

**STATUS OF AIRMEN WHO HAVE BEEN
GRANTED EXEMPTIONS
1961-1971**

<u>Status Of Airmen</u>	<u>Number Of Airmen</u>
Airmen Granted Exemptions*	917
Currently Active Airmen	441
Deceased	21
Grants Terminated:	
Adverse Change in Condition or Failed to Furnish Required Information	72
Currently Meets Medical Standards - Grant No Longer Necessary	35
For Various Personal Reasons Have Not Validated Their Grants	348

*Although airmen may have been granted more than one exemption, they have only been counted once. There are 35 airmen who have been granted two exemptions. The 14 AM-1 grants have always been included in this table.

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 1971 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 1971

Region	First Class			Second Class			Third Class			Total Active Airmen		
	Effective		Status (Class)***	Total	Effective		Status (Class)***	Total	Effective		Status (Class)***	
	Total	Certified		Certified	Total	Certified		Total	Certified	Total	Certified	
Eastern	12,430	7,004	3,471	1,955	26,783	17,784	8,999	50,018	50,018	89,231	7,004	21,255
Central	2,860	1,635	740	485	12,753	8,754	3,999	26,963	26,963	42,576	1,635	9,494
Southern	12,719	7,228	3,380	2,111	29,362	20,012	9,350	44,466	44,466	66,547	7,228	23,392
Southwest	7,369	4,272	2,135	962	26,788	18,178	8,610	39,348	39,348	73,505	4,272	20,313
Western	16,057	8,870	4,247	2,940	34,707	22,641	12,066	56,164	56,164	106,928	8,870	26,888
Rocky Mountain	2,949	1,531	889	529	9,922	6,851	3,071	15,272	15,272	28,143	1,531	7,740
Northwest	3,171	1,628	963	580	10,858	7,107	3,751	15,782	15,782	29,811	1,628	8,070
New England	4,315	2,481	1,101	733	8,156	5,588	2,568	14,210	14,210	26,681	2,481	6,689
Great Lakes	11,002	6,067	3,145	1,790	35,547	23,965	11,582	76,308	76,308	122,857	6,067	27,110
Alaskan	580	277	214	89	2,558	1,762	796	3,365	3,365	6,503	277	1,976
Pacific	478	235	156	87	854	652	202	826	826	2,158	235	808
U. S. TOTAL	73,930	41,228	20,441	12,261	198,288	133,294	64,994	342,722	342,722	614,940	41,228	153,735
Military***	65	21	22	22	88,273	60,615	27,658	28,219	28,219	116,557	21	60,637
Foreign	3,944	2,039	946	959	2,415	1,566	849	2,779	2,779	9,138	2,039	2,512
TOTAL	77,939	43,288	21,409	13,242	288,976	195,475	93,501	373,720	373,720	740,635	43,288	216,884
												480,463

*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 1971

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Alabama	404	-	2,553	49	4,063	296	7,020	345
Alaska	576	4	2,471	81	3,039	318	6,086	403
Arizona	756	5	2,995	88	5,057	488	8,808	581
Arkansas	206	3	1,899	35	2,679	153	4,784	191
California	14,825	76	29,429	884	44,544	4,173	88,798	5,133
Colorado	2,215	11	4,420	126	4,995	455	11,630	592
Connecticut	1,758	5	2,136	45	3,994	306	7,888	356
Delaware	192	-	453	5	718	47	1,363	52
District of Columbia	94	2	260	18	430	50	784	70
Florida	6,930	40	10,258	260	13,127	1,288	30,315	1,588
Georgia	3,101	8	4,482	70	5,962	434	13,545	512
Hawaii	472	6	828	25	729	97	2,029	128
Idaho	156	2	1,222	25	2,036	153	3,414	180
Illinois	4,135	13	8,273	187	16,321	1,185	28,729	1,385
Indiana	906	2	4,457	110	8,958	611	14,321	723
Iowa	251	-	2,664	47	6,679	393	9,594	440
Kansas	937	5	3,724	84	6,476	568	11,137	657
Indiana	240	3	1,726	36	2,935	187	4,901	226
Louisiana	819	5	3,544	58	3,546	254	7,909	317
Maine	179	2	792	8	1,451	91	2,422	101
Maryland	809	1	2,447	62	4,533	338	7,789	401
Massachusetts	1,568	11	3,276	87	5,469	447	10,313	545
Michigan	1,237	5	6,083	153	14,401	900	21,721	1,058
Minnesota	2,368	8	4,499	71	8,936	634	15,803	713
Mississippi	183	2	1,731	20	2,503	169	4,417	191
Missouri	1,474	6	4,260	101	8,033	596	13,767	703
Montana	159	2	1,501	42	2,326	181	3,986	225
Nebraska	185	2	1,832	36	3,920	295	5,937	333
Nevada	382	1	1,236	26	1,679	177	3,297	204
New Hampshire	561	3	1,006	17	1,032	92	2,599	112

Table IV.B (Continued)

**ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED***
As Of: 31 December 1971

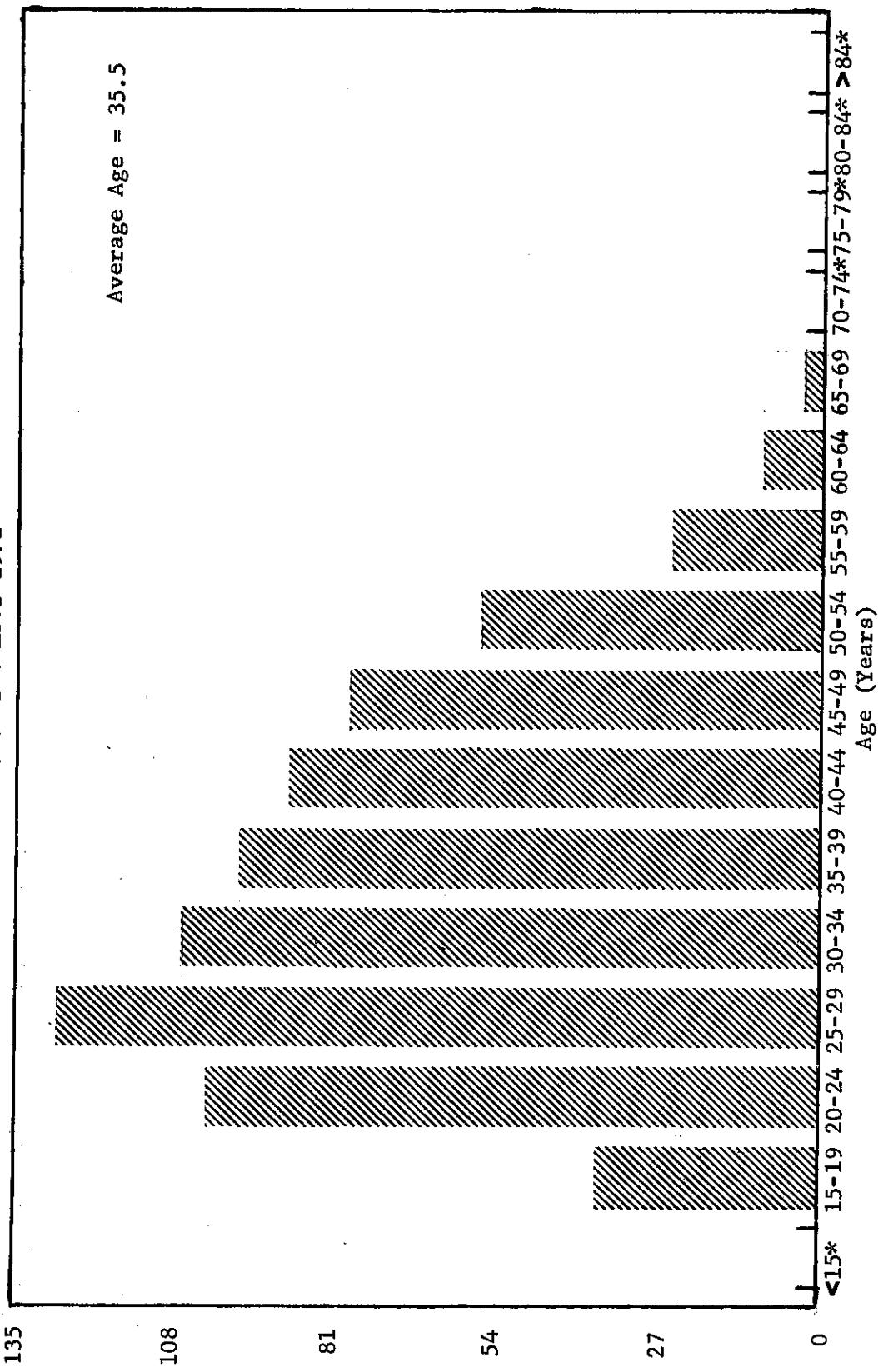
State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
New Jersey	3,231	14	3,886	86	7,927	547	15,044	647
New Mexico	181	-	1,891	65	2,644	233	4,716	298
New York	3,975	15	8,633	171	15,673	1,136	28,281	1,322
North Carolina	753	2	2,952	43	5,837	336	9,542	381
North Dakota	85	-	976	18	1,966	103	3,027	121
Ohio	1,527	11	8,296	198	16,394	1,168	26,217	1,377
Oklahoma	708	9	3,847	77	6,299	509	10,854	595
Oregon	376	6	3,546	71	4,973	396	8,895	473
Pennsylvania	2,072	9	5,841	126	11,322	813	19,235	948
Rhode Island	135	-	365	15	615	43	1,115	58
South Carolina	258	3	1,553	20	2,169	147	3,980	170
South Dakota	67	-	796	8	1,812	113	2,675	121
Tennessee	766	5	3,349	68	4,620	335	8,735	408
Texas	5,402	11	14,915	305	21,288	1,598	41,605	1,914
Utah	309	4	1,422	18	2,105	133	3,836	155
Vermont	92	1	383	7	599	65	1,074	73
Virginia	1,817	4	3,939	71	4,667	363	10,423	438
Washington	2,615	15	5,858	103	7,541	660	16,014	778
West Virginia	128	-	617	9	1,302	89	2,047	98
Wisconsin	780	1	3,134	53	6,355	415	10,269	469
Wyoming	96	1	584	8	1,005	76	1,685	85
U. S. CIVILIAN TOTAL	73,451	344	193,240	4,396	317,684	24,654	584,375	29,394
Military and NASA International	216	-	87,997	948	27,430	1,184	115,643	2,132
TOTAL AIRMEN	77,585	354	283,589	5,387	347,694	26,026	708,868	31,767

*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

Airmen (000)
AGE DISTRIBUTION OF MEDICALLY CERTIFIED AIRMEN
As Of: 31 December 1971



*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.

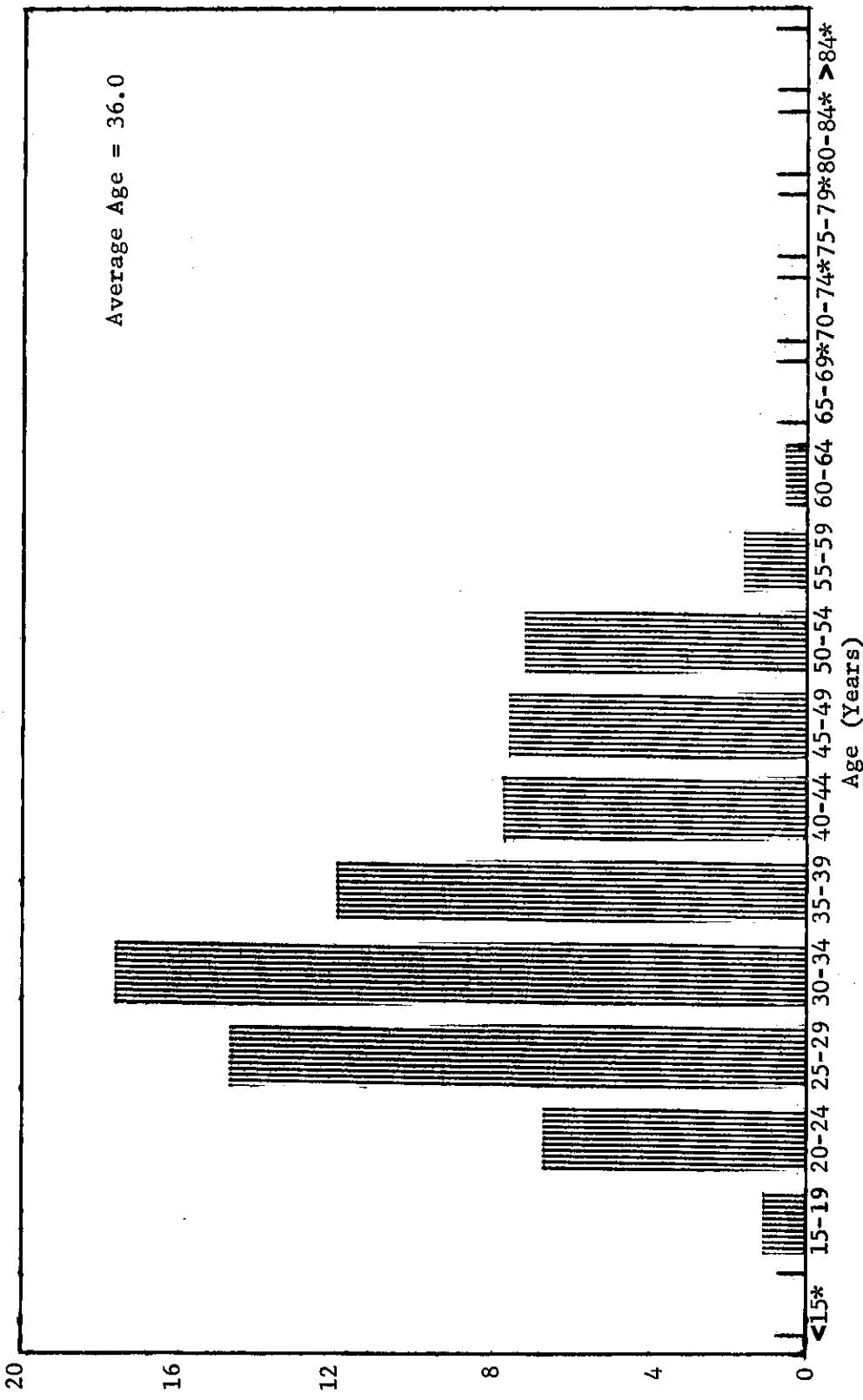
Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.D

AGE DISTRIBUTION OF MEDICALLY CERTIFIED FIRST CLASS AIRMEN
As Of: 31 December 1971

Airmen (000)

20

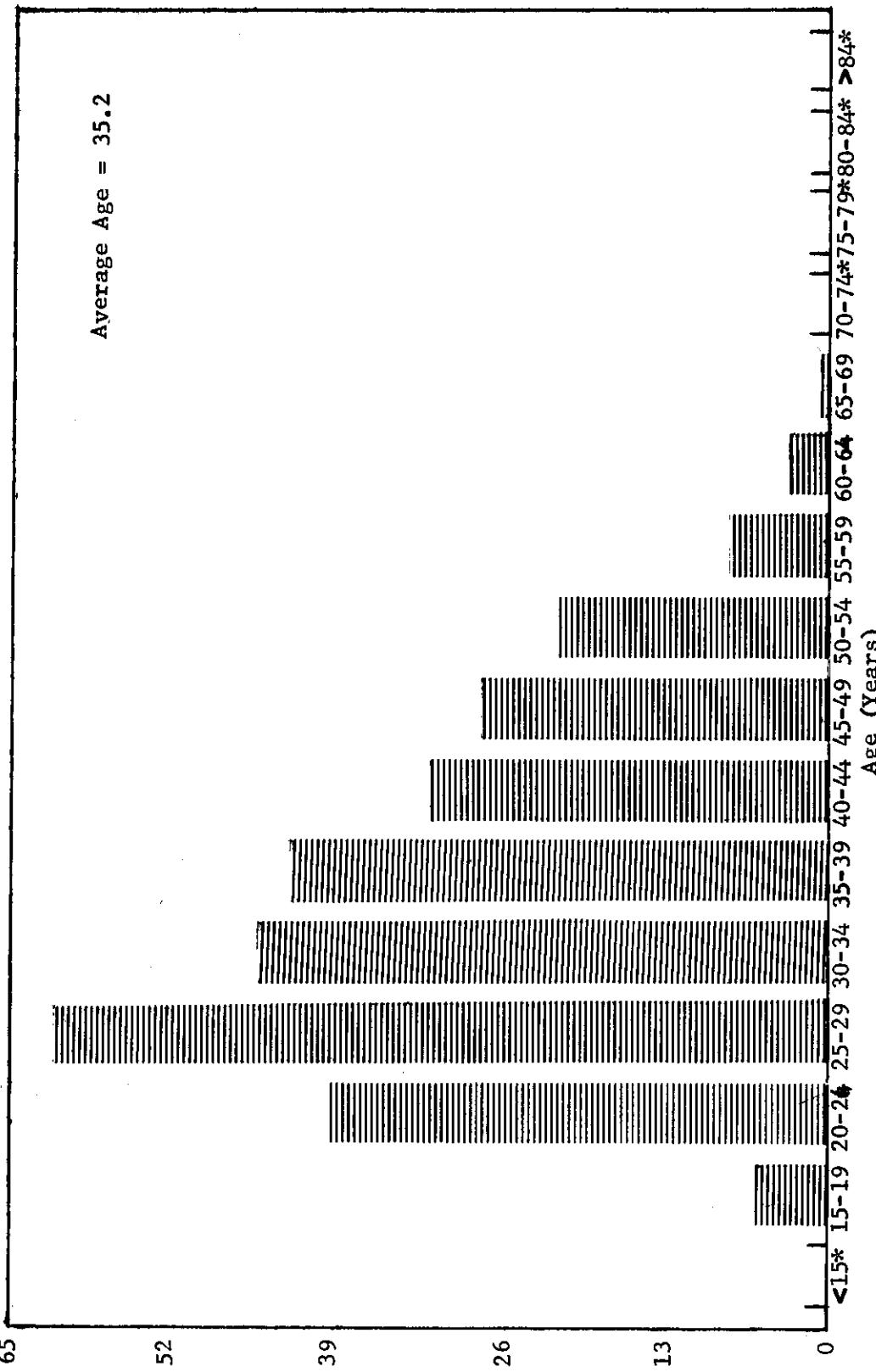


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale.
In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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 1971

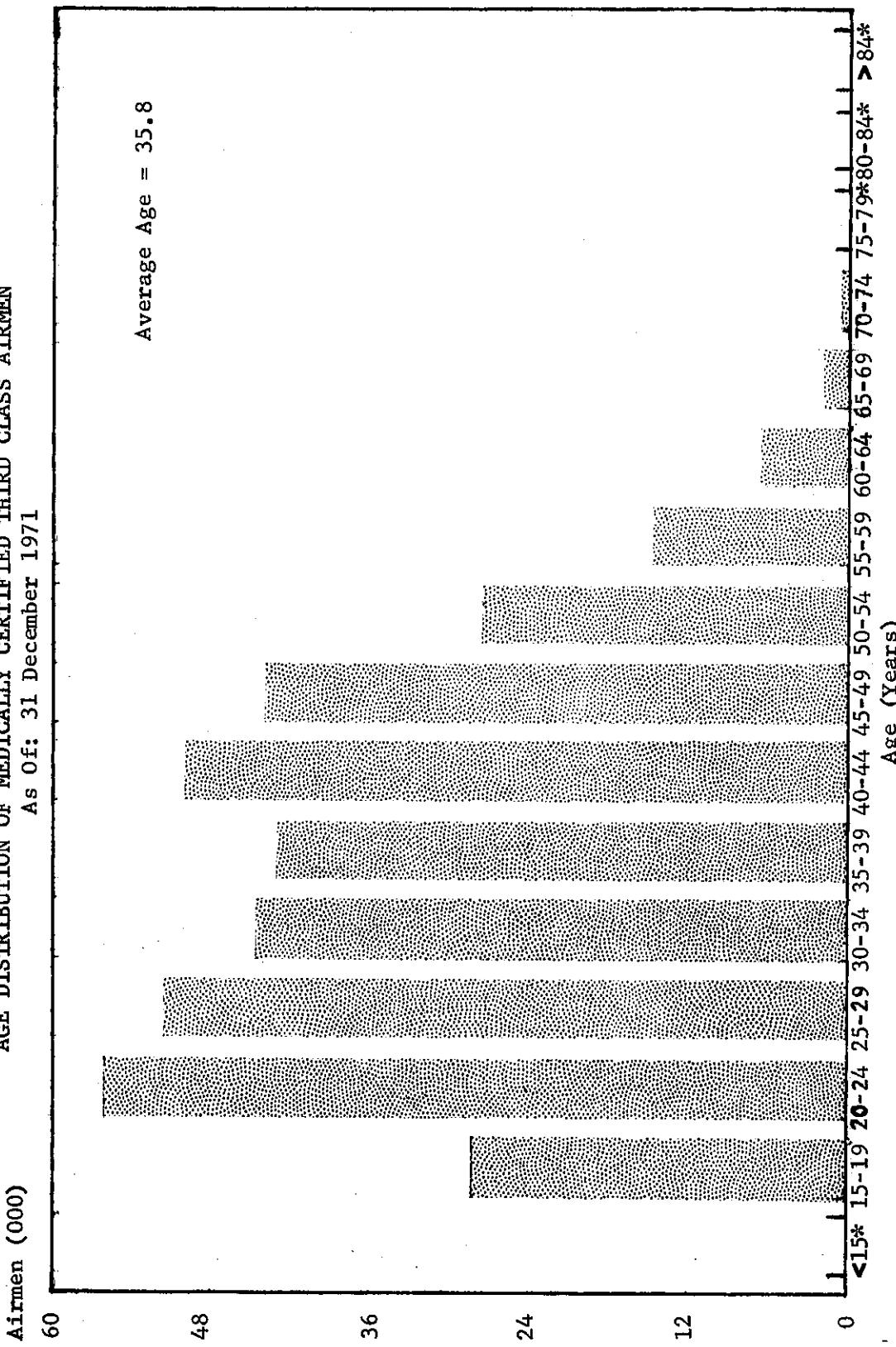


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale.
In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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 1971



*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

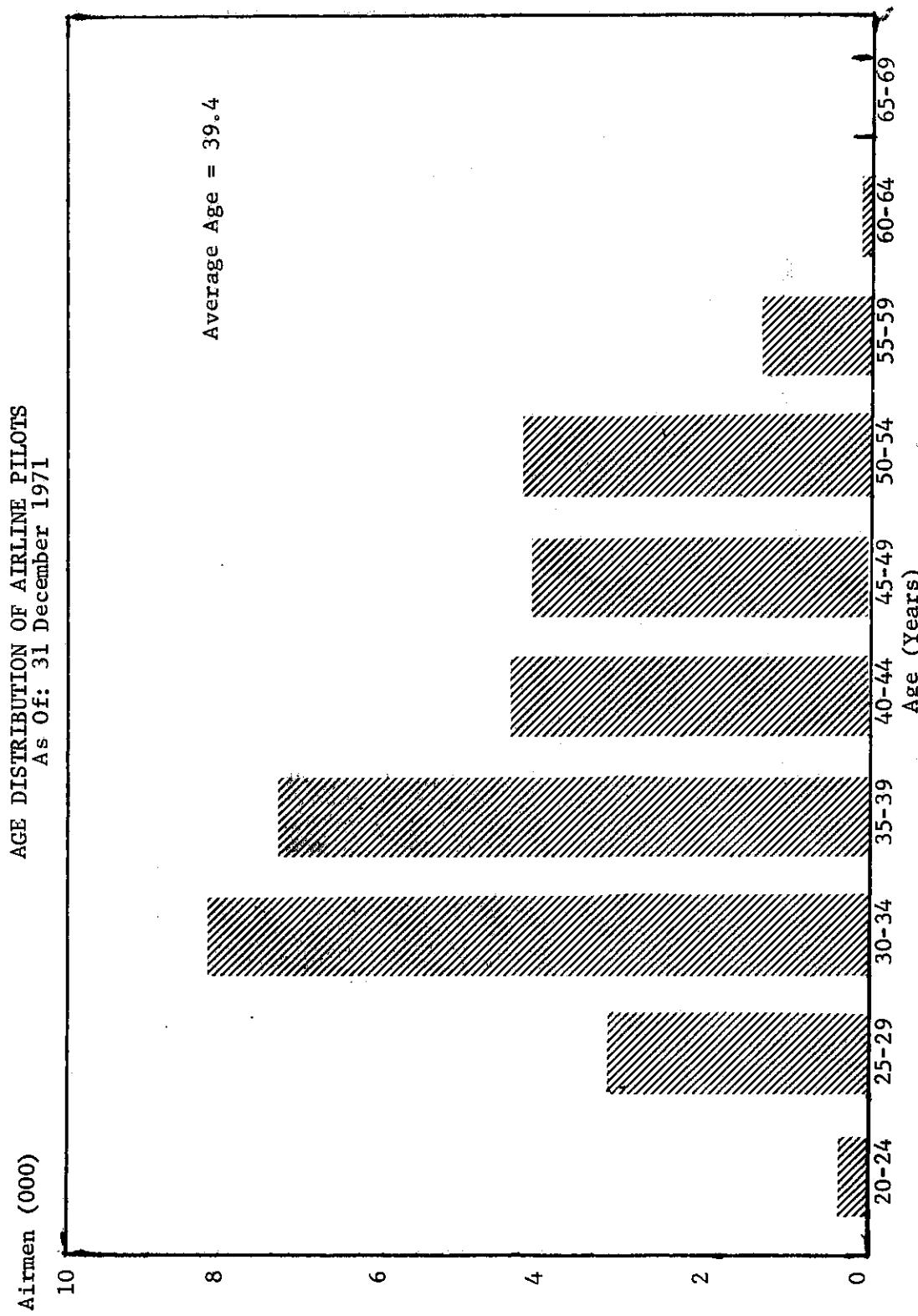
AGE DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*
As Of: 31 December 1971

Age	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 15	2	-	11	2	44	3	57	5
15 - 19	1,608	29	5,658	293	26,266	2,536	33,532	2,858
20 - 24	6,632	52	38,476	1,082	52,325	3,995	97,433	5,129
25 - 29	14,553	93	61,126	855	46,823	4,955	122,502	5,903
30 - 34	17,415	60	44,445	704	41,292	3,861	103,152	4,625
35 - 39	11,924	29	42,319	641	40,440	3,194	94,683	3,864
40 - 44	7,650	30	30,929	598	47,551	2,905	86,130	3,533
45 - 49	7,612	31	26,917	521	41,630	2,350	76,159	2,902
50 - 54	7,183	22	21,667	388	26,780	1,310	55,630	1,720
55 - 59	2,362	6	7,900	188	14,748	609	25,010	803
60 - 64	535	1	2,844	78	6,368	212	9,747	291
65 - 69	97	1	982	30	2,389	70	3,468	101
70 - 74	9	-	252	7	781	22	1,042	29
75 - 79	2	-	55	-	219	3	276	3
80 - 84	1	-	8	-	33	1	42	1
85 and over	-	-	-	-	5	-	5	-
TOTAL	77,585	354	283,589	5,387	347,694	26,026	708,868	31,767

*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 1971



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 1971

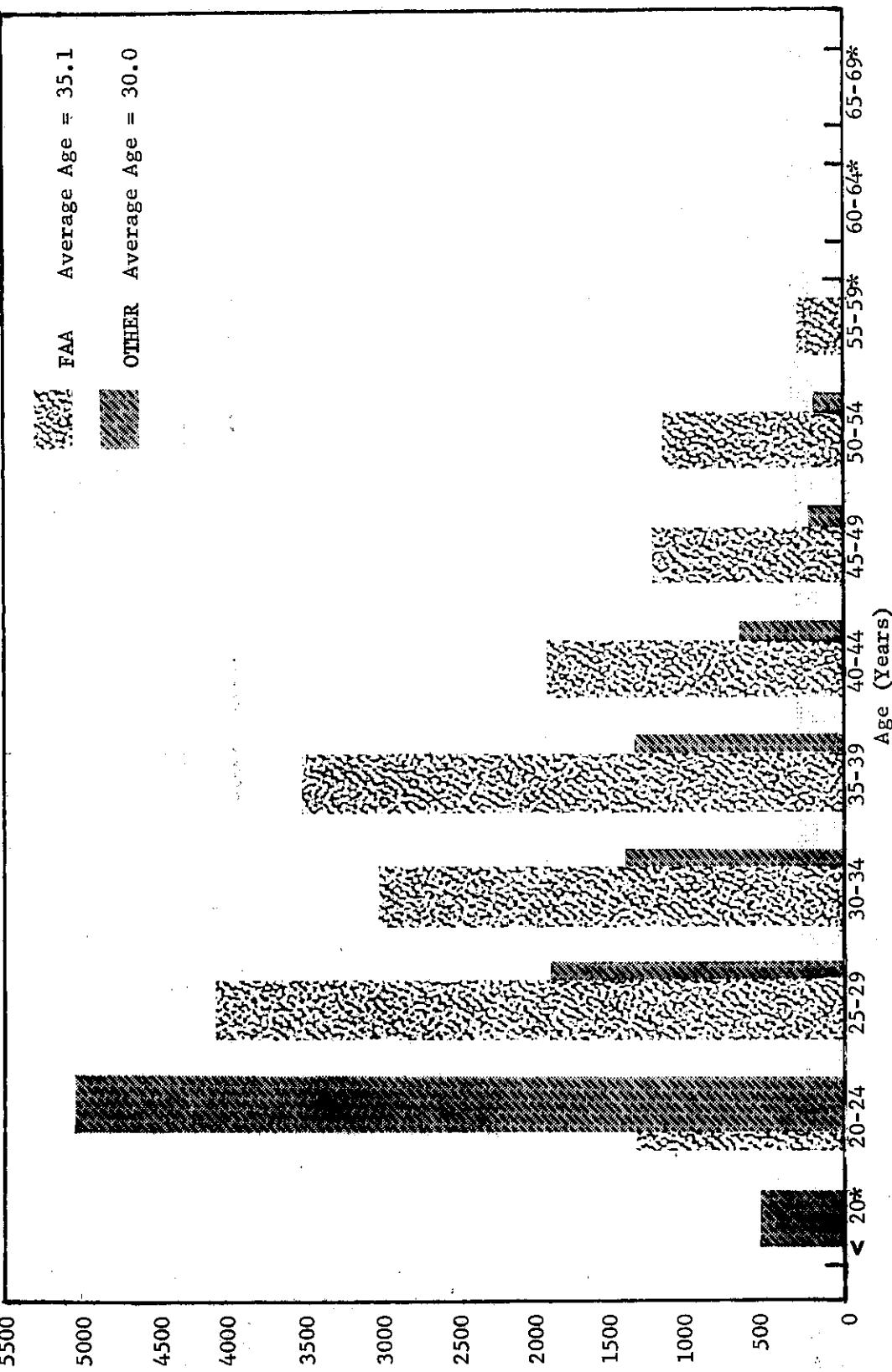
Age Groups (1)	Airline Pilots (2)	Certified First Class Airmen** (3)		Percent of Total	
		Airline Pilots (2)	Certified First Class Airmen** (3)	Airline Pilots (4)	Certified First Class Airmen (5)
20 - 24	363	6,684		1.1	8.8
25 - 29	3,316	14,646		9.8	19.2
30 - 34	8,310	17,475		24.5	22.9
35 - 39	7,430	11,953		21.9	15.7
40 - 44	4,485	7,680		13.2	10.1
45 - 49	4,258	7,643		12.5	10.0
50 - 54	4,315	7,205		12.7	9.4
55 - 59	1,373	2,368		4.0	3.1
60 - 64	117	536		0.3	0.7
65 - 69	5	98		0.0+	0.1
TOTAL	33,972	76,288		100.0	

*Airline Pilots, Column (2), were determined by the combination of having a first class medical certificate and an occupation of "pilot for an airline". Figures in Column (3) are 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 1971



*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: AG 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Table IV.K

AGE DISTRIBUTION OF AIR TRAFFIC CONTROLLERS*
As Of: 31 December 1971

<u>Age</u>	FAA ATC'S	Other ATC'S
Less than 20	37	537
20 - 24	1,409	5,059
25 - 29	4,109	1,928
30 - 34	3,081	1,449
35 - 39	3,553	1,349
40 - 44	1,913	662
45 - 49	1,274	232
50 - 54	1,186	177
55 - 59	289	34
60 - 64	38	7
65 - 69	1	2
Over 69	-	-
TOTAL	16,890	11,436

*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 Computer Run.

Table IV.L

**HEIGHT DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX***
As Of: 31 December 1971

Height In Inches	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 59	123	-	515	31	655	212	1,293	243
59	46	-	199	20	221	92	466	112
60	109	13	503	132	605	719	1,217	864
61	40	9	213	176	364	962	617	1,147
62	43	38	246	487	558	2,538	847	3,063
63	75	31	470	619	975	2,941	1,520	3,591
64	260	43	1,485	827	2,508	4,152	4,253	5,022
65	577	46	3,187	808	4,943	3,820	8,707	4,674
66	1,759	65	9,128	839	12,602	4,011	23,489	4,915
67	4,000	43	16,077	604	20,612	2,806	40,689	3,453
68	7,815	40	29,348	425	36,389	1,951	73,552	2,416
69	9,202	12	33,090	227	39,451	971	81,743	1,210
70	12,284	5	43,505	102	52,637	419	108,426	526
71	11,629	5	42,992	41	53,653	180	108,274	226
72	14,040	2	49,057	28	57,060	107	120,157	137
73	6,460	1	22,621	6	26,972	35	56,053	42
74	5,228	-	17,344	5	20,107	46	42,679	51
75	2,359	-	7,661	2	9,342	23	19,362	25
Over 75	1,536	1	5,948	8	8,040	41	15,524	50
TOTAL	77,585	354	283,589	5,387	347,694	26,026	708,868	31,767

*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 1971

Weight In Pounds	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 90	42	1	109	8	179	52	330	61
90 - 99	5	7	8	61	68	378	81	446
100 - 109	26	29	75	381	336	2,054	437	2,464
110 - 119	155	71	456	927	1,388	5,179	1,999	6,177
120 - 129	633	95	2,131	1,413	4,790	6,647	7,554	8,155
130 - 139	1,945	70	7,646	1,183	13,281	5,214	22,872	6,467
140 - 149	4,702	38	18,342	675	25,892	2,961	48,936	3,674
150 - 159	9,377	21	33,881	317	41,516	1,613	84,774	1,951
160 - 169	13,696	9	47,147	187	54,255	860	115,098	1,056
170 - 179	15,207	5	51,748	95	58,230	451	125,185	551
180 - 189	13,336	5	47,126	60	52,157	267	112,619	332
190 - 199	8,507	2	32,341	30	36,980	143	77,828	175
200 - 209	4,769	1	19,253	20	23,425	73	47,447	94
210 - 219	2,704	-	11,076	11	14,987	52	28,767	63
220 - 229	1,348	-	6,055	11	8,981	25	16,384	36
230 - 239	614	-	3,059	6	5,019	22	8,692	28
240 - 249	267	-	1,517	-	2,715	14	4,499	14
Over 249	252	-	1,619	2	3,495	21	5,366	23
TOTAL	77,585	354	283,589	5,387	347,694	26,026	708,868	31,767

*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 1971

<u>Class Issued</u>	<u>Type of Flying**</u>	
	<u>Business</u>	<u>Pleasure</u>
First	61,805	16,134
Second	94,943	194,033
Third	47,386	326,334
TOTAL	204,134	536,501

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

**Based on response by the 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 1971

Occupation Code	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
1 - Pilot (Scheduled or Non-Scheduled Airline)	37,012	10	262	-	41	2	37,315	12
2 - Flight Engineer	1,633	-	2,845	-	10	1	4,488	1
3 - Flight Navigator/Flight Radio Operator	38	-	304	-	8	1	350	1
4 - Business or Executive Pilot	11,521	41	152	1	3	-	11,676	42
5 - Commercial Pilot (Self Employed)	28	1	3,336	56	14	-	3,378	57
6 - Commercial Pilot (Not Self Employed)	95	-	10,125	58	35	1	10,255	59
7 - Aero Application(Agriculture)	78	-	2,322	2	10	-	2,410	2
8 - Air Traffic Controller	461	3	38,415	1,016	190	5	39,066	1,024
9 - Flight Instructor	2,863	66	3,948	218	14	1	6,825	285
0 - Aircraft Mechanic and Fixed Base Operators	544	-	3,173	6	1,825	45	5,542	51
X - Not Given or Non-Aeronautical Occupation	23,312	233	218,707	4,030	345,544	25,970	587,563	30,233
TOTAL	77,585	354	283,589	5,387	347,694	26,026	708,868	31,767

*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".

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 1971

<u>Employer</u>	<u>First Class</u>	<u>Second Class</u>	<u>Third Class</u>	<u>Total</u>
Airlift International	188	48	1	237
Airwest	384	13	10	407
Alaska Airlines	153	18	5	176
Allegheny Airlines	621	27	9	657
✓Aloha Airlines	62	6	2	70
American Airlines	3,420	732	47	4,199
✓American Flyers Airlines Corp.	23	20	1	44
✓Aspen Airways	4	-	-	4
Braniff Airways	1,125	41	9	1,175
Capitol International Airways	97	76	3	176
Caribbean Atlantic Airlines	6	1	-	7
✓Chicago Helicopter Airways	3	-	-	3
✓Continental Air Lines	1,013	68	12	1,093
Delta Air Lines	2,143	90	15	2,248
Eastern Airlines	3,746	245	45	4,036
Flying Tiger Line	351	100	5	456
Frontier Airlines	452	31	3	486
Hawaiian Airlines	101	3	-	104
✓Kodiak Airways	2	1	-	3
✓Los Angeles Airways	19	1	-	20
✓Modern Air Transport	51	24	-	75
Mohawk Airlines	374	15	9	398
✓Munz Airways	2	-	1	3
National Airlines	607	270	5	882
New York Airways	25	7	-	32
North Central Airlines	431	18	5	454
Northeast Airlines	481	27	5	513
✓Northwest Airlines	1,616	73	19	1,708
Overseas National Airways	155	85	-	240
✓Ozark Air Lines	298	21	4	323
✓Pacific Airlines	3	-	-	3
Pan American World Airways	2,756	574	24	3,354
Piedmont Aviation	378	26	8	412
✓Reeve Aleutian Airways	12	5	1	18
✓San Francisco & Oakland Helicopter	7	-	-	7
Saturn Airways	89	58	-	147
✓Seaboard World Airlines	175	105	2	282
✓Southern Air Transport	19	8	-	27
Southern Airways	303	309	8	620
✓Trans Caribbean Airways	30	6	-	36
✓Trans International Airlines	111	53	-	164
Texas International Airlines	253	20	1	274
Trans World Airlines	3,763	563	64	4,390

Table IV.P (Continued)

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**EMPLOYERS OF ACTIVE AIRMEN BY
CLASS OF CERTIFICATE ISSUED***
As Of: 31 December 1971

<u>Employer</u>	First Class	Second Class	Third Class	Total
United Airlines	5,606	553	72	6,231
Universal Airlines	178	69	3	250
West Coast Airlines	2	1	-	3
Western Air Lines	988	129	19	1,136
Western Alaska Airlines	4	5	1	10
Wien Consolidated Airlines	63	10	6	79
World Airways	179	49	1	229
Federal Aviation Administration	1,782	25,221	612	27,615
Government, other than military or FAA, includes state and local government	544	1,114	55	1,713
Aircraft Industry	659	1,089	213	1,961
Industry, other than aircraft	5,568	3,313	111	8,992
Fixed Base Operation (Flying Schools, etc.)	2,908	6,187	469	9,564
Self Employed	2,133	5,278	236	7,647
Other	8,040	4,803	348	13,191
Not Applicable	22,046	181,385	369,858	573,289
Air Force	820	31,042	684	32,546
Army	157	10,631	100	10,888
Coast Guard	22	238	-	260
Marines and Navy	318	13,761	218	14,297
National Aeronautics and Space Administration	70	310	391	771
TOTAL	77,939	288,976	373,720	740,635

*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 31 December 1971 by class of medical certificate issued.

Table V.A
FREQUENCY OF SELECTED PRELIMINARY ECG DIAGNOSIS CODES
AMONG FIRST CLASS AIRMAN APPLICANTS*
As Of: 31 December 1971

ECG Code		Issued	Pending Or Denied
DISTURBANCE IN RHYTHM			
4 - Supraventricular Tachycardia		5	0
5 - Paroxysmal Atrial Tachycardia		5	2
7 - Atrial Fibrillation		14	10
8 - Paroxysmal Atrial Tachycardia with Block		0	1
10 - Nodal Tachycardia, Nodal Rhythm		85	0
DISTURBANCE IN CONDUCTION			
35 - Complete Heart Block		7	0
OTHER CONDUCTION DEFECTS			
48 - Complete Right Bundle Branch Block		477	24
49 - Complete Right Bundle Branch Block with Infarction		4	0
50 - Incomplete Left Bundle Branch Block		28	7
51 - Complete Left Bundle Branch Block		48	12
52 - Complete Left Bundle Branch Block with Infarction		0	2
53 - Intraventricular Conduction Beat		295	4
54 - Wolff-Parkinson-White Syndrome		88	15
CHANGES IN SIZE OF HEART CHAMBERS			
68 - Left Ventricular Hypertrophy with or without Strain		150	1
69 - Right Ventricular Hypertrophy with or without Strain		18	1
71 - Right Ventricular Hypertrophy with Right Bundle Branch Block		3	1
72 - Left Ventricular Hypertrophy with Left Bundle Branch Block		1	0
T WAVE CHANGES			
110 - Isoelectric or Inverted T in any or all of Leads V ₃ , V ₄ , V ₅ , V ₆		79	8
116 - Miscellaneous T Wave Changes		783	46
ST CHANGES			
127 - A Decrease of 0.5 mm or more in any Lead		107	5
MYOCARDIAL INFARCTION			
138 - Diaphragmatic		12	0
139 - Anterior		16	2
140 - Anterolateral		10	3
141 - Anteroseptal		33	3
142 - Posterior		9	2
144 - Acute		7	2
145 - Old		119	18
147 - Subendocardial		1	0
149 - Anterolateral Peri-infarction Block - initial vector inferior, terminal leftward		1	0
150 - Diaphragmatic Peri-infarction Block - initial vector leftward, terminal vector inferior		1	1
MASTER'S TEST			
162 - Positive		39	57
164 - Borderline		35	2
MISCELLANEOUS			
198 - Digitalis Effect		1	1
205 - Dextrocardia		3	0

*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.

Restriction	Must Have Available Near Vision While Flying	Must Wear Glasses Vision While Flying	Must Wear Glasses Distant Vision While Flying	Must Wear Prismatic Glasses Must Be Worn While Flying	May Wear Contact Lenses Must Wear Contact Lenses Must Wear Prismatic Glasses Must Be Worn While Flying	Passenger Carrying Must Wear Hearing Aids Must Wear Artificial Hearing Aids Oxygen Required While 7,999 Feet	Not Valid For Pilot Not Valid For Cont Operator Duties Not Valid For Air Flying Jet Aircraft
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Table V.F

FREQUENCY OF WAIVER CAUSE CODES
BY CLASS OF MEDICAL CERTIFICATE ISSUED*
As Of: 31 December 1971

Waiver Cause Code	First Class		Second Class		Third Class		Total Airmen		
	Male	Female	Male	Female	Male	Female	Male	Female	Total
									Airmen
A - External Eye Problem	31	-	215	5	152	10	398	15	
B - Internal Eye Problem	15	-	50	1	52	1	117	2	
C - Glaucoma	-	-	3	-	1	-	4	-	
D - Deficient Distant Vision	965	7	10,392	327	2,393	77	13,750	411	
E - Deficient Near Vision	-	-	15	-	9	-	24	-	
F - Deficient Color Vision	438	-	1,831	2	1,608	7	3,877	9	
G - Contact Lenses	375	7	2,185	165	3,383	840	5,943	1,012	
H - Field of Vision (Visual Field Deficiency)	3	-	9	1	7	-	19	1	
I - Deficient Hearing	303	3	958	6	308	8	1,569	17	
J - Ear	1	-	3	-	1	-	5	-	
K - Nose	-	-	-	-	-	-	-	-	
L - Throat	-	-	1	-	1	-	2	-	
M - Mute	-	-	-	-	5	-	5	-	
N - Respiratory System	-	-	3	-	2	-	5	-	
O - Heart Disease, General	-	-	6	-	1	-	7	-	
P - Heart Disease, Valvular	-	-	1	-	-	-	1	-	
Q - Heart Disease, Vascular	-	-	1	-	-	-	1	-	
R - Heart Disease, Arrhythmia	-	-	-	-	-	-	-	-	
S - Electrocardiogram Abnormality	-	-	1	-	-	-	1	-	
									Total Airmen
									13,112

statistical Section;

Table V.F (Continued)

FREQUENCY OF WAIVER CAUSE CODES
BY CLASS OF MEDICAL CERTIFICATE ISSUED*
As Of: 31 December 1971

Waiver Cause Code	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
T - Abdominal	-	-	-	-	-	-	-	-
U - Neurological	2	-	14	-	47	2	63	2
V - Mental and Nervous	-	-	1	-	-	-	1	-
W - Bone and Joint	15	-	73	1	127	3	215	4
X - Muscles	10	-	44	1	129	4	183	5
Y - Miscellaneous Conditions	21	-	85	-	223	3	329	3
Z - Malignancy	-	-	2	-	2	-	4	-
1 - Amputation	18	-	93	1	192	-	303	1
TOTAL	2,197	17	15,986	510	8,643	955	26,826	1,482

*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.

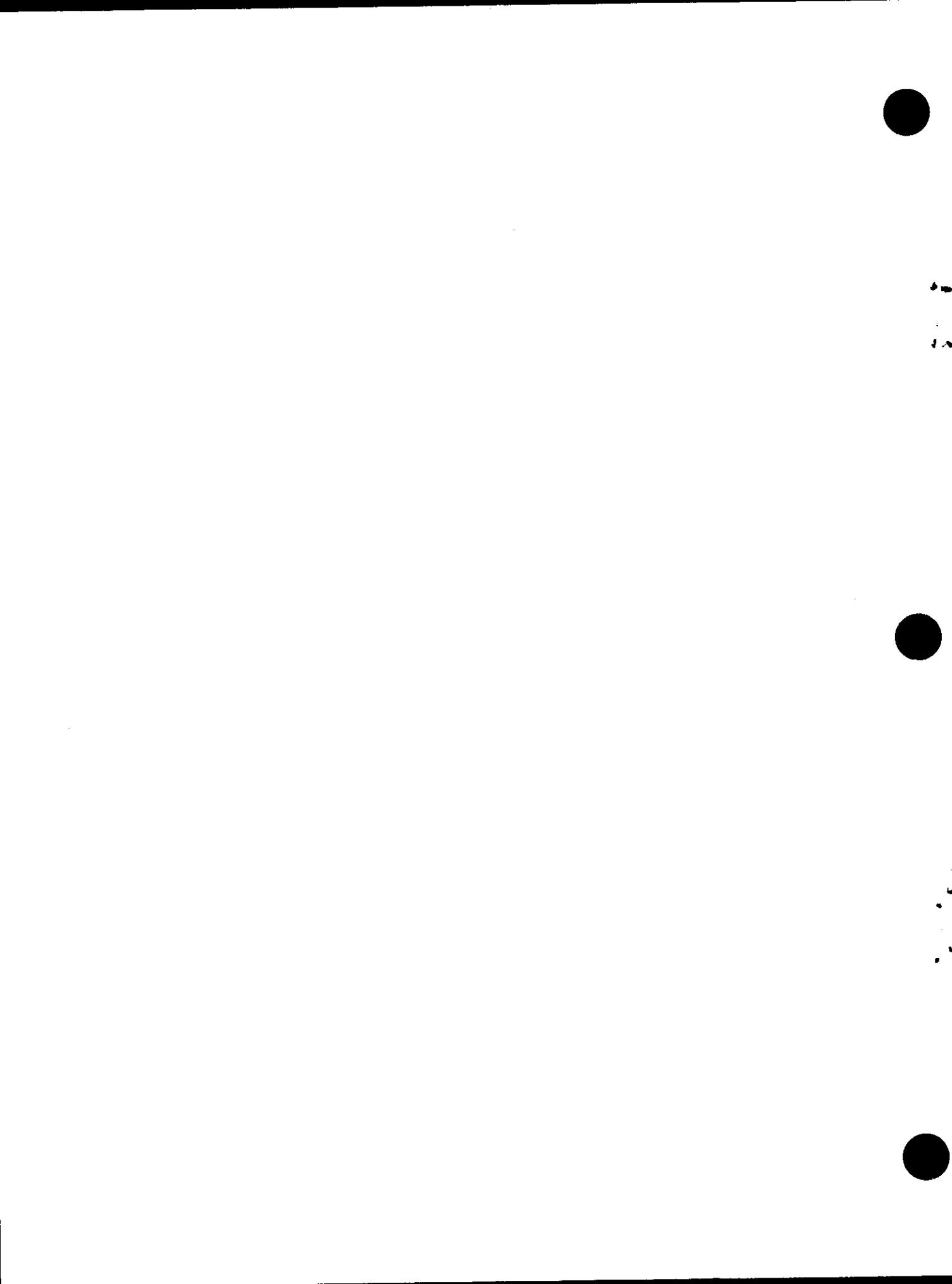


Table V.A

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FREQUENCY OF SELECTED PRELIMINARY ECG DIAGNOSIS CODES
 AMONG FIRST CLASS AIRMAN APPLICANTS*
 As Of: 31 December 1971

ECG Code	Issued	Pending Or Denied
DISTURBANCE IN RHYTHM		
4 - Supraventricular Tachycardia	5	0
5 - Paroxysmal Atrial Tachycardia	5	2
7 - Atrial Fibrillation	14	10
8 - Paroxysmal Atrial Tachycardia with Block	0	1
10 - Nodal Tachycardia, Nodal Rhythm	85	0
DISTURBANCE IN CONDUCTION		
35 - Complete Heart Block	7	0
OTHER CONDUCTION DEFECTS		
48 - Complete Right Bundle Branch Block	477	24
49 - Complete Right Bundle Branch Block with Infarction	4	0
50 - Incomplete Left Bundle Branch Block	28	7
51 - Complete Left Bundle Branch Block	48	12
52 - Complete Left Bundle Branch Block with Infarction	0	2
53 - Intraventricular Conduction Beat	295	4
54 - Wolff-Parkinson-White Syndrome	88	15
CHANGES IN SIZE OF HEART CHAMBERS		
68 - Left Ventricular Hypertrophy with or without Strain	150	1
69 - Right Ventricular Hypertrophy with or without Strain	18	1
71 - Right Ventricular Hypertrophy with Right Bundle Branch Block	3	1
72 - Left Ventricular Hypertrophy with Left Bundle Branch Block	1	0
T WAVE CHANGES		
110 - Isoelectric or Inverted T in any or all of Leads V ₃ , V ₄ , V ₅ , V ₆	79	8
116 - Miscellaneous T Wave Changes	783	46
ST CHANGES		
127 - A Decrease of 0.5 mm or more in any Lead	107	5
MYOCARDIAL INFARCTION		
138 - Diaphragmatic	12	0
139 - Anterior	16	2
140 - Anterolateral	10	3
141 - Anteroseptal	33	3
142 - Posterior	9	2
144 - Acute	7	2
145 - Old	119	18
147 - Subendocardial	1	0
149 - Anterolateral Peri-infarction Block - initial vector inferior, terminal leftward	1	0
150 - Diaphragmatic Peri-infarction Block - initial vector leftward, terminal vector inferior	1	1
MASTER'S TEST		
162 - Positive	39	57
164 - Borderline	35	2
MISCELLANEOUS		
198 - Digitalis Effect	1	1
205 - Dextrocardia	3	0

*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.B

48

ACTIVE AIRMEN BY NUMBER OF RESTRICTIONS
CARRIED, CLASS AND SEX*
As Of: 31 December 1971

Number Of Restrictions	First-Class		Second-Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
1	19,612	106	95,673	2,359	132,720	10,446	248,005	12,911
2	220	-	3,073	67	5,559	124	8,852	191
3	15	-	149	2	240	5	404	7
4	-	-	13	1	7	2	20	3
More than 4	-	-	1	-	3	-	4	-
TOTAL	19,847	106	98,909	2,429	138,529	10,577	257,285	13,112

*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 1971

Restriction	First Class		Second Class		Third Class		Total Airmen		
	Male	Female	Male	Female	Male	Female	Male	Female	Male
Must Have Available Glasses For Near Vision While Flying	7,531	22	19,268	347	25,465	1,293	52,264	1,662	
Must Wear Glasses For Distant Vision While Flying	11,555	75	73,553	1,807	99,497	7,746	184,605	9,628	
Must Wear Glasses for Near and Distant Vision While Flying	2	-	2	1	8	-	12	1	
Must Wear Prismatic Correction While Flying	3	-	27	-	15	2	45	2	
May Wear Contact Lenses While Flying	138	1	632	44	793	195	1,563	240	
May Wear Contact Lenses While Flying: Glasses Must Be Available	331	8	2,232	197	4,119	1,147	6,682	1,352	
Must Wear Hearing Aid While Flying	9	-	84	1	198	8	291	9	
Must Wear Artificial Limb While Flying	10	-	70	1	180	3	260	4	
Oxygen Required When Flying Above 7,999 Feet	2	-	1	-	11	-	14	-	
Passenger Carrying Prohibited	-	-	2	1	12	-	14	1	
Not Valid For Pilot In Command	1	-	4	1	3	-	8	1	
Not Valid For Control Tower Operator Duties	36	-	255	5	126	2	417	7	
Not Valid For Air Transport Duties	1	-	2	-	5	-	8	-	
Flying Jet Aircraft Prohibited	-	-	-	-	1	-	1	-	

Table V.C (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: 31 December 1971

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)	82	-	1,722	3	7,920	19	-	9,724
Not Valid For Night Flying (Glaucoma)	2	-	44	-	111	3	157	3
Not Valid For Flying Where Radio Use Is Required	-	-	5	-	49	3	54	3
Flying Limited To Remote Areas	2	-	-	-	1	-	3	-
Valid For Flight Test Only	4	-	27	1	20	-	51	1
Second Class Privileges Limited To Crop Dusting	-	-	2	-	3	-	5	-
Second Class Privileges Limited To Flight Engineer Duties	1	-	35	-	-	-	36	-
Second Class Privileges Limited To Flight Navigator Duties	-	-	16	-	1	-	17	-
Second Class Privileges Limited To Control Tower Operator Duties	3	-	31	3	3	1	37	4
Valid For ATC Duties Only	5	-	2,147	50	10	-	2,162	50
Limited To Military Control Tower Operator Duties	-	-	136	5	3	-	139	5
Valid For Control Tower Duties When Second Controller On Duty	2	-	7	-	2	1	11	1
Valid Only When Accompanied By Another Qualified Pilot	3	-	2	-	4	-	9	-

Table V.C (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: 31 December 1971

<u>Restriction</u>	<u>First Class</u>		<u>Second Class</u>		<u>Third Class</u>		<u>Active Airmen</u>	
	Male	Female	Male	Female	Male	Female	Male	Female
Valid For Student Pilot Purposes Only	7	-	106	2	2,971	167	3,084	169
Second Class Privileges Limited To Cargo Operations	-	-	-	-	-	-	-	-
Issued on Basis of Demonstrated Medical Fitness	-	-	-	-	-	-	-	-
Time Limitation Restrictions	244	-	1,206	18	2,193	99	3,643	117
Panel Restrictions	19	-	94	1	378	2	491	3
Miscellaneous Restrictions	103	-	605	15	504	24	1,212	39
TOTAL	20,096	106	102,317	2,503	144,606	10,715	267,019	13,324

*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.

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 1971

<u>Class Issued</u>	<u>Frequency</u>	
	<u>Male</u>	<u>Female</u>
First	520	-
Second	3,553	5
Third	9,528	26
TOTAL	13,601	31

*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.

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 1971

Class Issued	Frequency	
	Male	Female
First	2,687	19
Second	18,861	575
Third	11,217	1,040
TOTAL	32,765	1,634

*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.

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 1971

Waiver Cause Code	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
A - External Eye Problem	31	-	215	5	152	10	398	15
B - Internal Eye Problem	15	-	50	1	52	1	117	2
C - Glaucoma	-	-	3	-	1	-	4	-
D - Deficient Distant Vision	965	7	10,392	327	2,393	77	13,750	411
E - Deficient Near Vision	-	-	15	-	9	-	24	-
F - Deficient Color Vision	438	-	1,831	2	1,608	7	3,877	9
G - Contact Lenses	375	7	2,185	165	3,383	840	5,943	1,012
H - Field of Vision (Visual Field Deficiency)	3	-	9	1	7	-	19	1
I - Deficient Hearing	303	3	958	6	308	8	1,569	17
J - Ear	1	-	3	-	1	-	5	-
K - Nose	-	-	-	-	-	-	-	-
L - Throat	-	-	1	-	1	-	2	-
M - Mute	-	-	-	-	5	-	5	-
N - Respiratory System	-	-	3	-	2	-	5	-
O - Heart Disease, General	-	-	6	-	1	-	7	-
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 1971

Waiver Cause Code	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
T - Abdominal	-	-	-	-	-	-	-	-
U - Neurological	2	-	14	-	47	2	63	2
V - Mental and Nervous	-	-	1	-	-	-	1	-
W - Bone and Joint	15	-	73	1	127	3	215	4
X - Muscles	10	-	44	1	129	4	183	5
Y - Miscellaneous Conditions	21	-	85	-	223	3	329	3
Z - Malignancy	-	-	2	-	2	-	4	-
1 - Amputation	18	-	93	1	192	-	303	1
TOTAL	2,197	17	15,986	510	8,643	955	26,826	1,482

*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.

