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1968

AEROMEDICAL CERTIFICATION STATISTICAL HANDBOOK

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

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SYMBOLS

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

FOR ADDITIONAL INFORMATION ON DATA PRESENTED, please consult the documents and/or reports, or contact the office, indicated in the source notes to the tables and figures covering the desired subject.

SECTION I

AVIATION MEDICAL EXAMINER INFORMATION

This section reflects the activities of the Aviation Medical Examiner Program during calendar year 1968, 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 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
1966-1968

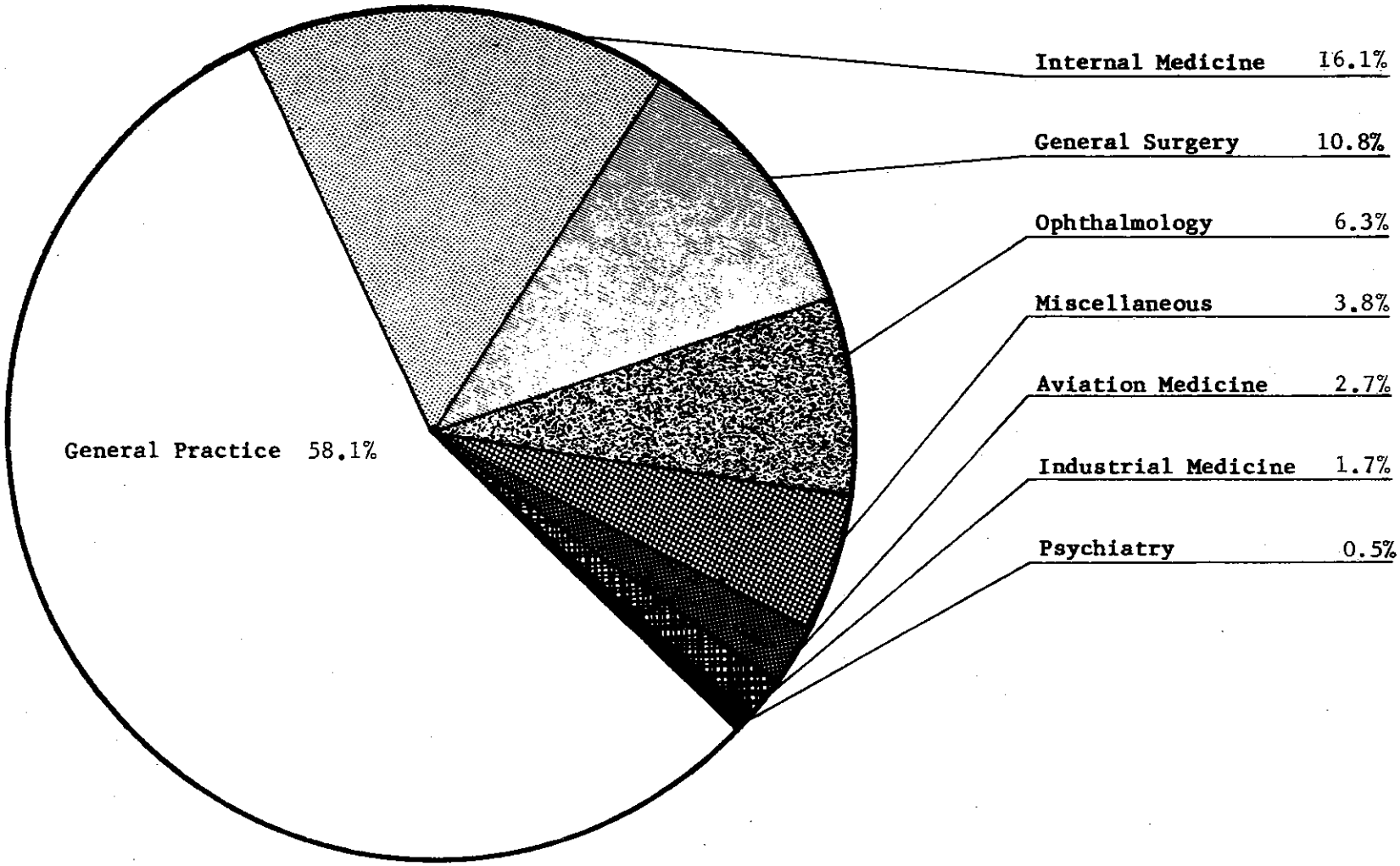
Region	Aviation Medical Examiners 1968	1967	1966
Eastern	1,460	1,460	1,452
Southern	844	814	761
Central	1,504	1,452	1,364
Southwestern	776	763	726
Western	1,483	1,426	1,370
Alaskan	63	58	52
Pacific	46	42	38
SUBTOTAL	6,176	6,015	5,763
Military*	674	672	693
International	252	211	170
TOTAL	7,102	6,898	6,626

*Denotes military installation designations rather than individual physicians.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section; RIS: AC 8520-1, Designated FAA Aviation Medical Examiners by Region and State.

Figure I.B

MEDICAL PRACTICE OF AVIATION MEDICAL EXAMINERS*
1968



*Based on United States and international aviation medical examiners; military is 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 PHYSICIANS
1968

Region	Active U.S. Civil Airman Population*	U.S. Non-Military AME Population*	Ratio AME'S To Airmen	Civilian Population**	Non-Federal Physician Population (M.D.&D.O.)***	Ratio Non-Federal Physicians To Civ. Population
Eastern	136,998	1,460	1:94	72,730,000	125,562	1:579
Southern	73,523	844	1:87	30,097,000	32,458	1:927
Central	142,339	1,504	1:95	45,120,000	59,842	1:754
Southwestern	70,617	776	1:91	19,669,000	22,330	1:881
Western	145,862	1,483	1:98	29,812,000	51,087	1:584
Alaskan	5,060	63	1:80	238,000	177	1:1,345
Pacific	1,692	46	1:37	684,000	1,002	1:683
TOTAL	576,091	6,176	1:93	198,350,000	292,458	1:678

*Active U.S. Civil Airman and U.S. Non-Military AME Population figures are as of December 31, 1968. RIS: AC 8065-4, Examination Time Period Summary and AC 8520-1, Designated FAA Aviation Medical Examiners by Region and State.

**Civilian Population figures are as of July 1, 1967. U. S. Bureau of the Census Population Estimates, Series P-25. Does not include U. S. outlying areas.

***Non-Federal Physician Population (M.D. & D.O.) figures are as of December 31, 1967. Health Resources Statistics; Reported from the National Center for Health Statistics (1968). Does not include U. S. outlying areas.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section and Aeromedical Certification Branch, Medical Statistical Section; Department of Health, Education and Welfare, Public Health Service, Health Manpower Statistics Branch.

Table I.D

DATE, LOCATION, AND ATTENDANCE AT
AVIATION MEDICAL EXAMINER SEMINARS
1968

Date	Location	Attendance
February 7-9	San Francisco, California	95
June 26-28	Oklahoma City, Oklahoma	86
August 12-14	Atlanta, Georgia	112
September 12-14	Chicago, Illinois	107
November 18-20	Phoenix, Arixona	153
TOTAL		553

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

Table I.E

AVIATION MEDICAL EXAMINER
SEMINARS AND ATTENDANCE
1960-1968

Year	Seminars	Attendance
1960	1	49
1961	16	1,030
1962	24	1,433
1963	13	1,152
1964	9	1,406
1965	10	1,595
1966	7	1,186
1967	11	1,281
1968	5	553
TOTAL	96	9,685

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

Table I.F

ACTIVE AVIATION MEDICAL EXAMINERS
SEMINAR ATTENDANCE BY REGION*
1968

Region	Total AME'S	One Seminar	More Than One Seminar	No Participation At Seminars
Eastern	1,460	430	687	343
Southern	844	290	398	156
Central	1,504	515	728	261
Southwestern	776	339	351	86
Western	1,483	467	816	200
Alaskan	63	23	23	17
Pacific	46	25	5	16
TOTAL	6,176	2,089	3,008	1,079

*Training data are obtained from computer listings of U. S. Non-Military aviation medical examiners.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section; RIS: AC 8520-2, AME Worklist by State.

Table I.G

PHYSICAL EXAMINATIONS PERFORMED BY
U.S. AND INTERNATIONAL AVIATION MEDICAL EXAMINERS*
1968

Examinations Performed	Total AME'S	Percent Of Total	Total Examinations Performed	Percent Of Total
0	232	3.6	-	-
1-14	2,324	36.2	16,124	5.5
15-29	1,431	22.3	30,310	10.3
30-49	972	15.1	37,199	12.7
50-99	844	13.1	57,942	19.7
100-299	504	7.8	81,305	27.7
300-599	80	1.2	32,307	11.0
600-999	31	0.5	23,269	7.9
1000-1999	7	0.1	8,754	3.0
2000 and over	3	0.0	6,366	2.2
TOTAL	6,428	100.0	293,576	100.0

*Figures do not include examinations performed by military examiners at military installations.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section; RIS: AM 9320-4, AME Performance Summary.

Table I.H

REGIONAL ACTIVITIES OF THE
AVIATION MEDICAL EXAMINER PROGRAM*
1968

Region	Number of AME'S Designated 1967	New Designations	Separations	Net Gain	Number of AME'S Designated 1968
Eastern	1,460	117	117	-	1,460
Southern	814	88	58	30	844
Central	1,452	119	67	52	1,504
Southwestern	763	63	50	13	776
Western	1,426	127	70	57	1,483
Alaskan	58	10	5	5	63
Pacific	42	6	2	4	46
International	211	49	8	41	252
TOTAL	6,226	579	377	202	6,428

*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.

Table I.I

AVIATION MEDICAL EXAMINER SUMMARY DATA
1968

A.	Number of Designated U. S. Non-Military Aviation Medical Examiners	6,176
B.	Number of Designated International Aviation Medical Examiners	252
C.	Number of Designated Military Aviation Medical Examiners (Installations)	674
D.	Ratio of U. S. Non-Military Aviation Medical Examiners to U. S. Civil Airmen	1:93
E.	Ratio of Non-Federal Physicians to Civilian Population	1:678
F.	Ratio of U. S. Civil Airmen to Civilian Population	1:344
G.	Percentage of U. S. Non-Military Aviation Medical Examiners Who Are Qualified Pilots	42%*
H.	Percentage of U. S. Non-Military Aviation Medical Examiners Who Were Military Flight Surgeons	16%*
I.	Percentage of U. S. Non-Military Aviation Medical Examiners Who Participate in Accident Investigation	75%*
J.	Percentage of U. S. Non-Military Aviation Medical Examiners Who Have Attended One Seminar	83%*
K.	Percentage of U. S. Non-Military Aviation Medical Examiners Who Have Attended More Than One Seminar	34%*
L.	Percentage of U. S. Non-Military Aviation Medical Examiners Who Have Not Attended a Seminar	17%*
M.	Total Number of Seminars Conducted in 1968	5
N.	Total Attendance of Aviation Medical Examiners at Seminars Conducted in 1968	553

*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

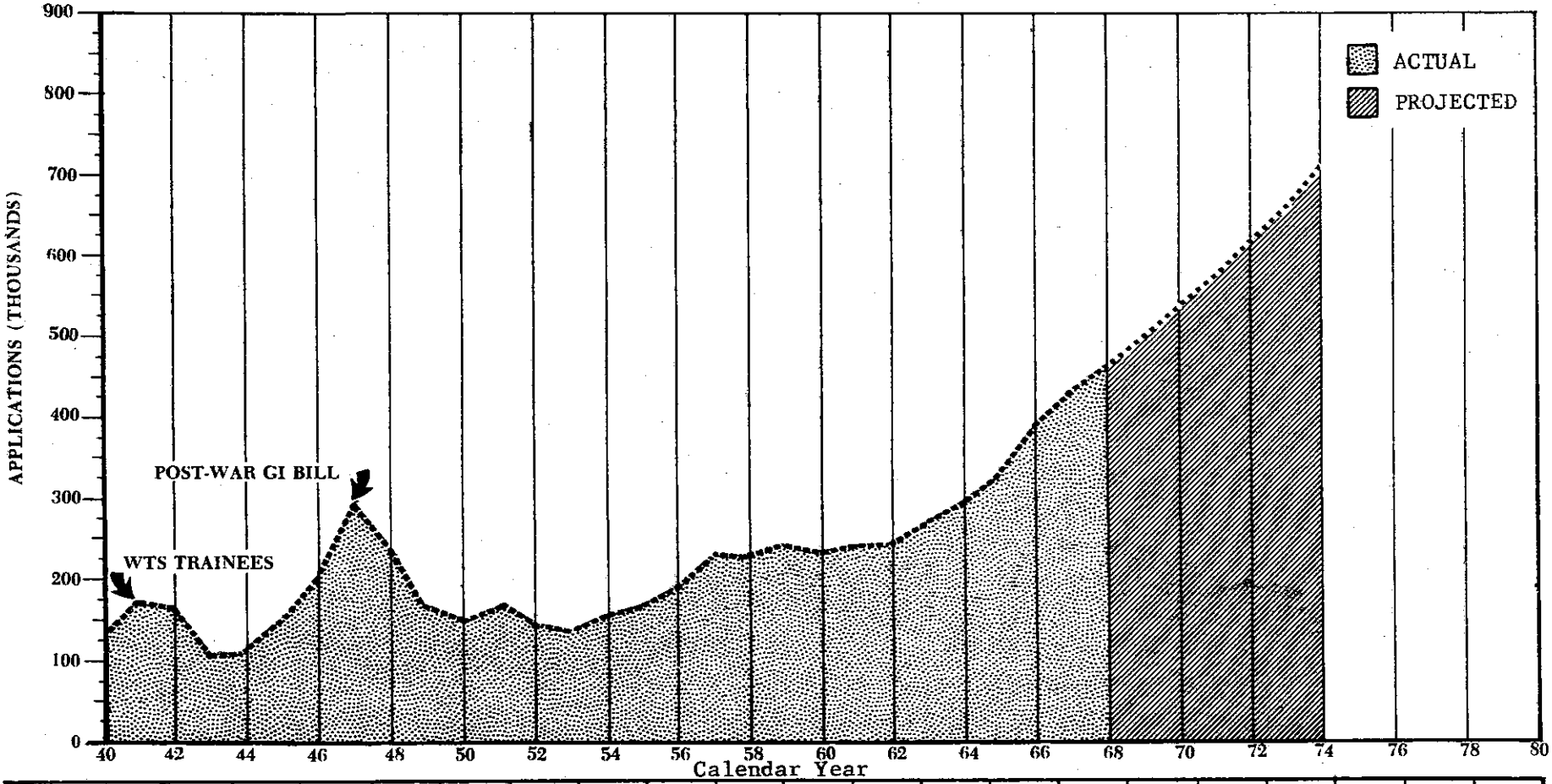
CERTIFICATION ACTIVITY

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

Data are presented by calendar year and reflect workload in the certification area.

Figure II.A

AIRMAN APPLICATIONS FOR MEDICAL CERTIFICATION
1940-1968 (Projected to 1974)



YEAR	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
APPLICATIONS	172.2	161.6	102.7	113.8	154.6	202.1	289.6	233.4	162.5	152.9	168.5	145.7	139.4	156.8	169.9	196.6	228.1	227.0	244.4	228.4
1/ PERCENTAGE	+28.2	−6.2	−36.4	+10.8	+35.8	+30.7	+43.3	−19.4	−30.4	−5.9	+10.2	−13.5	−4.4	+12.5	+8.4	+15.7	+16.0	−0.4	+7.7	−6.6
YEAR	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
APPLICATIONS	239.6	248.3	270.4	296.0	330.6	387.5	427.6	465.9	498.3	534.7	573.8	615.7	660.7	709.0						
1/ PERCENTAGE	+4.9	+3.6	+8.9	+9.4	+12.2	+17.2	+10.3	+9.0	+7.3	+7.3	+7.3	+7.3	+7.3	+7.3						

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*
1960-1968

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

*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 1968 were based on the percentages compiled from the Record of Physical Examinations Computer Submission Summary Report (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
1968

Month	Applications Received	Applications Coded For Computer Screening	Applications Screened by Computer*	Applications Requiring Manual Review	Applications Intra-Agency Transmitted**
January	35,677	35,302	34,878	11,641	377
February	34,052	32,127	32,220	10,973	291
March	39,500	40,800	37,642	13,191	440
April	40,600	38,800	47,804	15,889	397
May	40,800	41,400	43,015	14,619	352
June	41,000	41,200	36,708	14,419	292
SUBTOTAL	231,629	229,629	232,267	80,732	2,149
July	44,400	41,500	48,744	18,075	317
August	41,800	45,000	48,561	16,467	298
September	40,100	38,400	38,519	14,482	265
October	43,500	46,500	49,640	17,873	345
November	33,100	33,500	34,315	11,852	250
December	31,400	30,000	33,595	12,221	242
SUBTOTAL	234,300	234,900	253,374	90,970	1,717
TOTAL	465,929	464,529	485,641	171,702	3,866

*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
1968

Activity	Frequency
Certification	
Issued, Corrected or Duplicate Certificates	4,732
Eligibility Letters	15,764
Issued or Duplicate Waivers	6,810
Further Action Necessary	
Information Requested	16,389
Medical Flight Test Authorization	1,235
Case Summary for the Federal Air Surgeon	267
Information Requested from the Branch	
Telegram Replies to Airmen/Agency Offices	602
Replies to Insurance Companies	684
Initial Denial Letters	3,289
Miscellaneous Correspondence*	13,712

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

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

Table II.E

AEROMEDICAL CERTIFICATION BRANCH COMPUTER TAPE FILE SUMMARY
As Of: December 31, 1968

Action	Time Lapse Since Date of Last Examination						
	<7 Month	<13 Month	<25 Month	Subtotal	25-36 Month	Over 36 Month	Total
Certified							
First Class	45,009	21,263	12,477	78,749	7,811	N/A	86,560
Second Class	84,179	78,536	61,247	223,962	29,247	N/A	253,209
Third Class	110,985	86,273	184,177	381,435	93,078	N/A	474,513
SUBTOTAL	240,173	186,072	257,901	684,146	130,136	N/A	814,282
Non-Certified							
Pending	677	156	174	1,007	152	N/A	1,159
Denied	1,910	1,643	3,049	6,602	3,112	N/A	9,714
SUBTOTAL	2,587	1,799	3,223	7,609	3,264	N/A	10,873
Link*	N/A	N/A	N/A	N/A	N/A	103,712	103,712
TOTAL	242,760	187,871	261,124	691,755	133,400	103,712	928,867

EFFECTIVE STATUS TOTAL:** CLASS 1 = 45,009 CLASS 2 = 183,978 CLASS 3 = 455,159

*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.

**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.

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

Table II.F

MEDICAL CERTIFICATION ACTIVITY SUMMARY
1966-1968

Activity	CY 1968	CY 1967	CY 1966
Applications for Medical Certification	465,929	427,596	387,537
New Applications for First Class Medical Certificates*	4,507	6,004	8,226
New Applications for Second Class Medical Certificates*	22,807	18,425	18,690
New Applications for Third Class Medical Certificates*	82,677	83,203	81,957
Electrocardiograms Received for First Class Pilots	21,991	21,729	18,802
Incoming Correspondence**	66,615	50,282	43,499
Outgoing Correspondence	63,484	57,928	47,190
Applications Containing Medical or Clerical Problems	171,702	150,011	131,359
Number of Abnormalities Detected in Electrocardiograms	4,924	6,432***	3,907
Number of First Class Active Airmen With Pathology Records	10,562	10,028	---
Number of Second Class Active Airmen With Pathology Records	38,894	34,433	---
Number of Third Class Active Airmen With Pathology Records	55,668	55,257	---

*An application receipt is considered a "new application" if the airman has made no indication of previous FAA physical examination and if the total flying time equals the last six months flying time. In 1968, 1,231 or 1.1% new applications were denied, 1,758 or 1.6% were pending, and 107,002 or 97.3% were issued for a total of 109,991 new applications.

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

***The significant increase in abnormalities detected on ECGs in 1967 was largely due to an effort to update applications received prior to 1967 with appropriate critical ECG codes which were being dropped by the computer process prior to that time.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run; AC 8500-3, Record of Physical Examinations Computer Submissions Summary Report; AC 8065-3, Aeromedical Certification Processing Summary.

SECTION III

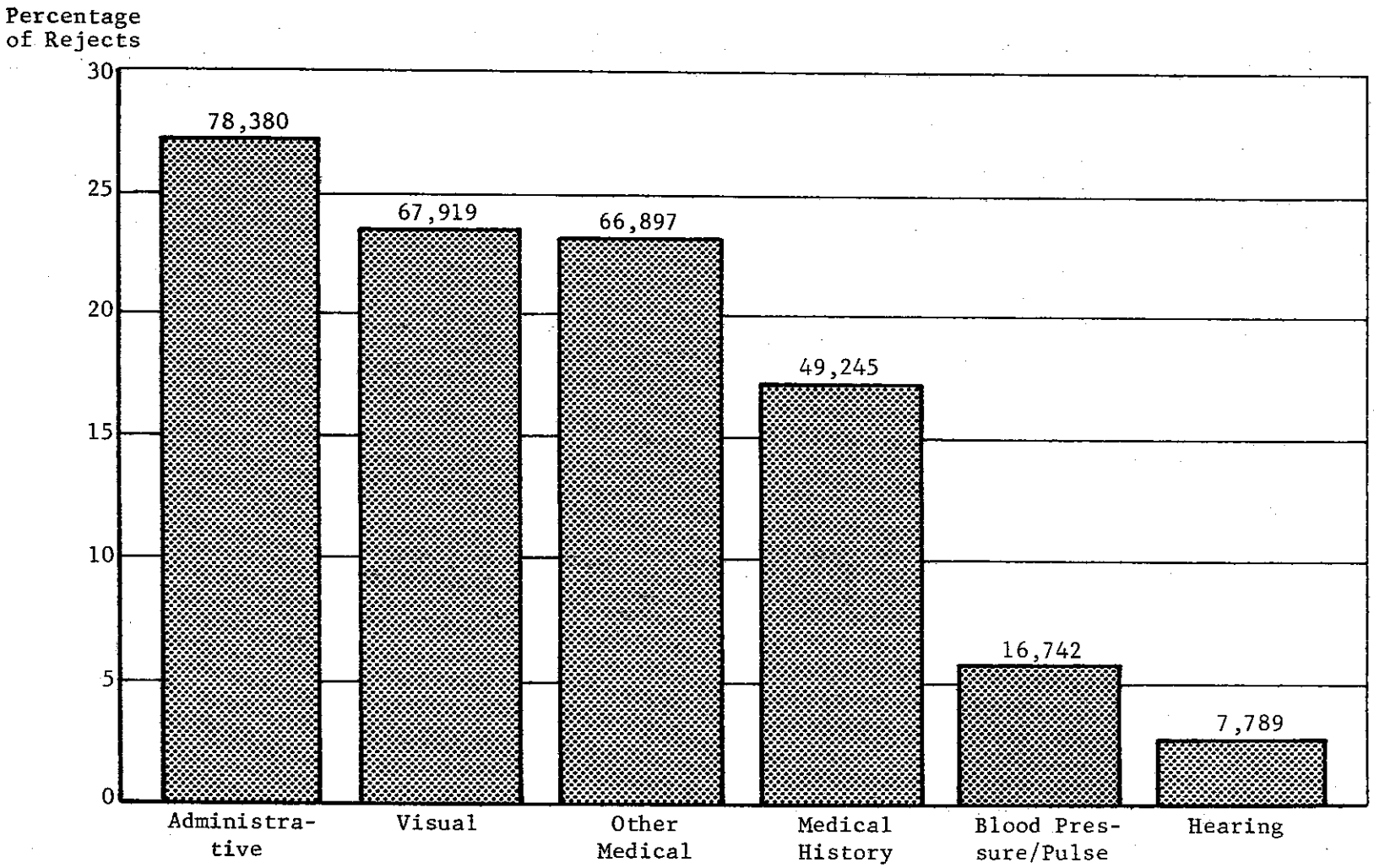
REFERRALS AND DENIALS

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 Administrator of the Federal Aviation Administration.

Figure III.A

COMPUTER REJECT PATTERN
1968



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

Table III.B

COMPUTER REJECT PATTERN
1968

Reject	Major Category Totals	Percent	Minor Categories	Percent
Administrative	78,380	27.3		
First Class by Military			190	0.1
Matches Link Record			4,689	1.6
Special Case			634	0.2
Previous Pending			3,530	1.2
Clerical Reject			8,148	2.8
Class Issued Higher Than Applied For			1,630	0.6
First Class Over 60 Years of Age			317	0.1
Coded Previous Waiver			9,329	3.2
Re-Submit Exam to Computer			5,986	2.1
Date of ECG for First Class Exams			7,447	2.6
State Code			2,455	0.9
Date of Examination			725	0.3
No Match Between New and Previous Exams			14,273	5.1
Follow-Up Material Requested			429	0.1
Discrepancy in Pathology Data*			4,446	1.5
Other			14,152	4.9
Visual	67,919	23.7		
Distant Vision			22,649	7.9
Near Vision			14,137	4.9
Intraocular Tension			5,117	1.8
Field of Vision			4,347	1.5
Color Vision			6,300	2.2
Variation in Distant Vision			7,819	2.7
Esophoria and Exophoria			6,220	2.2
Right or Left Hyperphoria			1,330	0.5
Other Medical Conditions	66,897	23.3		
Denied or Pending			11,136	3.9
Urinalysis			5,870	2.0
Pathology Codes			13,512	4.7
Abnormalities (Items 25-48)			14,747	5.1
Medication			21,632	7.6
Medical History	49,245	17.2		
Previous Denial Indicated			4,448	1.5
Medical History			43,281	15.2
Previous Exam on Tape Denied			994	0.3
Previous Exemption Case			319	0.1
New Exemption Case			203	0.1
Blood Pressure/Pulse	16,742	5.8		
Blood Pressure			5,241	1.8
Pulse			11,501	4.0
Hearing	7,789	2.7		
Hearing			7,789	2.7
TOTAL REJECT CARDS	286,972	100.0		

*This edit was implemented in August 1968.

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
1961-1968

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
TOTAL	1,117	3,271	4,388

*Incomplete figures for January through March 1961.

**1967 and 1968 figures include only reconsideration actions. They do not include opinions and/or other decisions rendered by the Federal Air Surgeon.

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

Table III.D

RECONSIDERATION ACTIONS BY THE
FEDERAL AIR SURGEON*
1968

Pathology	First Class	Second Class	Third Class	Total
Issued				
Eye	4	8	5	17
Ear, Nose, Throat	-	-	-	-
Respiratory	-	1	-	1
Cardiovascular	12	8	20	40
Abdominal	1	1	1	3
Nervous/Mental	10	6	22	38
Bone/Joint	-	-	-	-
Muscles	-	-	1	1
Miscellaneous	-	-	6	6
TOTAL	27	24	55	106
Denied				
Eye	2	5	3	10
Ear, Nose, Throat	-	1	2	3
Respiratory	-	-	3	3
Cardiovascular	16	25	72	113
Abdominal	2	-	11	13
Nervous/Mental	23	28	56	107
Bone/Joint	1	-	2	3
Muscles	1	-	1	2
Miscellaneous	5	3	11	19
TOTAL	50	62	161	273

*Figures include only reconsideration actions. They do not include opinions and/or other decisions rendered by the Federal Air Surgeon.

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

Table III.E

RECONSIDERATION ACTIONS BY THE
FEDERAL AIR SURGEON*
1963-1968

Pathology	First Class	Second Class	Third Class	Total
Issued				
Eye	47	111	122	280
Ear, Nose, Throat	3	1	9	13
Respiratory	2	6	12	20
Cardiovascular	47	60	128	235
Abdominal	2	10	19	31
Nervous/Mental	32	35	139	206
Bone/Joint	2	4	7	13
Muscles	-	1	4	5
Miscellaneous	3	11	41	55
TOTAL	138	239	481	858
Denied				
Eye	63	212	127	402
Ear, Nose, Throat	4	5	9	18
Respiratory	6	9	45	60
Cardiovascular	123	226	779	1,128
Abdominal	12	15	63	90
Nervous/Mental	93	164	430	687
Bone/Joint	1	5	16	22
Muscles	2	3	9	14
Miscellaneous	26	56	192	274
TOTAL	330	695	1,670	2,695

*Figures include only reconsideration actions. They do not include opinions and/or other decisions rendered by the Federal Air Surgeon.

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

Table III.F

PETITIONS GRANTED OR DENIED BY
THE ADMINISTRATOR*
1968

Pathology	First Class	Second Class	Third Class	Total
Granted				
Eye	-	1	3	4
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	-	-
Cardiovascular	1	13	59	73
Abdominal	-	-	-	-
Nervous/Mental	1	3	15	19
Bone/Joint	1	1	-	2
Muscles	-	-	-	-
Miscellaneous	-	-	1	1
TOTAL	3	18	78	99
Denied				
Eye	-	1	-	1
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	-	-
Cardiovascular	16	32	118	166
Abdominal	-	-	2	2
Nervous/Mental	15	19	57	91
Bone/Joint	-	-	2	2
Muscles	-	-	-	-
Miscellaneous	2	5	25	32
TOTAL	33	57	204	294

*Counts are based on number of petitions considered rather than the number of airmen petitioning.

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

Table III.G

PETITIONS GRANTED OR DENIED BY
THE ADMINISTRATOR*
1961-1968

Pathology	First Class	Second Class	Third Class	Total
Granted				
Eye	10	20	28	58
Ear, Nose, Throat	-	1	-	1
Respiratory	-	-	4	4
Cardiovascular	7	45	346	398
Abdominal	2	-	6	8
Nervous/Mental**	1	15	86	102
Bone/Joint	1	1	1	3
Muscles	-	-	-	-
Miscellaneous	-	2	9	11
TOTAL	21	84	480	585
Denied				
Eye	8	60	22	90
Ear, Nose, Throat	-	1	-	1
Respiratory	3	1	10	14
Cardiovascular	136	236	642	1,014
Abdominal	3	5	16	24
Nervous/Mental	64	110	271	445
Bone/Joint	1	4	6	11
Muscles	-	-	2	2
Miscellaneous	13	20	120	153
TOTAL	228	437	1,089	1,754

*Counts are based on number of petitions considered rather than the number of airmen petitioning. Does not include six AM-1 grants.

**Subsequent to distribution of the 1967 Statistical Handbook, one third class petition was granted for a Nervous/Mental condition.

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

Table III.H

STATUS OF AIRMEN WHO HAVE BEEN
GRANTED EXEMPTIONS*
1961-1968

Status of Airmen	Number of Airmen
Exemptions Have Been Granted	577
Are Currently Active Airmen	340
Have Died	14
Grant Terminated:	
Adverse Change in Condition or Failed to Furnish Required Information	31
Currently Meets Medical Standards - Grant No Longer Necessary	18
For Various Personal Reasons Have Not Validated Their Grants	174

*Although airmen may have been granted more than one exemption, they have only been counted once. There are fourteen airmen who have been granted two exemptions each. This figure also includes six AM-1 grants.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch.

SECTION IV

GENERAL AIRMAN POPULATION DATA

This section reflects general data concerning the active airman population. The data presented are as of December 31, 1968, 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. Chart IV.A presents data by "effective status" of medical certification. This refers to the time lapse since the certificate was issued as opposed to the class issued. Present FAA regulations stipulate that air transport pilots must be first class medically certified at six month intervals, commercial pilots must be second class medically certified annually, and general aviation airmen must obtain third class medical certification every two years. Thus, an airman may be first or second class medically certified and the time lapse since examination would reduce the "effective status" to a lesser class.

Table IV.A

REGIONAL DISTRIBUTION OF ACTIVE AIRMEN BY CLASS OF CERTIFICATE AND EFFECTIVE STATUS*
As Of: December 31, 1968

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	Effective Status (Class)**		
		1	2	3		2	3		3		1	2	3
Eastern	18,750	11,330	4,900	2,520	34,102	25,226	8,876	84,146	84,146	136,998	11,330	30,126	95,542
Southern	12,842	7,026	3,476	2,340	19,737	14,286	5,451	40,944	40,944	73,523	7,026	17,762	48,735
Central	13,385	7,592	3,791	2,002	32,866	24,440	8,426	96,088	96,088	142,339	7,592	28,231	106,516
Southwestern	7,179	4,202	2,084	893	20,956	15,753	5,203	42,482	42,482	70,617	4,202	17,837	48,578
Western	22,572	12,704	5,957	3,911	40,728	29,040	11,688	82,562	82,562	145,862	12,704	34,997	98,161
Alaskan	407	211	144	52	1,722	1,339	383	2,931	2,931	5,060	211	1,483	3,366
Pacific	473	256	144	73	603	506	97	616	616	1,692	256	650	786
U. S. TOTAL	75,608	43,321	20,496	11,791	150,714	110,590	40,124	349,769	349,769	576,091	43,321	131,086	401,684
Military***	32	19	5	8	71,090	50,627	20,463	28,429	28,429	99,551	19	50,632	48,900
International	3,109	1,669	762	678	2,158	1,498	660	3,237	3,237	8,504	1,669	2,260	4,575
TOTAL	78,749	45,009	21,263	12,477	223,962	162,715	61,247	381,435	381,435	684,146	45,009	183,978	455,159

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

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

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

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

Table IV.B

ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED*
As Of: December 31, 1968

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Alabama	426	1	1,919	38	4,315	313	6,660	352
Alaska	406	3	1,707	38	2,728	288	4,841	329
Arizona	666	5	2,259	73	4,656	414	7,581	492
Arkansas	185	2	1,567	23	2,892	208	4,644	233
California	15,522	64	23,241	648	45,664	3,915	84,427	4,627
Colorado	2,269	15	3,627	76	5,409	482	11,305	573
Connecticut	1,606	5	1,717	43	4,191	285	7,514	333
Delaware	172	-	333	7	838	51	1,343	58
District of Columbia	132	1	222	6	448	60	802	67
Florida	7,465	23	7,689	174	12,572	1,127	27,726	1,324
Georgia	2,956	4	3,086	34	6,321	379	12,363	417
Hawaii	467	11	594	16	567	68	1,628	95
Idaho	190	-	975	16	2,087	146	3,252	162
Illinois	4,257	5	6,320	159	17,345	1,119	27,922	1,283
Indiana	827	2	3,087	84	9,445	637	13,359	723
Iowa	281	2	2,092	37	7,211	417	9,584	456
Kansas	1,046	7	3,046	66	7,724	668	11,816	741
Kentucky	234	1	1,227	23	3,070	169	4,531	193
Louisiana	747	2	2,736	30	4,141	266	7,624	298
Maine	122	-	541	4	1,453	69	2,116	73
Maryland	766	4	1,662	33	4,302	299	6,730	336
Massachusetts	1,651	13	2,441	68	5,098	375	9,190	456
Michigan	1,269	6	4,422	113	14,178	853	19,869	972
Minnesota	2,650	4	3,358	41	8,749	478	14,757	523
Mississippi	160	2	1,312	21	2,870	179	4,342	202
Missouri	1,811	1	3,446	87	8,384	636	13,641	724
Montana	172	1	1,314	23	2,740	226	4,226	250

ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED*
As Of: December 31, 1968

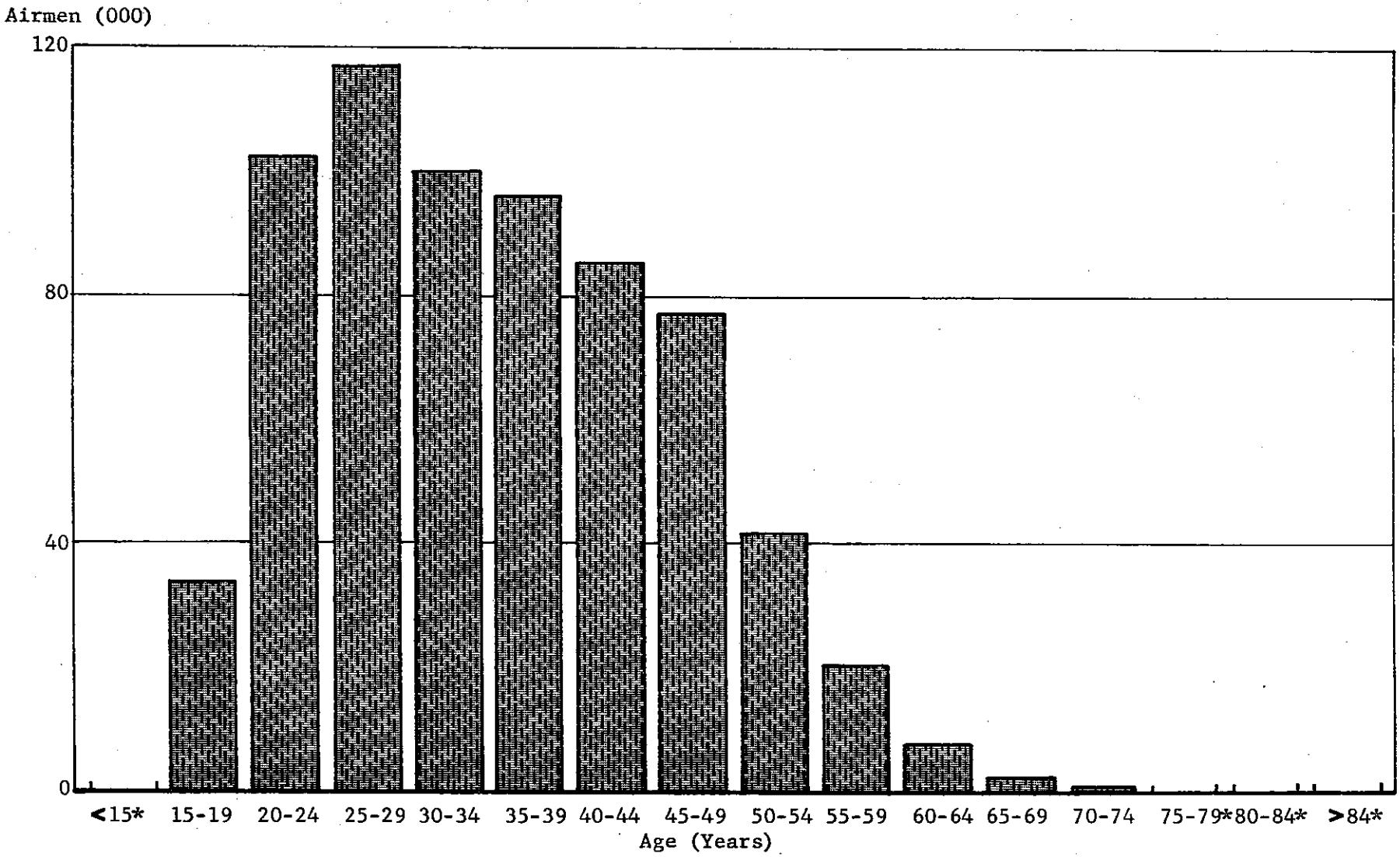
State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Nebraska	184	2	1,387	23	3,971	274	5,542	299
Nevada	268	-	1,059	18	1,566	150	2,893	168
New Hampshire	423	1	668	16	959	68	2,050	85
New Jersey	3,318	8	3,131	59	7,986	498	14,435	565
New Mexico	178	-	1,508	28	2,929	268	4,615	296
New York	4,648	10	7,079	135	15,890	1,015	27,617	1,160
North Carolina	692	2	1,944	25	5,376	290	8,012	317
North Dakota	72	-	793	9	1,996	109	2,861	118
Ohio	1,572	9	5,926	123	16,083	1,024	23,581	1,156
Oklahoma	803	7	2,968	52	6,367	493	10,138	552
Oregon	431	2	2,575	46	5,307	397	8,313	445
Pennsylvania	1,885	6	4,493	70	11,383	737	17,761	813
Rhode Island	144	-	291	7	663	40	1,098	47
South Carolina	337	2	1,068	11	2,148	138	3,553	151
South Dakota	94	1	604	8	1,871	110	2,569	119
Tennessee	757	1	2,262	41	4,673	277	7,692	319
Texas	5,250	10	11,789	172	23,187	1,699	40,226	1,881
Utah	349	2	1,151	19	2,136	137	3,636	158
Vermont	67	-	255	8	564	52	886	60
Virginia	1,850	4	2,857	41	4,959	359	9,666	404
Washington	2,773	8	4,358	91	8,366	627	15,497	726
West Virginia	94	-	499	7	1,223	47	1,816	54
Wisconsin	699	2	2,324	35	6,601	417	9,624	454
Wyoming	72	1	516	14	1,172	90	1,760	105
U. S. CIVILIAN TOTAL	75,415	262	147,445	3,039	326,774	23,443	549,634	26,744
Military and NASA	107	-	71,161	462	27,738	971	99,006	1,433
International	2,951	14	1,821	34	2,392	117	7,164	165
TOTAL AIRMEN	78,473	276	220,427	3,535	356,904	24,531	655,804	28,342

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

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

Figure IV.C

AGE DISTRIBUTION OF MEDICALLY CERTIFIED AIRMEN
As Of: December 31, 1968

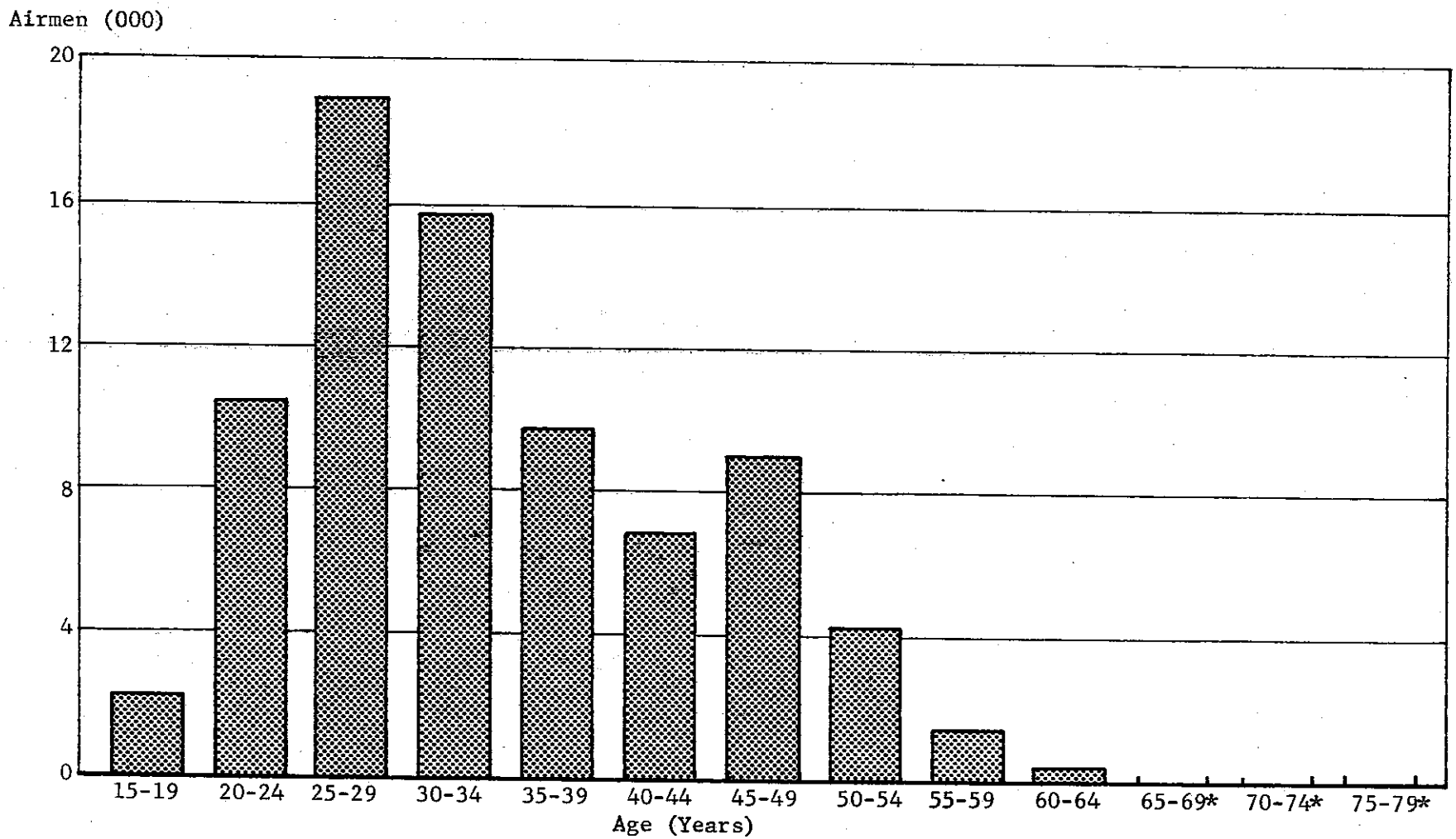


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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: December 31, 1968

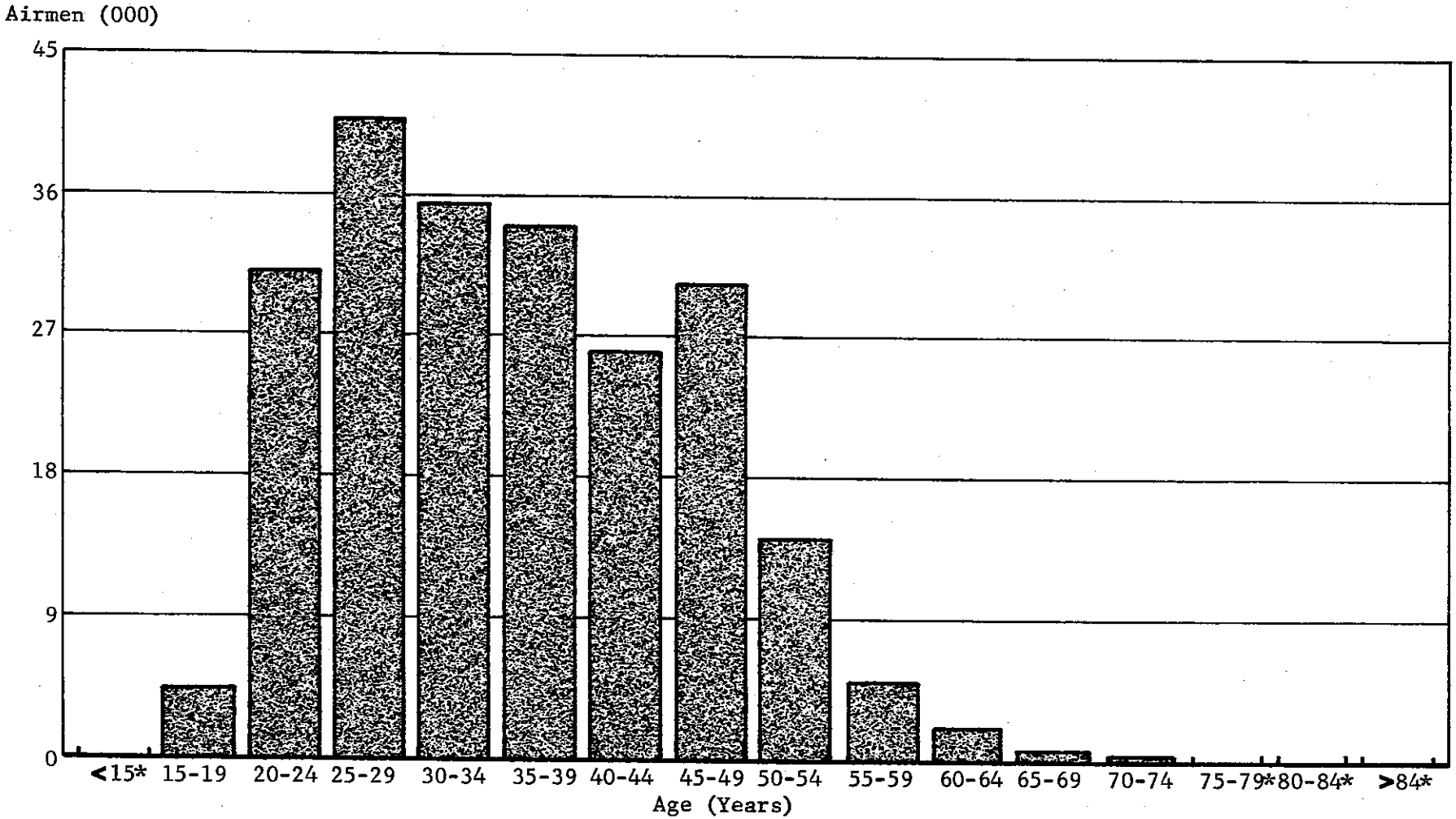


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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: December 31, 1968

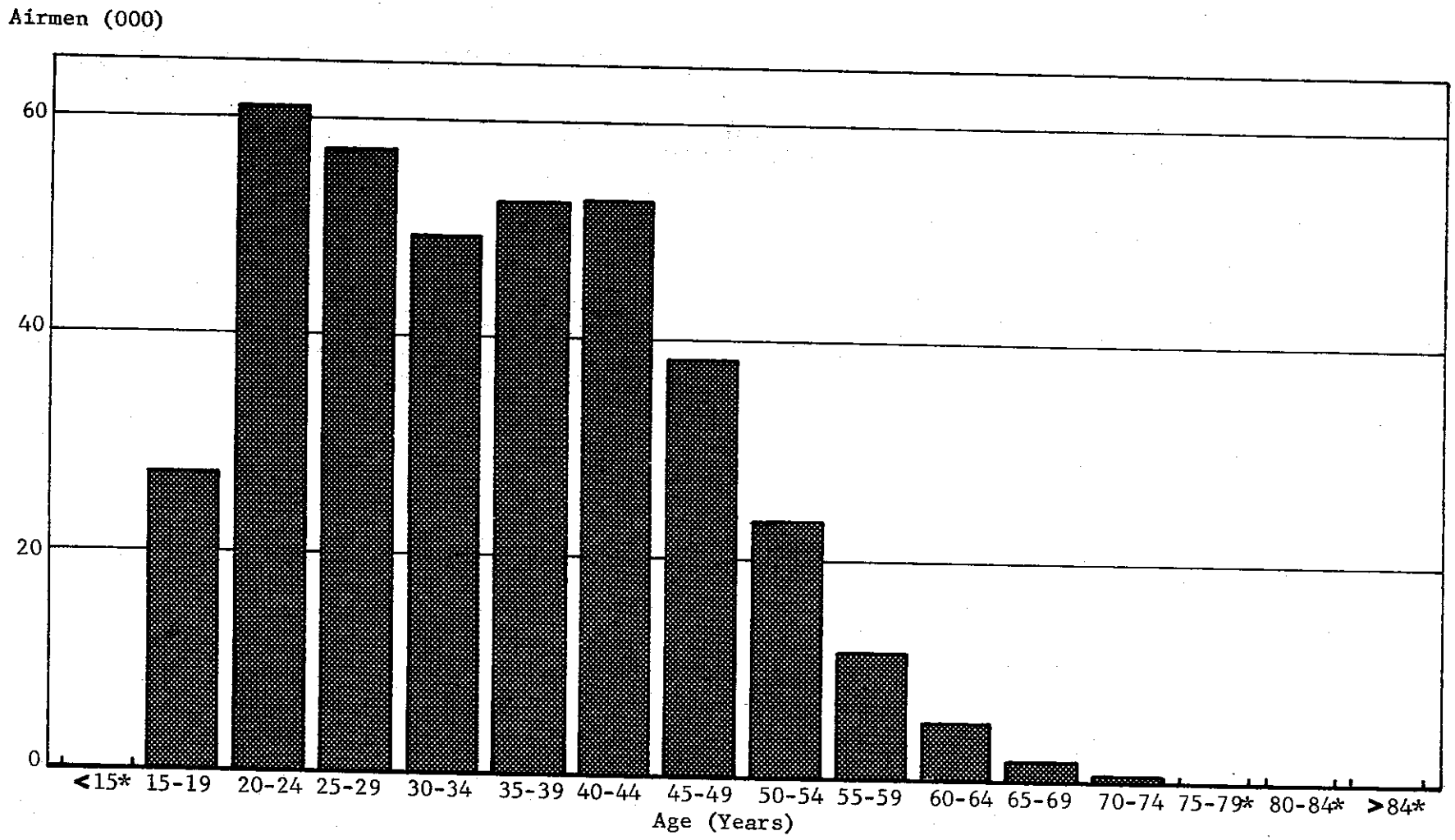


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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

Figure IV.F

AGE DISTRIBUTION OF MEDICALLY CERTIFIED THIRD CLASS AIRMEN
As Of: December 31, 1968



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

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

Table IV.G

AGE DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*
As Of: December 31, 1968

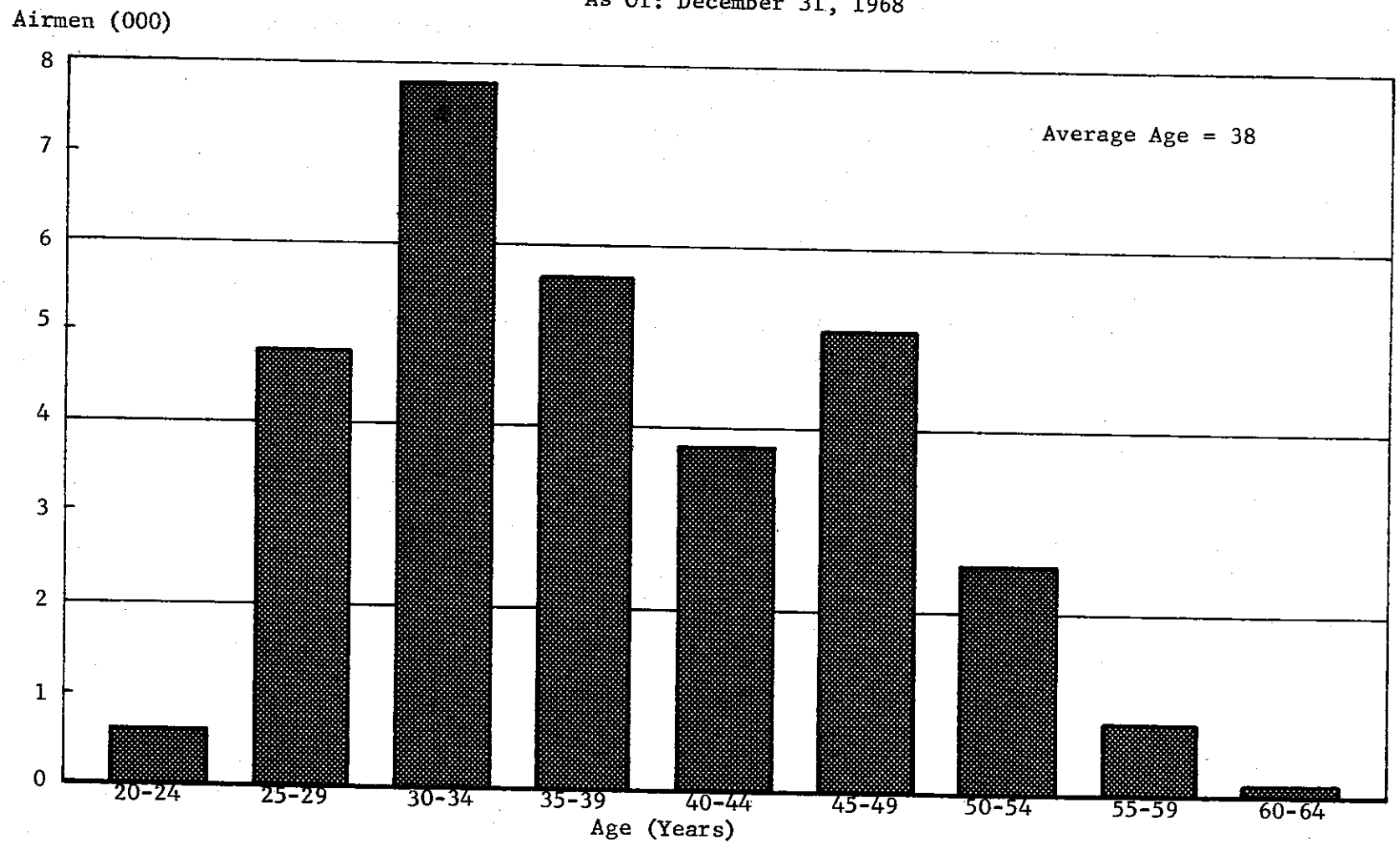
Age	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 15	-	-	3	-	23	3	26	3
15 - 19	2,167	18	4,157	198	25,122	2,191	31,446	2,407
20 - 24	10,363	62	30,475	569	56,722	4,158	97,560	4,789
25 - 29	18,810	55	40,346	482	52,878	4,306	112,034	4,843
30 - 34	15,668	40	34,953	435	45,674	3,608	96,295	4,083
35 - 39	9,666	21	33,535	451	48,977	3,514	92,178	3,986
40 - 44	6,790	40	25,406	497	49,801	3,004	81,997	3,541
45 - 49	8,955	23	29,906	439	36,070	2,045	74,931	2,507
50 - 54	4,207	10	13,842	263	22,500	1,095	40,549	1,368
55 - 59	1,389	6	4,895	123	11,385	394	17,669	523
60 - 64	402	1	2,033	62	5,135	149	7,570	212
65 - 69	49	-	676	14	1,827	44	2,552	58
70 - 74	6	-	170	1	627	14	803	15
75 - 79	1	-	23	-	140	5	164	5
80 - 84	-	-	5	1	21	1	26	2
85 and over	-	-	2	-	2	-	4	-
TOTAL	78,473	276	220,427	3,535	356,904	24,531	655,804	28,342

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

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

Figure IV.H

AGE DISTRIBUTION OF AIRLINE PILOTS
As Of: December 31, 1968



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: December 31, 1968

Age Group (1)	Airline Pilots (2)	Certified First Class Airmen** (3)	Percent of Total	
			Airline Pilots (4)	Certified First Class Airmen (5)
20 - 24	617	10,425	2.0	13.6
25 - 29	4,802	18,865	15.4	24.7
30 - 34	7,813	15,708	25.0	20.5
35 - 39	5,651	9,687	18.1	12.7
40 - 44	3,805	6,830	12.2	8.9
45 - 49	5,112	8,978	16.4	11.7
50 - 54	2,473	4,217	7.9	5.5
55 - 59	830	1,395	2.7	1.8
60 - 64	86	403	0.3	0.5
65 - 69	-	49	0.0	0.1
TOTAL	31,189	76,557	100.0	100.0

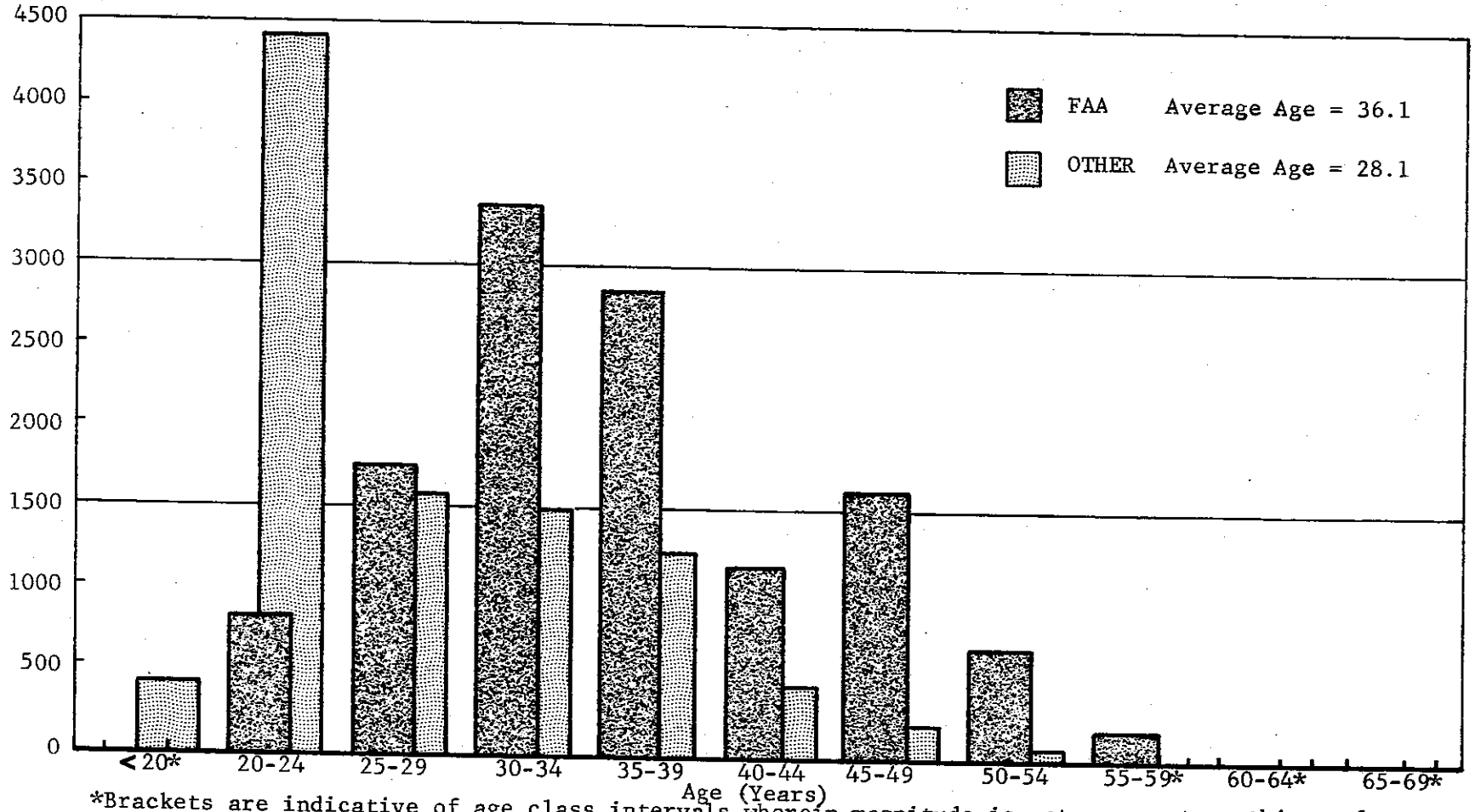
*Airline Pilots, Column (2), were determined by the combination of having a first class medical certificate and an occupation of "pilot for an airline". Figures in Column (3) are based on first class medical certificate issuance during the preceding 25 months.

**Extreme age groups were deleted to compare with age requirements for airline pilots. The age limit for airline pilots includes 60 years of age.

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

Figure IV.J

AGE DISTRIBUTION OF AIR TRAFFIC CONTROLLERS
As Of: December 31, 1968



*Brackets are indicative of age class intervals wherein magnitude is not apparent on this scale. Refer to accompanying table (Table IV.K) for frequency.

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: December 31, 1968

Age	FAA ATC'S	Other ATC'S
Less than 20	2	407
20 - 24	810	4,434
25 - 29	1,749	1,579
30 - 34	3,381	1,491
35 - 39	2,848	1,230
40 - 44	1,161	430
45 - 49	1,631	209
50 - 54	657	68
55 - 59	174	5
60 - 64	19	5
65 - 69	-	1
Over 69	-	-
TOTAL	12,432	9,859

*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: December 31, 1968

Height In Inches	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 59	326	7	881	44	1,365	260	2,572	311
59	100	1	285	14	433	116	818	131
60	146	4	409	83	653	732	1,208	819
61	52	11	186	107	379	924	617	1,042
62	57	27	196	328	595	2,648	848	3,003
63	62	27	336	417	966	2,925	1,364	3,369
64	195	33	1,229	551	2,517	3,889	3,941	4,473
65	511	45	2,681	551	5,300	3,770	8,492	4,366
66	1,749	45	7,647	570	13,641	3,655	23,037	4,270
67	4,166	33	13,287	377	22,463	2,612	39,916	3,022
68	7,914	25	23,713	260	38,437	1,633	70,064	1,918
69	9,300	6	26,424	130	40,742	746	76,466	882
70	12,511	7	34,618	54	56,144	325	103,273	386
71	11,996	3	33,353	22	53,993	136	99,342	161
72	13,839	2	36,189	16	55,511	76	105,539	94
73	6,637	-	17,059	2	27,744	20	51,440	22
74	5,248	-	12,517	-	19,846	22	37,611	22
75	2,307	-	5,461	4	8,841	13	16,609	17
Over 75	1,357	-	3,956	5	7,334	29	12,647	34
TOTAL	78,473	276	220,427	3,535	356,904	24,531	655,804	28,342

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

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

Table IV.M

WEIGHT DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*
As Of: December 31, 1968

Weight In Pounds	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 90	104	2	193	11	313	68	610	81
90 - 99	1	6	2	41	53	360	56	407
100 - 109	21	16	36	246	294	2,031	351	2,293
110 - 119	109	58	326	666	1,310	5,078	1,745	5,802
120 - 129	536	77	1,745	890	4,865	6,477	7,146	7,444
130 - 139	2,053	55	6,530	780	14,098	4,921	22,681	5,756
140 - 149	5,250	22	15,225	433	27,973	2,647	48,448	3,102
150 - 159	10,298	15	28,139	216	45,303	1,335	83,740	1,566
160 - 169	14,346	10	38,495	113	57,954	697	110,795	820
170 - 179	15,452	4	40,578	57	60,567	392	116,597	453
180 - 189	13,094	5	35,697	28	52,708	210	101,499	243
190 - 199	8,189	1	24,335	30	36,628	138	69,152	169
200 - 209	4,509	1	13,681	10	22,692	59	40,882	70
210 - 219	2,425	2	7,700	4	14,018	43	24,143	49
220 - 229	1,147	-	3,962	5	8,122	29	13,231	34
230 - 239	523	-	1,953	2	4,495	13	6,971	15
240 - 249	219	-	889	1	2,410	10	3,518	11
Over 249	197	2	941	2	3,101	23	4,239	27
TOTAL	78,473	276	220,427	3,535	356,904	24,531	655,804	28,342

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

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

Table IV.N

ACTIVE AIRMEN BY TYPE OF
FLYING AND CLASS*
As Of: December 31, 1968

Class Issued	Type of Flying**	
	Business	Pleasure
First	58,628	20,121
Second	82,540	141,422
Third	52,292	329,143
TOTAL	193,460	490,686

*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".

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

Table IV.0

AIRMEN BY OCCUPATION, CLASS AND SEX*
As Of: December 31, 1968

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)	32,908	7	284	2	29	1	33,221	10
2 - Flight Engineer	1,852	-	2,751	1	29	1	4,632	2
3 - Flight Navigator/Flight Radio Operator	52	-	434	-	11	-	497	-
4 - Business or Executive Pilot	9,434	21	135	2	19	2	9,588	25
5 - Commercial Pilot (Self-Employed)	26	-	2,560	36	29	2	2,615	38
6 - Commercial Pilot (Not Self-Employed)	97	-	8,576	56	23	-	8,696	56
7 - Aero Application (Agriculture)	59	-	1,815	-	16	-	1,890	-
8 - Air Traffic Controller	268	1	29,058	386	168	3	29,494	390
9 - Flight Instructor	2,590	38	3,382	174	10	2	5,982	214
0 - Other Aeronautical Occupation	1,132	-	2,894	9	2,173	6	6,199	15
X - Not Given or Non-Aeronautical Occupation	30,055	209	168,538	2,869	354,397	24,514	552,990	27,592
TOTAL	78,473	276	220,427	3,535	356,904	24,531	655,804	28,342

*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: December 31, 1968

Employer	First Class	Second Class	Third Class	Total
Airlift International	86	22	-	108
Airwest	205	3	3	211
Alaska Airlines	122	24	10	156
Alaska Coastal Airlines	8	9	2	19
Allegheny Airlines	511	18	12	541
Aloha Airlines	57	5	2	64
American Airlines	3,383	709	70	4,162
American Flyers Airlines Corp.	71	24	-	95
Bonanza Air Lines	257	9	9	275
Braniff Airways	1,189	40	12	1,241
Capitol International Airways	118	74	4	196
Caribbean Atlantic Airlines	21	6	1	28
Chicago Helicopter Airways	2	-	-	2
Continental Air Lines	860	53	19	932
Cordova Airlines	-	1	-	1
Delta Air Lines	1,700	83	28	1,811
Eastern Airlines	3,529	218	39	3,786
Flying Tiger Lines	369	134	16	519
Frontier Airlines	480	25	7	512
Hawaiian Airlines	98	2	-	100
Johnson Flying Service	3	3	-	6
Kodiak Airways	5	4	-	9
Lake Central Airlines	76	9	8	93
Los Angeles Airways	46	8	1	55
Modern Air Transport	55	24	1	80
Mohawk Airlines	377	7	12	396
National Airlines	581	244	7	832
New York Airways	39	8	1	48
North Central Airlines	407	14	9	430
Northeast Airlines	477	36	8	521
Northern Consolidated Airlines	8	4	1	13
Northwest Airlines	1,407	75	31	1,513
Overseas National Airways	137	41	-	178
Ozark Air Lines	290	18	12	320
Pacific Airlines	21	4	3	28
Pan American World Airways	3,211	516	51	3,778
Piedmont Aviation	346	27	11	384
Purdue Aeronautics	1	1	-	2
Reeve Aleutian Airways	17	7	2	26
Saturn Airways	158	81	1	240
Seaboard World Airlines	151	121	1	273
Slick Corporation	4	-	1	5

EMPLOYERS OF ACTIVE AIRMEN BY
CLASS OF CERTIFICATE ISSUED*
As Of: December 31, 1968

Employer	First Class	Second Class	Third Class	Total
Southern Air Transport	28	15	1	44
Southern Airways	278	367	15	660
Standard Airways	44	18	-	62
Trans Caribbean Airways	50	5	-	55
Trans International Airlines	83	48	-	131
Trans-Texas Airways	292	23	9	324
Trans World Airlines	3,848	537	79	4,464
United Airlines	5,352	697	119	6,168
Universal Airlines	96	12	1	109
West Coast Airlines	36	8	4	48
Western Air Lines	869	74	30	973
Western Alaska Airlines	2	3	1	6
Wien Alaska Airlines	45	10	3	58
World Airways	210	107	1	318
Federal Aviation Administration	1,282	17,688	596	19,566
Government, other than military or FAA, includes state and local government	337	1,169	83	1,589
Aircraft Industry	489	943	237	1,669
Industry, other than aircraft	3,683	2,164	69	5,916
Fixed Base Operation (Flying Schools, etc.)	4,358	6,881	671	11,910
Self Employed	1,376	4,330	188	5,894
Other	4,037	2,399	265	6,701
Not Applicable	29,287	139,322	377,310	545,919
Air Force	1,034	27,396	701	29,131
Army	139	5,056	104	5,299
Coast Guard	18	258	1	277
Marines and Navy	529	11,465	104	12,098
National Aeronautics and Space Administration	64	256	448	768
TOTAL	78,749	223,962	381,435	684,146

*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".

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

SECTION V

MEDICAL CHARACTERISTICS OF THE AIRMAN POPULATION

This section presents medical characteristics of the active airman population (those airmen certified within the preceding 25 months) as of December 31, 1968, by class of medical certificate issued.

Table V.B considers both issued and pending or denied applications within the preceding 25 months.

Table V.A

SELECTED CRITICAL PATHOLOGY CODES OF
ACTIVE AIRMEN BY CLASS ISSUED*
As Of: December 31, 1968

Pathology Code		First Class	Second Class	Third Class	Total
121	Diplopia	16	49	49	114
134	Aphakia	27	99	277	403
135	Cataract	23	230	456	709
139	Glaucoma	22	150	222	394
143	Fails Color Signal Test	14	215	444	673
161	Contact Lenses	228	1,220	4,296	5,744
162	Blindness or Absence of Either Eye	49	388	2,450	2,887
264	Mute	-	1	14	15
271	Deaf Mute	-	-	20	20
431	Myocardial Disease	11	104	218	333
441	Coronary Artery Disease	11	37	56	104
444	Special Heart Pathology (Assigned by Chief, Aeromedical Certification Branch)	13	-	2	15
464	Fibrillation	6	38	47	91
484	Hypertension with Heart Pathology	3	11	26	40
485	Hypertension with Medication	76	476	1,032	1,584
506	Complicated Ulcer	53	226	300	579
602	Cerebrovascular Accidents	12	28	47	87
605	Convulsive Reactions	10	28	36	74
620	Degenerative Disease - Brain	-	5	13	18
631	Degenerative Disease - Spinal Cord	1	9	7	17
661	Psychoneurosis	75	236	338	649
665	Psychosis	-	9	20	29
666	Manic Depressive Reaction	1	4	13	18
667	Schizophrenia	2	12	33	47
668	Personality Disorders or Abnormal Personality	23	47	49	119
684	Character Behavior Disorder	7	29	35	71
691	Mental Deficiency	-	1	2	3
922	Alcoholism	3	44	105	152
923	Drug Addiction	-	-	4	4
935	Diabetes, Controlled by Diet	72	324	411	807
936	Diabetes, Insulin (History)**	1	7	-	8
937	Diabetes, Other Hypoglycemic Drug(History)**	1	23	15	39
965	Collagenous Diseases	-	3	2	5
Prefix 8 - Neoplasm		39	276	524	839
Prefix 7 - Deformed by Amputation		26	167	660	853
Prefix 6 - Deformed by Limitation of Motion		47	254	885	1,186

*Counts include history of and/or present condition of the pathologies noted.

**Totals reflected under pathology codes 936 and 937 refer to airmen with a history of diabetes controlled by insulin or other hypoglycemic drugs. No airmen are currently certified who presently require insulin or other hypoglycemic drugs for control of diabetes.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8065-1, Pathology Code Summary.

Table V.B

FREQUENCY OF SELECTED PRELIMINARY ECG DIAGNOSIS CODES
AMONG AIRMAN APPLICANTS*
As Of: December 31, 1968

ECG Code	Issued	Pending Or Denied
DISTURBANCE IN RHYTHM		
5 - Paroxysmal Atrial Tachycardia	-	2
7 - Atrial Fibrillation	2	13
10 - Nodal Tachycardia, Nodal Rhythm	17	2
DISTURBANCE IN CONDUCTION		
35 - Complete Heart Block	-	2
OTHER CONDUCTION DEFECTS		
48 - Complete Right Bundle Branch Block	141	18
49 - Complete Right Bundle Branch Block with Infarction	3	4
50 - Incomplete Left Bundle Branch Block	10	8
51 - Complete Left Bundle Branch Block	14	19
52 - Complete Left Bundle Branch Block with Infarction	-	4
53 - Intraventricular Conduction Defect	22	1
54 - Wolff-Parkinson-White Syndrome	24	11
CHANGES IN SIZE OF HEART CHAMBERS		
68 - Left Ventricular Hypertrophy With or Without Strain	33	17
69 - Right Ventricular Hypertrophy With or Without Strain	7	1
T WAVE CHANGES		
110 - Isoelectric or Inverted T in any or all of Leads V_3, V_4, V_5, V_6	11	19
116 - Miscellaneous T Wave Changes	287	46
ST CHANGES		
127 - A Decrease of 0.5 mm or more in any Lead	25	-
MYOCARDIAL INFARCTION		
138 - Diaphragmatic	4	8
139 - Anterior	2	5
140 - Anterolateral	7	3
141 - Anteroseptal	15	12
142 - Pure Posterior	5	5
144 - Acute	2	8
145 - Old	53	86
147 - Subendocardial	2	2
MASTER'S TEST		
162 - Positive	6	55
164 - Borderline	12	2
MISCELLANEOUS		
205 - Dextrocardia	1	-

*Figures are based on airman applicants 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

ACTIVE AIRMEN BY NUMBER OF RESTRICTIONS
CARRIED, CLASS AND SEX*
As Of: December 31, 1968

Number Of Restrictions	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
1	16,114	84	68,439	1,488	121,036	8,937	205,589	10,509
2	176	-	1,768	24	4,935	126	6,879	150
3	8	-	187	1	198	2	393	3
4	-	-	5	1	10	-	15	1
More Than 4	-	-	-	-	-	-	-	-
TOTAL	16,298	84	70,399	1,514	126,179	9,065	212,876	10,663

*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.D

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: December 31, 1968

Restriction	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
Must Have Available Glasses For Near Vision While Flying	5,715	11	14,907	275	19,941	988	40,563	1,274
Must Wear Glasses for Distant Vision While Flying	10,107	68	52,225	1,137	93,536	7,105	155,868	8,310
Must Wear Glasses for Near and Distant Vision While Flying	7	-	77	1	282	16	366	17
Must Wear Prismatic Correction While Flying	3	-	9	-	7	1	19	1
May Wear Contact Lenses While Flying	60	1	271	14	670	127	1,001	142
May Wear Contacts While Flying: Glasses Must Be Available	109	2	706	65	2,512	621	3,327	688
Must Wear Hearing Aid While Flying	3	-	67	1	159	2	229	3
Must Wear Artificial Limb or Leg Brace While Flying	5	-	31	1	25	2	61	3
Oxygen Required When Flying Above 7,999 Feet	3	1	8	1	16	-	27	2
Passenger Carrying Prohibited	1	-	1	1	8	-	10	1
Not Valid For Pilot In Command	1	-	-	-	1	-	2	-
Not Valid For Control Tower Operator Duties	64	-	275	4	189	2	528	6
Not Valid For Air Transport Duties	-	-	-	-	18	1	18	1
Flying Jet Aircraft Prohibited	-	-	1	-	-	-	1	-

Table V.D (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: December 31, 1968

Restriction	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
Not Valid For Night Flying Or By Color Signal Control	125	-	1,228	2	8,025	25	9,378	27
Not Valid For Night Flying	1	-	54	-	121	4	176	4
Not Valid For Flying Where Radio Use Is Required	-	-	9	-	39	1	48	1
Flying Limited To Remote Areas	-	-	-	-	1	-	1	-
Valid For Flight Test Only	2	-	16	-	22	-	40	-
Second Class Privileges Limited To Flight Engineer Duties	1	-	62	-	-	-	63	-
Second Class Privileges Limited To Flight Navigator Duties	-	-	17	-	-	-	17	-
Second Class Privileges Limited To Control Tower Operator Duties	6	-	674	20	10	-	690	20
Limited to Military Control Tower Operator Duties	-	-	110	3	2	1	112	4
Valid For Control Tower Duties When Second Controller On Duty	-	-	4	-	2	-	6	-
Valid Only When Accompanied By Another Qualified Pilot	1	-	2	-	3	-	6	-
Valid For Student Pilot Purposes Only	2	-	64	1	3,421	187	3,487	188
Second Class Privileges Limited To Cargo Operations	-	-	-	-	-	-	-	-

Table V.D (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: December 31, 1968

Restriction	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
Time Limitation Restrictions	205	1	783	7	1,611	78	2,599	86
Panel Restrictions	10	-	60	-	295	5	365	5
Miscellaneous Restrictions	59	-	894	10	616	29	1,569	39
TOTAL	16,490	84	72,555	1,543	131,532	9,195	220,577	10,822

*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.E

ACTIVE AIRMEN WITH DEFECTIVE COLOR VISION
BY CLASS AND SEX*
As Of: December 31, 1968

Class Issued	Frequency	
	Male	Female
First	619	-
Second	2,580	4
Third	9,718	31
TOTAL	12,917	35

*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. The number of airmen issued waivers for deficient color vision was estimated since airmen issued waivers before 1964 were not assigned a waiver number which reflects the cause for issuance.

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

Table V.F

ACTIVE AIRMEN WITH WAIVERS
BY CLASS AND SEX*
As Of: December 31, 1968

Class Issued	Frequency	
	Male	Female
First	2,012	13
Second	11,707	295
Third	9,821	851
TOTAL	23,540	1,159

*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.G

FREQUENCY OF WAIVER CAUSE CODES
BY CLASS OF MEDICAL CERTIFICATE ISSUED*
As Of: December 31, 1968

Waiver Cause Codes	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
A - External Eye Problem	22	-	109	2	57	2	188	4
B - Internal Eye Problem	13	-	35	1	57	-	105	1
C - Glaucoma	-	-	1	-	1	-	2	-
D - Deficient Distant Vision	617	7	5,321	143	1,585	62	7,523	212
E - Deficient Near Vision	-	-	24	-	8	-	32	-
F - Deficient Color Vision	344	-	959	2	1,147	6	2,450	8
G - Contact Lenses	180	2	961	81	2,714	683	3,855	766
H - Field of Vision (Visual Field Deficiency)	3	-	6	-	12	-	21	-
I - Deficient Hearing	169	-	618	1	241	5	1,028	6
J - Ear	1	-	4	-	2	-	7	-
K - Nose	-	-	-	-	-	-	-	-
L - Throat	-	-	-	-	-	-	-	-
M - Mute	-	-	-	-	4	-	4	-
N - Respiratory System	-	-	1	-	2	-	3	-
O - Heart Disease, General	-	-	4	-	1	-	5	-
P - Heart Disease, Valvular	-	-	-	-	-	-	-	-
Q - Heart Disease, Vascular	-	-	1	-	-	-	1	-
R - Heart Disease, Arrhythmia	-	-	-	-	-	-	-	-
S - Electrocardiogram Abnormalities	-	-	-	-	1	-	1	-

Table V.G (Continued)

FREQUENCY OF WAIVER CAUSE CODES
BY CLASS OF MEDICAL CERTIFICATE ISSUED*
As Of: December 31, 1968

Waiver Cause Code	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
T - Abdominal	-	-	-	-	-	-	-	-
U - Neurological	1	-	8	-	25	1	34	1
V - Mental and Nervous	-	-	2	-	-	-	2	-
W - Bone and Joint	10	-	45	1	128	4	183	5
X - Muscles	9	-	28	1	117	1	154	2
Y - Miscellaneous Conditions	19	-	90	2	248	5	357	7
Z - Malignancy	-	-	1	-	1	-	2	-
1 - Amputation	11	-	62	-	145	-	218	-
TOTAL	1,399	9	8,280	234	6,496	769	16,175	1,012

*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.F.

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