

1977

AEROMEDICAL CERTIFICATION STATISTICAL HANDBOOK



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



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SYMBOLS

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

FOR ADDITIONAL INFORMATION ON DATA PRESENTED, please refer to the footnotes provided on the table or chart, or contact the office indicated in the source note.

SECTION I

AVIATION MEDICAL EXAMINER INFORMATION

This section reflects the activities of the Aviation Medical Examiner Program during calendar year 1977, with some comparative data for previous years.

An Aviation Medical Examiner (AME) is a physician authorized by the Federal Aviation Administration (FAA) to perform airman physical examinations for issuance of FAA medical certificates. These physicians are designated according to the geographical distribution of airmen. There are also military facilities (installations) designated to perform FAA airman examinations of military personnel for issuance of second and third class certificates. A facility or installation, instead of an individual, is designated in this instance due to frequent rotation of military medical officers.

Aviation Medical Examiner seminars are held in each region and at Oklahoma City's Aeronautical Center to acquaint these physicians with the regulations and procedures governing the issuance of FAA medical certificates.

Table I.A

DESIGNATED FAA AVIATION MEDICAL EXAMINERS BY REGION
1975-1977

Region	Percent of 1977 Total*	Aviation Medical Examiners		
		1977	1976	1975
Eastern	11.8	928	919	913
Central	8.5	665	639	611
Southern	14.8	1,156	1,154	1,138
Southwest	11.5	898	874	854
Western	10.6	831	834	834
Rocky Mountain	6.1	476	452	459
Northwest	6.1	475	459	447
New England	2.8	225	214	208
Great Lakes	15.8	1,234	1,190	1,162
Alaskan	1.0	83	82	77
Pacific	.6	46	47	51
SUBTOTAL	89.6	7,017	6,864	6,754
Military**	5.7	444	441	503
International	4.7	360	333	333
TOTAL	100.0	7,821	7,638	7,590

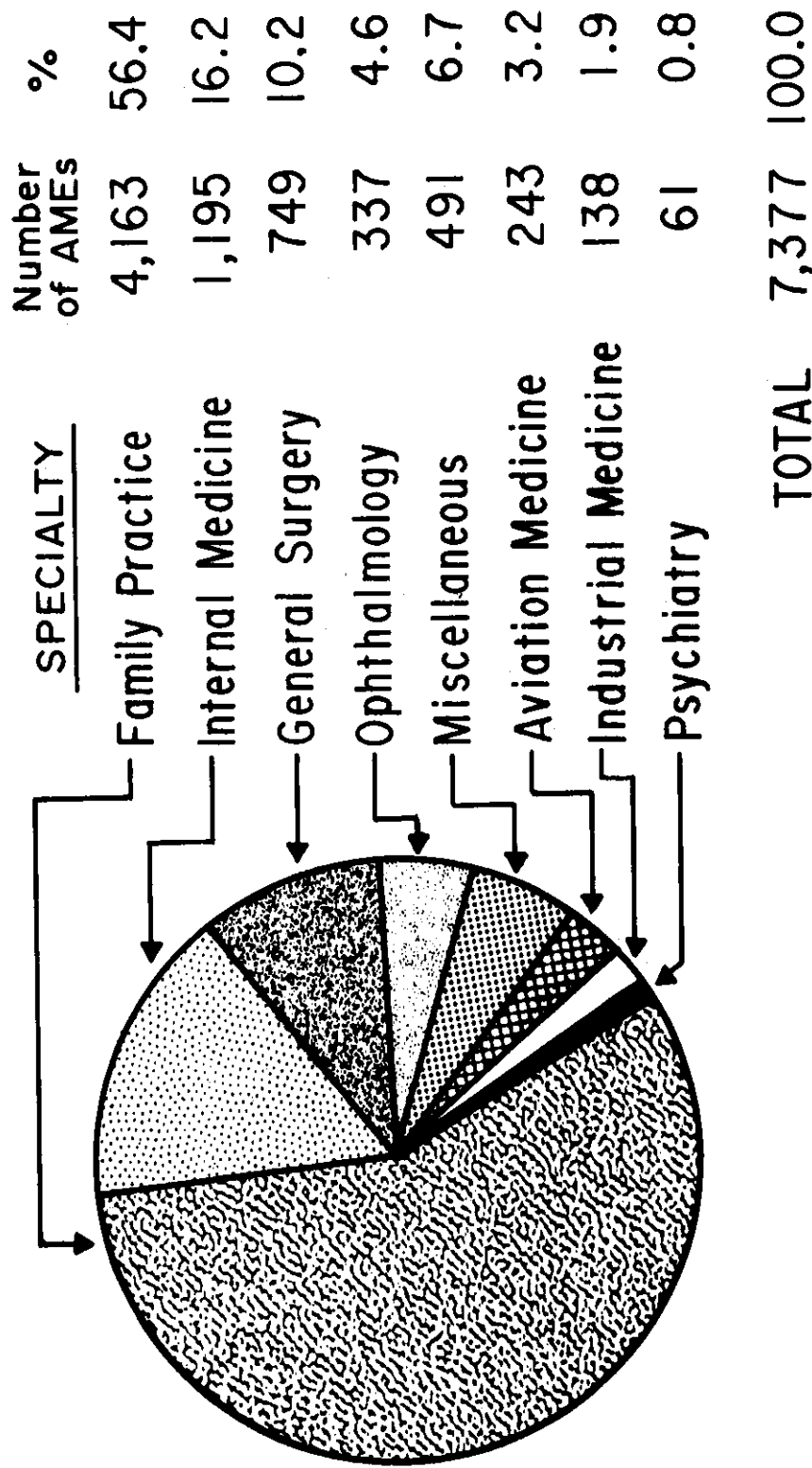
*The basis for percentage computations is total designations as of the end of calendar year 1977, i.e., U.S. and International designations represent one physician for each designation; whereas, Military designations represent one facility for each designation.

**Denotes military installation designations rather than individual physicians.

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

Figure I.B

MEDICAL PRACTICE OF AVIATION MEDICAL EXAMINERS* 1977



*Based on United States and international aviation medical examiners; military not included.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section; RIS: AC 8520-5, AME Specialty Summary by State.

Table I.C
REGIONAL COVERAGE OF AVIATION MEDICAL
EXAMINERS VERSUS CIVIL AIRMEN
1977

Region	Active U.S. Civil Airman Population*	U.S. Non- Military AME Population**	Ratio AME'S To Airmen
Eastern	95,268	928	1:103
Central	49,420	665	1:74
Southern	104,859	1,156	1:91
Southwest	86,023	898	1:96
Western	122,830	831	1:148
Rocky Mountain	36,845	476	1:77
Northwest	40,807	475	1:86
New England	31,205	225	1:139
Great Lakes	132,787	1,234	1:108
Alaskan	9,941	83	1:120
Pacific	2,566	46	1:56
TOTAL	712,551	7,017	1:101

*Active U.S. Civil Airman Population figures are as of December 31, 1977, RIS: AC 8065-4, Examination Time Period Summary. Military and international not included.

**U.S. Non-Military AME Population figures are as of January 15, 1978 RIS: AC 8520-2, AME Worklist by State (Designated FAA Aviation Medical Examiners by Region and State). Military and international not included.

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

Table I.D

AVIATION MEDICAL EXAMINERS SEMINARS
DATE, LOCATION, AND ATTENDANCE
1977

Date	Location	Attendance
January 14-16	Savannah, Georgia	84
February 4-6	Dallas, Texas	118
March 4-6	San Francisco, California	144
April 18-22	Oklahoma City, Oklahoma	54
May 9-12	Aerospace - Las Vegas, Nevada	134
June 3-5	Denver, Colorado	121
July 15-17	Philadelphia, Pennsylvania	140
August 5-7	Chicago, Illinois	194
September 26-30	Oklahoma City, Oklahoma	67
October 14-16	Atlanta, Georgia	108
October 21-23	Omaha, Nebraska	52
November 18-20	Washington, D.C.	93
TOTAL		1,309

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

Table I.E
 AVIATION MEDICAL EXAMINER
 SEMINARS AND ATTENDANCE
 1960 - 1977

Year	Seminars	Attendance
1960	1	49
1961	16	1,031
1962	24	1,431
1963	13	1,153
1964	9	1,406
1965	10	1,596
1966	7	1,187
1967	11	1,281
1968	5	545
1969	7	970
1970	5	750
1971	10	1,521
1972	5	873
1973	4	806
1974	8	1,498
1975	13	1,633
1976	15	1,871
1977	12	1,309
TOTAL	175	20,910

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

Table I.F

ACTIVE AVIATION MEDICAL EXAMINERS
SEMINAR ATTENDANCE BY REGION*
1977

Region	Total AME's	One Seminar	More Than One Seminar	No Participation At Seminars
Eastern	928	290	596	42
Central	665	251	352	62
Southern	1,156	437	626	93
Southwest	898	235	596	67
Western	831	191	606	34
Rocky Mountain	476	149	282	45
Northwest	475	163	266	46
New England	225	89	122	14
Great Lakes	1,234	420	710	104
Alaskan	83	37	38	8
Pacific	46	21	16	9
International	360	65	50	245
TOTAL	7,377	2,348	4,260	769
Percent of Total	100.0	31.8	57.8	10.4

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

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

Table I.G
REGIONAL ACTIVITIES OF THE
AVIATION MEDICAL EXAMINER PROGRAM*
1977

Region	Number of AME's Designated 1-15-77	New Designations	Separations	Net Gain or Loss	Number of AME's Designated 1-15-78
Eastern	919	66	57	+9	928
Central	639	59	33	+26	665
Southern	1,154	100	98	+2	1,156
Southwest	874	71	47	+24	898
Western	834	70	73	-3	831
Rocky Mountain	452	67	43	+24	476
Northwest	459	36	20	+16	475
New England	214	24	13	+11	225
Great Lakes	1,190	128	84	+44	1,234
Alaskan	82	9	8	+1	83
Pacific	47	8	9	-1	46
International	333	55	28	+27	360
TOTAL	7,197	693	513	+180	7,377

*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.H

AVIATION MEDICAL EXAMINER SUMMARY DATA
1977

A.	Number of Designated U.S. Non-Military Aviation Medical Examiners	7,017
B.	Number of Designated International Aviation Medical Examiners	360
C.	Number of Designated Military Aviation Medical Examiners (Installations)	444
D.	Ratio of U.S. Non-Military Aviation Medical Examiners to U.S. Civil Airmen	1:101
E.	Percentage of Non-Military Aviation Medical Examiners Who Are Qualified Pilots	47.2%*
F.	Percentage of Aviation Medical Examiners Who Were Military Flight Surgeons	16%*
G.	Percentage of Non-Military Aviation Medical Examiners Who Participate in Accident Investigation	78.8%*
H.	Percentage of Non-Military Aviation Medical Examiners Who Have Attended One Seminar	31.8%
I.	Percentage of Non-Military Aviation Medical Examiners Who Have Attended More Than One Seminar	57.8%
J.	Percentage of Non-Military Aviation Medical Examiners Who Have Not Attended a Seminar	10.4%
K.	Total Number of Seminars Conducted in 1977	12
L.	Total Attendance of Aviation Medical Examiners at Seminars Conducted in 1977	1,309

*An aviation medical examiner may have been classified in more than one of these categories.

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

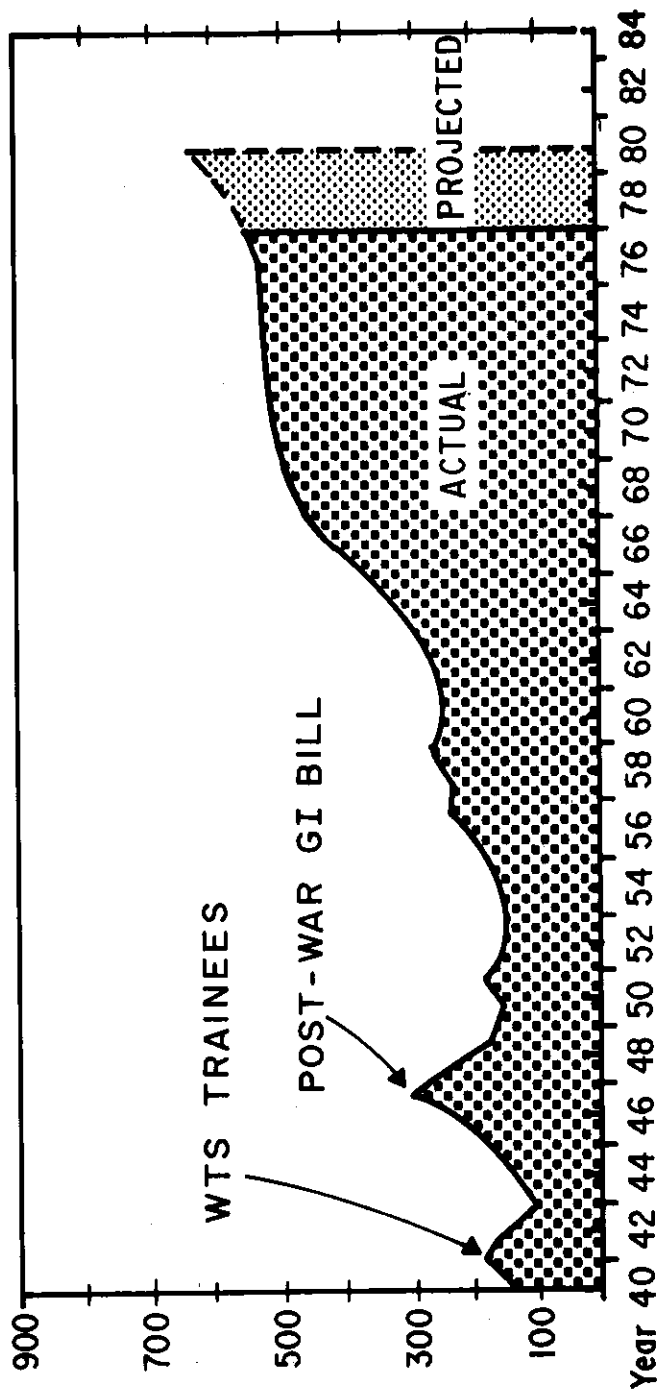
SECTION II

CERTIFICATION ACTIVITY

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

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

AIRMEN APPLICATIONS FOR MEDICAL CERTIFICATION 1940-1977 Projected to 1980 *



CALENDAR YEAR

Year	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954
Applications	134.4	172.2	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
Percentage*	+83.5	+28.2	-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
Year	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Applications	168.6	181.7	229.6	217.9	255.6	237.5	237.3	254.1	271.8	294.7	330.6	387.5	427.6	465.9	487.7
Percentage*	+5.0	+7.8	+26.3	-5.1	+17.3	-7.1	-0.1	+7.1	+6.9	+8.5	+12.2	+17.2	+10.3	+9.0	+2.7
Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Applications	487.7	493.1	494.7	521.7	515.4	519.2	542.1	550.2	572.2	595.1	618.9				
Percentage*	+1.9	+1.1	+0.3	+5.5	-1.2	+0.7	+4.4	+1.5	+4.0	+4.0	+4.0				

*Percentage of increase or decrease over previous year. Projected receipts based on 4% increase each calendar year.

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

Table II.B
 RECEIPTS OF MEDICAL CERTIFICATE
 APPLICATIONS BY CLASS*
 1960-1977

Calendar Year	Total	First Class	Percent Of		Second Class	Percent Of		Third Class	Percent Of	
			Total	Total		Total	Total		Total	Total
1960	237,509	33,964	14.3	84,715	35.7	118,830	50.0			
1961	237,311	33,936	14.3	84,644	35.7	118,731	50.0			
1962	254,142	36,342	14.3	90,647	35.7	127,153	50.0			
1963	271,764	38,862	14.3	96,933	35.7	135,969	50.0			
1964	294,734	42,147	14.3	105,126	35.7	147,461	50.0			
1965	330,617	52,006	15.7	109,600	33.2	169,011	51.1			
1966	387,537	73,903	19.1	124,593	32.1	189,041	48.8			
1967	427,596	80,474	18.8	143,458	33.6	203,664	47.6			
1968	465,929	87,408	18.8	173,139	37.2	205,382	44.0			
1969	478,700	90,666	18.9	178,699	37.3	209,335	43.8			
1970	487,700	94,419	19.4	189,276	38.8	204,005	41.8			
1971	493,145	91,478	18.5	204,853	41.5	196,814	40.0			
1972	494,700	86,573	17.5	205,597	41.6	202,530	40.9			
1973	521,700	93,384	17.9	220,679	42.3	207,637	39.8			
1974	515,400	91,741	17.8	214,922	41.7	208,737	40.5			
1975	519,200	91,379	17.6	224,814	43.3	203,007	39.1			
1976	542,159	93,793	17.3	230,418	42.5	217,948	40.2			
1977	550,243	97,393	17.7	230,552	41.9	222,298	40.4			

*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 1977 were based on percentages compiled from the Record of Physical Examinations Computer Submission Summary, AC 8500-3.

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

Table II.C

MEDICAL APPLICATIONS PROCESSING BY THE
AEROMEDICAL CERTIFICATION BRANCH
1977

Month	Applications Coded for Computer Screening			Applications Screened by Computer*	Applications Requiring Manual Review**		Applications Intra-Agency Transmitted***	
	Applications Received	Computer	Screening		Computer*	Manual Review**	Transmitted***	
January	42,109	39,709		47,916	22,149		247	
February	38,160	44,200		39,235	17,536		264	
March	47,781	44,081		50,745	23,947		300	
April	46,634	44,534		44,737	21,097		267	
May	49,760	52,060		44,587	20,984		339	
June	50,601	55,901		48,335	22,816		279	
SUBTOTAL	275,045	280,485		275,555	128,529		1,696	
July	47,894	40,994		46,943	22,660		266	
August	52,233	59,233		53,839	26,248		242	
September	48,064	40,264		50,094	24,424		267	
October	47,207	42,107		43,235	20,793		293	
November	41,342	53,842		58,727	27,436		245	
December	38,458	32,858		46,765	22,378		278	
SUBTOTAL	275,198	269,298		299,603	143,939		1,591	
TOTAL	550,243	549,783		575,158	272,468		3,287	

*Figures reflect the number of submissions to the computer rather than the number of applications because an application may have to be submitted to the computer more than once before it is accepted.

**Total applications rejected for any reason; 48.2% of applications screened by computer.

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

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

Table II.D
AEROMEDICAL CERTIFICATION BRANCH
CORRESPONDENCE SECTION ACTIVITY
1977

Activity	Frequency	Subtotal	Percent of Total
<u>Certification</u>			
Issued, Corrected or Duplicate Certificates	11,530		
Eligibility Letters	30,548		
Issued or Duplicate Waivers	10,568	52,646	51.1
<u>Further Action Necessary</u>			
Information Requested	33,660		
Medical Flight Test Authorization	9,332		
Case Summary for the Federal Air Surgeon	748	43,740	32.1
<u>Information Requested From the Branch</u>			
Telegram Replies to Airmen/Agency Offices	485		
Replies to Insurance Companies	86	571	0.5
<u>Denial Letters</u>			
Mandatory Denials	628		
Other Denials	5,426	6,054	5.5
<u>Miscellaneous Correspondence*</u>			
TOTAL	9,972	9,972	10.8
		112,983	100.0

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

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

Table II.E

AEROMEDICAL CERTIFICATION BRANCH COMPUTER TAPE FILE SUMMARY

As of: December 31, 1977

Action	Time Lapse Since Date of Last Examination					Total
	<7 Month	<13 Month	<25 Month	Subtotal	25-36 Month	
<u>Certified</u>						
First Class	50,558	24,918	10,117	85,593	4,575	N/A
Second Class	104,421	104,949	100,868	310,238	45,300	N/A
Third Class	121,973	95,960	197,824	415,757	97,462	N/A
SUBTOTAL	276,952	225,827	308,809	811,588	147,337	N/A
<u>Non-Certified</u>						
Pending	1,267	442	810	2,519	-	N/A
Denied	2,883	2,709	5,415	11,007	8,192	N/A
SUBTOTAL	4,150	3,151	6,225	13,526	8,192	N/A
<u>Link*</u>	N/A	N/A	N/A	N/A	N/A	245,576
TOTAL	281,102	228,978	315,034	825,114	155,529	245,576
EFFECTIVE STATUS TOTAL:	CLASS 1 = 50,558	CLASS 2 = 234,288	CLASS 3 = 526,742			

*Abbreviated records maintained on individuals having significant pathology who have not had a physical examination in the past 36 months. These people may or may not have been certified.

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

Table II.F

MEDICAL CERTIFICATION ACTIVITY SUMMARY
1974-1977

Activity	CY 1977	CY 1976	CY 1975
Applications for Medical Certification	550,243	542,159	519,200
New Applications for First Class Medical Certificates*	-	1,805	1,461
New Applications for Second Class Medical Certificates*	-	16,028	16,291
New Applications for Third Class Medical Certificates*	-	73,995	71,201
First Class Combined Student/Medical Certificates	3,442	2,799	2,521
Second Class Combined Student/Medical Certificates	20,902	20,575	20,350
Third Class Combined Student/Medical Certificates	207,831	202,452	190,642
Electrocardiograms Received for First Class Pilots	37,028	32,831	32,867
Incoming Correspondence**	92,447	80,292	89,175
Outgoing Correspondence	112,983	105,681	114,172
Applications Containing Medical or Clerical Problems	272,468	253,839	250,794
Number of Abnormalities Detected in Electrocardiograms	4,186	4,283	4,627
Number of First Class Active Airmen with Pathology Records	16,734	15,614	15,114
Number of Second Class Active Airmen with Pathology Records	65,882	63,617	61,538
Number of Third Class Active Airmen with Pathology Records	62,509	62,252	59,968

*An application receipt is considered a "new application" if the airman has made no indication of previous FAA physical examination and if total flying time equals last six months flying time. Of examinations performed in 1976, 1,732 or 1.9% new applications were denied, 422 or 0.5% were pending, and 89,674 or 97.6% were issued for a total of 91,828 new applications.

Table II.F (Continued)

MEDICAL CERTIFICATION ACTIVITY SUMMARY
1974-1977

The "Record of Physical Examinations Computer Submissions Summary Report," AC 8500-3, was modified during 1969 to reflect the final certification action for each application performed during the previous year. The report is produced in August of each year and reflects data for the previous year.

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

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

SECTION III

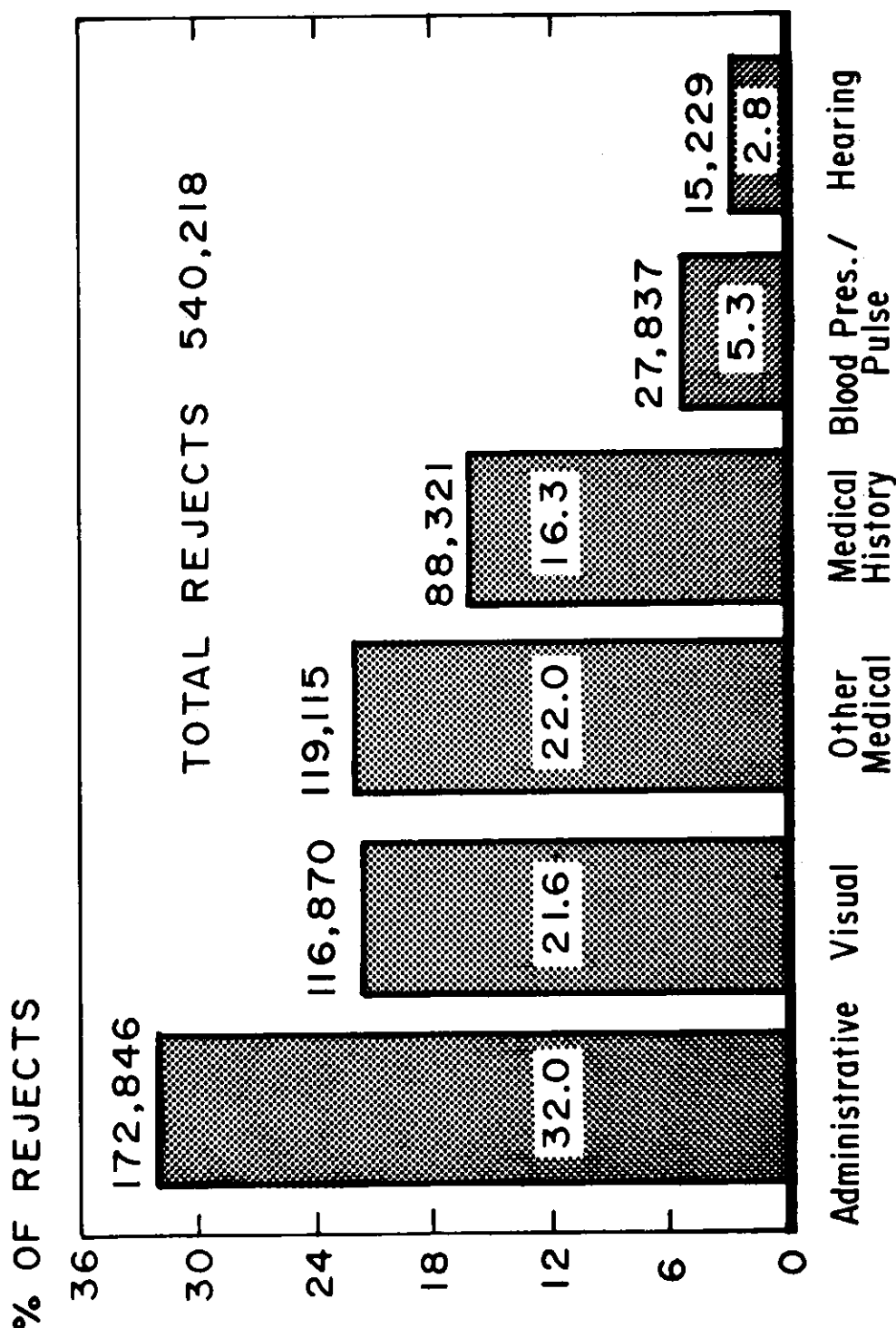
REFERRALS AND DENIALS

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

These data are presented by calendar year and reflect the number of rejects, either medical or administrative, generated when the application enters the automated system. Also included are data reflecting the number of cases considered at the appellate levels, by the Federal Air Surgeon or the Federal Aviation Administration.

Figure III.A

DISTRIBUTION OF CAUSES FOR REVIEW BY MAJOR CATEGORY 1977



Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section;
RIS: AC 8500-3, Aeromedical Certification Processing Summary.

TABLE III.B

DISTRIBUTION OF CAUSES OF REVIEW BY MAJOR AND MINOR CATEGORIES
1977

Reject	Major Category		Minor	
	Totals	Percent	Categories	Percent
<u>Administrative</u>	172,846	32.0		
First Class by Military			220	0.04
Matches Link Record			6,721	1.25
Special Case			2,324	0.43
Previous Pending			6,026	1.12
Clerical Reject			13,414	2.48
Class Issued Higher Than Applied For			2,254	0.42
First Class Over 60 Years of Age			1,266	0.23
Coded Previous Waiver			15,790	2.92
Re-Submit Exam to Computer			3,219	0.60
Date of ECG for First Class Exams			5,679	1.05
State Code/Zip Code			7,968	1.47
Date of Examination			1,092	0.20
No Match Between New and Previous Exams			22,527	4.17
Follow-Up Material Requested			4,879	0.90
Discrepancy in Pathology Data			12,492	2.31
Discrepancy in Social Security Number			21,910	4.06
Other*			45,065	8.34
<u>Visual</u>	116,870	21.6		
Distant Vision			40,029	7.41
Near Vision			24,281	4.49
Intraocular Tension			8,911	1.65
Field of Vision			6,920	1.28
Color Vision			8,461	1.56
Variation in Distant Vision			17,732	3.28
Esophoria and Exophoria			8,347	1.54
Right or Left Hyperphoria			2,189	0.39
<u>Other Medical Conditions</u>	119,115	22.0		
Denied or Pending			16,003	2.96
Urinalysis			7,473	1.38
Pathology Codes			33,978	6.28
Abnormalities (Items 25-48)			20,670	3.82
Medication			40,991	7.58
<u>Medical History</u>	88,321	16.4		
Previous Denial Indicated			10,244	1.89
Medical History			74,914	13.86
Previous Exam on Tape Denied			1,891	0.35
Previous Exemption Case			886	0.16
New Exemption Case			386	0.07
<u>Blood Pressure/Pulse</u>	27,837	5.2		
Blood Pressure			6,706	1.24
Pulse			21,131	3.91
<u>Hearing</u>	15,229	2.8		
Hearing			15,229	2.82
TOTAL REJECT CARDS	540,218	100.0		

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

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

Table III.C
 APPEALS CONSIDERED BY
 THE FEDERAL AIR SURGEON
 1961 - 1977

Year	Certified	Denied	Total
1961*	70	204	274
1962*	189	372	561
1963*	147	472	619
1964*	149	711	860
1965*	242	661	903
1966*	119	344	463
1967**	95	234	329
1968**	106	273	379
1969**	140	273	413
1970**	172	372	544
1971**	140	379	519
1972**	197	480	677
1973**	259	521	780
1974**	349	565	914
1975**	421	738	1,159
1976**	309	591	900
1977**	249	725	974
TOTAL	3,353	7,915	11,268

*Incomplete figures for January through March 1961.

**Figures for 1967 - 1977 include only reconsideration actions. They do not include opinions and/or other decisions rendered by the Federal Air Surgeon (cases reviewed and eventually referred to other offices for appropriate action).

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

Table III.D

RECONSIDERATION ACTIONS BY THE
FEDERAL AIR SURGEON*
1977

Pathology	First Class	Second Class	Third Class	Modifications	Total
<u>Issued</u>					
Eye	6	2	19	1	28
Ear, Nose, Throat	1	-	2	-	3
Respiratory	-	1	6	-	7
Cardiovascular	17	7	28	2	54
Abdominal	3	1	13	-	17
Neurologic	8	9	46	2	65
Psychiatric	4	14	22	3	43
Bone/Joint	3	-	4	-	7
Muscles	1	-	-	-	1
Miscellaneous	1	2	21	-	24
TOTAL ISSUANCES	44	36	161	8	249
<u>Denied</u>					
Eye	3	5	65	-	73
Ear, Nose, Throat	-	2	4	-	6
Respiratory	4	5	11	-	20
Cardiovascular	44	72	179	3	298
Abdominal	3	8	25	-	36
Neurologic	17	35	111	3	166
Psychiatric	12	25	63	1	101
Bone/Joint	2	1	2	-	5
Muscles	-	-	-	-	-
Miscellaneous	1	1	9	1	12
SUBTOTAL	86	154	469	8	717
Denials for Failure to Provide Additional Information (67.31)	3	2	3	-	8
TOTAL DENIALS	89	156	472	8	725

*Figures include only reconsideration actions. They do not include opinions and/or other decisions rendered by the Federal Air Surgeon (cases reviewed and eventually referred to other offices for appropriate action).

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

Table III.E

RECONSIDERATION ACTIONS BY THE
FEDERAL AIR SURGEON*
1963 - 1977

Pathology	First Class	Second Class	Third Class	Modifications	Total
<u>Issued</u>					
Eye	93	167	267	3	530
Ear, Nose, Throat	12	10	35	2	59
Respiratory	4	12	57	-	73
Cardiovascular	153	180	480	18	831
Abdominal	19	37	118	2	176
Neuropsychiatric	143	253	706	28	1,130
Bone/Joint	9	7	37	1	54
Muscles	1	1	6	-	8
Miscellaneous	23	55	150	5	233
TOTAL	457	722	1,856	59	3,094
<u>Denied</u>					
Eye	90	274	504	2	870
Ear, Nose, Throat	19	16	24	-	59
Respiratory	15	38	144	-	197
Cardiovascular	339	686	1,842	23	2,890
Abdominal	33	73	221	3	330
Neuropsychiatric	310	611	1,453	13	2,387
Bone/Joint	13	10	38	-	61
Muscles	2	4	12	-	18
Miscellaneous	47	86	278	7	418
SUBTOTAL	868	1,798	4,516	48	7,230
Denials for Failure to Provide Additional Information (67.31)	14	39	56	-	109
TOTAL DENIALS	882	1,837	4,572	48	7,339

*Figures include only reconsideration actions. They do not include opinions and/or other decisions rendered by the Federal Air Surgeon (cases reviewed and eventually referred to other offices for appropriate action).

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

Table III.F
 PETITIONS GRANTED OR DENIED
 BY THE FAA*
 1977

Pathology	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	-	-	6	6
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	2	2
Cardiovascular	5	14	111	130
Abdominal	-	-	1	1
Neuropsychiatric	74	23	81	178
Bone/Joint	-	-	-	-
Muscles	-	-	-	-
Miscellaneous	-	-	-	-
TOTAL GRANTS	79	37	201	317
Modifications	N/A	N/A	N/A	42
<u>Denied</u>				
Eye	-	4	15	19
Ear, Nose, Throat	-	-	-	-
Respiratory	-	-	2	2
Cardiovascular	31	77	210	318
Abdominal	-	1	3	4
Neuropsychiatric	8	25	68	101
Bone/Joint	-	-	-	-
Muscles	-	-	-	-
Miscellaneous	1	-	5	6
TOTAL DENIALS	40	107	303	450
Denials for Failure to Provide Additional Information (67.31)	N/A	N/A	N/A	180
Modifications	N/A	N/A	N/A	21

*Counts are based on number of petitions considered rather than the number of airmen petitioning. Airmen now petition the FAA rather than the Administrator and all petitions are granted or denied by AAM-1.

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

Table III.G
 PETITIONS GRANTED OR DENIED
 BY THE FAA*
 1961 - 1977

Pathology	First Class	Second Class	Third Class	Total
<u>Granted</u>				
Eye	11	27	79	117
Ear, Nose, Throat	1	2	1	4
Respiratory	-	1	12	13
Cardiovascular	40	175	1,129	1,344
Abdominal	3	1	21	25
Neuropsychiatric	138	127	518	783
Bone/Joint	1	1	3	5
Muscles	-	-	-	-
Miscellaneous	2	6	11	19
TOTAL GRANTS	196	340	1,774	2,310
<u>Denied</u>				
Eye	11	76	94	181
Ear, Nose, Throat	-	2	2	4
Respiratory	3	6	32	41
Cardiovascular	327	663	1,858	2,848
Abdominal	5	13	44	62
Neuropsychiatric	145	319	784	1,248
Bone/Joint	1	5	10	16
Muscles	-	-	2	2
Miscellaneous	12	21	122	155
TOTAL DENIALS	504	1,105	2,948	4,557
Denials for Failure to Provide Additional Information (67.31)	N/A	N/A	N/A	1,256
Modifications	N/A	N/A	N/A	226

*Counts are based on number of petitions considered rather than number of airmen petitioning. Airmen now petition the FAA rather than the Administrator and all petitions are granted or denied by AAM-1.

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

Table III.H
STATUS OF AIRMEN WHO HAVE BEEN
GRANTED EXEMPTIONS
1961 - 1977

Status of Airmen	Percent	Number of Airmen
Airmen Granted Exemptions*	100.0	2,193
Currently Active Airmen	42.2	916
Deceased	3.0	62
Grants Terminated:		
Adverse Change in Condition	10.3	246
No Longer Abide By Grants (Issued Under FAR 67.19)	2.4	48
For Various Personal Reasons Have Not Validated Their Grants	42.1	921

*Although airmen may have been granted more than one exemption, they have only been counted once. There are 117 airmen who have been granted two or more exemptions (upgraded their grants).

Source: Civil Aeromedical Institute, Aeromedical Certification Branch; and, Office of Aviation Medicine, Aeromedical Standards Division, Appeals 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, 1977, and cover the preceding 25 months. The 25 month time period was used to describe the active airman population because a medically certified airman is considered "active" for a maximum of 25 months after his last FAA physical examination, i.e., regardless of the class of medical certificate issued, it is valid for third class purposes for a period of time up to 25 months. Those airmen who have allowed their medical certification to lapse into a time period greater than 25 months would be considered "inactive" airmen.

Data are presented by class of medical certificate issued and do not include applications pending or denied. Table IV.A presents data by "effective status" of medical certification. This refers to the time lapse since the certificate was issued as opposed to the class issued. Present FAA regulations stipulate that air transport pilots must be first class medically certified at six month intervals, commercial pilots must be second class medically certified annually, and general aviation airmen must obtain third class medical certification every two years. Thus, an airman may be first or second class medically certified and the time lapse since examination would reduce the "effective status" to a lesser class.

Table IV.A

REGIONAL DISTRIBUTION OF ACTIVE AIRMEN BY CLASS OF CERTIFICATE AND EFFECTIVE STATUS*
As Of: December 31, 1977

Region	First Class			Second Class			Third Class			Total Active Airmen		
	Effective			Effective			Effective			Percent		
	Total Certified	Status 1	Status (Class)** 2	Total Certified	Status 2	Status (Class)** 3	Total Certified	Status 3	Status (Class)** 3	Total Certified	Of Total Airmen	Status (Class)** 1 2 3
Eastern	11,664	6,976	3,352	1,336	31,037	20,754	10,283	52,567	52,567	95,268	11.7	6,976 24,106 64,186
Central	3,185	1,962	924	299	14,617	9,941	4,676	31,618	31,618	49,420	6.1	1,962 10,865 36,593
Southern	14,413	8,719	4,060	1,634	36,669	24,729	11,940	53,777	53,777	104,859	12.9	8,719 28,789 67,351
Southwest	9,443	5,693	2,778	972	31,096	21,498	9,598	45,484	45,484	86,023	10.6	5,693 24,276 56,054
Western	16,655	9,947	4,698	2,010	39,008	25,578	13,430	67,167	67,167	122,830	15.1	9,947 30,276 82,607
Rocky Mountain	3,498	2,052	1,063	383	12,481	8,390	4,091	20,866	20,866	36,845	20.4	2,052 9,453 25,340
Northwest	3,981	2,338	1,199	444	14,407	9,552	4,855	22,419	22,419	40,807	5.0	2,338 10,751 27,718
New England	4,797	3,022	1,328	447	10,172	6,729	3,443	16,236	16,236	31,205	3.9	3,022 8,057 20,126
Great Lakes	11,224	6,469	3,567	1,188	40,992	26,832	14,160	80,571	80,571	132,787	16.4	6,469 30,399 95,919
Alaskan	939	480	354	105	3,823	2,731	1,092	5,179	5,179	9,941	1.2	480 3,085 6,376
Pacific	612	345	205	62	1,130	831	299	824	824	2,566	0.3	345 1,036 1,185
U. S. TOTAL	80,411	48,003	23,528	8,880	235,432	157,565	77,867	396,708	396,708	712,551	87.8	48,003 181,093 483,455
Military***	52	26	18	8	70,733	49,087	21,646	14,493	14,493	85,278	10.5	26 49,105 36,147
Foreign	5,130	2,529	1,372	1,229	4,073	2,718	1,355	4,556	4,556	13,759	1.7	2,529 4,090 7,140
TOTAL	85,593	50,558	24,918	10,117	310,238	209,370	100,868	415,757	415,757	811,588	100.0	50,558 234,288 526,742
Percent of Total Certified Airmen	(10.6)				(38.2)			(51.2)		(100.0)		

*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; RLS: 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, 1977

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Alabama	468	4	2,946	91	4,149	363	7,563	458
Alaska	932	10	3,614	209	4,534	657	9,080	876
Arizona	1,109	10	4,230	159	6,621	824	11,960	993
Arkansas	287	3	2,485	75	3,518	260	6,290	338
California	14,454	235	31,464	1,377	50,731	6,382	96,649	7,994
Colorado	2,534	43	5,512	202	6,808	804	14,854	1,049
Connecticut	2,105	15	2,671	82	3,781	405	8,557	502
Delaware	233	2	574	7	715	73	1,522	82
District of Columbia	74	2	222	30	330	55	626	87
Florida	7,190	104	13,795	530	17,413	2,232	38,398	2,866
Georgia	3,476	24	4,845	141	6,420	592	14,741	757
Hawaii	610	6	1,078	58	692	135	2,380	199
Idaho	287	6	1,614	47	3,145	271	5,046	324
Illinois	3,958	46	9,344	357	17,831	1,612	31,133	2,015
Indiana	912	14	4,596	162	9,138	758	14,646	934
Iowa	365	4	3,050	59	7,798	612	11,213	675
Kansas	988	14	4,170	135	7,953	821	13,111	970
Kentucky	300	9	1,955	42	3,478	266	5,733	317
Louisiana	953	6	3,919	96	3,958	371	8,830	473
Maine	209	2	1,021	26	1,917	161	3,147	189
Maryland	914	9	2,816	133	4,779	531	8,509	673
Massachusetts	1,335	18	3,823	168	6,054	666	11,212	852
Michigan	1,521	23	7,293	253	13,924	1,171	22,738	1,447
Minnesota	2,113	17	5,279	157	9,274	797	16,666	971
Mississippi	273	2	2,104	38	2,624	210	5,001	250
Missouri	1,513	16	4,655	138	8,471	813	14,639	967
Montana	215	2	1,801	53	3,209	305	5,225	360
Nebraska	291	-	2,382	64	4,822	412	7,495	476
Nevada	841	12	1,697	50	2,293	313	4,831	375
New Hampshire	858	3	1,363	44	1,389	148	3,610	195
New Jersey	2,845	25	4,458	175	7,724	771	15,027	971

Table IV.B (Continued)

ACTIVE AIRMEN'S STATE OF RESIDENCE
BY SEX AND CLASS OF CERTIFICATE ISSUED*
As Of: December 31, 1977

State	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
New Mexico	298	7	2,102	103	2,890	345	5,290	455
New York	3,062	31	9,503	318	15,207	1,475	27,772	1,824
North Carolina	934	9	3,923	85	6,322	522	11,179	616
North Dakota	87	-	1,202	29	2,233	178	3,522	207
Ohio	1,686	22	9,314	343	16,264	1,611	27,264	1,976
Oklahoma	847	14	4,518	164	7,181	726	12,546	904
Oregon	591	10	4,717	149	7,301	828	12,609	987
Pennsylvania	2,202	21	6,536	237	11,857	1,062	20,595	1,320
Rhode Island	138	1	447	17	796	85	1,381	103
South Carolina	417	12	1,968	52	2,949	247	5,334	311
South Dakota	88	-	1,019	14	2,238	145	3,345	159
Tennessee	1,181	11	3,837	164	5,531	505	10,549	680
Texas	6,959	50	17,026	515	23,830	2,376	47,815	2,941
Utah	384	4	1,800	50	2,975	243	5,159	297
Vermont	121	-	443	18	777	91	1,341	109
Virginia	1,978	20	4,718	176	5,610	617	12,306	813
Washington	3,041	58	7,577	293	9,730	1,175	20,348	1,526
West Virginia	192	-	893	22	1,684	104	2,769	126
Wisconsin	916	12	3,827	80	7,574	712	12,317	804
Wyoming	141	2	794	24	1,653	146	2,588	172
U. S. CIVILIAN								
TOTAL	79,426	970	226,940	8,011	360,095	36,984	666,461	45,965
Military and NASA	315	2	69,775	2,128	14,179	1,084	84,269	3,214
International	4,856	24	3,306	78	3,167	248	11,329	350
TOTAL AIRMEN	84,597	996	300,021	10,217	377,441	38,316	762,059	49,529

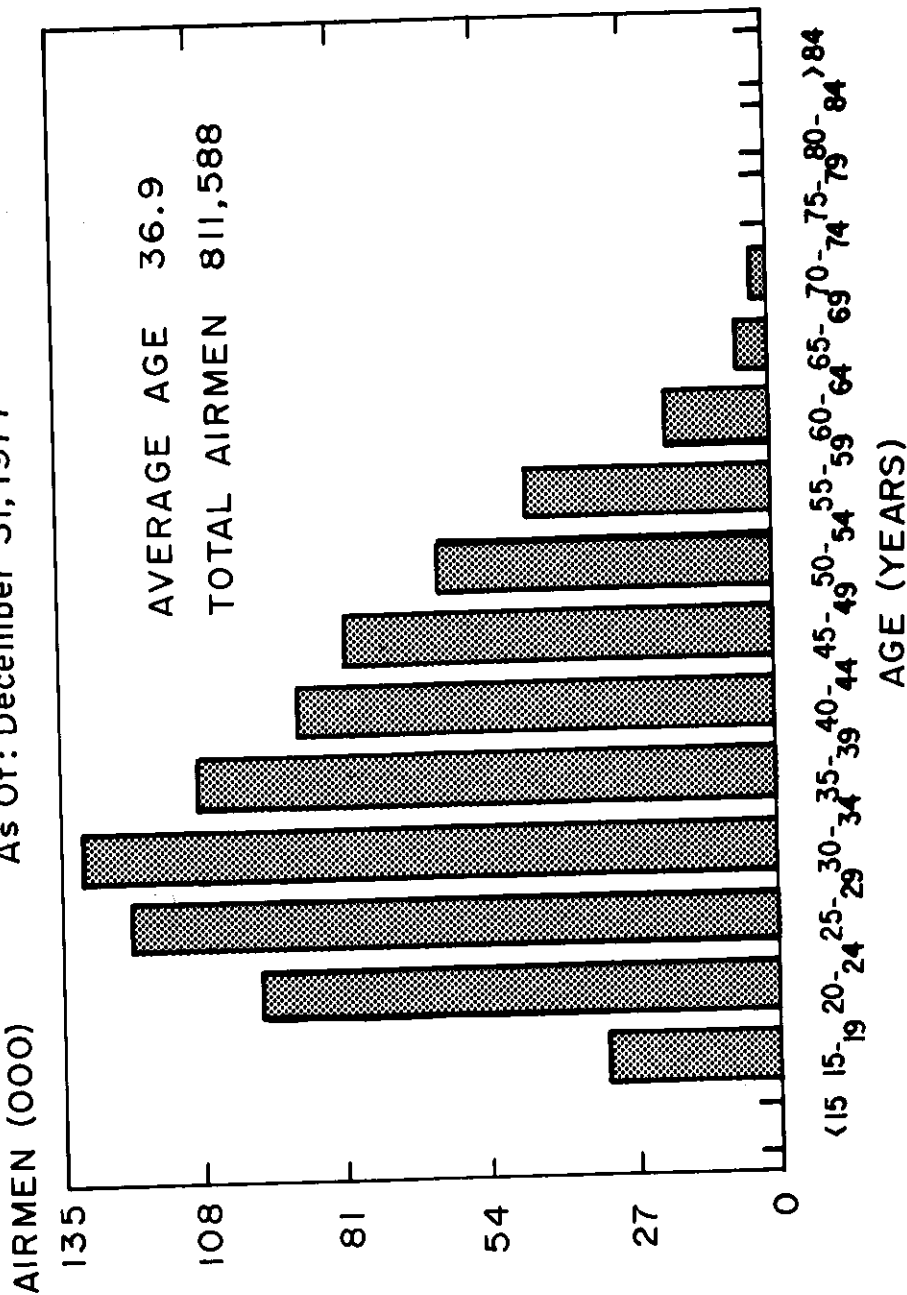
*Totals are based on active airmen certified within the past 25 months.

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, 1977

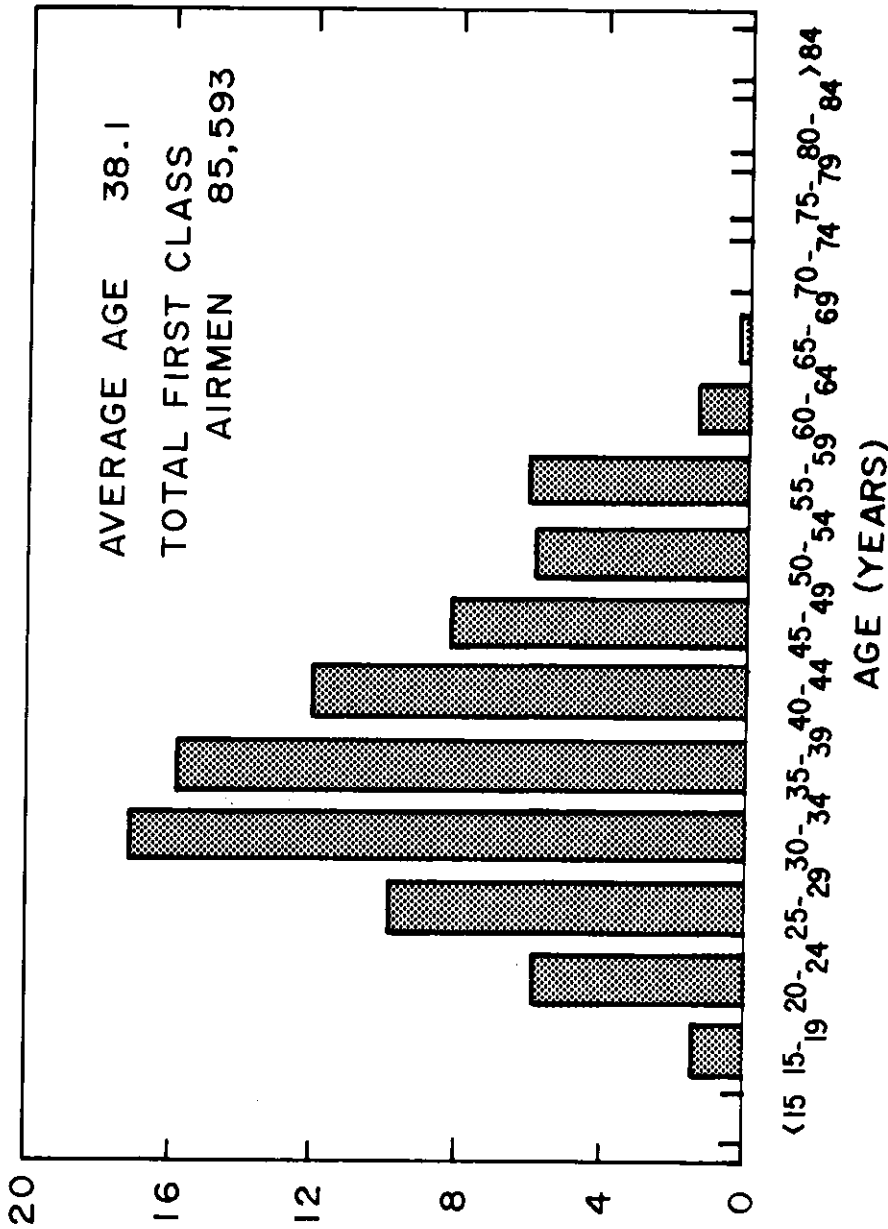


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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, 1977

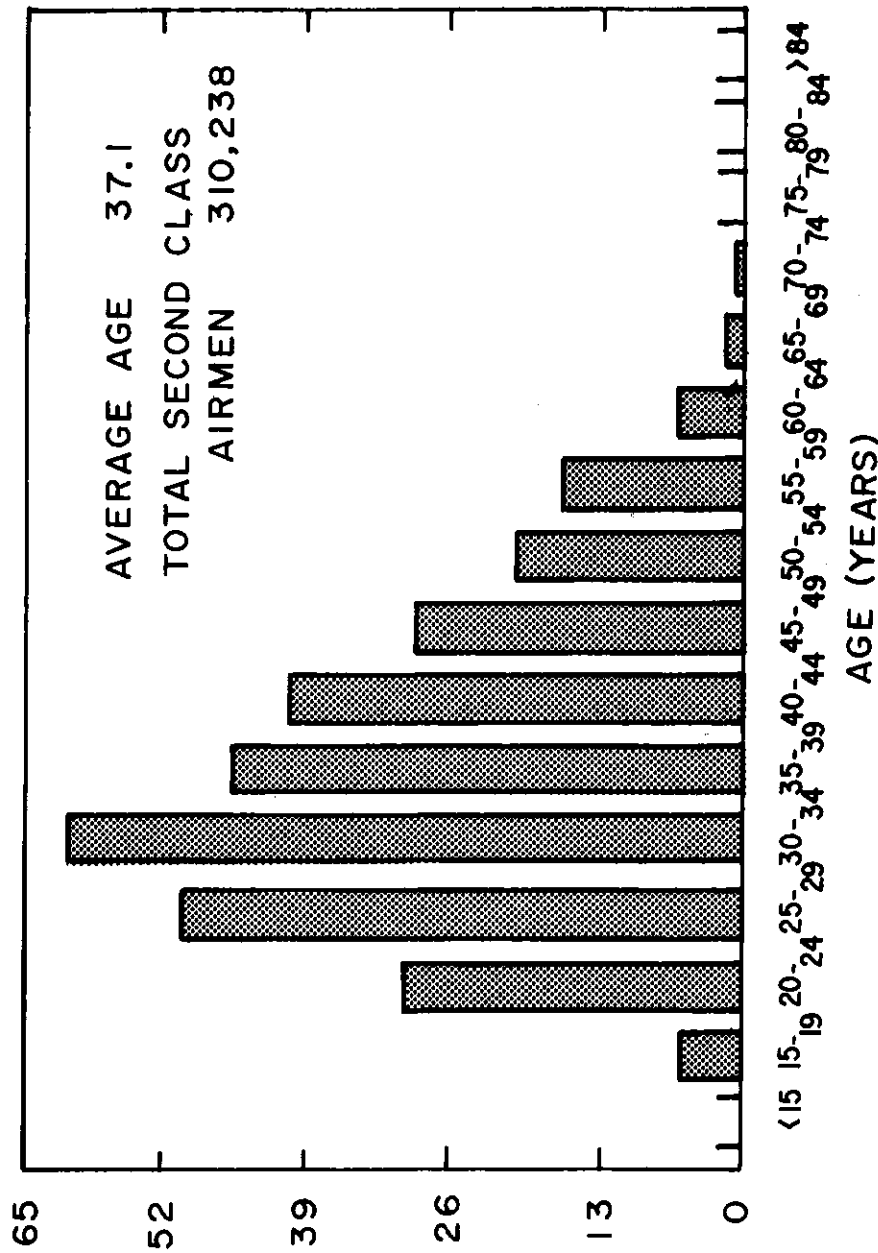


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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

Figure IV.E

AGE DISTRIBUTION OF MEDICALLY CERTIFIED SECOND CLASS AIRMEN AIRMEN (000) As Of: December 31, 1977

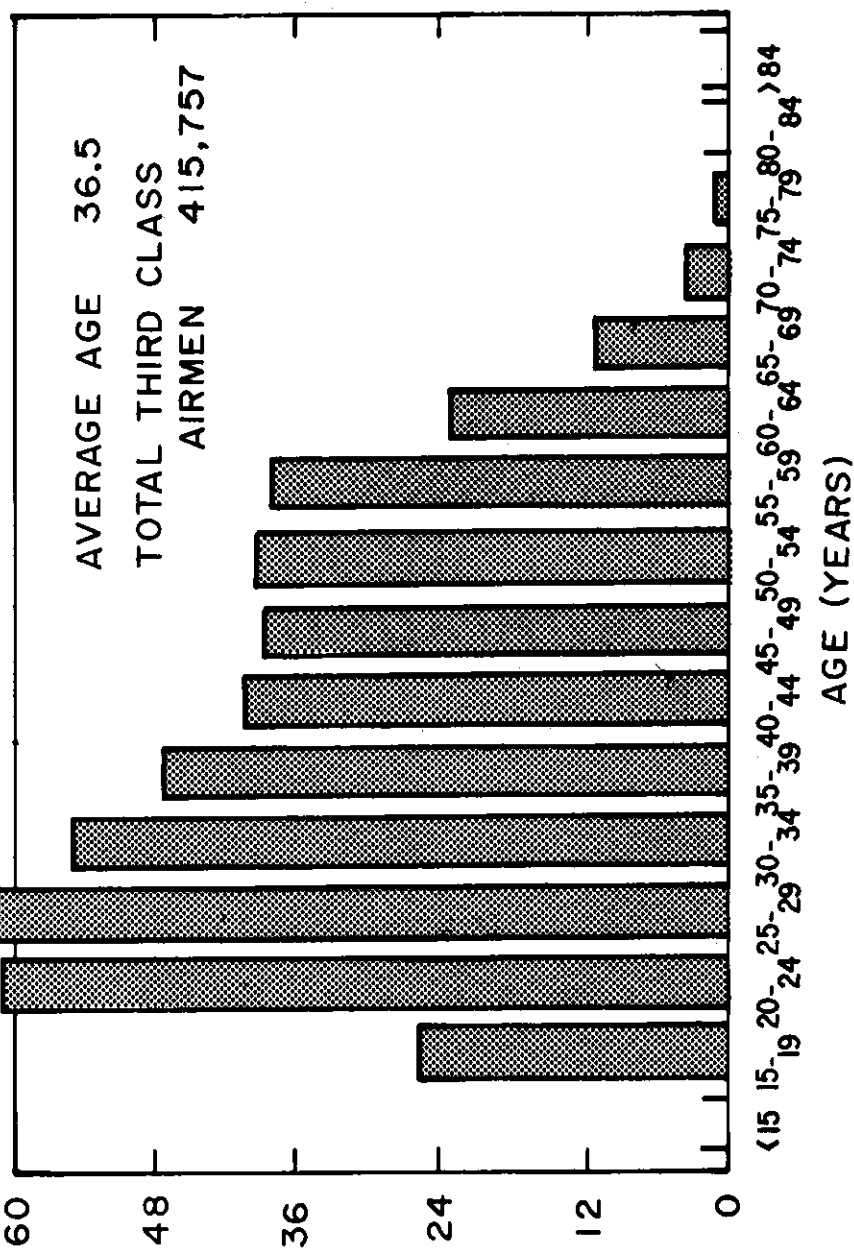


*Brackets are indicative of age class intervals wherein magnitudes are not apparent on this scale. In such instances, the accompanying table (Table IV.G) should be consulted for frequencies.

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, 1977



*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, 1977

Age	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 15	4	1	3	1	37	4	44	6
15 - 19	1,412	85	5,345	501	22,992	2,945	29,749	3,531
20 - 24	5,871	236	28,267	2,462	54,781	6,268	88,919	8,966
25 - 29	10,130	252	48,403	2,200	54,946	7,200	113,479	9,652
30 - 34	17,065	185	58,363	1,492	49,779	6,660	125,207	8,337
35 - 39	15,746	99	44,709	1,053	42,562	4,999	103,017	6,151
40 - 44	12,125	38	39,672	736	36,315	3,416	88,112	4,190
45 - 49	8,138	41	29,023	647	40,935	2,946	78,096	3,634
50 - 54	5,947	29	20,316	537	36,548	2,151	62,811	2,717
55 - 59	6,359	19	16,908	358	22,153	1,117	45,420	1,494
60 - 64	1,528	9	6,300	142	10,686	419	18,514	570
65 - 69	223	2	1,946	57	3,988	147	6,157	206
70 - 74	38	-	601	25	1,283	34	1,922	59
75 - 79	10	-	142	6	330	8	482	14
80 - 84	1	-	21	-	98	1	120	1
85 and over	-	-	2	-	8	1	10	1
TOTAL	84,597	996	300,021	10,217	377,441	38,316	762,059	49,529

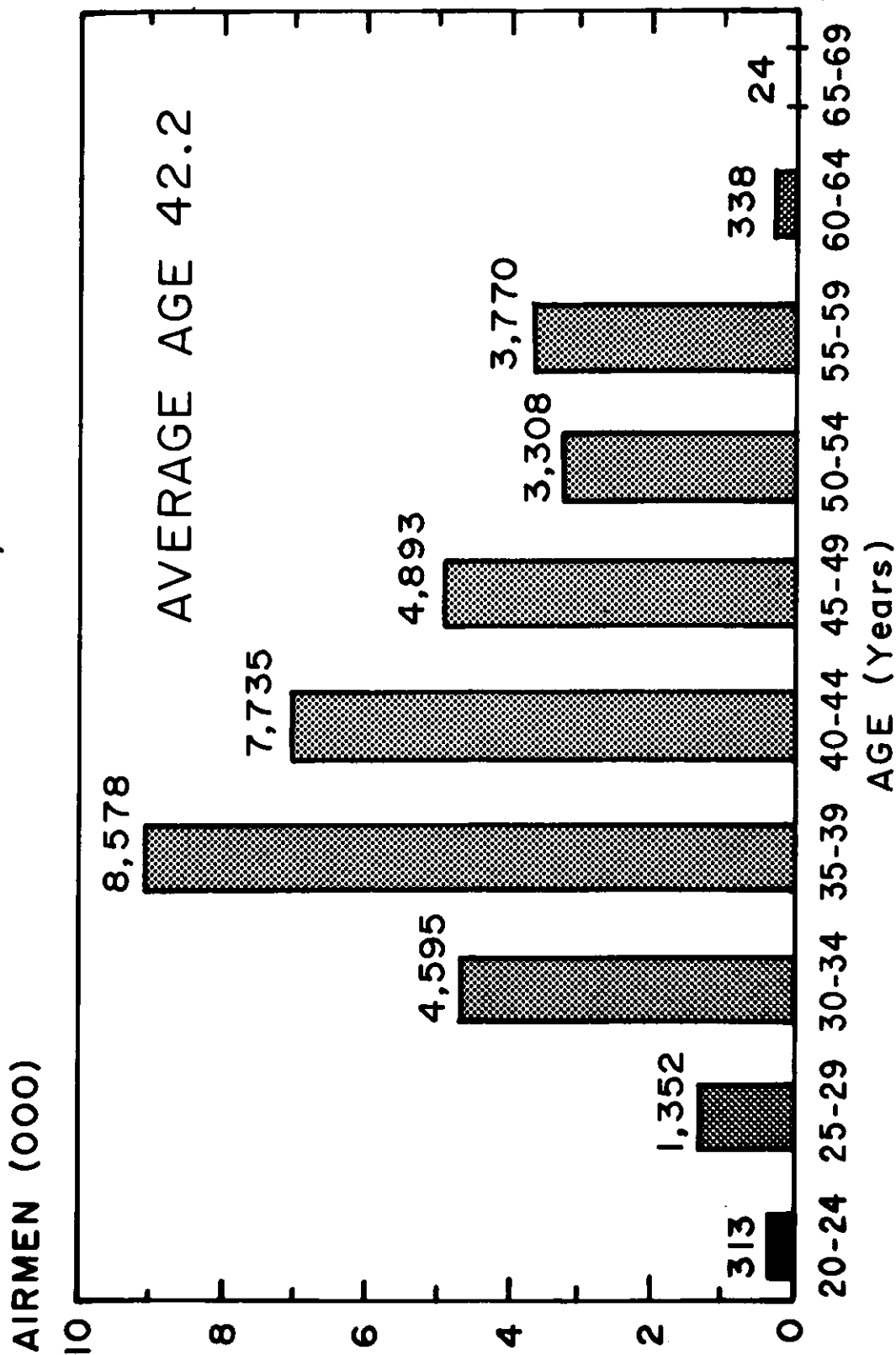
*Totals are based on active certified airmen within the past 25 months.

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, 1977



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

Table IV.1
AGE DISTRIBUTION OF AIRLINE PILOTS*
As Of: December 31, 1977

Age Groups (1)	Airline Pilots (2)	Certified First Class Airmen** (3)	Percent of Total	
			Airline Pilots (4)	Certified First Class Airmen (5)
20 - 24	313	6,107	0.9	7.3
25 - 29	1,352	10,382	3.9	12.3
30 - 34	4,595	17,250	13.2	20.5
35 - 39	8,578	15,845	24.6	18.9
40 - 44	7,735	12,163	22.2	14.5
45 - 49	4,893	8,179	14.0	9.7
50 - 54	3,308	5,976	9.5	7.1
55 - 59	3,770	6,378	10.8	7.6
60 - 64	338	1,537	0.9	1.8
65 - 69	24	225	0.0+	0.3
TOTAL	34,906	84,042	100.0	100.0

*Airline Pilots, Column (2), were determined by the combination of first class medical certificate issuance during the preceding 13 months and an occupation of "pilot for an airline." Figures in Column (3) were based on first class medical certificate issuance during the preceding 25 months.

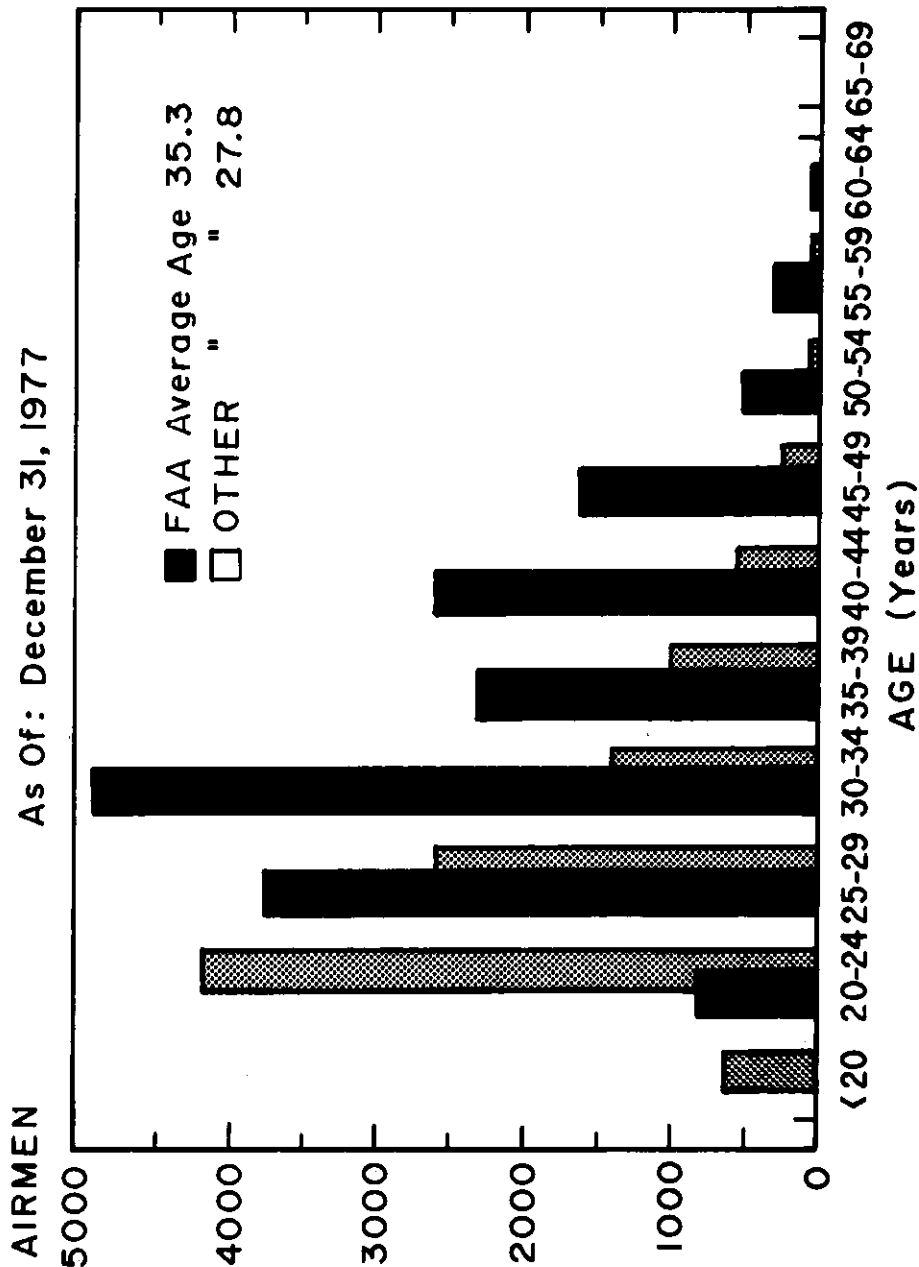
**Extreme age groups were deleted to more closely compare with age requirements for airline pilots. Under Part 121, Federal Aviation Regulations, no person may serve as a pilot on an airplane engaged in air carrier operations if that person has reached his 60th birthday. However, some airmen falling into this category still list their occupation as "pilot" even though their actual duties do not involve control of the airplane.

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

Figure IV.J

AGE DISTRIBUTION OF AIR TRAFFIC CONTROLLERS

As Of: December 31, 1977



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

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

Table IV.K

AGE DISTRIBUTION OF AIR TRAFFIC CONTROLLERS*
As of: December 31, 1977

Age	FAA ATC'S	Other ATC'S
Less than 20	12	687
20 - 24	829	4,150
25 - 29	3,799	2,608
30 - 34	4,946	1,425
35 - 39	2,340	1,020
40 - 44	2,661	627
45 - 49	1,672	234
50 - 54	544	77
55 - 59	346	50
60 - 64	51	13
65 - 69	5	1
Over 69	-	-
TOTAL	17,205	10,892
Percent of all Certified Second Class Airmen	5.5	3.5

*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, 1977

Height In Inches	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 59	107	6	382	64	483	195	972	265
59	27	-	113	26	126	118	266	144
60	187	16	719	268	846	1,124	1,752	1,408
61	65	29	311	338	482	1,356	858	1,723
62	71	79	343	898	687	3,749	1,101	4,726
63	91	85	508	1,107	1,050	4,232	1,649	5,424
64	293	159	1,685	1,575	2,783	5,910	4,761	7,644
65	689	145	3,545	1,512	5,368	5,539	9,602	7,196
66	2,023	172	9,809	1,504	13,536	5,931	25,368	7,607
67	4,137	105	16,447	1,173	21,612	4,335	42,196	5,613
68	8,637	102	30,208	831	38,227	3,001	77,072	3,934
69	10,023	49	34,533	507	41,281	1,469	85,837	2,025
70	13,190	28	45,634	230	57,166	736	115,990	994
71	12,160	8	43,596	83	55,822	309	111,578	400
72	15,521	9	52,812	65	63,472	151	131,805	225
73	7,131	1	24,455	14	30,745	43	62,331	58
74	5,837	1	18,954	3	23,317	52	48,108	56
75	2,589	-	8,734	7	10,767	20	22,090	27
Over 75	1,819	2	7,233	12	9,671	46	18,723	60
TOTAL	84,597	996	300,021	10,217	377,441	38,316	762,059	49,529
Average Height	70.6	65.4	70.5	65.1	70.5	64.9	70.5	65.0

*Totals are based on active airmen certified within the past 25 months. Height, as reported by the airman, is rounded to the nearest inch.

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, 1977

Weight In Pounds	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Less than 90	68	2	89	17	193	63	350	82
90 - 99	9	12	11	111	66	516	86	639
100 - 109	33	66	94	709	348	2,939	475	3,714
110 - 119	166	231	528	1,882	1,358	7,382	2,052	9,495
120 - 129	607	267	2,201	2,466	4,978	9,463	7,786	12,196
130 - 139	1,987	204	7,900	2,190	13,444	7,573	23,331	9,967
140 - 149	5,098	107	18,287	1,266	26,757	4,529	50,142	5,902
150 - 159	10,492	49	34,935	707	44,982	2,494	90,409	3,250
160 - 169	14,950	24	48,283	349	58,564	1,318	121,797	1,691
170 - 179	16,664	17	53,933	194	62,432	782	133,029	993
180 - 189	14,172	7	49,163	131	56,083	507	119,418	645
190 - 199	9,170	4	34,156	72	39,917	305	83,243	381
200 - 209	5,107	2	21,328	41	25,618	183	52,053	226
210 - 219	2,909	1	12,977	32	17,129	79	33,015	112
220 - 229	1,654	1	7,497	14	10,821	71	19,972	86
230 - 239	798	-	4,041	13	6,150	50	10,989	63
240 - 249	371	-	2,079	9	3,648	22	6,098	31
Over 249	342	2	2,519	14	4,953	40	7,814	56
TOTAL	84,597	996	300,021	10,217	377,441	38,316	762,059	49,529
Average Weight	176.6	129.7	178.6	132.8	178.1	132.2	178.1	132.2

*Totals are based on active airmen certified within the past 25 months. Weight, as reported by the airman, is rounded to the nearest pound.

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, 1977

Class Issued	Type of Flying**			
	Business	Percent	Pleasure	Percent
First	70,445	(8.7)	15,148	(1.9)
Second	99,079	(12.2)	211,159	(26.0)
Third	55,336	(6.8)	360,421	(44.4)
TOTAL	224,860	(27.7)	586,728	(72.3)

*Totals are based on active airmen certified within the past 25 months. Basis for percentage computations is also total active certified airmen (811,588).

**Based on response by airman in Block 14 of FAA Form 8500-8. If type of flying was not given, it was classified as "pleasure." If both business and pleasure were indicated, type of flying was classified as "business."

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

Table IV.0

AIRMEN BY OCCUPATION, CLASS AND SEX*
As Of: December 31, 1977

Occupation Code	First Class		Second Class		Third Class		Total	
	Male	Female	Male	Female	Male	Female	Male	Female Percent
1 - Pilot (Scheduled or Non-Scheduled Airline)	37,342	57	188	-	21	2	37,551	59 (4.6)
2 - Flight Engineer	1,674	2	2,831	2	13	-	4,518	4 (0.6)
3 - Flight Navigator/Flight Radio Operator	12	1	61	-	-	-	73	1 (0.0+)
4 - Business or Executive Pilot	18,192	118	266	1	9	-	18,467	119 (2.3)
5 - Commercial Pilot (Self Employed)	23	-	3,041	58	5	-	3,069	58 (0.4)
6 - Commercial Pilot (Not Self Employed)	109	1	12,835	131	20	-	12,964	132 (1.6)
7 - Aero Application (Agriculture)	105	-	3,474	4	14	-	3,593	4 (0.4)
8 - Air Traffic Controller	458	14	34,755	2,851	106	12	35,319	2,877 (4.7)
9 - Flight Instructor	2,829	153	4,580	352	11	-	7,420	505 (1.0)
0 - Aircraft Mechanic and Fixed Base Operators	458	1	3,461	19	599	20	4,518	40 (0.6)
F - Flight Service Station Specialist	118	7	3,923	363	101	95	4,142	465 (0.6)
X - Not Given or Non-Aeronautical Occupation	23,277	642	230,606	6,436	376,542	38,187	630,425	45,265 (83.2)
TOTAL	84,597	996	300,021	10,217	377,441	38,316	762,059	49,529 (100.0)

*Totals are based on active airmen certified within the past 25 months. Occupation was based on response by the airman in Block 10 of FAA Form 8500-8; if not given, occupation was classified as "non-aeronautical." Basis for percentage computations is number in each occupation category to total airmen.

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, 1977

Employer	First Class	Second Class	Third Class	Total	Major Percents Of Total
Airlift International	110	34	-	144	
Airwest	538	40	1	579	
Alaska Airlines	164	20	-	184	
Allegheny Airlines	923	40	1	964	
Aloha Airlines	68	6	-	74	
American Airlines	3,605	647	5	4,257	
American Flyers Airlines Corp.	2	-	-	2	
Braniff Airways	1,407	29	2	1,438	
Capitol International Airways	76	36	-	112	
Continental Air Lines	1,088	83	1	1,172	
Delta Air Lines	3,172	47	4	3,223	
Eastern Airlines	3,714	188	7	3,909	
Flying Tiger Line	434	45	-	479	
Frontier Airlines	490	43	2	535	
Hawaiian Airlines	139	11	-	150	
National Airlines	588	280	-	868	
New York Airways	3	-	-	3	
North Central Airlines	495	15	1	511	
Northwest Airlines	1,429	16	1	1,446	
Overseas National Airways	78	46	-	124	
Ozark Airlines	379	15	1	395	
Pacific Southwest Airlines	267	33	1	301	
Pan American World Airways	2,149	401	5	2,555	
Piedmont Aviation	399	37	2	438	
Saturn Airways	9	7	-	16	
Seaboard World Airlines	114	63	-	177	
Southern Air Transport	2	1	-	3	
Southern Airways	354	18	-	372	
Trans International Airlines	294	130	-	424	
Texas International Airlines	278	29	1	308	
Trans World Airlines	3,575	391	6	3,972	
United Airlines	5,249	427	14	5,690	
Western Airlines	1,305	149	-	1,454	
Wien Consolidated Airlines	143	16	2	161	
World Airways	151	40	-	191	
 SUBTOTAL ALL AIRLINES	 33,191	 3,383	 57	 36,631	 4.5

Table IV.P (Continued)
 EMPLOYERS OF ACTIVE AIRMEN BY
 CLASS OF CERTIFICATE ISSUED*
 As of: December 31, 1977

Employer	First Class	Second Class	Third Class	Total	Major Percent Of Total
Federal Aviation Administration	1,815	20,212	539	22,566	2.8
Government, other than military or FAA, includes state and local government	654	1,121	8	1,783	0.2
Aircraft Industry	541	581	22	1,144	0.1
Industry, other than aircraft	4,920	2,411	11	7,342	0.9
Fixed Base Operation (flying schools, etc.)	2,210	6,938	348	9,496	1.2
Self Employed	1,915	5,303	41	7,259	0.9
Other	16,667	11,458	79	28,204	3.5
Not Applicable	21,270	212,319	414,193	647,782	79.8
Air Force	1,448	25,787	77	27,312	3.4
Army	216	8,043	33	8,292	1.0
Coast Guard	17	188	1	206	0.0+
Marines and Navy	647	12,225	51	12,923	1.6
National Aeronautics and Space Administration	82	269	297	648	0.1
SUBTOTAL ALL OTHERS	52,402	306,855	415,700	774,957	95.5
TOTAL	85,593	310,238	415,757	811,588	100.0

*Totals are based on active airmen certified within the past 25 months. Employer data is provided by the airman in Block 12 of FAA Form 8500-8. If blank or other than aeronautical employer is reflected, it is classified as "not applicable."

NOTE: Mergers, name changes, etc., will necessarily affect frequencies recorded until such changes are known to the Aeromedical Certification Branch and code schedules are changed accordingly.

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

SECTION V

MEDICAL CHARACTERISTICS OF THE AIRMAN POPULATION

This section presents medical characteristics of the active airman population (those airmen certified within the preceding 25 months) as of December 31, 1977, by class of medical certificate issued.

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS A
ACTIVE AIRMEN BY CLASS AND
As Of: December 31, 197

	First Class		Second C	
	Male	Female	Male	F
ontrol Tower ies	15	-	95	
ir Transport	-	-	4	
ircraft	-	-	1	
ight Flying or nal Control (n)	88	-	1,968	
ight Flying	-	-	4	
lying Where Required	-	-	13	
To Remote Areas	-	-	1	
ut Service Station ties only	-	-	51	
nt Test only	10	-	29	
ivileges Limited ing	-	-	5	
ivileges Limited ngineer Duties	2	-	31	

Table V.A
ACTIVE AIRMEN BY NUMBER OF RESTRICTIONS
CARRIED, CLASS AND SEX*
As Of: December 31, 1977

Number of Restrictions	First Class		Second Class		Third Class		Total Airmen		Total Airmen
	Male	Female	Male	Female	Male	Female	Male	Female	
1	25,686	364	124,207	4,721	165,179	16,934	315,072	22,019	337,091
2	383	2	4,951	239	8,161	285	13,495	526	14,021
3	31	1	208	2	309	9	548	12	560
4	1	-	10	-	12	-	23	-	23
More Than 4	-	-	-	-	-	-	-	-	-

*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.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE ARMEN BY CLASS AND SEX*

	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Privileges Limited Navigator Duties	-	-	2	-	-	-	2	-
Privileges Limited Tower Operator	2	-	15	-	4	-	21	-
Limited To ATC	9	2	3,512	244	38	1	3,559	247
Duties - Center	-	-	35	5	10	1	45	6
Light Service Station	-	-	378	17	6	-	384	17
itary Controller	1	-	389	85	8	-	398	85
rol Tower Duties Controller On	1	-	3	-	2	-	6	-
n Accompanied by lified Pilot	-	-	2	-	3	-	5	-
ent Pilot ly	4	1	110	6	2,657	241	2,771	248
Privileges Limited erations	-	-	1	-	-	-	1	-

ged 12-21-76 with the FAR revision concerning contact
ns were assigned before the FAR revision.

Table V.B

ENCY OF RESTRICTIONS AMONG
E ARMEN BY CLASS AND SEX*
Of: December 31, 1977

1st Class		Second Class		Third Class		Total Airmen	
Female	Male	Female	Male	Female	Male	Female	Male
22	22,181	478	32,425	1,993	63,378	2,493	
269	97,838	3,734	127,118	13,534	241,075	17,537	
-	46	8	97	25	154	33	
-	37	1	19	2	63	3	
73	4,311	554	4,723	1,335	9,879	1,962	
-	136	1	345	7	500	8	
-	105	2	270	5	394	7	
-	6	-	11	1	20	1	
-	8	-	9	1	20	1	
1	11	-	5	1	21	2	

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: December 31, 1977

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Issued On Basis of Demonstrated Medical Fitness	-	-	-	-	1	-	1	-
Time Limitation Restrictions	294	-	2,481	50	3,977	260	6,752	310
Panel Restrictions	137	2	185	-	791	18	1,113	20
Miscellaneous Restrictions	183	1	779	13	922	49	1,884	63
TOTAL	26,549	371	134,773	5,205	182,476	17,531	343,798	23,107

*Figures are based on active airmen certified within the past 25 months; however, the restriction may have been assigned prior to the most recent examination. Airmen may have more than one restriction.

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

Table V.C

ACTIVE AIRMEN WITH DEFECTIVE COLOR VISION
BY CLASS AND SEX*
As Of: December 31, 1977

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	600	(0.7)	2	(0.2)
Second	4,869	(1.6)	13	(0.1)
Third	11,085	(2.9)	79	(0.2)
TOTAL	16,554	(2.2)	94	(0.2)

*Figures are based on active airmen certified within the past 25 months and the assignment of the restriction "Not Valid For Night Flying or by Color Signal Control" or issuance of a waiver for deficient color vision.

**Basis for percentages is the number of active airmen by sex within each class, i.e., 0.7% of first class male airmen have defective color vision, etc. Percent of total is computed using the total male or female population.

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

Table V.D

ACTIVE AIRMEN WITH WAIVERS
 BY CLASS AND SEX*
 As Of: December 31, 1977

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	5,632	(6.6)	140	(14.1)
Second	34,439	(11.5)	1,439	(14.1)
Third	17,604	(4.7)	1,981	(5.2)
TOTAL	57,675	(7.6)	3,560	(7.2)

*Figures are based on active airmen certified within the past 25 months; however, the waiver may have been issued prior to the most recent examination. Tabulations were based on an indication of a waiver in the class issued code or the presence of a waiver number.

**Basis for percentages is the number of active airmen by sex within each class. Percent of total is computed using the total male or female population.

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



Table V.A
ACTIVE AIRMEN BY NUMBER OF RESTRICTIONS
CARRIED, CLASS AND SEX*
As Of: December 31, 1977

Number of Restrictions	First Class		Second Class		Third Class		Total Airmen		Total Airmen
	Male	Female	Male	Female	Male	Female	Male	Female	
1	25,686	364	124,207	4,721	165,179	16,934	315,072	22,019	337,091
2	383	2	4,951	239	8,161	285	13,495	526	14,021
3	31	1	208	2	309	9	548	12	560
4	1	-	10	-	12	-	23	-	23
More Than 4	-	-	-	-	-	-	-	-	-

*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.B

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: December 31, 1977

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Must Have Available Glasses For Near Vision	8,772	22	22,181	478	32,425	1,993	63,378	2,493
Must Wear Corrective Lenses	16,119	269	97,838	3,734	127,118	13,534	241,075	17,537
Must Wear Corrective Lenses For Distant Vision and Possess Glasses for Near Vision	11	-	46	8	97	25	154	33
Must Wear Prismatic Correction While Flying	7	-	37	1	19	2	63	3
+Must Wear Corrective Lenses: Extra Pair Must Be Available	845	73	4,311	554	4,723	1,335	9,879	1,962
Must Wear Hearing Aid	19	-	136	1	345	7	500	8
Must Wear Artificial Limb	19	-	105	2	270	5	394	7
Oxygen Required When Flying Above 7,999 Feet	3	-	6	-	11	1	20	1
Passenger Carrying Prohibited	3	-	8	-	9	1	20	1
Not Valid For Pilot In Command	5	1	11	-	5	1	21	2

*Wording of this restriction changed 12-21-76 with the FAR revision concerning contact lenses; however, some restrictions were assigned before the FAR revision.

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: December 31, 1977

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Not Valid For Control Tower Operator Duties	15	-	95	1	59	1	169	2
Not Valid For Air Transport Duties	-	-	4	-	4	-	8	-
Flying of Jet Aircraft Prohibited	-	-	1	-	1	-	2	-
Not Valid For Night Flying or By Color Signal Control (Color Vision)	88	-	1,968	4	8,842	50	10,898	54
Not Valid For Night Flying (Glaucoma)	-	-	4	-	8	-	12	-
Not Valid For Flying Where Radio Use Is Required	-	-	13	-	91	5	104	5
Flying Limited To Remote Areas	-	-	1	-	-	-	1	-
Valid For Flight Service Station or Center Duties only	-	-	51	2	2	-	53	2
Valid For Flight Test only	10	-	29	-	27	1	66	1
Second Class Privileges Limited To Crop Dusting	-	-	5	-	-	-	5	-
Second Class Privileges Limited To Flight Engineer Duties	2	-	31	-	1	-	34	-

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As Of: December 31, 1977

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Second Class Privileges Limited To Flight Navigator Duties	-	-	2	-	-	-	2	-
Second Class Privileges Limited To Control Tower Operator Duties	2	-	15	-	4	-	21	-
Valid For And Limited To ATC Duty only	9	2	3,512	244	38	1	3,559	247
Valid For ATC Duties - Center Only	-	-	35	5	10	1	45	6
Valid For Flight Service Station Duties only	-	-	378	17	6	-	384	17
Limited to Military Controller Duties	1	-	389	85	8	-	398	85
Valid For Control Tower Duties When Second Controller On Duty	1	-	3	-	2	-	6	-
Valid Only When Accompanied by Another Qualified Pilot	-	-	2	-	3	-	5	-
Valid For Student Pilot Purposes Only	4	1	110	6	2,657	241	2,771	248
Second Class Privileges Limited To Cargo Operations	-	-	1	-	-	-	1	-

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG
ACTIVE AIRMEN BY CLASS AND SEX*
As of: December 31, 1977

Restriction	First Class		Second Class		Third Class		Total Airmen	
	Male	Female	Male	Female	Male	Female	Male	Female
Issued On Basis of Demonstrated Medical Fitness	-	-	-	-	1	-	1	-
Time Limitation Restrictions	294	-	2,481	50	3,977	260	6,752	310
Panel Restrictions	137	2	185	-	791	18	1,113	20
Miscellaneous Restrictions	183	1	779	13	922	49	1,884	63
TOTAL	26,549	371	134,773	5,205	182,476	17,531	343,798	23,107

*Figures are based on active airmen certified within the past 25 months; however, the restriction may have been assigned prior to the most recent examination. Airmen may have more than one restriction.

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

Table V.C

ACTIVE AIRMEN WITH DEFECTIVE COLOR VISION
BY CLASS AND SEX*
As Of: December 31, 1977

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	600	(0.7)	2	(0.2)
Second	4,869	(1.6)	13	(0.1)
Third	11,085	(2.9)	79	(0.2)
TOTAL	16,554	(2.2)	94	(0.2)

*Figures are based on active airmen certified within the past 25 months and the assignment of the restriction "Not Valid For Night Flying or by Color Signal Control" or issuance of a waiver for deficient color vision.

**Basis for percentages is the number of active airmen by sex within each class, i.e., 0.7% of first class male airmen have defective color vision, etc. Percent of total is computed using the total male or female population.

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

Table V.D
ACTIVE AIRMEN WITH WAIVERS
BY CLASS AND SEX*
As Of: December 31, 1977

Class Issued	Frequency**			
	Male	Percent	Female	Percent
First	5,632	(6.6)	140	(14.1)
Second	34,439	(11.5)	1,439	(14.1)
Third	17,604	(4.7)	1,981	(5.2)
TOTAL	57,675	(7.6)	3,560	(7.2)

*Figures are based on active airmen certified within the past 25 months; however, the waiver may have been issued prior to the most recent examination. Tabulations were based on an indication of a waiver in the class issued code or the presence of a waiver number.

**Basis for percentages is the number of active airmen by sex within each class. Percent of total is computed using the total male or female population.

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

