

AIRCRAFT CERTIFICATION 190 STATISTICAL TABLES



DIVISION OF AIRCRAFT CERTIFICATION FEDERAL AVIATION ADMINISTRATION

CIVIL AIRCRAFT DESIGN, CONSTRUCTION,
ADMINISTRATIVE AND TECHNICAL SERVICES
March 1964 Edition

Table of Contents

Section	Page
I. AVIATION MEDICAL EXAMINER INFORMATION	
A. Designated FAA Aviation Medical Examiners by Region	1
B. Medical Practice of Aviation Medical Examiners	2
C. Regional Coverage of Aviation Medical Examiners Versus Physicians	3
D. Aviation Medical Examiner Training Seminars and Attendance	4
E. Active Aviation Medical Examiners' Highest Level of FAA Seminar Training by Region	5
F. Physical Examinations Performed by Aviation Medical Examiners	6
G. Regional Activities of the Aviation Medical Examiner Program	7
H. Aviation Medical Examiner Data	8
II. CERTIFICATION ACTIVITY	
A. Airman Applications for Medical Certification	9
B. Receipts of Medical Certificate Applications by Class	10
C. Medical Certification System	11
D. Medical Applications Processing by the Aeromedical Certification Branch	12
E. Annual Record of Physical Examinations Submitted to Computer	13
F. Aeromedical Certification Branch Computer Tape File	14
G. Aeromedical Certification Branch Medical Qualification Section Correspondence Activity	15
H. Regional Activities of the Medical Certification Program	16

Table of Contents

Section	Page
III. REFERRALS AND DENIALS	
A. Medical Reject Pattern (Chart)	17
B. Medical Reject Pattern (Table)	18
C. Cases Referred to Regions by the Aeromedical Certification Branch	19
D. Appeals Considered by the Federal Air Surgeon	20
E. Reconsideration Actions by the Federal Air Surgeon	21
F. Petitions Granted or Denied by the Administrator	22
G. Status of Airmen Who Have Been Granted Exemptions	23
IV. GENERAL AIRMAN POPULATION DATA	
A. Regional Distribution of Airmen by Effective Status of Certificate	24
B. Active Airmen's State of Residence by Sex and Class of Certificate Issued	25
C. Active Airmen by Type of Flying and Class	27
D. Age Distribution of Medically Certified Airmen (Chart)	28
E. Age Distribution of Medically Certified First Class Airmen (Chart)	29
F. Age Distribution of Medically Certified Second Class Airmen (Chart)	30
G. Age Distribution of Medically Certified Third Class Airmen (Chart)	31
H. Age Distribution of Active Airmen by Class and Sex (Table)	32
I. Airmen by Occupation Code, Class and Sex	33
J. Age Distribution of Airline Pilots (Chart)	34
K. Age Distribution of Airline Pilots (Table)	35

Table of Contents

Section	Page
V. MEDICAL CHARACTERISTICS OF AIRMAN POPULATION	
A. Selected Critical Pathology Codes of Active Airmen by Class Issued	36
B. Active Airmen by Number of Restrictions Carried, Class and Sex	37
C. Frequency of Restrictions Among Active Airmen by Class and Sex	38
D. Airmen with Waivers by Class and Sex	41
E. Airmen with Cataracts by Age and Class	42
F. Airmen with Defective Color Vision by Class and Sex	43

SECTION I
AVIATION MEDICAL EXAMINER INFORMATION

Table I.A

DESIGNATED FAA AVIATION MEDICAL EXAMINERS BY REGION
Annually
January 1, 1965 thru January 1, 1967

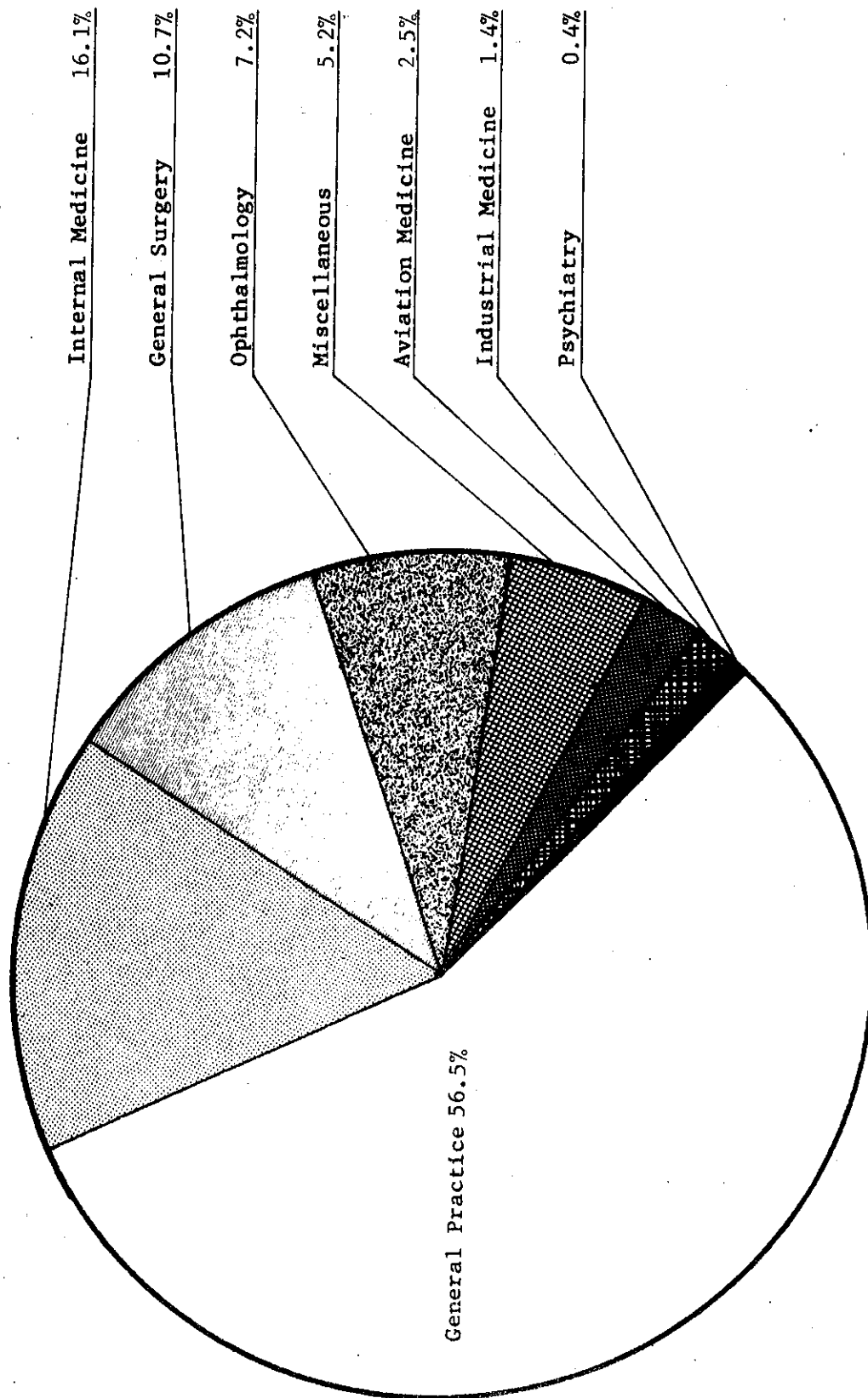
Region	Aviation Medical Examiners		
	January 1, 1965	January 1, 1966	January 1, 1967
Eastern	1,383	1,432	1,452
Southern	623	695	761
Central	1,369	1,312	1,364
Southwestern	680	687	726
Western	1,427	1,356	1,370
Alaskan	47	48	52
Pacific	30	36	38
SUBTOTAL	5,559	5,566	5,763
Military*	528	707	693
International	150	159	170
TOTAL	6,237	6,432	6,626

*Denotes military installations' designations rather than individual physicians.

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

Chart I.B

MEDICAL PRACTICE OF AVIATION MEDICAL EXAMINERS
January 1, 1967



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

Table I.C

REGIONAL COVERAGE OF AVIATION MEDICAL
EXAMINERS VERSUS PHYSICIANS
December 1966

Region	Active Airman Population	AME Population	Ratio AME's To Airmen	General Population*	Physician Population	Ratio Physicians To Population
Eastern	114,368	1,452	1:79	72,685,000	120,710	1:602
Southern	58,848	761	1:77	27,713,000	28,747	1:964
Central	118,112	1,364	1:87	44,746,000	58,305	1:767
Southwestern	57,289	726	1:79	19,790,000	21,552	1:918
Western	119,712	1,370	1:87	29,933,000	48,662	1:615
Alaskan	4,111	52	1:79	272,000	157	1:1,732
Pacific	1,373	38	1:36	718,000	917	1:783
TOTAL	473,813	5,763	1:82	195,857,000	279,050	1:702

*Resident population.

Source: Department of Health, Education and Welfare, Public Health Service, Health Manpower Statistics Branch, December 31, 1965; Civil Aeromedical Institute, Aeromedical Certification Branch, Aviation Medical Examiner Section.

Table I,D

AVIATION MEDICAL EXAMINER TRAINING
SEMINARS AND ATTENDANCE
1960-1966

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
TOTAL	80	7,851

*Two scheduled seminars were cancelled due to severe limitations of travel funds within the agency.

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

Table I.E

ACTIVE AVIATION MEDICAL EXAMINERS' HIGHEST LEVEL
OF FAA SEMINAR TRAINING BY REGION
December 31, 1966

Region	Total AME's	First Phase*	Second Phase*
Eastern	1,452	342	748
Southern	761	228	345
Central	1,364	373	713
Southwestern	726	249	359
Western	1,370	351	760
Alaskan	52	9	23
Pacific	38	1	21
TOTAL	5,763	1,553	2,969

*The First Phase and Second Phase were previously referred to as General Training and Advanced Training respectively.

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

Table I.F

PHYSICAL EXAMINATIONS PERFORMED BY
 AVIATION MEDICAL EXAMINERS*
 Fiscal Year 1966

Examinations Performed	Number		Percent of Total	
	AME's	Examinations	AME's	Examinations
0	263	-	4.6	-
1-14	1,634	11,703	28.5	3.8
15-29	1,239	26,362	21.7	8.5
30-49	1,018	38,951	17.8	12.6
50-99	849	58,382	14.8	18.9
100-299	591	94,519	10.3	30.5
300-599	78	31,055	1.4	10.0
600-999	28	21,328	0.5	6.9
1000-1999	16	18,533	0.3	6.0
2000 and over	4	8,592	0.1	2.8
TOTAL	5,720	309,425	100.0	100.0

*Does not include military or international Aviation Medical Examiners or examinations performed by them.

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

Table I.G

REGIONAL ACTIVITIES OF THE
AVIATION MEDICAL EXAMINER PROGRAM
Calendar Year 1966

Region	Number of AME's Designated	Denied Designation	Pending Action	Separation
Eastern	85	2	15	48
Southern	89	6	10	10
Central	123	17	12	107
Southwestern	76	46	30	44
Western	49	89	19	85
Alaskan	9	-	-	12
Pacific	5	-	-	1
TOTAL	436	160	86	307

Source: Regional Flight Surgeon Monthly Activity Reports.

Table I.H

AVIATION MEDICAL EXAMINER DATA*
December 31, 1966

A. Number of Designated Aviation Medical Examiners	5,763
B. Ratio of Aviation Medical Examiners to Airmen	1:82+
C. Ratio of Physicians to General Population	1:702
D. Ratio of Airmen to General Population	1:413
E. Percentage of Aviation Medical Examiners Who Are Qualified Pilots	47%†
F. Percentage of Aviation Medical Examiners Who Were Military Flight Surgeons	15%†
G. Percentage of Aviation Medical Examiners Who Participate in Accident Investigation	74%†
H. Percentage of Aviation Medical Examiners Who Have Received First Phase Seminar Training	78%†
I. Percentage of Aviation Medical Examiners Who Have Received Second Phase Seminar Training	52%†

*Figures are based on U.S. non-military Aviation Medical Examiner population.

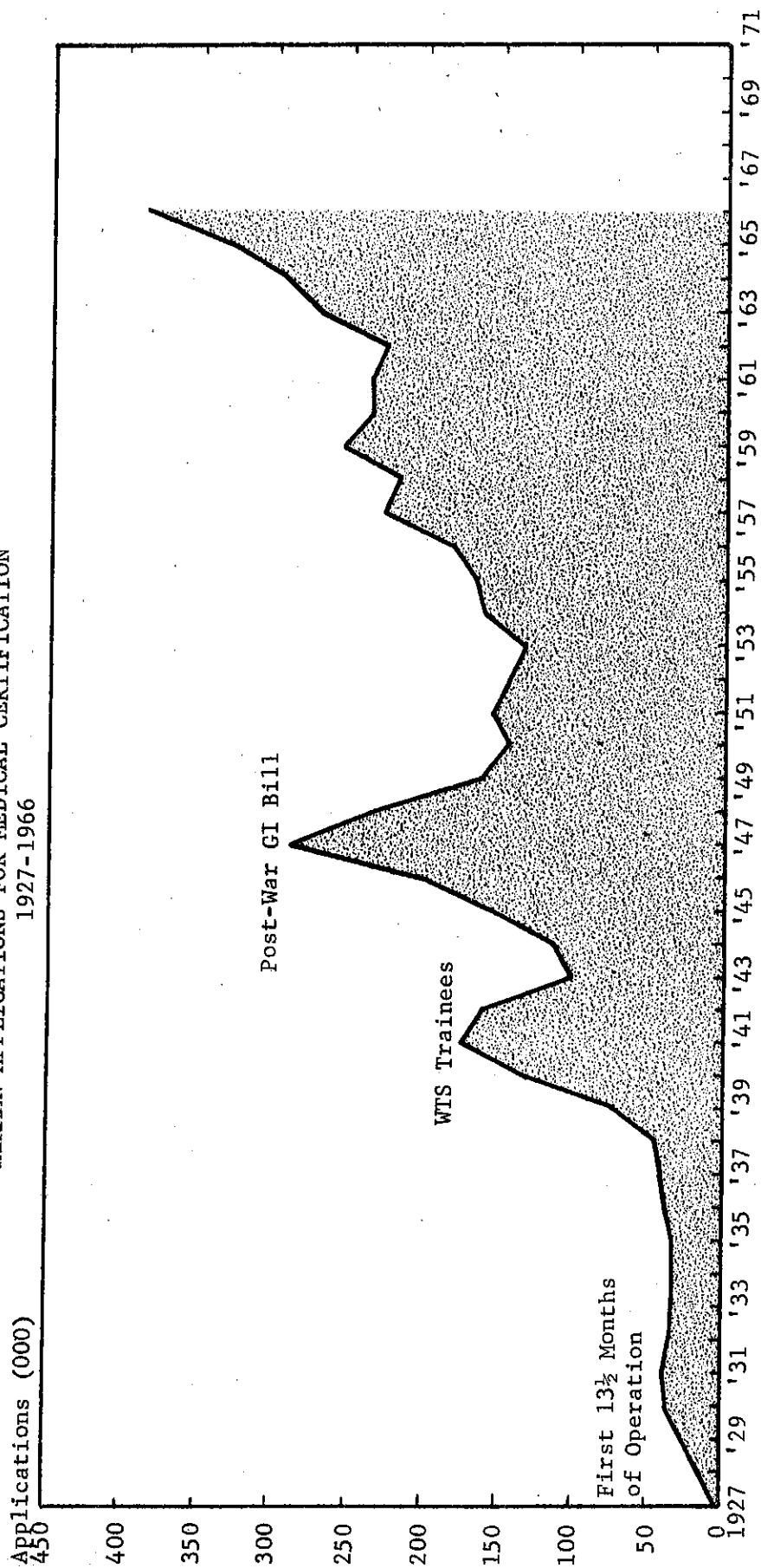
+Based on civilian airmen only.

†An Aviation Medical Examiner may have been classified in all or only one of these categories.

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

SECTION II
CERTIFICATION ACTIVITY

Chart II.A
 AIRMAN APPLICATIONS FOR MEDICAL CERTIFICATION
 1927-1966



Year	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941
Applications	4.2	13.7	28.5	36.8	39.9	35.1	33.6	33.4	32.8	39.1	42.0	46.5	73.2	134.4	172.2
Percentage*		+229.3	+107.8	+29.1	+8.5	-12.2	-4.3	-0.4	-1.9	+19.4	+7.4	+10.8	+57.3	+83.5	+28.2
Year	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956
Applications	161.6	102.7	113.8	154.6	202.1	289.6	233.4	162.5	144.0	157.4	145.7	133.5	160.6	168.6	181.7
Percentage*	-6.2	-36.4	+10.8	+35.8	+30.7	+43.3	-19.4	-30.4	-11.4	+9.4	-7.4	-8.4	+20.3	+5.0	+7.8
Year	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Applications	229.6	217.9	255.6	237.5	237.3	254.1	271.8	294.7	330.6	387.5					
Percentage*	+26.3	-5.1	+17.3	-7.1	-0.1	+7.1	+6.9	+8.5	+12.2	+17.2					

*Percentage of increase or decrease over previous year.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch.

Table II.B

RECEIPTS OF MEDICAL CERTIFICATE
APPLICATIONS BY CLASS*
1960-1966

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

*Class distribution for 1960 through 1964 was 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 distribution for 1966 was based on the percentages compiled from the Quarterly Record of Physical Examinations Computer Submission Summary Report (AC 8500-3).

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Table II.C
MEDICAL CERTIFICATION SYSTEM
1964-1966

Activity	1964	1965	1966
Receipts			
Applications for Medical Certification	294,734	330,617	387,537
Electrocardiograms for First Class Pilots	15,823	17,100	18,802
Miscellaneous Correspondence*	22,676	27,961	43,499
Review Activity			
Applications Containing Medical or Clerical Problems	117,838	107,371	131,359
Applications Referred to Regional Flight Surgeons	20,723	13,474	6,983
Medical Certification Decisions by Federal Air Surgeon	860	903	463
Petitions Considered by Administrator	300	380	373
Number of Abnormalities Detected in Electrocardiograms†	893	3,899	3,907

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

†Change of screening procedures in 1965 accounts for increase of abnormalities detected.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch; Aeromedical Standards Division.

Table II.D

MEDICAL APPLICATIONS PROCESSING BY THE
AEROMEDICAL CERTIFICATION BRANCH
Calendar Year 1966

Month	Applications Received	Applications Coded for Computer Screening	Applications Screened by Computer*	Applications Requiring Manual Review	Applications Intra-Agency Transmitted
January	25,800	30,300	23,643	7,897	575
February	24,724	24,924	27,648	9,612	562
March	33,808	34,708	31,662	9,571	777
April	31,165	30,865	34,309	11,209	697
May	34,089	33,489	29,038	10,151	724
June	38,025	38,225	26,752	8,979	861
SUBTOTAL	187,611	192,511	173,052	57,419	4,196
July	35,567	36,767	53,170	14,960	744
August	39,185	40,085	42,043	14,792	1,003
September	35,510	34,510	35,498	10,707	772
October	31,740	32,140	32,705	12,733	518
November	30,240	29,187	27,617	10,645	236
December	27,684	27,937	33,061	10,103	301
SUBTOTAL	199,926	200,626	224,094	73,940	3,574
TOTAL	387,537	393,137	397,146	131,359	7,770

*Figures reflect the number of submissions to the computer rather than applications, because an application may have to be submitted to the computer twice before it is placed on tape.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Qualification Section; Administrative and Technical Branch, Medical Statistical Section.

Table II.E

ANNUAL RECORD OF PHYSICAL EXAMINATIONS
SUBMITTED TO COMPUTER
Calendar Year 1966

Action	First Class	Second Class	Third Class	Total
Certified				
Clear	58,977	87,974	127,225	274,176
Limited	13,259	30,379	51,377	95,015
Waiver	594	1,246	1,337	3,177
Limited and Waiver	1,189	4,552	1,971	7,712
Special Restriction	157	793	5,148	6,098
Special Restriction & Waiver	33	173	233	439
Exemption MAP	15	34	124	173
FAS Approval	4	5	8	17
AME Denied - FAS Approved	5	3	8	16
SUBTOTAL	74,233	125,159	187,431	386,823
Denied				
AME, RFS, AMCB	175	374	1,239	1,788
FAS	1	2	1	4
AME, FAS	4	4	6	14
MAP	10	6	23	39
Administrator	-	-	1	1
Legal or Administrative	18	24	78	120
Granted by MAP & Later Denied	-	-	-	-
SUBTOTAL	208	410	1,348	1,966
Pending*	596	983	3,214	4,793
TOTAL PHYSICAL EXAMINATIONS**	75,037	126,552	191,993	393,582
New Applications***	8,226	18,690	81,957	108,873

*Pending total reflects the status of the examination on input and does not reflect the number of pending cases on hand at the end of the year.

**Actual applications accepted on tape in calendar year 1966.

***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. 1,077 or 1.0% new applications were denied, 1,999 or 1.8% were pending, and 105,797 or 97.2% were issued for a total of 108,873 new applications.

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Table II.F

AEROMEDICAL CERTIFICATION BRANCH COMPUTER TAPE FILE
December 25, 1966

Action	Time Lapse Since Date of Last Examination				Total
	<7 Mo.	<13 Mo.	<25 Mo.	25-36 Mo.	Over 36 Mo.
Certified					
First Class	39,719	16,780	4,637	2,066	N/A
Second Class	61,695	55,420	47,362	22,734	N/A
Third Class	106,523	79,578	154,495	73,436	N/A
SUBTOTAL	207,937	151,778	206,494	98,236	N/A
Non-Certified					
Pending	922	262	212	208	N/A
Denied	1,239	1,142	2,653	2,442	N/A
Link*	N/A	N/A	N/A	N/A	88,538
TOTAL	210,098	153,182	209,359	100,886	88,538
					762,063

*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, Administrative and Technical Branch, Medical Statistical Section.

Table II.G

AEROMEDICAL CERTIFICATION BRANCH
MEDICAL QUALIFICATION SECTION
CORRESPONDENCE ACTIVITY
Calendar Year 1966

Activity	Number
Certification	
Issued, Corrected or Duplicate Certificates	3,647
Eligibility Letters	8,942
Issued or Duplicate Waivers	2,903
Further Action Necessary	
Information Requested	20,382
Medical Flight Test Authorization	251
Case Summary for the Federal Air Surgeon	111
Information Requested From the Branch	
Telegram Replies to Airmen/Agency Offices	554
Letter Replies to Airmen	63
Replies to Insurance Companies	162
Initial Denial Letters	1,341
Miscellaneous Correspondence*	8,834

*Includes Refund Letters, Charge Letters, Second Request Letters, Requests for Return of Medical Certificate, and other miscellaneous letters.

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

Table II.H

REGIONAL ACTIVITIES OF THE
MEDICAL CERTIFICATION PROGRAM
Calendar Year 1966

Region	Airman* Population	Applications		Special or Medical Flight Test	Waivers	Denials	Certificates Approved	
		From AMCB	From AME Pending†					
Eastern	114,368	1,361	1,888	220	347	393	262	2,922
Southern	58,848	914	623	192	342	290	295	1,088
Central	118,112	1,680	2,524	305	473	468	258	2,410
Southwestern	57,289	1,110	1,004	259	283	304	205	1,646
Western	119,712	2,730	1,673	604	633	673	444	2,715
Alaskan	4,111	71	169	13	13	40	2	99
Pacific	1,373	31	42	6	3	10	5	32
TOTAL	473,813	7,897	7,923	1,599	2,094	2,178	1,471	10,912

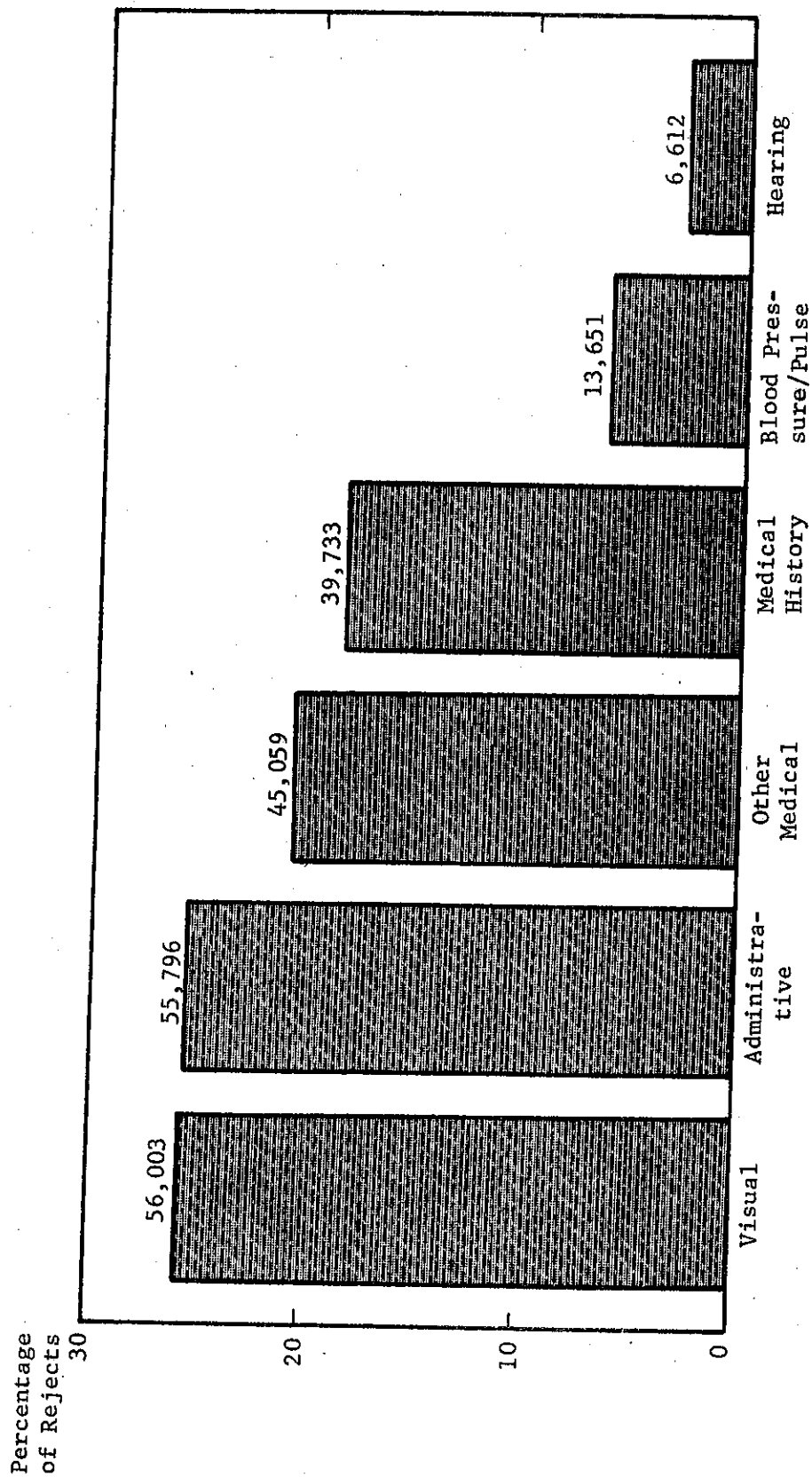
*Current medically certified airmen.

†Applications pending final action on December 31, 1966.

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section; Regional Flight Surgeon Monthly Activity Reports.

SECTION III
REFERRALS AND DENIALS

Chart III.A
MEDICAL REJECT PATTERN
Calendar Year 1966



Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Table III.B

MEDICAL REJECT PATTERN
Calendar Year 1966

Reject	Major Category Totals	Percent	Minor Category	Percent
Visual	56,003	25.8		
Distant Vision			19,306	8.9
Near Vision			13,888	6.4
Intraocular Tension			4,065	1.9
Field of Vision			3,627	1.7
Color Vision			5,516	2.5
Variation in Distant Vision			4,873	2.2
Esophoria or Exophoria			3,861	1.8
Right or Left Hyperphoria			867	0.4
Hearing	6,612	3.0		
Hearing			6,612	3.0
Blood Pressure/Pulse	13,651	6.3		
Blood Pressure			4,447	2.1
Pulse			9,204	4.2
Medical History	39,733	18.4		
Previous Denial Indicated			2,738	1.3
Medical History			35,726	16.5
Previous Exam on Tape Denied			827	0.4
Previous Exemption Case			276	0.1
New Exemption Case			166	0.1
Other Medical Conditions	45,059	20.8		
Denied or Pending			9,699	4.5
Urinalysis			2,855	1.3
Pathology Codes			8,978	4.1
Abnormalities (Items 25-48)			11,897	5.5
Medication			11,630	5.4
Administrative	55,796	25.7		
First Class by Military			290	0.1
Matches Link Record			5,136	2.4
Special Case			352	0.2
Previous Pending			3,130	1.4
Clerical Reject			11,587	5.3
Class Issued Higher than Applied For			2,961	1.4
First Class over 60 Years of Age			182	0.1
Coded Previous Waiver			10,461	4.8
Resubmit Exam to Computer			3,968	1.8
Date of ECG for First Class Exams			6,688	3.1
State Code			938	0.4
Date of Examination			588	0.3
No Match between New and Previous Exams*			2,447	1.1
Other			7,068	3.3
TOTAL CARDS	216,854	100.0		

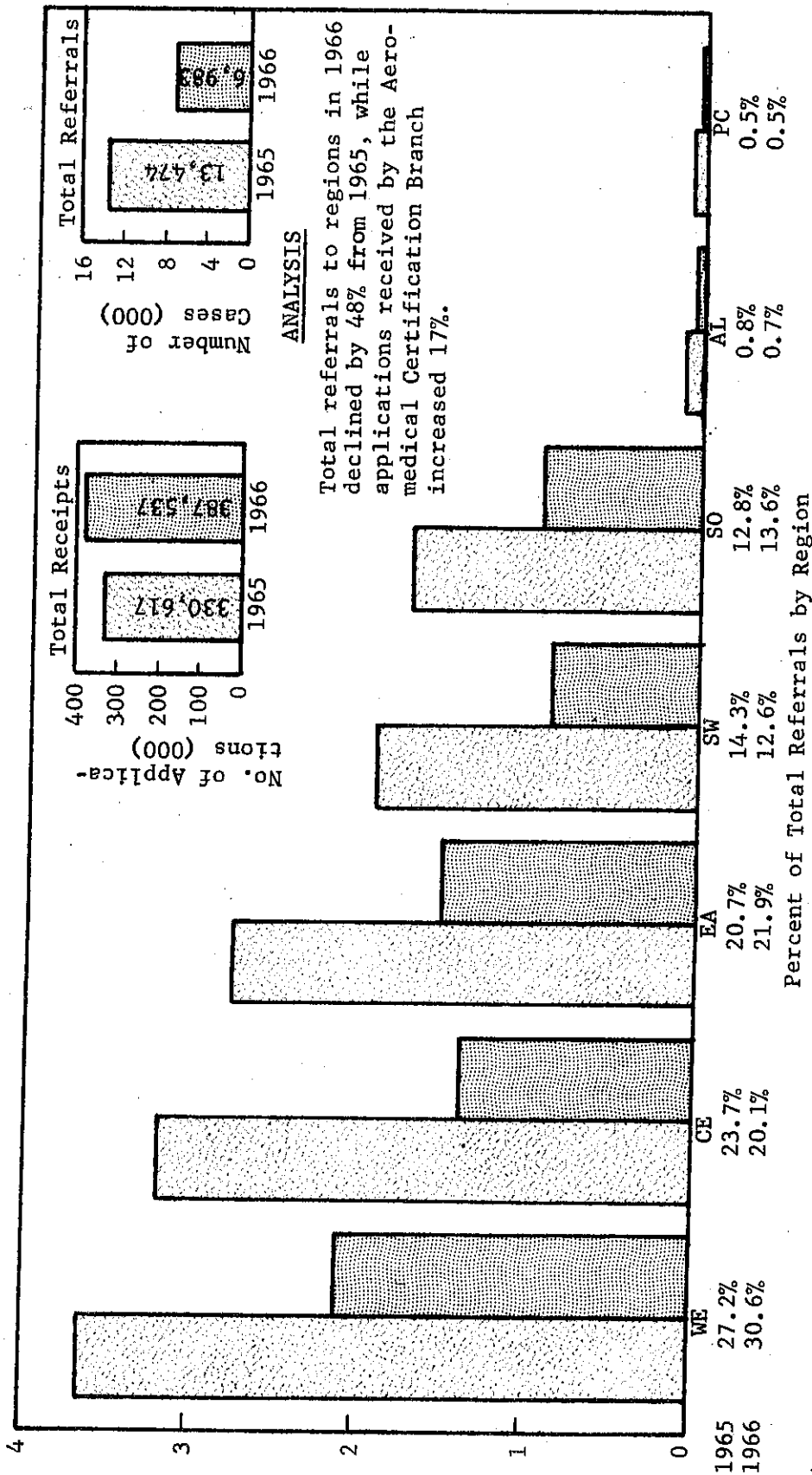
*This edit was implemented on September 27, 1966.

Source: Civil Aeromedical Institute, Administrative and Technical Branch,
Medical Statistical Section.

Chart III.C

CASES REFERRED TO REGIONS BY THE
AEROMEDICAL CERTIFICATION BRANCH
1965-1966

Referrals (000)



Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Document Control Section.

Table III.D

APPEALS CONSIDERED BY
THE FEDERAL AIR SURGEON
1961-1966

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
TOTAL	916	2,764	3,680

*Incomplete figures for January through March 1961.

Source: Office of Aviation Medicine, Aeromedical
Standards Division.

Table III.E

RECONSIDERATION ACTIONS BY
THE FEDERAL AIR SURGEON
January 1963 - December 1966

Pathology	First Class	Second Class	Third Class	Total
<u>Issued</u>				
Eye	34	103	115	252
Ear, Nose, Throat	2	1	7	10
Respiratory	2	4	10	16
Cardiovascular	25	43	87	155
Abdominal	-	8	17	25
Nervous/Mental	17	24	107	148
Bone/Joint	1	3	6	10
Muscles	-	1	3	4
Miscellaneous	2	10	25	37
TOTAL	83	197	377	657
<u>Denied</u>				
Eye	53	204	110	367
Ear, Nose, Throat	3	4	7	14
Respiratory	4	7	37	48
Cardiovascular	98	184	646	928
Abdominal	7	14	44	65
Nervous/Mental	58	119	340	517
Bone/Joint	-	4	13	17
Muscles	-	2	7	9
Miscellaneous	14	47	162	223
TOTAL	237	585	1,366	2,188

Source: Office of Aviation Medicine, Aeromedical Standards
Division.

Table III.F

PETITIONS GRANTED OR DENIED BY
THE ADMINISTRATOR*
1961-1966

Pathology	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	9	15	22	46
Ear, Nose, Throat	-	1	-	1
Respiratory	-	-	4	4
Cardiovascular	6	28	243	277
Abdominal	1	-	6	7
Nervous/Mental	-	12	62	74
Bone/Joint	-	-	1	1
Muscles	-	-	-	-
Miscellaneous	-	1	8	9
TOTAL	16	57	346	419
<u>Denied</u>				
Eye	6	59	21	86
Ear, Nose, Throat	-	1	-	1
Respiratory	3	1	8	12
Cardiovascular	102	153	400	655
Abdominal	2	4	13	19
Nervous/Mental	40	69	152	261
Bone/Joint	1	3	3	7
Muscles	-	-	2	2
Miscellaneous	7	10	74	91
TOTAL	161	300	673	1,134

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

Source: Office of Aviation Medicine, Aeromedical Standards Division.

Table III.G

STATUS OF AIRMEN WHO HAVE BEEN
GRANTED EXEMPTIONS*
1961-1966

Status Of Airman	Number Of Airmen
Exemptions Have Been Granted	417
Are Currently Active Airmen	259
Have Died	11
Grant Terminated:	
Adverse Change in Condition or Failed to Furnish Required Information	18
Currently Meet Medical Standards - Grant No Longer Necessary	10
For Various Personal Reasons Have Not Validated Their Grants	119

*Although airmen may have been granted more than one exemption, they have only been counted once.

Source: Civil Aeromedical Institute, Aeromedical Certification Branch.

SECTION IV
GENERAL AIRMAN POPULATION DATA

Table IV.A

REGIONAL DISTRIBUTION OF AIRMEN BY
EFFECTIVE STATUS OF CERTIFICATE*
December 31, 1966

Region	First Class	Second Class	Third Class	Total Active Airmen	Pending	Denied
Eastern	9,835	20,839	83,694	114,368	445	959
Southern	6,286	12,578	39,984	58,848	91	575
Central	7,260	19,244	91,608	118,112	267	1,056
Southwestern	3,784	12,018	41,487	57,289	156	607
Western	10,860	24,776	84,076	119,712	343	1,112
Alaskan	189	1,014	2,908	4,111	6	33
Pacific	238	396	739	1,373	1	8
U.S. TOTAL	38,452	90,865	344,496	473,813	1,309	4,350
Military+	19	41,334	44,645	85,998	56	583
International	1,248	1,696	3,454	6,398	31	101
TOTAL	39,719	133,895	392,595	566,209	1,396	5,034

*These figures are based on a 25-month summary from the computer tape files.

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

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Table IV.B

ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED*
December 31, 1966

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Alabama	328	1	1,316	24	3,907	232	5,551	257
Alaska	328	-	1,180	22	2,431	215	3,939	237
Arizona	554	1	1,625	57	4,118	342	6,297	400
Arkansas	178	-	1,213	16	2,716	153	4,107	169
California	11,226	36	17,159	423	42,325	3,421	70,710	3,880
Colorado	1,783	6	2,243	39	4,830	386	8,856	431
Connecticut	1,084	1	1,320	14	3,901	249	6,305	264
Delaware	138	-	234	1	737	48	1,109	49
District of Columbia	166	1	205	12	554	42	925	55
Florida	5,659	10	5,910	131	11,614	987	23,183	1,128
Georgia	2,167	3	1,922	20	5,346	249	9,435	272
Hawaii	388	-	358	6	595	47	1,341	53
Idaho	154	1	707	12	1,951	123	2,812	136
Illinois	3,542	5	4,525	95	15,730	931	23,797	1,031
Indiana	636	1	2,084	54	8,531	497	11,251	552
Iowa	279	1	1,514	27	6,387	383	8,180	411
Kansas	915	3	2,119	37	6,948	572	9,982	612
Kentucky	194	1	887	14	2,709	158	3,790	173
Louisiana	667	2	1,780	17	3,464	177	5,911	196
Maine	89	-	395	4	1,312	62	1,796	66
Maryland	511	1	1,104	17	3,755	261	5,370	279
Massachusetts	1,276	3	1,624	40	4,766	294	7,666	337
Michigan	1,112	2	3,226	94	12,578	723	16,916	819
Minnesota	2,040	4	2,278	31	7,999	400	12,317	435
Mississippi	161	-	1,022	19	2,586	145	3,769	164
Missouri	1,481	-	2,189	48	7,921	508	11,591	556
Montana	177	-	855	29	2,675	215	3,707	244
Nebraska	171	2	895	9	3,502	210	4,568	221
Nevada	197	2	692	7	1,669	140	2,558	149
New Hampshire	358	-	294	14	926	52	1,578	66

Table IV.B (Continued)

ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED*
December 31, 1966

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
New Jersey	2,551	3	2,440	42	7,434	425	12,425	470
New Mexico	195	2	888	12	2,896	245	3,979	259
New York	3,967	10	5,322	102	14,717	898	24,006	1,010
North Carolina	543	1	1,414	19	4,633	225	6,590	245
North Dakota	74	-	569	6	1,591	52	2,234	58
Ohio	1,298	2	4,063	76	14,977	940	20,338	1,018
Oklahoma	680	1	2,221	41	5,756	454	8,657	496
Oregon	365	3	1,623	37	5,303	376	7,291	416
Pennsylvania	1,433	4	3,258	59	10,571	602	15,262	665
Rhode Island	116	-	194	3	535	25	845	28
South Carolina	268	2	692	4	1,882	113	2,842	119
South Dakota	79	-	452	9	1,755	101	2,286	110
Tennessee	609	1	1,440	21	4,004	207	6,053	229
Texas	4,230	5	7,838	118	20,789	1,368	32,857	1,491
Utah	310	-	816	14	2,088	113	3,214	127
Vermont	37	-	198	7	524	33	759	40
Virginia	1,438	3	1,803	33	4,495	255	7,736	291
Washington	2,153	5	2,740	55	7,160	454	12,053	514
West Virginia	77	1	353	8	1,176	42	1,606	51
Wisconsin	553	1	1,404	21	5,954	303	7,911	325
Wyoming	77	-	438	11	1,146	89	1,661	100
U.S. CIVILIAN TOTAL	59,012	131	103,041	2,031	297,869	19,542	459,922	21,704
Military	103	-	59,812	354	26,999	761	86,914	1,115
International	2,127	1	1,362	20	2,055	73	5,544	94
TOTAL AIRMEN	61,242	132	164,215	2,405	326,923	20,376	552,380	22,913

*Totals are based on active airmen within the past 26 months.

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section

Table IV.C

ACTIVE AIRMEN BY TYPE OF
FLYING AND CLASS*
December 31, 1966

Class Issued	Type Of Flying	
	Business	Pleasure+
First	44,605	16,769
Second	59,308	107,312
Third	38,330	308,969
TOTAL	142,243	433,050

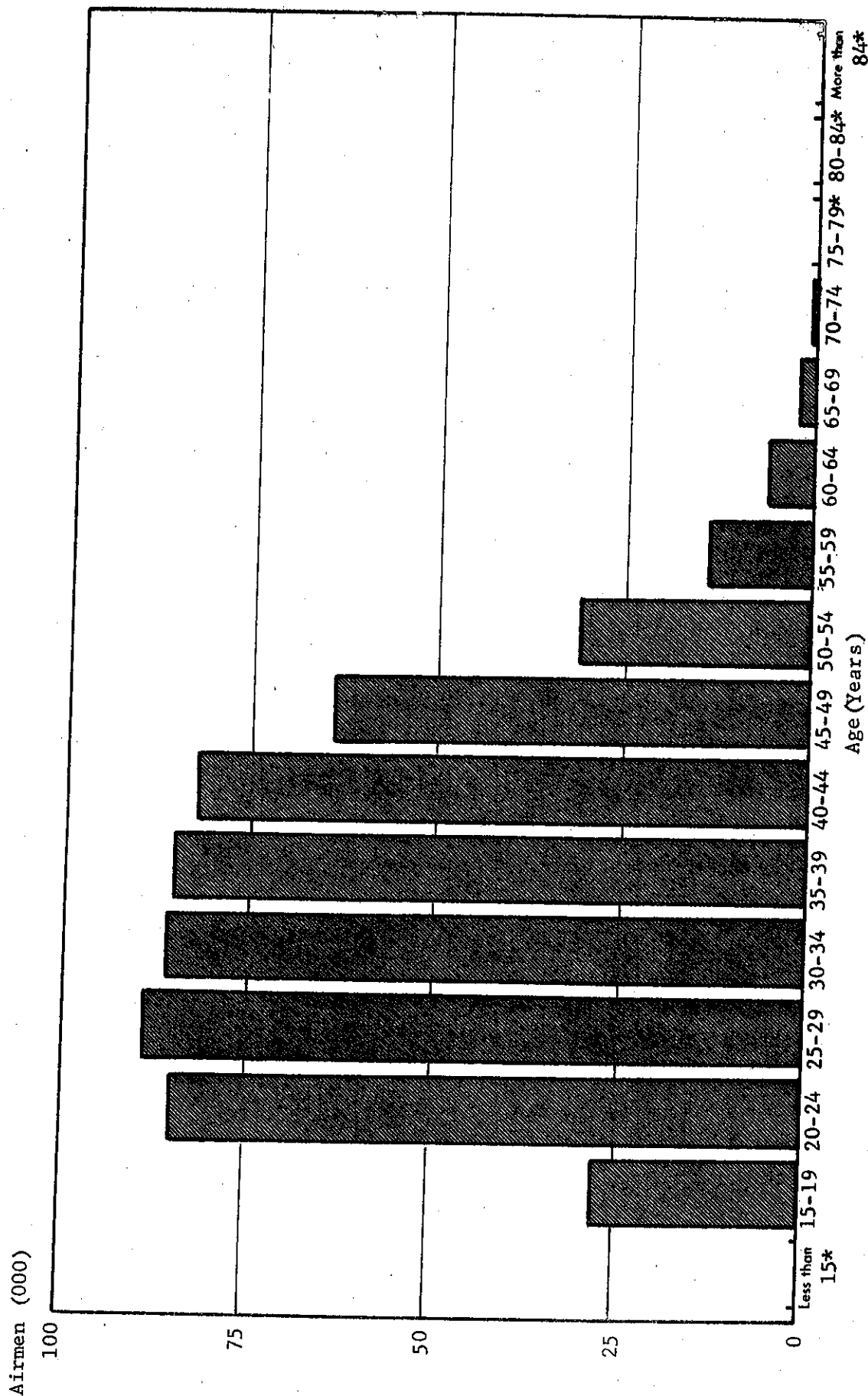
*Totals are based on active airmen within the past 26 months.

+If type of flying was not given, it was classified as "pleasure."

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Chart IV.D

AGE DISTRIBUTION OF MEDICALLY CERTIFIED AIRMEN
December 31, 1966

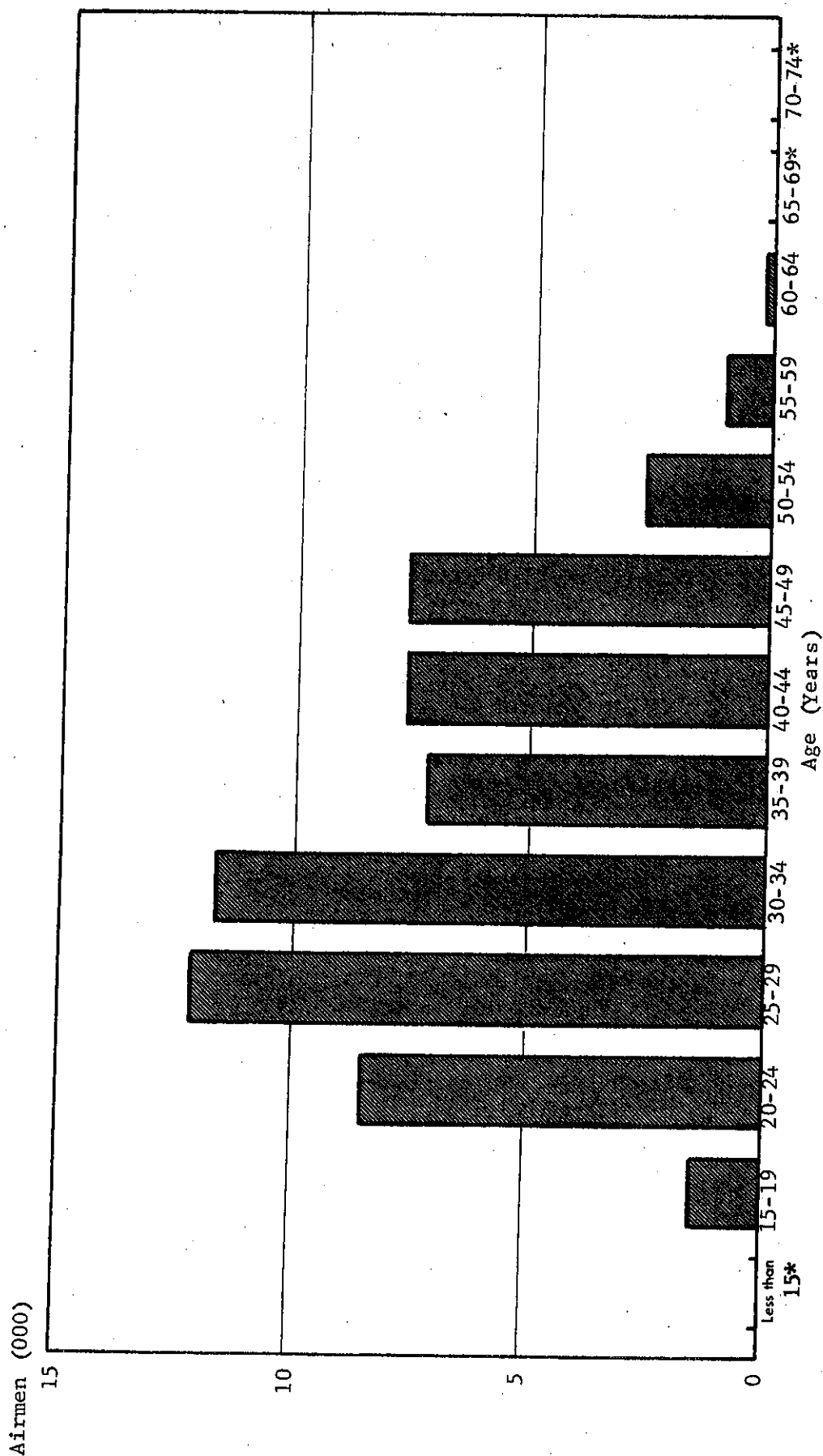


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.H) should be consulted for frequencies.

Source: Civil Aeromedical Institute. Administrative and Technical Branch. Medical Statistical Section.

Chart IV.E

AGE DISTRIBUTION OF MEDICALLY CERTIFIED FIRST CLASS AIRMEN
December 31, 1966

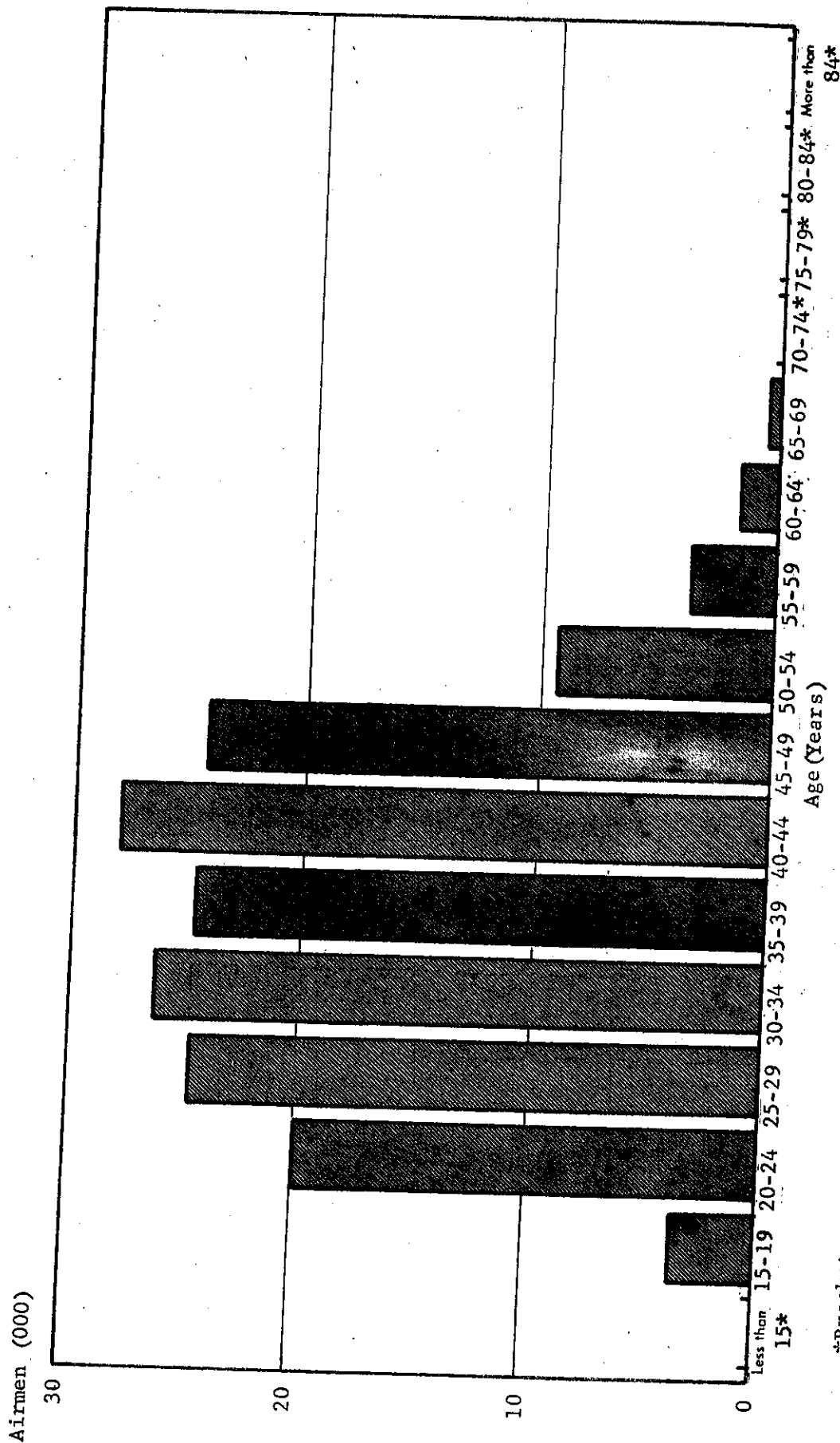


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.H) should be consulted for frequencies.

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Chart IV.F

AGE DISTRIBUTION OF MEDICALLY CERTIFIED SECOND CLASS AIRMEN
December 31, 1966

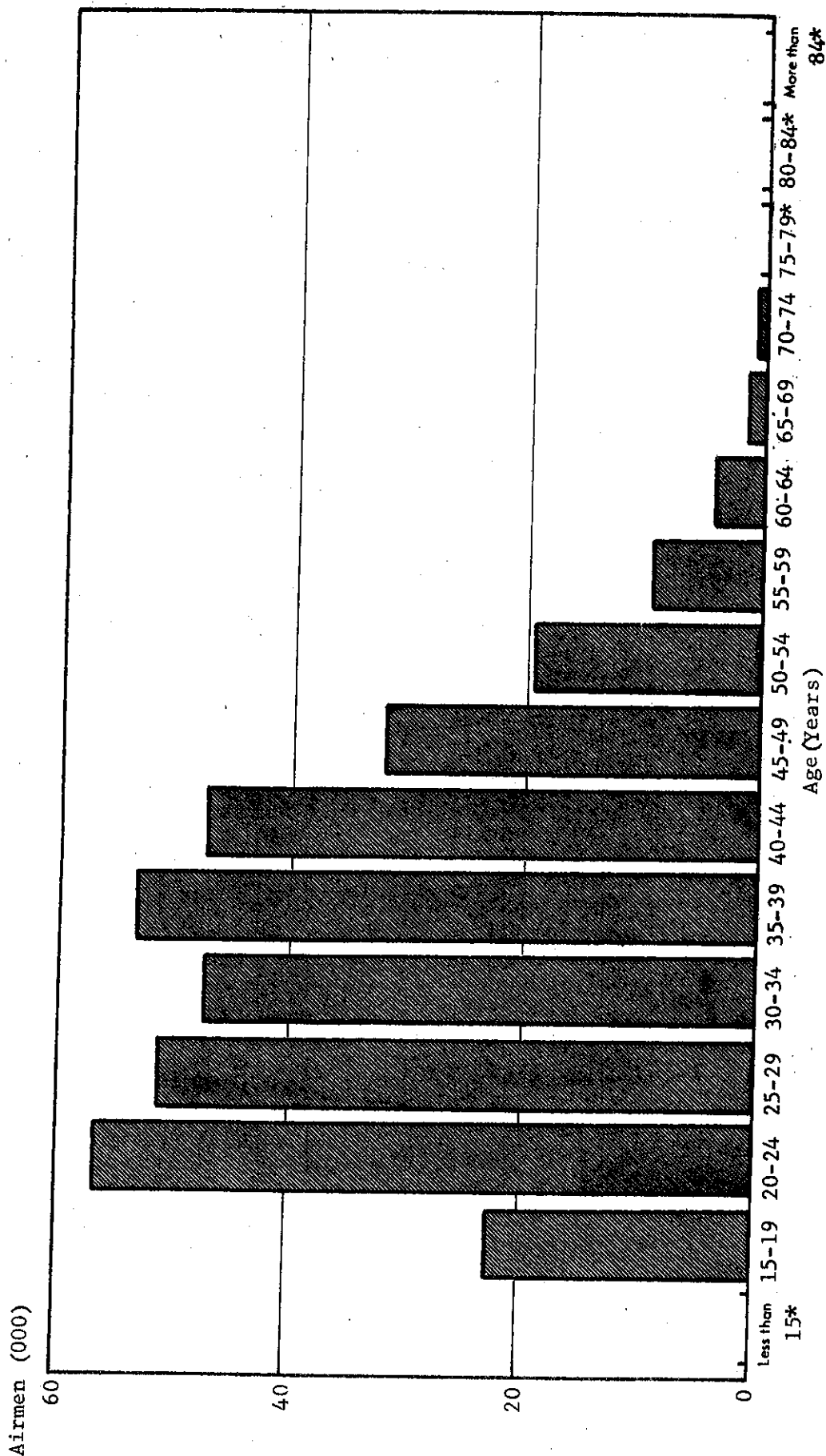


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.H) should be consulted for frequencies.

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Chart IV.G

AGE DISTRIBUTION OF MEDICALLY CERTIFIED THIRD CLASS AIRMEN
December 31, 1966



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

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Table IV.H

AGE DISTRIBUTION OF ACTIVE AIRMEN
BY CLASS AND SEX*
December 31, 1966

Age	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 15	3	-	12	-	38	4	53	4
15-19	1,563	12	3,500	125	20,846	1,802	25,909	1,939
20-24	8,439	20	19,451	382	53,188	3,365	81,078	3,767
25-29	13,029	20	24,495	231	48,172	3,220	85,696	3,471
30-34	11,732	14	26,036	268	45,111	3,145	82,879	3,427
35-39	7,163	22	24,441	352	50,337	3,281	81,941	3,655
40-44	7,635	22	27,532	394	44,473	2,609	79,640	3,025
45-49	7,612	14	23,941	355	30,534	1,688	62,087	2,057
50-54	2,708	5	9,061	161	18,712	798	30,481	964
55-59	1,079	3	3,627	85	9,345	326	14,051	414
60-64	241	-	1,535	42	4,118	97	5,894	139
65-69	32	-	462	8	1,442	30	1,936	38
70-74	6	-	97	-	481	8	584	8
75-79	-	-	18	1	94	3	112	4
80-84	-	-	-	-	21	-	21	-
85 and over	-	-	7	1	11	-	18	1
TOTAL	61,242	132	164,215	2,405	326,923	20,376	552,380	22,913

*Totals are based on active airmen within the past 26 months.

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Table IV.I

AIRMEN BY OCCUPATION CODE,
CLASS AND SEX*
December 31, 1966

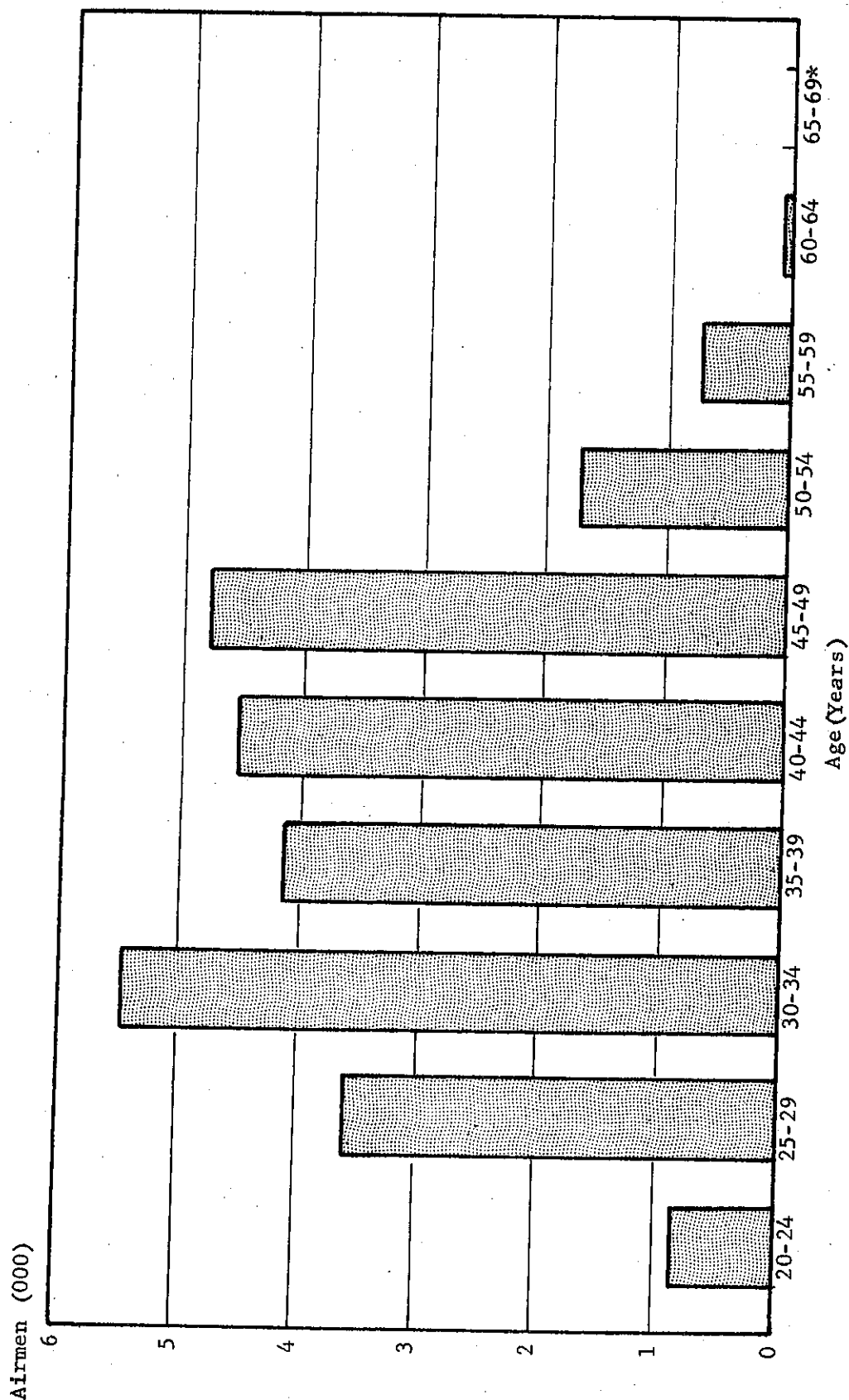
Occupation Code	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
1 - Pilot (Scheduled or Non-Scheduled Airline)	26,170	2	435	-	27	1	26,632	3
2 - Flight Engineer	1,299	1	2,791	-	34	-	4,124	1
3 - Flight Navigator/Flight Radio Operator	44	-	514	-	41	-	599	-
4 - Business or Executive Pilot	7,010	16	177	-	19	-	7,206	16
5 - Commercial Pilot (Self-Employed)	95	-	2,940	44	24	-	3,059	44
6 - Commercial Pilot (Not Self-Employed)	190	2	7,680	45	45	1	7,915	48
7 - Aero Application (Agriculture)	291	1	4,953	68	13,178	831	18,422	900
8 - Air Traffic Controller	186	-	17,168	172	289	4	17,643	176
9 - Flight Instructor	1,113	22	2,224	117	18	-	3,355	139
0 - Other Aeronautical Occupation	2,265	4	4,095	45	3,722	125	10,082	174
X - Not Given or Non-Aeronautical Occupation	22,579	84	121,238	1,914	309,526	19,414	453,343	21,412
TOTAL	61,242	132	164,215	2,405	326,923	20,376	552,380	22,913

*Totals are based on active airmen within the past 26 months.

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Chart IV.J

AGE DISTRIBUTION OF AIRLINE PILOTS
December 31, 1966



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

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Table IV.K

AGE DISTRIBUTION OF AIRLINE PILOTS*
December 31, 1966

Age Group (1)	Airline Pilots (2)	Certified First Class Airmen (3)	Percent of Total	
			Airline Pilots (4)	Certified First Class Airmen (5)
20 - 24	878	8,459	3.4	14.1
25 - 29	3,643	13,049	13.9	21.9
30 - 34	5,472	11,746	21.0	19.6
35 - 39	4,169	7,185	15.9	12.0
40 - 44	4,545	7,657	17.4	12.8
45 - 49	4,848	7,626	18.5	12.8
50 - 54	1,776	2,713	6.8	4.5
55 - 59	744	1,082	2.8	1.8
60 - 64	85	241	0.3	0.4
65 - 69	2	32	0.0+	0.1
TOTAL	26,162	59,790	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 issuances during the preceding 26 months.

+Less than one-tenth of one percent.

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

SECTION V
MEDICAL CHARACTERISTICS
OF AIRMAN POPULATION

Table V.A

SELECTED CRITICAL PATHOLOGY CODES OF
ACTIVE AIRMEN BY CLASS ISSUED*
December 31, 1966

Pathology Code	First Class	Second Class	Third Class	Total
121 Diplopia	11	42	69	122
134 Aphakia	12	53	209	274
135 Cataract	24	194	554	772
139 Glaucoma	15	74	149	238
143 Fails Color Signal Test	8	115	344	467
161 Contact Lenses	84	468	3,094	3,646
162 Blindness or Absence of Either Eye	27	219	1,608	1,854
264 Mute	-	-	25	25
431 Myocardial Disease	5	38	176	219
441 Coronary Artery Disease	4	9	26	39
464 Fibrillation	7	25	64	96
484 Hypertension with Heart Pathology	2	11	26	39
485 Hypertension with Medication	37	192	686	915
506 Complicated Ulcer	62	160	299	521
602 Cerebrovascular Accident	9	17	45	71
605 Convulsive Reaction	5	20	29	54
620 Degenerative Disease - Brain	-	-	13	13
631 Degenerative Disease - Spinal Cord	2	14	15	31
661 Psychoneurosis	49	165	369	583
665 Psychosis	-	9	14	23
666 Manic-Depressive Reaction	1	3	6	10
667 Schizophrenia	1	11	22	34
668 Personality Disorder or Abnormal Personality	16	37	71	124
684 Character Behavior Disorder	5	21	51	77
691 Mental Deficiency	-	-	1	1
922 Alcoholism	5	43	117	165
923 Drug Addiction	-	1	5	6
935 Diabetes, Controlled by Diet	50	187	347	584
936 Diabetes, Insulin**	1	2	6	9
937 Diabetes, Other Hypoglycemic Drugs**	1	10	40	51
965 Collagenous Diseases	-	5	3	8
Prefix 8 - Neoplasms	58	235	545	838
Prefix 7 - Deformed by Amputation	19	142	659	820
Prefix 6 - Deformed by Limitation of Motion	41	258	1,297	1,596

*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, Administrative and Technical Branch, Medical Statistical Section.

Table V.B

ACTIVE AIRMEN BY NUMBER OF RESTRICTIONS
CARRIED, CLASS AND SEX
December 31, 1966

Number of Restrictions	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
1	11,240	35	47,925	908	109,759	7,155	168,924	8,098
2	109	1	906	10	4,695	132	5,710	143
3	8	-	60	1	153	4	221	5
4	-	-	4	1	6	-	10	1
More than 4	2	-	-	-	-	-	2	-
TOTAL	11,359	36	48,895	920	114,613	7,291	174,867	8,247

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Table V.C

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX
December 31, 1966

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	4,014	5	11,669	186	24,424	1,213	40,107	1,454
Must Wear Glasses For Distant Vision While Flying	6,592	30	31,365	634	66,216	4,712	104,173	5,376
Must Wear Glasses For Near and Distant Vision While Flying	523	-	4,272	67	13,327	789	18,122	856
Must Wear Prismatic Correction While Flying	1	-	4	-	6	-	11	-
May Wear Contact Lenses While Flying	7	-	141	5	636	110	784	115
May Wear Contacts While Flying: Glasses Must Be Available	12	1	153	20	1,525	315	1,690	336
Must Wear Hearing Aid While Flying	4	-	52	-	124	6	180	6
Must Wear Artificial Limb or Leg Brace While Flying	9	-	22	1	30	2	61	3
Oxygen Required When Flying Above 7,999 Feet	2	-	1	-	8	-	11	-
Passenger Carrying Prohibited	-	-	2	-	2	-	4	-
Not Valid For Pilot In Command	-	-	1	-	1	1	2	1
Not Valid For Control Tower Operator Duties	56	1	272	6	212	1	540	8

Table V.C (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX
December 31, 1966

Restriction	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
Not Valid For Air Transport Duties	1	-	3	-	25	-	29	-
Flying Jet Aircraft Prohibited	-	-	1	-	-	-	1	-
Not Valid For Night Flying Or By Color Signal Control	91	-	776	-	7,195	23	8,062	23
Not Valid For Night Flying	6	-	32	-	102	3	140	3
Not Valid For Flying Where Radio Use Is Required	-	-	4	-	28	1	32	1
Flying Limited To Remote Areas	-	-	1	-	-	-	1	-
Valid For Flight Test Only	1	-	2	-	-	-	3	-
Second Class Privileges Limited To Flight Engineer Duties	-	-	50	-	1	-	51	-
Second Class Privileges Limited To Flight Navigator Duties	-	-	15	-	-	-	15	-
Second Class Privileges Limited To Control Tower Operator Duties	1	-	210	8	3	-	214	8
Limited To Military Control Tower Operator Duties	-	-	57	1	2	-	59	1
Valid For Control Tower Duties When Second Controller On Duty	-	-	4	-	2	-	6	-

Table V.C (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX
December 31, 1966

Restriction	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
Valid Only When Accompanied By Another Qualified Pilot	-	-	2	-	9	1	11	1
Valid For Student Pilot Purposes Only	4	-	19	-	3,637	175	3,660	175
Second Class Privileges Limited To Cargo Operations	-	-	-	-	2	-	2	-
Time Limitation Restrictions	115	-	447	3	1,211	44	1,773	47
Panel Restrictions	8	-	44	-	242	3	294	3
Miscellaneous Restrictions	40	-	251	3	603	32	894	35
TOTAL	11,487	37	49,872	934	119,573	7,431	180,932	8,402

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.

Table V.D

AIRMEN WITH WAIVERS
BY CLASS AND SEX
December 31, 1966

Class Issued	Frequency	
	Male	Female
First	1,475	6
Second	8,593	179
Third	8,240	491
TOTAL	18,308	676

Source: Civil Aeromedical Institute, Administrative
and Technical Branch, Medical Statistical Section.

Table V.E

AIRMEN WITH CATARACTS BY AGE AND CLASS
November 25, 1966

Age Group	Class of Medical Certificate			Total
	First Class	Second Class	Third Class	
Less than 20	-	-	12	12
20 - 24	1	9	37	47
25 - 29	-	24	60	84
30 - 34	4	16	61	81
35 - 39	2	26	76	104
40 - 44	6	33	84	123
45 - 49	5	34	79	118
50 - 54	1	19	53	73
55 - 59	3	18	41	62
60 - 64	2	7	31	40
65 and over	-	6	21	27
TOTAL	24	192	555	771

Source: Civil Aeromedical Institute, Administrative and Technical Branch,
Medical Statistical Section.

Table V.F

AIRMEN WITH DEFECTIVE COLOR VISION
BY CLASS AND SEX
December 31, 1966

Class Issued	Frequency	
	Male	Female
First	397	1
Second	1,704	1
Third	7,440	20
TOTAL	9,541	22

Source: Civil Aeromedical Institute, Administrative and Technical Branch, Medical Statistical Section.