

*C. Boze*

AC 8500-1

**1978**

# **AEROMEDICAL CERTIFICATION STATISTICAL HANDBOOK**



**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
MIKE MONRONEY AERONAUTICAL CENTER  
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 1978, 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  
1976-1978

| Region         | Percent of<br>1978 Total* | Aviation Medical Examiners |       |       |
|----------------|---------------------------|----------------------------|-------|-------|
|                |                           | 1978                       | 1977  | 1976  |
| Eastern        | 11.6                      | 931                        | 928   | 919   |
| Central        | 8.7                       | 697                        | 665   | 639   |
| Southern       | 15.2                      | 1,219                      | 1,156 | 1,154 |
| Southwest      | 11.6                      | 934                        | 898   | 874   |
| Western        | 10.0                      | 800                        | 831   | 834   |
| Rocky Mountain | 6.2                       | 502                        | 476   | 452   |
| Northwest      | 6.0                       | 485                        | 475   | 459   |
| New England    | 3.0                       | 245                        | 225   | 214   |
| Great Lakes    | 15.5                      | 1,244                      | 1,234 | 1,190 |
| Alaskan        | 1.0                       | 82                         | 83    | 82    |
| Pacific        | 0.6                       | 46                         | 46    | 47    |
| SUBTOTAL       | 89.4                      | 7,185                      | 7,017 | 6,864 |
| Military**     | 6.0                       | 485                        | 444   | 441   |
| International  | 4.6                       | 369                        | 360   | 333   |
| TOTAL          | 100.0                     | 8,039                      | 7,821 | 7,638 |

\*The basis for percentage computations is total designations as of the end of calendar year 1978, i.e., U.S. and International designations represent one physician for each designation; whereas, Military designations represent one facility for each designation.

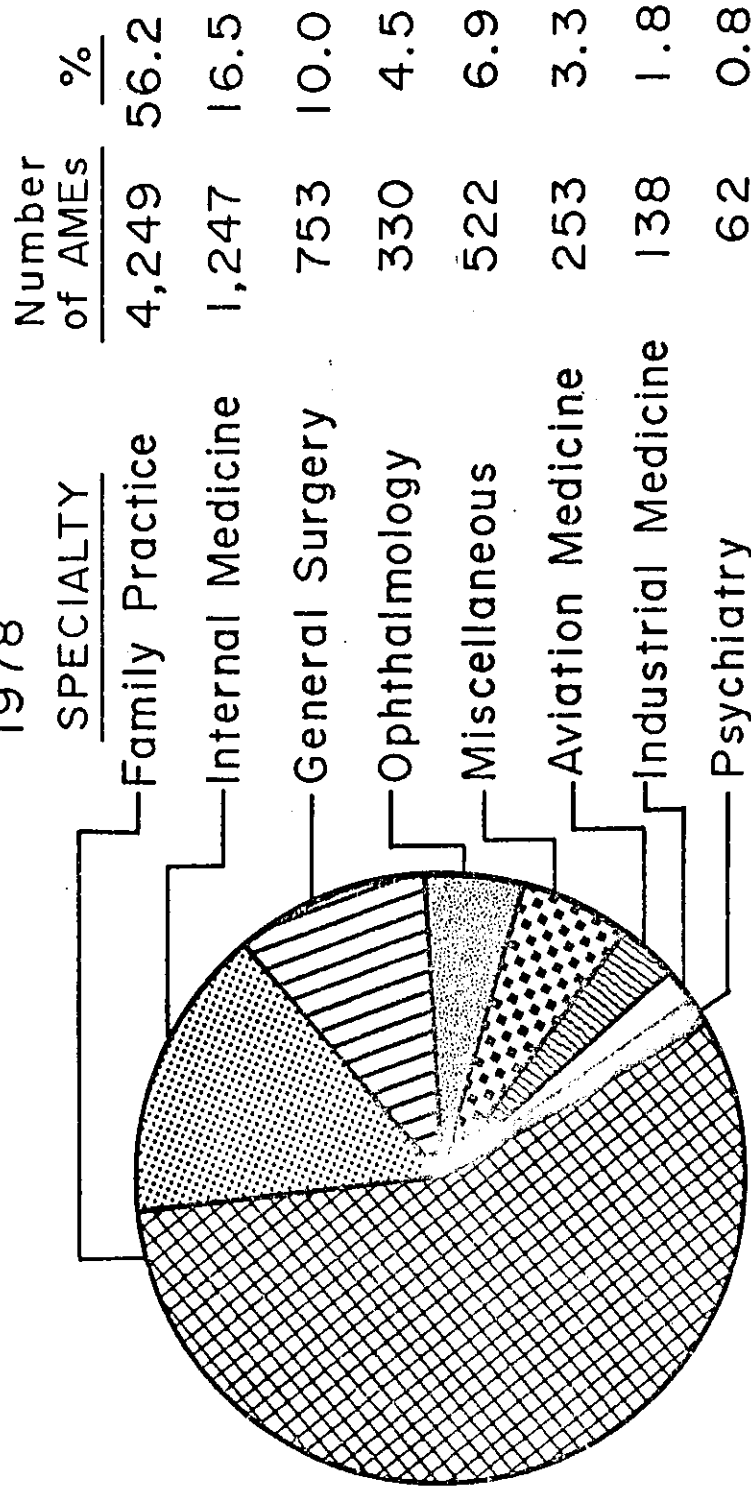
\*\*Denotes military installation designations rather than individual physicians.

Source: Civil Aeromedical Institute, Aeromedical Education Branch, Aviation Medical Examiner Section; RIS: AC 8500-2, AME Worklist by State (Designated FAA Aviation Medical Examiners by Region and State).

Figure 1B

# MEDICAL PRACTICE OF AVIATION MEDICAL EXAMINERS\*

1978



\*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  
1978

| Region         | Active U.S.<br>Civil<br>Airman<br>Population* | U.S. Non-<br>Military<br>AME<br>Population** | Ratio AME'S<br>To Airmen |
|----------------|-----------------------------------------------|----------------------------------------------|--------------------------|
| Eastern        | 94,609                                        | 931                                          | 1:102                    |
| Central        | 48,903                                        | 697                                          | 1:70                     |
| Southern       | 107,166                                       | 1,219                                        | 1:88                     |
| Southwest      | 88,352                                        | 934                                          | 1:95                     |
| Western        | 125,439                                       | 800                                          | 1:157                    |
| Rocky Mountain | 37,540                                        | 502                                          | 1:75                     |
| Northwest      | 42,814                                        | 485                                          | 1:88                     |
| New England    | 32,262                                        | 245                                          | 1:132                    |
| Great Lakes    | 132,736                                       | 1,244                                        | 1:107                    |
| Alaskan        | 10,143                                        | 82                                           | 1:124                    |
| Pacific        | 2,641                                         | 46                                           | 1:57                     |
| TOTAL          | 722,605                                       | 7,185                                        | 1:101                    |

\*Active U.S. Civil Airman Population figures are as of December 31, 1978, 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, 1979, 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  
1978

| Date                    | Location                              | Attendance |
|-------------------------|---------------------------------------|------------|
| January 20-22           | San Antonio, Texas                    | 108        |
| February 10-12          | Los Angeles, California               | 153        |
| February 26-<br>March 3 | Oklahoma City, Oklahoma               | 42         |
| March 17-19             | Nashville, Tennessee                  | 138        |
| April 21-23             | Buffalo, New York                     | 60         |
| May 8-11                | Aerospace - New Orleans,<br>Louisiana | 138        |
| June 16-18              | Phoenix, Arizona                      | 70         |
| July 14-16              | Spokane, Washington                   | 91         |
| July 31-<br>August 4    | Oklahoma City, Oklahoma               | 41         |
| August 25-27            | Cleveland, Ohio                       | 87         |
| September 22-24         | Albuquerque, New Mexico               | 94         |
| October 1-6             | CAMA - Las Vegas, Nevada              | 136        |
| October 27-29           | Kansas City, Missouri                 | 137        |
| November 3-5            | Boston, Massachusetts                 | 144        |
| TOTAL                   |                                       | 1,439      |

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

Table I.E

AVIATION MEDICAL EXAMINER  
SEMINARS AND ATTENDANCE  
1960-1978

| 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      |
| 1978  | 14       | 1,439      |
| TOTAL | 189      | 22,349     |

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





Table I.F

ACTIVE AVIATION MEDICAL EXAMINERS  
SEMINAR ATTENDANCE BY REGION\*  
1978

| Region              | Total<br>AME's | One<br>Seminar | More Than<br>One Seminar | No Participation<br>At Seminars |
|---------------------|----------------|----------------|--------------------------|---------------------------------|
| Eastern             | 931            | 268            | 621                      | 42                              |
| Central             | 697            | 243            | 402                      | 52                              |
| Southern            | 1,219          | 419            | 657                      | 143                             |
| Southwest           | 934            | 239            | 633                      | 62                              |
| Western             | 800            | 140            | 634                      | 26                              |
| Rocky Mountain      | 502            | 149            | 294                      | 59                              |
| Northwest           | 485            | 166            | 275                      | 44                              |
| New England         | 245            | 88             | 146                      | 11                              |
| Great Lakes         | 1,244          | 401            | 751                      | 92                              |
| Alaskan             | 82             | 33             | 42                       | 7                               |
| Pacific             | 46             | 24             | 14                       | 8                               |
| International       | 369            | 71             | 50                       | 248                             |
| TOTAL               | 7,554          | 2,241          | 4,519                    | 794                             |
| Percent of<br>Total | 100.0          | 29.7           | 59.8                     | 10.5                            |

\*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

AVIATION MEDICAL EXAMINER SUMMARY DATA  
1978

|    |                                                                                                 |        |
|----|-------------------------------------------------------------------------------------------------|--------|
| A. | Number of Designated U.S. Non-Military Aviation Medical Examiners                               | 7,185  |
| B. | Number of Designated International Aviation Medical Examiners                                   | 369    |
| C. | Number of Designated Military Aviation Medical Examiners (Installations)                        | 485    |
| 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                  | 46.8%* |
| F. | Percentage of Aviation Medical Examiners Who Were Military Flight Surgeons                      | 17%*   |
| G. | Percentage of Non-Military Aviation Medical Examiners Who Participate in Accident Investigation | 78.9*  |
| H. | Percentage of Non-Military Aviation Medical Examiners Who Have Attended One Seminar             | 29.7%  |
| I. | Percentage of Non-Military Aviation Medical Examiners Who Have Attended More Than One Seminar   | 59.8%  |
| J. | Percentage of Non-Military Aviation Medical Examiners Who Have Not Attended a Seminar           | 10.5%  |
| K. | Total Number of Seminars Conducted in 1978                                                      | 14     |
| L. | Total Attendance of Aviation Medical Examiners at Seminars Conducted in 1978                    | 1,439  |

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

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

## SECTION II

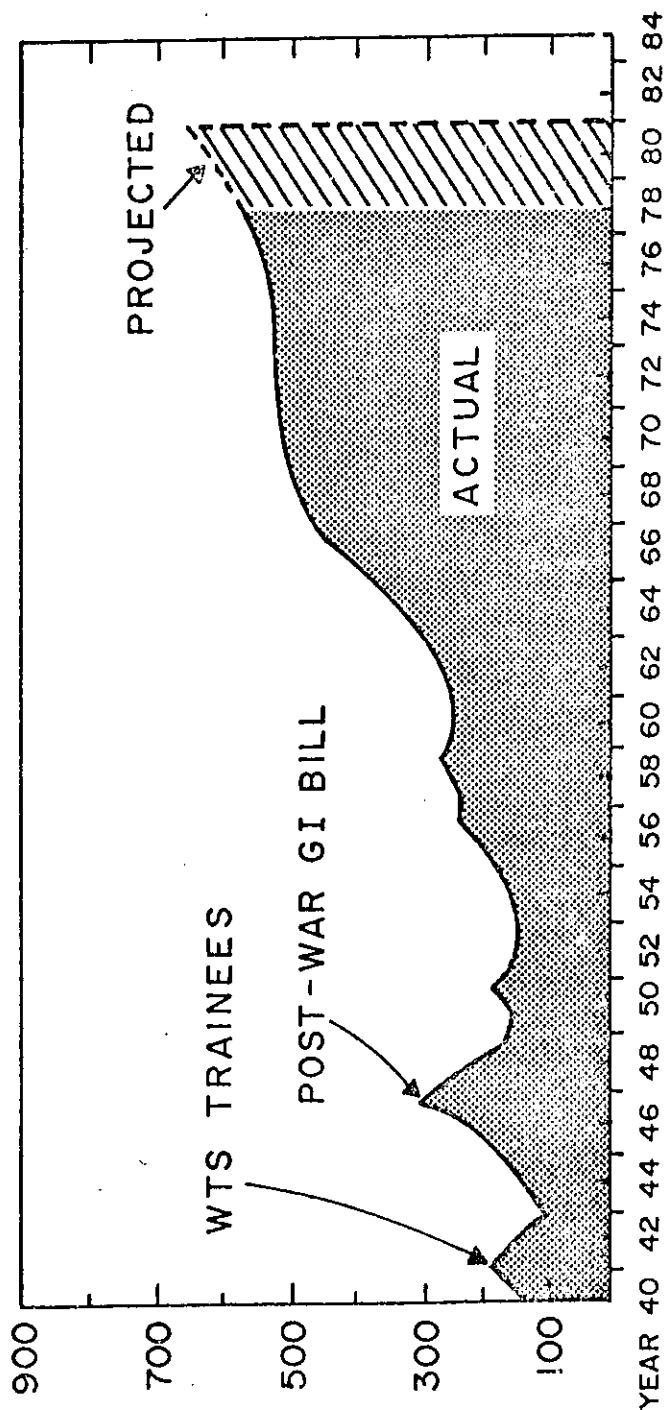
### CERTIFICATION ACTIVITY

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

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

Figure II.A

# AIRMEN APPLICATIONS FOR MEDICAL CERTIFICATION 1940-1978 Projected to 1981 \*



|              |  | 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 | 565.5 | 588.1 | 611.6 | 636.1 |       |       |       |  |  |
| Percentage*  |  | +1.9          | +1.1  | +0.3  | +5.5  | -1.2  | +0.7  | +4.4  | +1.5  | +2.8  | +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\*  
1960-1978

| Calendar<br>Year | Total   | Percent<br>Of  |                 |       | Percent<br>Of  |                 |         | Percent<br>Of<br>Total |
|------------------|---------|----------------|-----------------|-------|----------------|-----------------|---------|------------------------|
|                  |         | First<br>Class | Second<br>Class | Total | First<br>Class | Second<br>Class | Total   |                        |
| 1960             | 237,509 | 33,964         | 84,715          | 14.3  | 118,830        | 35.7            | 118,830 | 50.0                   |
| 1961             | 237,311 | 33,936         | 84,644          | 14.3  | 118,731        | 35.7            | 118,731 | 50.0                   |
| 1962             | 254,142 | 36,342         | 90,647          | 14.3  | 127,153        | 35.7            | 127,153 | 50.0                   |
| 1963             | 271,764 | 38,862         | 96,933          | 14.3  | 135,969        | 35.7            | 135,969 | 50.0                   |
| 1964             | 294,734 | 42,147         | 105,126         | 14.3  | 147,461        | 35.7            | 147,461 | 50.0                   |
| 1965             | 330,617 | 52,006         | 109,600         | 15.7  | 169,011        | 33.2            | 169,011 | 51.1                   |
| 1966             | 387,537 | 73,903         | 124,593         | 19.1  | 189,041        | 32.1            | 189,041 | 48.8                   |
| 1967             | 427,596 | 80,474         | 143,458         | 18.8  | 203,664        | 33.6            | 203,664 | 47.6                   |
| 1968             | 465,929 | 87,408         | 173,139         | 18.8  | 205,382        | 37.2            | 205,382 | 44.0                   |
| 1969             | 478,700 | 90,666         | 178,699         | 18.9  | 209,335        | 37.3            | 209,335 | 43.8                   |
| 1970             | 487,700 | 94,419         | 189,276         | 19.4  | 204,005        | 38.8            | 204,005 | 41.8                   |
| 1971             | 493,145 | 91,478         | 204,853         | 18.5  | 196,814        | 41.5            | 196,814 | 40.0                   |
| 1972             | 494,700 | 86,573         | 205,597         | 17.5  | 202,530        | 41.6            | 202,530 | 40.9                   |
| 1973             | 521,700 | 93,384         | 220,679         | 17.9  | 207,637        | 42.3            | 207,637 | 39.8                   |
| 1974             | 515,400 | 91,741         | 214,922         | 17.8  | 208,737        | 41.7            | 208,737 | 40.5                   |
| 1975             | 519,200 | 91,379         | 224,814         | 17.6  | 203,007        | 43.3            | 203,007 | 39.1                   |
| 1976             | 542,159 | 93,793         | 230,418         | 17.3  | 217,948        | 42.5            | 217,948 | 40.2                   |
| 1977             | 550,243 | 97,393         | 230,552         | 17.7  | 222,298        | 41.9            | 222,298 | 40.4                   |
| 1978             | 565,534 | 105,755        | 228,476         | 18.7  | 231,303        | 40.4            | 231,303 | 40.9                   |

\*Class distributions for 1960 through 1964 were compiled by applying percentages based on the 1964 computer count to actual applications received per year. The 1965 class distributions were achieved by applying percentages based on card counts of applications performed during 1965 to the total receipts for the year. Class distributions for 1966 through 1978 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  
1978

| Month     | Applications<br>Received | Applications<br>Coded for<br>Computer<br>Screening | Applications<br>Screened by<br>Computer* | Applications<br>Requiring<br>Manual Review** | Applications<br>Intra-Agency<br>Transmitted*** |
|-----------|--------------------------|----------------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------|
| January   | 38,544                   | 29,044                                             | 10,291                                   | 9,770                                        | 189                                            |
| February  | 37,329                   | 34,029                                             | 30,518                                   | 22,888                                       | 274                                            |
| March     | 44,041                   | 43,341                                             | 49,880                                   | 26,998                                       | 317                                            |
| April     | 51,785                   | 49,185                                             | 44,572                                   | 23,061                                       | 259                                            |
| May       | 53,125                   | 49,525                                             | 48,271                                   | 24,945                                       | 289                                            |
| June      | 49,397                   | 46,397                                             | 51,478                                   | 26,425                                       | 304                                            |
| SUBTOTAL  | 274,221                  | 251,521                                            | 235,010                                  | 134,087                                      | 1,632                                          |
| July      | 54,265                   | 38,717                                             | 40,138                                   | 20,711                                       | 263                                            |
| August    | 53,121                   | 49,969                                             | 52,966                                   | 27,012                                       | 321                                            |
| September | 47,773                   | 47,273                                             | 42,194                                   | 21,097                                       | 310                                            |
| October   | 52,263                   | 50,363                                             | 51,728                                   | 25,660                                       | 302                                            |
| November  | 41,757                   | 57,257                                             | 52,237                                   | 26,066                                       | 275                                            |
| December  | 42,134                   | 53,134                                             | 50,076                                   | 24,888                                       | 264                                            |
| SUBTOTAL  | 291,313                  | 296,713                                            | 289,339                                  | 145,434                                      | 1,735                                          |
| TOTAL     | 565,534                  | 548,234                                            | 524,349                                  | 279,521                                      | 3,367                                          |

\*Figures reflect the number of applications received

\*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; went from approximately 95% immediately after conversion to a present 50% 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  
1978

| Activity                                     | Frequency | Subtotal | Percent of Total |
|----------------------------------------------|-----------|----------|------------------|
| <u>Certification</u>                         |           |          |                  |
| Issued, Corrected or Duplicate Certificates  | 11,426    |          |                  |
| Eligibility Letters                          | 28,769    |          |                  |
| Issued or Duplicate Waivers                  | 9,575     | 49,770   | 48.1             |
| <u>Further Action Necessary</u>              |           |          |                  |
| Information Requested                        | 30,431    |          |                  |
| Medical Flight Test Authorization            | 8,042     |          |                  |
| Case Summary for the Federal Air Surgeon     | 744       | 39,217   | 37.9             |
| <u>Information Requested From the Branch</u> |           |          |                  |
| Telegram Replies to Airmen/Agency Offices    | 681       | 681      | 0.6              |
| <u>Denial Letters</u>                        |           |          |                  |
| Mandatory Denials                            | 563       |          |                  |
| Other Denials                                | 3,786     |          |                  |
|                                              |           | 4,349    | 4.2              |
| <u>Miscellaneous Correspondence*</u>         |           |          |                  |
|                                              | 9,528     | 9,528    | 9.2              |
| <u>TOTAL</u>                                 |           | 103,545  | 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, 1978

| Action                                                                       | Time Lapse Since Date of Last Examination |           |           |          |             | Total         |
|------------------------------------------------------------------------------|-------------------------------------------|-----------|-----------|----------|-------------|---------------|
|                                                                              | <7 Month                                  | <13 Month | <25 Month | Subtotal | 25-36 Month | Over 36 Month |
| <u>Certified</u>                                                             |                                           |           |           |          |             |               |
| First Class                                                                  | 49,181                                    | 30,600    | 12,831    | 92,612   | 5,272       | N/A           |
| Second Class                                                                 | 89,448                                    | 101,498   | 109,424   | 300,370  | 50,795      | N/A           |
| Third Class                                                                  | 114,127                                   | 97,169    | 209,764   | 421,060  | 112,404     | N/A           |
| SUBTOTAL                                                                     | 252,756                                   | 229,267   | 332,019   | 814,042  | 168,471     | N/A           |
| <u>Non-Certified</u>                                                         |                                           |           |           |          |             |               |
| Pending                                                                      | 1,557                                     | 617       | 833       | 3,007    | 717         | N/A           |
| Denied                                                                       | 2,401                                     | 2,385     | 5,379     | 10,165   | 5,064       | N/A           |
| SUBTOTAL                                                                     | 3,958                                     | 3,002     | 6,212     | 13,172   | 5,781       | N/A           |
| Link*                                                                        | N/A                                       | N/A       | N/A       | N/A      | N/A         | 265,631       |
| TOTAL                                                                        | 256,714                                   | 232,269   | 338,231   | 827,214  | 174,252     | 265,631       |
| EFFECTIVE STATUS TOTAL: CLASS 1 = 49,181 CLASS 2 = 221,546 CLASS 3 = 543,315 |                                           |           |           |          |             |               |
| TOTAL                                                                        |                                           |           |           |          |             |               |
|                                                                              | 256,714                                   | 232,269   | 338,231   | 827,214  | 174,252     | 265,631       |
|                                                                              |                                           |           |           |          |             | 1,267,097     |

\*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  
1976-1978

| Activity                                                       | CY<br>1978 | CY<br>1977 | CY<br>1976 |
|----------------------------------------------------------------|------------|------------|------------|
| Applications for Medical Certification                         | 565,534    | 550,243    | 542,159    |
| New Applications for First Class<br>Medical Certificates*      | -          | 3,008      | 1,805      |
| New Applications for Second Class<br>Medical Certificates*     | -          | 18,843     | 16,028     |
| New Applications for Third Class<br>Medical Certificates*      | -          | 98,352     | 73,995     |
| First Class Combined Student/Medical<br>Certificates           | 3,327      | 3,442      | 2,799      |
| Second Class Combined Student/Medical<br>Certificates          | 20,228     | 20,902     | 20,575     |
| Third Class Combined Student/Medical<br>Certificates           | 173,537    | 207,831    | 202,452    |
| Electrocardiograms Received for<br>First Class Pilots          | 38,097     | 37,028     | 32,831     |
| Incoming Correspondence**                                      | 80,669     | 92,447     | 80,292     |
| Outgoing Correspondence                                        | 103,545    | 112,983    | 105,681    |
| Applications Containing Medical or<br>Clerical Problems        | 279,863    | 272,468    | 253,839    |
| Number of Abnormalities Detected<br>in Electrocardiograms      | 3,976      | 4,186      | 4,283      |
| Number of First Class Active Airmen<br>with Pathology Records  | 17,566     | 16,734     | 15,614     |
| Number of Second Class Active Airmen<br>with Pathology Records | 64,218     | 65,882     | 63,617     |
| Number of Third Class Active Airmen<br>with Pathology Records  | 60,515     | 62,509     | 62,252     |

\*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 1977, 2,307 or 1.9% new applications were denied, 494 or 0.4% were pending, and 117,402 or 97.7% were issued for a total of 120,203 new applications.

## Table II.F (Continued)

MEDICAL CERTIFICATION ACTIVITY SUMMARY  
1976-1978

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

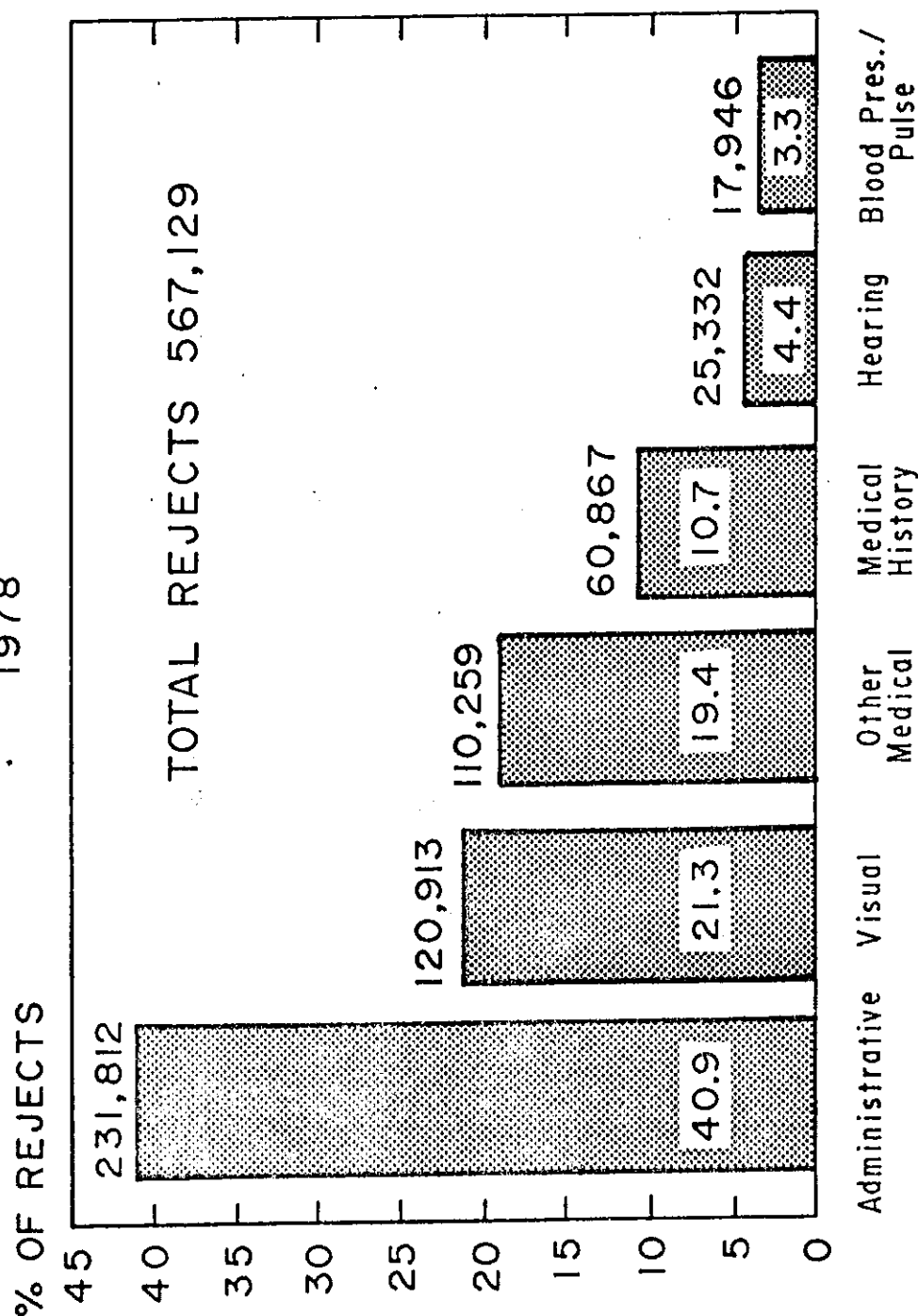
REFERRALS AND DENIALS

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

1978



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

DISTRIBUTION OF CAUSES OF REVIEW BY MAJOR AND MINOR CATEGORIES  
1978\*

| Reject                                     | Major Category<br>Totals | Percent      | Minor<br>Categories | Percent |
|--------------------------------------------|--------------------------|--------------|---------------------|---------|
| <u>Administrative</u>                      | 231,812                  | 40.9         |                     |         |
| AME Number Rejects                         |                          |              | 11,401              | 2.0     |
| No Ticket Flag Set                         |                          |              | 46,050              | 8.1     |
| Previous Exam Has No Ticket Flag           |                          |              | 1,537               | 0.3     |
| Previous Pending                           |                          |              | 238                 | 0.0+    |
| Clerical Reject                            |                          |              | 7,838               | 1.4     |
| Class Issued Higher Than Applied For       |                          |              | 4,751               | 0.8     |
| Airman Over 80 Years of Age                |                          |              | 236                 | 0.0+    |
| First Class Over 60 Years of Age           |                          |              | 1,089               | 0.2     |
| Waiver Rejects                             |                          |              | 11,558              | 2.0     |
| Re-Submit Exam to Computer                 |                          |              | 3,770               | 0.7     |
| Date of ECG Rejects                        |                          |              | 10,757              | 1.9     |
| No Match Between New and Previous Exams    |                          |              | 8,727               | 1.6     |
| Discrepancy in Name/DOB                    |                          |              | 17,332              | 3.1     |
| Student/Medical Age Less Than 16           |                          |              | 511                 | 0.1     |
| Discrepancy in Social Security Number      |                          |              | 21,472              | 3.8     |
| Other**                                    |                          |              | 84,545              | 14.9    |
| <u>Visual</u>                              | 120,913                  | 21.3         |                     |         |
| Distant Vision                             |                          |              | 26,646              | 4.7     |
| Near Vision                                |                          |              | 17,780              | 3.1     |
| Intraocular Tension                        |                          |              | 5,977               | 1.1     |
| Field of Vision                            |                          |              | 4,797               | 0.9     |
| Color Vision                               |                          |              | 5,884               | 1.0     |
| Variation in Distant Vision                |                          |              | 21,124              | 3.7     |
| Esophoria and Exophoria                    |                          |              | 19,337              | 3.4     |
| Right or Left Hyperphoria                  |                          |              | 19,368              | 3.4     |
| <u>Other Medical Conditions</u>            | 110,259                  | 19.4         |                     |         |
| Denied or Pending - Current Exam           |                          |              | 11,998              | 2.1     |
| Urinalysis                                 |                          |              | 7,021               | 1.2     |
| Pathology Codes                            |                          |              | 28,453              | 5.0     |
| Abnormalities (Items 25-48)                |                          |              | 15,650              | 2.8     |
| Medication                                 |                          |              | 30,116              | 5.3     |
| Restrictions                               |                          |              | 17,021              | 3.0     |
| <u>Medical History</u>                     | 60,867                   | 10.7         |                     |         |
| Special Case                               |                          |              | 1,056               | 0.2     |
| Medical History                            |                          |              | 52,083              | 9.2     |
| Previous Exam on Tape Denied               |                          |              | 1,926               | 0.4     |
| Previous Exemption Case                    |                          |              | 764                 | 0.1     |
| Input Exemption Case                       |                          |              | 451                 | 0.0+    |
| Follow-up Material Requested               |                          |              | 3,636               | 0.7     |
| Current Information With Previous Record   |                          |              | 657                 | 0.1     |
| Previous Exam Sent to Washington or Region |                          |              | 294                 | 0.0+    |
| <u>Hearing</u>                             | 25,332                   | 4.4          |                     |         |
| Hearing                                    |                          |              | 25,332              | 4.4     |
| <u>Blood Pressure/Pulse</u>                | 17,946                   | 3.3          |                     |         |
| Blood Pressure                             |                          |              | 10,045              | 1.9     |
| Pulse                                      |                          |              | 7,901               | 1.4     |
| <b>TOTAL REJECT MESSAGES</b>               | <b>567,129</b>           | <b>100.0</b> |                     |         |

\*Data are for nine months only. Reject counts were not available for January-March 1978.

\*\*Rejects resulting from validity checks against established edit criteria for data elements contained on the medical examination other than those listed, "Pathology Number Assigned," and "Certificate Created" messages.

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  
1961-1978

| 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    |
| 1978** | 259       | 616    | 875    |
| TOTAL  | 3,612     | 8,531  | 12,143 |

\*Incomplete figures for January through March 1961.

\*\*Figures for 1967-1978 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\*  
1978

| Pathology                                                           | First<br>Class | Second<br>Class | Third<br>Class | Modifications | Total |
|---------------------------------------------------------------------|----------------|-----------------|----------------|---------------|-------|
| <u>Issued</u>                                                       |                |                 |                |               |       |
| Eye                                                                 | 7              | 3               | 20             | -             | 30    |
| Ear, Nose, Throat                                                   | -              | 1               | -              | -             | 1     |
| Respiratory                                                         | 1              | -               | 4              | -             | 5     |
| Cardiovascular                                                      | 31             | 15              | 28             | 2             | 76    |
| Abdominal                                                           | 3              | 4               | 10             | 1             | 18    |
| Neurologic                                                          | 5              | 14              | 33             | 5             | 57    |
| Psychiatric                                                         | 5              | 11              | 30             | 5             | 51    |
| Bone/Joint                                                          | 1              | -               | 1              | -             | 2     |
| Muscles                                                             | -              | 1               | 1              | -             | 2     |
| Miscellaneous                                                       | -              | 3               | 14             | -             | 17    |
| TOTAL ISSUANCES                                                     | 53             | 52              | 141            | 13            | 259   |
| <u>Denied</u>                                                       |                |                 |                |               |       |
| Eye                                                                 | 3              | 9               | 65             | -             | 77    |
| Ear, Nose, Throat                                                   | 4              | -               | -              | -             | 4     |
| Respiratory                                                         | 3              | 6               | 13             | -             | 22    |
| Cardiovascular                                                      | 49             | 61              | 180            | 2             | 292   |
| Abdominal                                                           | 2              | 11              | 11             | -             | 24    |
| Neurologic                                                          | 14             | 23              | 53             | 4             | 94    |
| Psychiatric                                                         | 18             | 19              | 38             | 1             | 76    |
| Bone/Joint                                                          | 6              | -               | 1              | -             | 7     |
| Muscles                                                             | -              | -               | 2              | -             | 2     |
| Miscellaneous                                                       | 1              | 3               | 7              | -             | 11    |
| SUBTOTAL                                                            | 100            | 132             | 370            | 7             | 609   |
| Denials for Failure to<br>Provide Additional<br>Information (67.31) | -              | 4               | 3              | -             | 7     |
| TOTAL DENIALS                                                       | 100            | 136             | 373            | 7             | 616   |

\*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\*  
1963-1978

| Pathology                                                           | First<br>Class | Second<br>Class | Third<br>Class | Modifications | Total |
|---------------------------------------------------------------------|----------------|-----------------|----------------|---------------|-------|
| <u>Issued</u>                                                       |                |                 |                |               |       |
| Eye                                                                 | 100            | 170             | 287            | 3             | 560   |
| Ear, Nose, Throat                                                   | 12             | 11              | 35             | 2             | 60    |
| Respiratory                                                         | 5              | 12              | 61             | -             | 78    |
| Cardiovascular                                                      | 184            | 195             | 508            | 20            | 907   |
| Abdominal                                                           | 22             | 41              | 128            | 3             | 194   |
| Neuropsychiatric                                                    | 153            | 278             | 769            | 38            | 1,238 |
| Bone/Joint                                                          | 10             | 7               | 38             | 1             | 56    |
| Muscles                                                             | 1              | 2               | 7              | -             | 10    |
| Miscellaneous                                                       | 23             | 58              | 164            | 5             | 250   |
| TOTAL                                                               | 510            | 774             | 1,997          | 72            | 3,353 |
| <u>Denied</u>                                                       |                |                 |                |               |       |
| Eye                                                                 | 93             | 283             | 569            | 2             | 947   |
| Ear, Nose, Throat                                                   | 23             | 16              | 24             | -             | 63    |
| Respiratory                                                         | 18             | 44              | 157            | -             | 219   |
| Cardiovascular                                                      | 388            | 747             | 2,022          | 25            | 3,182 |
| Abdominal                                                           | 35             | 84              | 232            | 3             | 354   |
| Neuropsychiatric                                                    | 342            | 653             | 1,544          | 18            | 2,557 |
| Bone/Joint                                                          | 19             | 10              | 39             | -             | 68    |
| Muscles                                                             | 2              | 4               | 14             | -             | 20    |
| Miscellaneous                                                       | 48             | 89              | 285            | 7             | 429   |
| SUBTOTAL                                                            | 968            | 1,930           | 4,886          | 55            | 7,839 |
| Denials for Failure to<br>Provide Additional<br>Information (67.31) | 14             | 43              | 59             | -             | 116   |
| TOTAL DENIALS                                                       | 982            | 1,973           | 4,945          | 55            | 7,955 |

\*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\*  
 1978

| Pathology                                                           | First<br>Class | Second<br>Class | Third<br>Class | Total |
|---------------------------------------------------------------------|----------------|-----------------|----------------|-------|
| <u>Granted</u>                                                      |                |                 |                |       |
| Eye                                                                 | -              | -               | 4              | 4     |
| Ear, Nose, Throat                                                   | -              | -               | -              | -     |
| Respiratory                                                         | -              | -               | -              | -     |
| Cardiovascular                                                      | 6              | 16              | 94             | 116   |
| Abdominal                                                           | -              | -               | 2              | 2     |
| Neuropsychiatric                                                    | 101            | 28              | 66             | 195   |
| Bone/Joint                                                          | -              | -               | -              | -     |
| Muscles                                                             | -              | -               | -              | -     |
| Miscellaneous                                                       | -              | -               | 1              | 1     |
| TOTAL GRANTS                                                        | 107            | 44              | 167            | 318   |
| Modifications                                                       | N/A            | N/A             | N/A            | 52    |
| <u>Denied</u>                                                       |                |                 |                |       |
| Eye                                                                 | -              | 2               | 20             | 22    |
| Ear, Nose, Throat                                                   | -              | -               | -              | -     |
| Respiratory                                                         | -              | 3               | 4              | 7     |
| Cardiovascular                                                      | 26             | 60              | 182            | 268   |
| Abdominal                                                           | -              | 1               | 2              | 3     |
| Neuropsychiatric                                                    | 5              | 24              | 48             | 77    |
| Bone/Joint                                                          | -              | -               | -              | -     |
| Muscles                                                             | -              | -               | -              | -     |
| Miscellaneous                                                       | 1              | 1               | 4              | 6     |
| TOTAL DENIALS                                                       | 32             | 91              | 260            | 383   |
| Denials for Failure to<br>Provide Additional<br>Information (67.31) | N/A            | N/A             | N/A            | 161   |
| Modifications                                                       | N/A            | N/A             | N/A            | 23    |

\*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\*  
 1961-1978

| Pathology                                                           | First<br>Class | Second<br>Class | Third<br>Class | Total |
|---------------------------------------------------------------------|----------------|-----------------|----------------|-------|
| <u>Granted</u>                                                      |                |                 |                |       |
| Eye                                                                 | 11             | 27              | 83             | 121   |
| Ear, Nose, Throat                                                   | 1              | 2               | 1              | 4     |
| Respiratory                                                         | -              | 1               | 12             | 13    |
| Cardiovascular                                                      | 46             | 191             | 1,223          | 1,460 |
| Abdominal                                                           | 3              | 1               | 23             | 27    |
| Neuropsychiatric                                                    | 239            | 155             | 584            | 978   |
| Bone/Joint                                                          | 1              | 1               | 3              | 5     |
| Muscles                                                             | -              | -               | -              | -     |
| Miscellaneous                                                       | 2              | 6               | 12             | 20    |
| TOTAL GRANTS                                                        | 303            | 384             | 1,941          | 2,628 |
| Modifications                                                       | N/A            | N/A             | N/A            | 284   |
| <u>Denied</u>                                                       |                |                 |                |       |
| Eye                                                                 | 11             | 78              | 114            | 203   |
| Ear, Nose, Throat                                                   | -              | 2               | 2              | 4     |
| Respiratory                                                         | 3              | 9               | 36             | 48    |
| Cardiovascular                                                      | 353            | 723             | 2,040          | 3,116 |
| Abdominal                                                           | 5              | 14              | 46             | 65    |
| Neuropsychiatric                                                    | 150            | 343             | 832            | 1,325 |
| Bone/Joint                                                          | 1              | 5               | 10             | 16    |
| Muscles                                                             | -              | -               | 2              | 2     |
| Miscellaneous                                                       | 13             | 22              | 126            | 161   |
| TOTAL DENIALS                                                       | 536            | 1,196           | 3,208          | 4,940 |
| Denials for Failure to<br>Provide Additional<br>Information (67.31) | N/A            | N/A             | N/A            | 1,417 |
| Modifications                                                       | N/A            | N/A             | N/A            | 249   |

\*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  
1961-1978

| Status of<br>Airmen                                             | Percent | Number of<br>Airmen |
|-----------------------------------------------------------------|---------|---------------------|
| Airmen Granted Exemptions*                                      | 100.0   | 2,494               |
| Currently Active Airmen                                         | 45.4    | 1,132               |
| Deceased                                                        | 2.6     | 64                  |
| Grants Terminated:                                              |         |                     |
| Adverse Change in Condition                                     | 11.6    | 290                 |
| No Longer Abide By Grants (Issued Under<br>FAR 67.19)           | 2.0     | 50                  |
| For Various Personal Reasons Have Not<br>Validated Their Grants | 38.4    | 958                 |

\*Although airmen may have been granted more than one exemption, they have only been counted once. There are 134 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, 1978, 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, 1978

| Region                            | First Class |        |                            | Second Class |         |                            | Third Class |         |                            | Total Active Airmen |         |                            |
|-----------------------------------|-------------|--------|----------------------------|--------------|---------|----------------------------|-------------|---------|----------------------------|---------------------|---------|----------------------------|
|                                   | Total       |        | Effective Status (Class)** | Total        |         | Effective Status (Class)** | Total       |         | Effective Status (Class)** | Percent Of Total    |         | Effective Status (Class)** |
|                                   | Certified   | 1      |                            | Certified    | 2       |                            | Certified   | 3       |                            | Airmen              | Airmen  |                            |
| Eastern                           | 12,112      | 6,444  | 3,986                      | 29,987       | 18,922  | 11,065                     | 52,510      | 52,510  | 6,444                      | 11.6                | 22,908  | 65,257                     |
| Central                           | 3,497       | 1,997  | 1,110                      | 14,266       | 9,124   | 5,142                      | 31,140      | 31,140  | 1,997                      | 6.0                 | 10,234  | 36,672                     |
| Southern                          | 15,818      | 8,564  | 5,136                      | 36,328       | 23,292  | 13,036                     | 55,020      | 55,020  | 8,564                      | 13.2                | 28,428  | 70,174                     |
| Southwest                         | 10,640      | 5,818  | 3,648                      | 1,174        | 30,871  | 19,901                     | 46,841      | 46,841  | 5,818                      | 10.9                | 23,549  | 58,985                     |
| Western                           | 17,771      | 9,417  | 5,862                      | 2,492        | 38,000  | 23,173                     | 14,827      | 69,668  | 9,417                      | 15.4                | 29,035  | 86,987                     |
| Rocky Mountain                    | 4,023       | 2,204  | 1,276                      | 543          | 12,370  | 7,878                      | 21,147      | 21,147  | 2,204                      | 4.6                 | 9,154   | 26,182                     |
| Northeast                         | 6,374       | 2,234  | 1,490                      | 650          | 14,427  | 8,750                      | 24,013      | 24,013  | 2,234                      | 5.2                 | 10,240  | 30,340                     |
| New England                       | 5,097       | 2,938  | 1,568                      | 591          | 10,217  | 6,437                      | 16,948      | 16,948  | 2,938                      | 4.0                 | 8,005   | 21,319                     |
| Great Lakes                       | 12,202      | 6,298  | 4,312                      | 1,592        | 39,315  | 24,444                     | 14,871      | 81,219  | 6,298                      | 16.3                | 28,756  | 97,682                     |
| Alaskan                           | 1,016       | 472    | 384                        | 160          | 3,838   | 2,450                      | 5,289       | 5,289   | 472                        | 1.2                 | 2,834   | 6,837                      |
| Pacific                           | 670         | 359    | 230                        | 81           | 1,132   | 775                        | 839         | 839     | 359                        | 0.3                 | 1,005   | 1,277                      |
| U. S. TOTAL                       | 87,220      | 46,745 | 29,002                     | 11,473       | 230,751 | 145,146                    | 85,605      | 404,634 | 46,745                     | 88.7                | 174,148 | 501,712                    |
| Military***                       | 90          | 48     | 27                         | 15           | 65,782  | 43,382                     | 22,400      | 12,785  | 48                         | 9.7                 | 43,409  | 35,200                     |
| Foreign                           | 5,302       | 2,388  | 1,571                      | 1,343        | 3,837   | 2,418                      | 1,419       | 3,641   | 2,388                      | 1.6                 | 3,989   | 6,403                      |
| TOTAL                             | 92,612      | 49,181 | 30,600                     | 12,831       | 300,370 | 190,946                    | 109,424     | 421,060 | 49,181                     | 100.0               | 221,546 | 543,315                    |
| Percent of Total Certified Airmen | (11.4)      |        |                            | (36.9)       |         |                            | (51.7)      | (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; RIS: AC 8065-4, Examination Time Period Summary.

Table IV.B

ACTIVE AIRMEN'S STATE OF RESIDENCE  
BY SEX AND CLASS OF CERTIFICATE ISSUED\*  
As Of: December 31, 1978

| State                | First Class |        | Second Class |        | Third Class |        | Total Airmen |        |
|----------------------|-------------|--------|--------------|--------|-------------|--------|--------------|--------|
|                      | Male        | Female | Male         | Female | Male        | Female | Male         | Female |
| Alabama              | 479         | 1      | 2,887        | 89     | 4,272       | 368    | 7,638        | 458    |
| Alaska               | 997         | 17     | 3,610        | 197    | 4,620       | 653    | 9,227        | 867    |
| Arizona              | 1,277       | 20     | 4,333        | 151    | 6,928       | 910    | 12,538       | 1,081  |
| Arkansas             | 370         | 2      | 2,407        | 78     | 3,554       | 281    | 6,331        | 361    |
| California           | 15,135      | 313    | 30,274       | 1,384  | 52,356      | 6,598  | 97,765       | 8,295  |
| Colorado             | 2,844       | 64     | 5,378        | 239    | 6,981       | 778    | 15,203       | 1,081  |
| Connecticut          | 2,172       | 25     | 2,606        | 94     | 3,896       | 419    | 8,674        | 538    |
| Delaware             | 238         | 2      | 557          | 12     | 748         | 79     | 1,543        | 93     |
| District of Columbia | 70          | 3      | 216          | 33     | 351         | 55     | 637          | 91     |
| Florida              | 7,859       | 148    | 13,751       | 595    | 17,999      | 2,210  | 39,609       | 2,953  |
| Georgia              | 3,753       | 34     | 4,808        | 140    | 6,735       | 620    | 15,296       | 794    |
| Hawaii               | 661         | 10     | 1,075        | 58     | 703         | 135    | 2,439        | 203    |
| Idaho                | 327         | 5      | 1,701        | 45     | 3,209       | 299    | 5,237        | 349    |
| Illinois             | 4,107       | 62     | 8,888        | 370    | 17,675      | 1,572  | 30,670       | 2,004  |
| Indiana              | 950         | 22     | 4,470        | 161    | 8,920       | 725    | 14,340       | 908    |
| Iowa                 | 410         | 5      | 2,954        | 72     | 7,766       | 586    | 11,130       | 663    |
| Kansas               | 1,052       | 16     | 4,166        | 144    | 7,880       | 808    | 13,098       | 968    |
| Kentucky             | 349         | 6      | 1,870        | 44     | 3,439       | 233    | 5,658        | 283    |
| Louisiana            | 1,081       | 9      | 3,847        | 110    | 4,255       | 394    | 9,183        | 513    |
| Maine                | 230         | 3      | 1,058        | 33     | 2,039       | 175    | 3,327        | 211    |
| Maryland             | 938         | 15     | 2,592        | 148    | 4,703       | 510    | 8,233        | 673    |
| Massachusetts        | 1,396       | 20     | 3,681        | 184    | 6,178       | 665    | 11,255       | 869    |
| Michigan             | 1,718       | 34     | 6,883        | 260    | 14,141      | 1,262  | 22,742       | 1,556  |
| Minnesota            | 2,215       | 22     | 5,090        | 172    | 9,641       | 834    | 16,946       | 1,028  |
| Mississippi          | 291         | 3      | 2,063        | 46     | 2,661       | 219    | 5,015        | 268    |
| Missouri             | 1,681       | 26     | 4,445        | 161    | 8,181       | 787    | 14,307       | 974    |
| Montana              | 246         | 3      | 1,783        | 50     | 3,277       | 285    | 5,306        | 338    |
| Nebraska             | 304         | 1      | 2,238        | 74     | 4,717       | 404    | 7,259        | 479    |
| Nevada               | 1,001       | 15     | 1,704        | 60     | 2,438       | 344    | 5,143        | 419    |
| New Hampshire        | 957         | 7      | 1,377        | 60     | 1,513       | 173    | 3,847        | 240    |
| New Jersey           | 2,824       | 35     | 4,292        | 150    | 7,551       | 774    | 14,667       | 959    |

Table IV.B (Continued)

ACTIVE AIRMEN'S STATE OF RESIDENCE  
BY SEX AND CLASS OF CERTIFICATE ISSUED\*  
As Of: December 31, 1978

| State             | First Class |        | Second Class |        | Third Class |        | Total Airmen |        |
|-------------------|-------------|--------|--------------|--------|-------------|--------|--------------|--------|
|                   | Male        | Female | Male         | Female | Male        | Female | Male         | Female |
| New Mexico        | 331         | 9      | 2,066        | 100    | 2,928       | 331    | 5,325        | 440    |
| New York          | 3,219       | 44     | 9,275        | 336    | 15,158      | 1,390  | 27,652       | 1,770  |
| North Carolina    | 1,057       | 11     | 3,804        | 102    | 6,342       | 547    | 11,203       | 660    |
| North Dakota      | 117         | -      | 1,161        | 33     | 2,111       | 156    | 3,389        | 189    |
| Ohio              | 1,988       | 32     | 8,757        | 339    | 15,980      | 1,545  | 26,725       | 1,916  |
| Oklahoma          | 1,004       | 10     | 4,521        | 163    | 7,100       | 666    | 12,625       | 839    |
| Oregon            | 655         | 13     | 4,629        | 165    | 7,948       | 908    | 13,232       | 1,086  |
| Pennsylvania      | 2,322       | 32     | 6,187        | 236    | 11,710      | 1,076  | 20,219       | 1,344  |
| Rhode Island      | 139         | -      | 512          | 18     | 879         | 95     | 1,530        | 113    |
| South Carolina    | 501         | 12     | 1,958        | 57     | 3,079       | 262    | 5,538        | 331    |
| South Dakota      | 120         | -      | 979          | 22     | 2,124       | 159    | 3,223        | 181    |
| Tennessee         | 1,285       | 14     | 3,741        | 153    | 5,443       | 496    | 10,469       | 663    |
| Texas             | 7,701       | 71     | 16,871       | 536    | 24,697      | 2,495  | 49,269       | 3,102  |
| Utah              | 465         | 8      | 1,810        | 53     | 3,020       | 253    | 5,295        | 314    |
| Vermont           | 140         | 2      | 478          | 20     | 789         | 99     | 1,407        | 121    |
| Virginia          | 2,039       | 30     | 4,615        | 188    | 5,810       | 659    | 12,464       | 877    |
| Washington        | 3,310       | 59     | 7,523        | 318    | 10,364      | 1,268  | 21,197       | 1,645  |
| West Virginia     | 216         | 1      | 852          | 18     | 1,727       | 104    | 2,795        | 123    |
| Wisconsin         | 999         | 16     | 3,734        | 96     | 8,065       | 752    | 12,798       | 864    |
| Wyoming           | 151         | -      | 823          | 28     | 1,808       | 168    | 2,782        | 196    |
| U. S. CIVILIAN    |             |        |              |        |             |        |              |        |
| TOTAL             | 85,691      | 1,312  | 221,300      | 8,395  | 366,409     | 37,584 | 673,400      | 47,291 |
| Military and NASA | 382         | 2      | 64,789       | 2,152  | 12,387      | 1,059  | 77,558       | 3,213  |
| International     | 5,199       | 26     | 3,648        | 86     | 3,372       | 249    | 12,219       | 361    |
| TOTAL AIRMEN      | 91,272      | 1,340  | 289,737      | 10,633 | 382,168     | 38,892 | 763,177      | 50,865 |

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

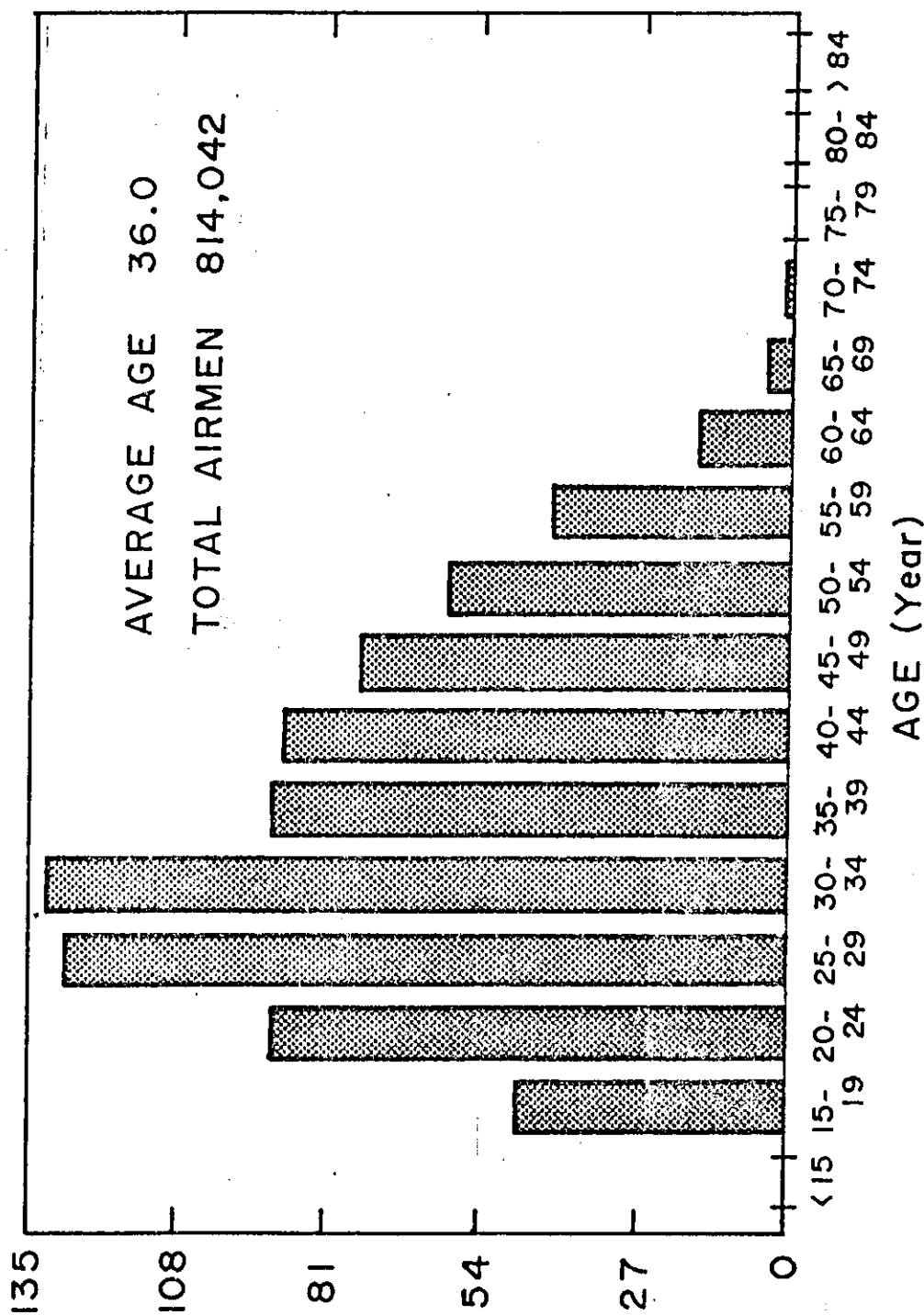
Source: Civil Aeromedical Institute, Aeromedical Certification Branch, Medical Statistical Section; RIS: AC 8500-1, Aeromedical Certification Statistical Handbook Computer Run.

Figure IV.C

## AGE DISTRIBUTION OF MEDICALLY CERTIFIED AIRMEN

AIRMEN (000)

As Of: December 31, 1978

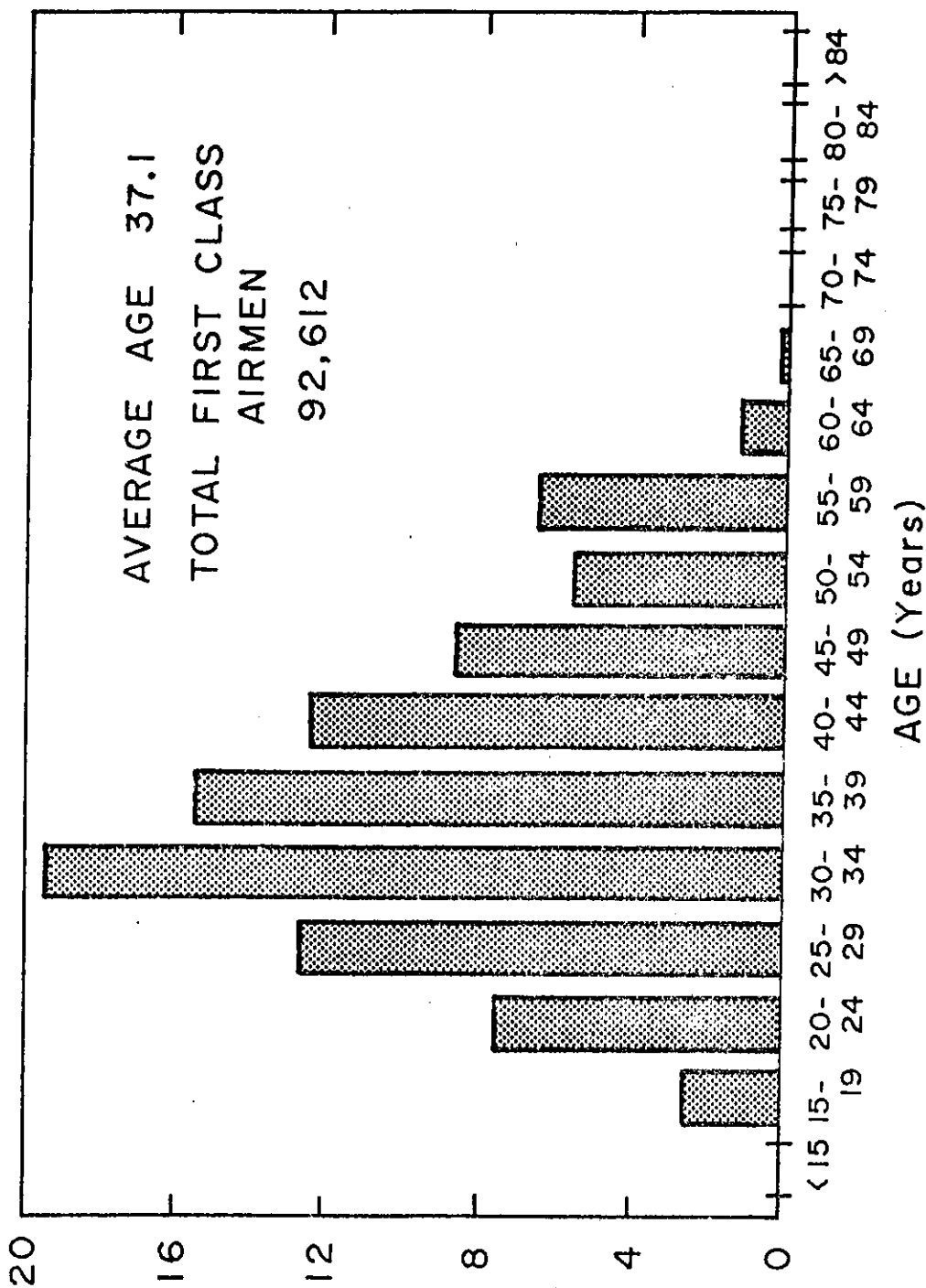


\*BRACKETS ARE INDICATIVE OF AGE CLASS INTERVALS WHEREIN MAGNITUDES ARE NOT APPARENT ON THIS SCALE. IN SUCH INSTANCES, THE ACCOMPANYING TABLE (TABLE IV.C) SHOULD BE CONSULTED FOR FREQUENCIES.

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, 1978



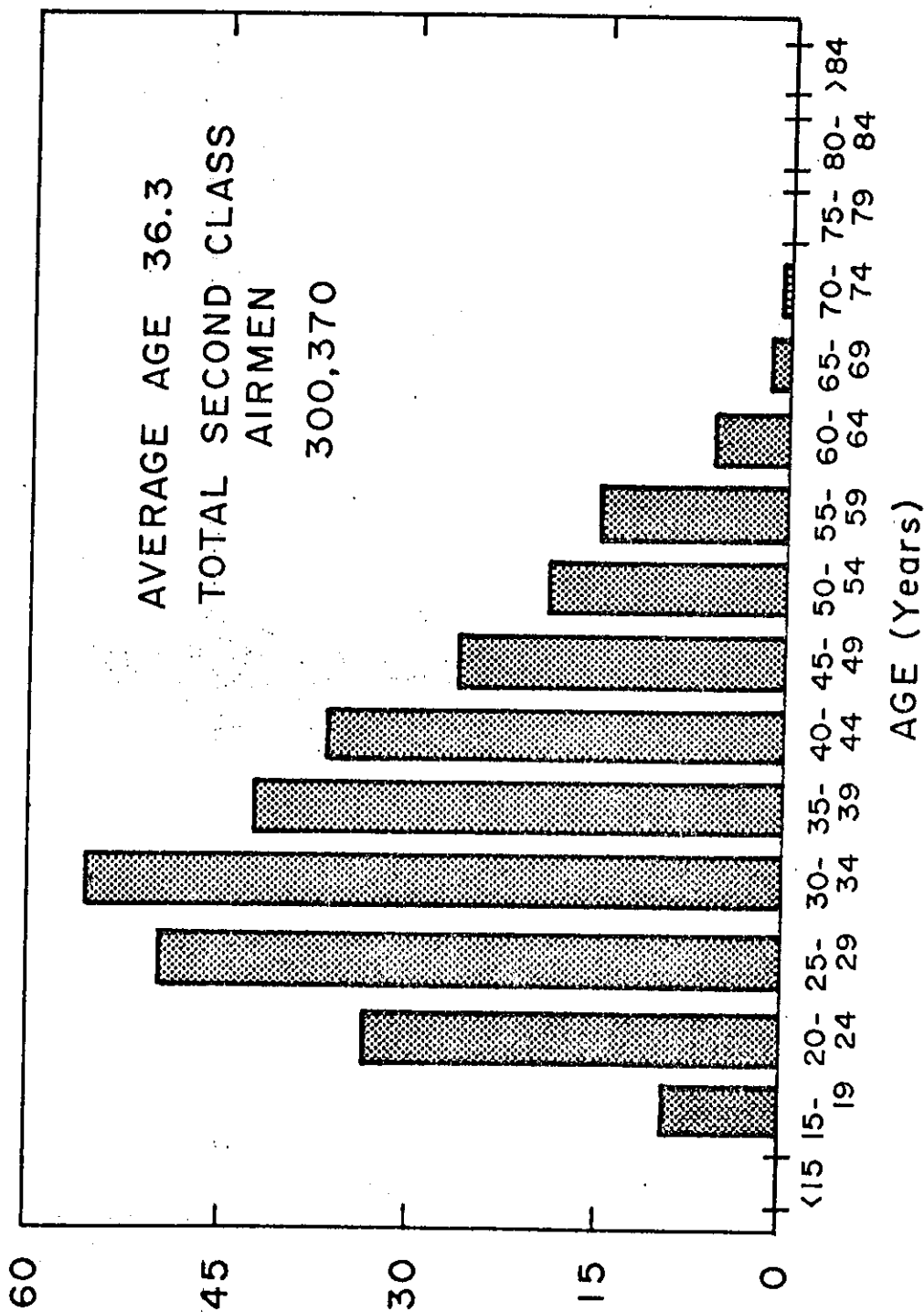
\*BRACKETS ARE INDICATIVE OF AGE CLASS INTERVALS WHEREIN MAGNITUDES ARE NOT APPARENT ON THIS SCALE. IN SUCH INSTANCES, THE ACCOMPANYING TABLE (TABLE IV.G) SHOULD BE CONSULTED FOR FREQUENCIES.

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, 1978



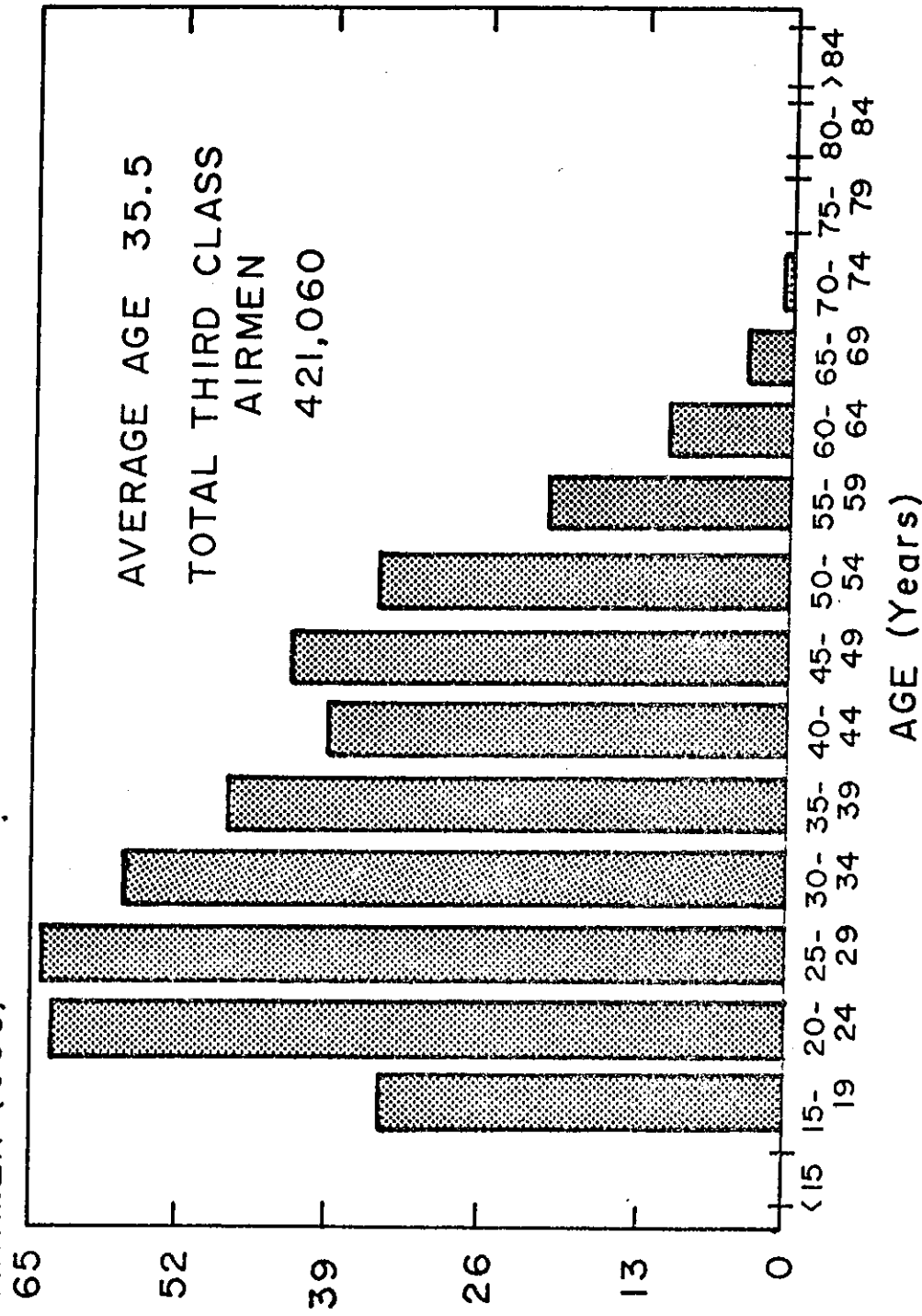
\*BRACKETS ARE INDICATIVE OF AGE CLASS INTERVALS WHEREIN MAGNITUDES ARE NOT APPARENT ON THIS SCALE. IN SUCH INSTANCES, THE ACCOMPANYING TABLE (TABLE IV.G) SHOULD BE CONSULTED FOR FREQUENCIES.

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, 1978



\*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, 1978

| Age          | First Class |        | Second Class |        | Third Class |        | Total Airmen |        |
|--------------|-------------|--------|--------------|--------|-------------|--------|--------------|--------|
|              | Male        | Female | Male         | Female | Male        | Female | Male         | Female |
| Less than 15 | 10          | 1      | 7            | 4      | 171         | 19     | 188          | 24     |
| 15 - 19      | 2,472       | 162    | 9,073        | 920    | 32,301      | 4,129  | 43,846       | 5,211  |
| 20 - 24      | 7,419       | 342    | 31,846       | 2,646  | 56,230      | 6,710  | 95,495       | 9,698  |
| 25 - 29      | 12,389      | 352    | 47,720       | 2,266  | 56,172      | 7,315  | 116,281      | 9,933  |
| 30 - 34      | 19,093      | 240    | 54,876       | 1,468  | 50,353      | 6,614  | 124,322      | 8,322  |
| 35 - 39      | 15,576      | 109    | 41,526       | 999    | 42,513      | 4,716  | 99,615       | 5,824  |
| 40 - 44      | 12,192      | 41     | 36,064       | 694    | 36,599      | 3,234  | 84,855       | 3,969  |
| 45 - 49      | 8,452       | 36     | 26,256       | 610    | 39,594      | 2,778  | 74,302       | 3,424  |
| 50 - 54      | 5,773       | 31     | 18,907       | 500    | 33,915      | 1,945  | 58,595       | 2,476  |
| 55 - 59      | 6,542       | 18     | 15,237       | 315    | 20,095      | 958    | 41,874       | 1,291  |
| 60 - 64      | 1,108       | 6      | 5,791        | 142    | 9,343       | 317    | 16,242       | 465    |
| 65 - 69      | 196         | 2      | 1,773        | 49     | 3,436       | 116    | 5,405        | 167    |
| 70 - 74      | 40          | -      | 515          | 16     | 1,080       | 30     | 1,635        | 46     |
| 75 - 79      | 9           | -      | 129          | 3      | 278         | 9      | 416          | 12     |
| 80 - 84      | 1           | -      | 14           | -      | 74          | 1      | 89           | 1      |
| 85 and over  | -           | -      | 3            | 1      | 14          | 1      | 17           | 2      |
| TOTAL        | 91,272      | 1,340  | 289,737      | 10,633 | 382,168     | 38,892 | 763,177      | 50,865 |

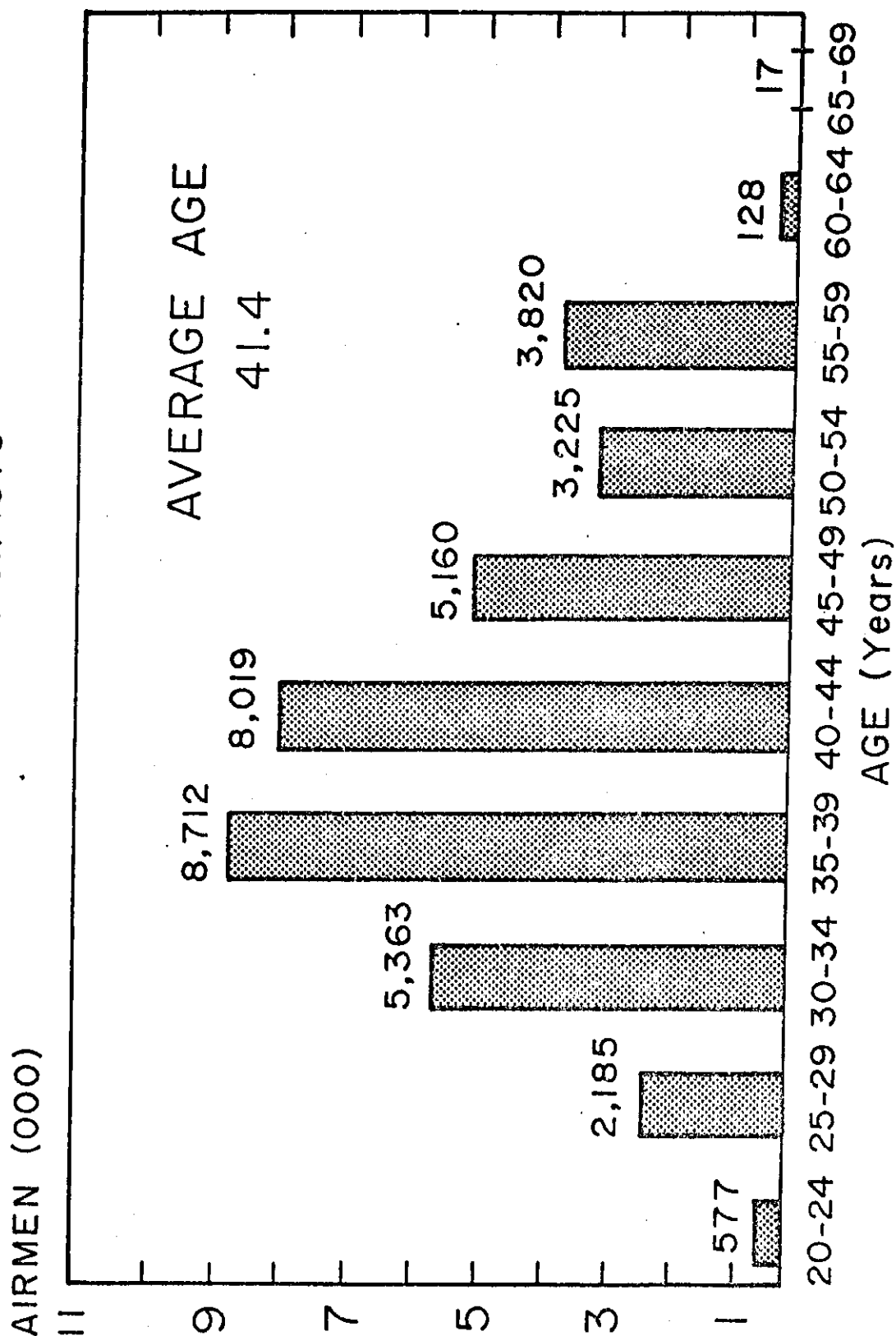
\*Totals are based on active certified airmen within the past 25 months.

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

Figure V.H

# AGE DISTRIBUTION OF AIRLINE PILOTS

As Of: December 31, 1978



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

Table IV.I

AGE DISTRIBUTION OF AIRLINE PILOTS\*  
As Of: December 31, 1978

| Age Groups<br>(1) | Airline Pilots<br>(2) | Certified First<br>Class Airmen**<br>(3) | Percent of Total      |                                     |
|-------------------|-----------------------|------------------------------------------|-----------------------|-------------------------------------|
|                   |                       |                                          | Airline Pilots<br>(4) | Certified First<br>Class Airmen (5) |
| 20 - 24           | 577                   | 7,761                                    | 1.5                   | 8.6                                 |
| 25 - 29           | 2,185                 | 12,741                                   | 5.9                   | 14.2                                |
| 30 - 34           | 5,363                 | 19,333                                   | 14.4                  | 21.5                                |
| 35 - 39           | 8,712                 | 15,685                                   | 23.4                  | 17.5                                |
| 40 - 44           | 8,019                 | 12,233                                   | 21.6                  | 13.6                                |
| 45 - 49           | 5,160                 | 8,488                                    | 13.9                  | 9.4                                 |
| 50 - 54           | 3,225                 | 5,804                                    | 8.7                   | 6.5                                 |
| 55 - 59           | 3,820                 | 6,560                                    | 10.3                  | 7.3                                 |
| 60 - 64           | 128                   | 1,114                                    | 0.3                   | 1.2                                 |
| 65 - 69           | 17                    | 198                                      | 0.0+                  | 0.2                                 |
| TOTAL             | 37,206                | 89,917                                   | 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.

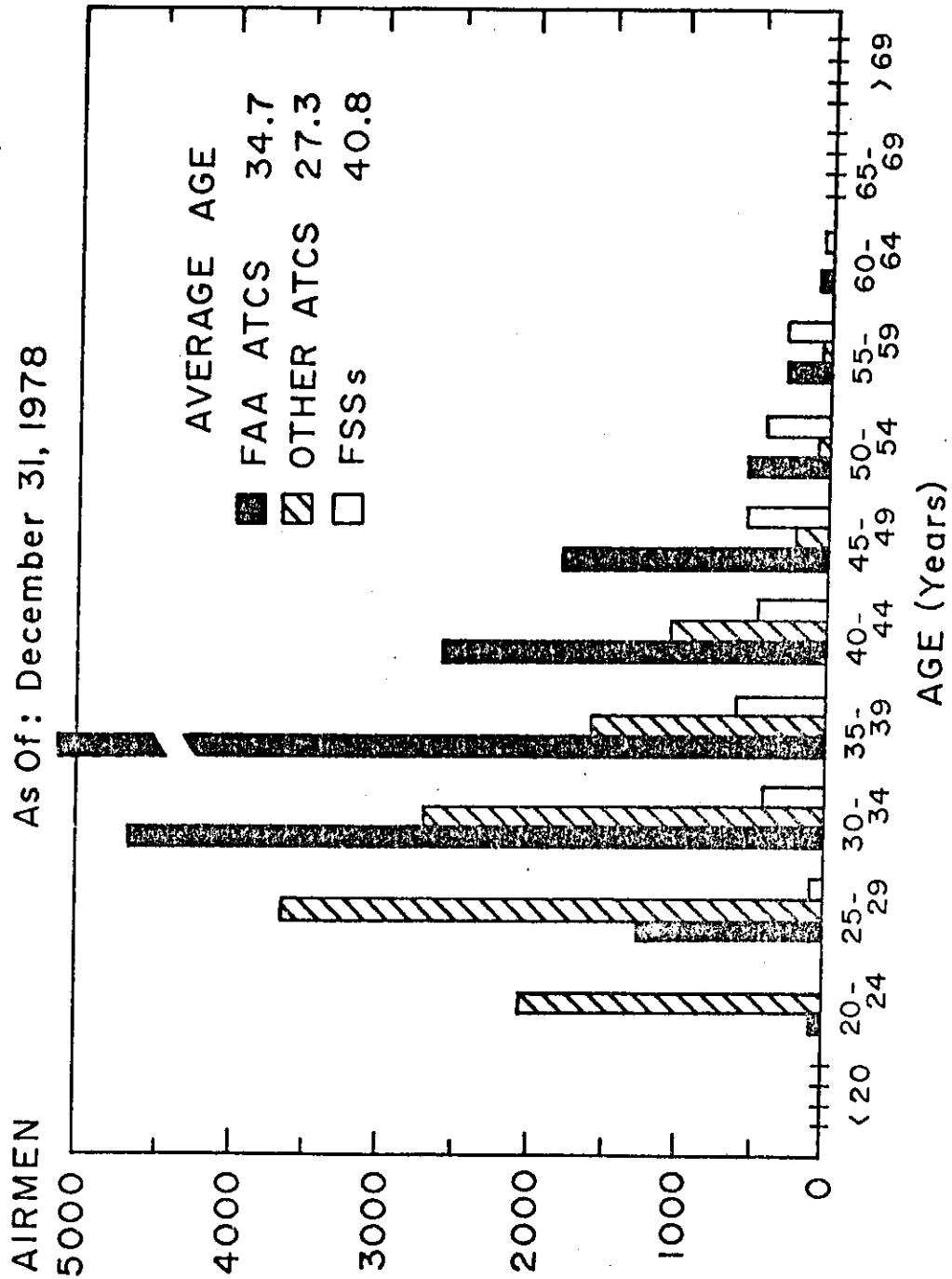
\*\*Extreme age groups were deleted to more closely compare with age requirements for airline pilots. Under Part 121, Federal Aviation Regulations, no person may serve as a pilot on an airplane engaged in air carrier operations if that person has reached his 60th birthday. However, some airmen falling 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 AND FLIGHT SERVICE STATION SPECIALISTS

As Of: December 31, 1978



\*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  
AND FLIGHT SERVICE STATION SPECIALISTS\*  
As Of: December 31, 1978

| Age                                             | FAA<br>ATC'S | Other<br>ATC'S | FSS'S |
|-------------------------------------------------|--------------|----------------|-------|
| Less than 20                                    | 106          | 2,089          | 8     |
| 20 - 24                                         | 1,269        | 3,652          | 117   |
| 25 - 29                                         | 4,719        | 2,706          | 450   |
| 30 - 34                                         | 5,553        | 1,579          | 652   |
| 35 - 39                                         | 2,606        | 1,043          | 497   |
| 40 - 44                                         | 3,005        | 621            | 672   |
| 45 - 49                                         | 1,830        | 248            | 568   |
| 50 - 54                                         | 558          | 84             | 418   |
| 55 - 59                                         | 343          | 58             | 337   |
| 60 - 64                                         | 49           | 12             | 68    |
| 65 - 69                                         | 3            | 2              | 5     |
| Over 69                                         | 1            | 1              | -     |
| TOTAL                                           | 20,042       | 12,095         | 3,792 |
| Percent of all Certified<br>Second Class Airmen | 6.7          | 4.0            | 1.3   |

\*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

AIR TRAFFIC CONTROLLERS (ATC) AND FLIGHT  
SERVICE STATION SPECIALISTS (FSS) BY  
CLASS OF CERTIFICATE APPLIED FOR  
As Of: December 31, 1978

| Class Applied For                          | ATC    | FSS   |
|--------------------------------------------|--------|-------|
| ATC or FSS--Civilian<br>and FAA            | 14,375 | 2,462 |
| ATC--Military                              | 11,411 | 9     |
| Commercial Pilot and<br>ATC or FSS         | 3,566  | 787   |
| Private or Student Pilot<br>and ATC or FSS | 2,536  | 543   |
| TOTAL                                      | 31,888 | 3,801 |

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

Table IV.M

# HEIGHT DISTRIBUTION OF ACTIVE AIRMEN BY CLASS AND SEX\*

As Of: December 31, 1978

| Height<br>In Inches | First Class |        | Second Class |        | Third Class |        | Total Airmen |        |
|---------------------|-------------|--------|--------------|--------|-------------|--------|--------------|--------|
|                     | Male        | Female | Male         | Female | Male        | Female | Male         | Female |
| Less than 59        | 149         | 13     | 567          | 76     | 686         | 242    | 1,402        | 331    |
| 59                  | 43          | 1      | 136          | 29     | 184         | 134    | 363          | 164    |
| 60                  | 193         | 23     | 665          | 298    | 883         | 1,096  | 1,741        | 1,417  |
| 61                  | 77          | 35     | 316          | 357    | 551         | 1,411  | 944          | 1,803  |
| 62                  | 66          | 103    | 350          | 955    | 747         | 3,837  | 1,163        | 4,895  |
| 63                  | 100         | 141    | 536          | 1,151  | 1,129       | 4,344  | 1,765        | 5,636  |
| 64                  | 314         | 196    | 1,656        | 1,671  | 2,782       | 5,998  | 4,752        | 7,865  |
| 65                  | 729         | 191    | 3,473        | 1,539  | 5,381       | 5,641  | 9,583        | 7,371  |
| 66                  | 2,251       | 205    | 9,417        | 1,557  | 13,659      | 6,044  | 25,327       | 7,806  |
| 67                  | 4,426       | 173    | 15,903       | 1,216  | 21,771      | 4,339  | 42,100       | 5,728  |
| 68                  | 9,279       | 137    | 29,338       | 883    | 38,632      | 2,993  | 77,249       | 4,013  |
| 69                  | 10,664      | 57     | 33,055       | 493    | 41,404      | 1,513  | 85,123       | 2,063  |
| 70                  | 14,257      | 37     | 43,818       | 223    | 58,637      | 737    | 116,712      | 997    |
| 71                  | 13,130      | 15     | 41,863       | 97     | 55,689      | 266    | 110,682      | 378    |
| 72                  | 16,678      | 8      | 51,110       | 57     | 64,422      | 165    | 132,210      | 230    |
| 73                  | 7,766       | 1      | 23,693       | 10     | 30,921      | 42     | 62,380       | 53     |
| 74                  | 6,333       | 2      | 18,236       | 7      | 23,546      | 29     | 48,115       | 38     |
| 75                  | 2,807       | -      | 8,542        | 7      | 11,120      | 20     | 22,469       | 27     |
| Over 75             | 2,010       | 2      | 7,063        | 7      | 10,024      | 41     | 19,097       | 50     |
| TOTAL               | 91,272      | 1,340  | 289,737      | 10,633 | 382,168     | 38,892 | 763,177      | 50,865 |
| Average Height      | 70.6        | 65.3   | 70.5         | 65.0   | 70.4        | 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.N

**WEIGHT DISTRIBUTION OF ACTIVE AIRMEN  
BY CLASS AND SEX\***

As Of: December 31, 1978

| Weight<br>In Pounds | First Class   |              | Second Class   |               | Third Class    |               | Total Airmen   |               |
|---------------------|---------------|--------------|----------------|---------------|----------------|---------------|----------------|---------------|
|                     | Male          | Female       | Male           | Female        | Male           | Female        | Male           | Female        |
| Less than 90        | 41            | 2            | 174            | 17            | 314            | 72            | 529            | 91            |
| 90 - 99             | 7             | 16           | 18             | 118           | 63             | 517           | 88             | 651           |
| 100 - 109           | 42            | 108          | 118            | 749           | 365            | 2,997         | 525            | 3,854         |
| 110 - 119           | 151           | 316          | 544            | 2,037         | 1,445          | 7,612         | 2,140          | 9,965         |
| 120 - 129           | 628           | 392          | 2,169          | 2,608         | 4,794          | 9,755         | 7,591          | 12,755        |
| 130 - 139           | 2,276         | 270          | 7,554          | 2,235         | 13,431         | 7,587         | 23,261         | 10,092        |
| 140 - 149           | 5,651         | 118          | 17,728         | 1,264         | 26,671         | 4,506         | 50,050         | 5,888         |
| 150 - 159           | 11,582        | 63           | 33,893         | 721           | 45,552         | 2,514         | 91,027         | 3,298         |
| 160 - 169           | 16,496        | 29           | 47,091         | 342           | 59,473         | 1,325         | 123,060        | 1,696         |
| 170 - 179           | 17,941        | 11           | 51,840         | 198           | 63,379         | 738           | 133,160        | 947           |
| 180 - 189           | 15,194        | 9            | 47,321         | 127           | 56,840         | 489           | 119,355        | 625           |
| 190 - 199           | 9,665         | 3            | 32,879         | 72            | 39,944         | 316           | 82,488         | 391           |
| 200 - 209           | 5,304         | -            | 20,450         | 41            | 26,308         | 192           | 52,062         | 233           |
| 210 - 219           | 3,112         | 1            | 12,498         | 40            | 17,255         | 88            | 32,865         | 129           |
| 220 - 229           | 1,686         | -            | 7,188          | 21            | 11,109         | 62            | 19,983         | 83            |
| 230 - 239           | 762           | -            | 3,854          | 16            | 6,300          | 44            | 10,916         | 60            |
| 240 - 249           | 376           | -            | 1,979          | 7             | 3,673          | 31            | 6,028          | 38            |
| Over 249            | 358           | 2            | 2,439          | 20            | 5,252          | 47            | 8,049          | 69            |
| <b>TOTAL</b>        | <b>91,272</b> | <b>1,340</b> | <b>289,737</b> | <b>10,633</b> | <b>382,168</b> | <b>38,892</b> | <b>763,177</b> | <b>50,865</b> |

**Average Weight** 176.2 127.9 178.5 132.5 178.2 132.0 178.1 132.0

\*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.O

ACTIVE AIRMEN BY TYPE OF  
FLYING AND CLASS\*  
As Of: December 31, 1978

| Class<br>Issued | Type of Flying** |         |          |         | Business & |         |
|-----------------|------------------|---------|----------|---------|------------|---------|
|                 | Business         | Percent | Pleasure | Percent | Pleasure   | Percent |
| First           | 75,107           | ( 9.2)  | 16,322   | ( 2.0)  | 1,183      | (0.2)   |
| Second          | 90,218           | (11.1)  | 202,617  | (24.9)  | 7,535      | (0.9)   |
| Third           | 47,976           | ( 5.9)  | 364,621  | (44.8)  | 8,463      | (1.0)   |
| TOTAL           | 213,301          | (26.2)  | 583,560  | (71.7)  | 17,181     | (2.1)   |

\*Totals are based on active airmen certified within the past 25 months.  
Basis for percentage computations is also total active certified airmen  
(814,042).

\*\*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."

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

Table IV.P

AIRMEN BY OCCUPATION, CLASS AND SEX\*  
As Of: December 31, 1978

| Occupation Code                                | First Class   |              | Second Class   |               | Third Class    |               | Total          |               |
|------------------------------------------------|---------------|--------------|----------------|---------------|----------------|---------------|----------------|---------------|
|                                                | Male          | Female       | Male           | Female        | Male           | Female        | Male           | Female        |
| 1 - Pilot (Scheduled or Non-Scheduled Airline) | 39,463        | 99           | 307            | 3             | 80             | 5             | 39,850         | 107           |
| 2 - Flight Engineer                            | 1,805         | 4            | 2,883          | 6             | 10             | 1             | 4,698          | 11            |
| 3 - Flight Navigator/Flight Radio Operator     | 16            | -            | 77             | -             | 4              | -             | 97             | -             |
| 4 - Business or Executive Pilot                | 19,491        | 171          | 320            | 2             | 27             | 1             | 19,838         | 174           |
| 5 - Commercial Pilot (Self Employed)           | 24            | -            | 2,903          | 58            | 7              | 1             | 2,934          | 59            |
| 6 - Commercial Pilot (Not Self Employed)       | 177           | 2            | 13,020         | 149           | 30             | 1             | 13,227         | 152           |
| 7 - Aero Application (Agriculture)             | 116           | -            | 3,635          | 4             | 17             | -             | 3,768          | 4             |
| 8 - Air Traffic Controller                     | 461           | 20           | 34,190         | 2,985         | 95             | 4             | 34,746         | 3,009         |
| 9 - Flight Instructor                          | 2,920         | 201          | 5,130          | 366           | 28             | 3             | 8,078          | 570           |
| 0 - Aircraft Mechanic and Fixed Base Operators | 457           | 4            | 3,432          | 30            | 390            | 11            | 4,279          | 45            |
| F - Flight Service Station Specialist          | 111           | 6            | 3,984          | 409           | 96             | 57            | 4,191          | 472           |
| X - Not Given or Non-Aeronautical Occupation   | 26,231        | 833          | 219,856        | 6,621         | 381,384        | 38,808        | 627,471        | 46,262        |
| <b>TOTAL</b>                                   | <b>91,272</b> | <b>1,340</b> | <b>289,737</b> | <b>10,633</b> | <b>382,168</b> | <b>38,892</b> | <b>763,177</b> | <b>50,865</b> |

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

EMPLOYERS OF ACTIVE AIRMEN BY  
CLASS OF CERTIFICATE ISSUED\*

As Of: December 31, 1978

| Employer                      | First<br>Class | Second<br>Class | Third<br>Class | Total  | Major<br>Percent<br>Of Total |
|-------------------------------|----------------|-----------------|----------------|--------|------------------------------|
| Airlift International         | 135            | 35              | -              | 170    |                              |
| Airwest                       | 594            | 54              | 3              | 651    |                              |
| Alaska Airlines               | 149            | 21              | 1              | 171    |                              |
| Allegheny Airlines            | 995            | 49              | 1              | 1,045  |                              |
| Aloha Airlines                | 71             | 11              | -              | 82     |                              |
| American Airlines             | 3,663          | 676             | 3              | 4,342  |                              |
| Braniff Airways               | 1,683          | 26              | 7              | 1,716  |                              |
| Capitol International Airways | 102            | 60              | 1              | 163    |                              |
| Continental Air Lines         | 1,289          | 83              | 3              | 1,375  |                              |
| Delta Air Lines               | 3,363          | 59              | 4              | 3,426  |                              |
| Eastern Airlines              | 3,745          | 197             | 7              | 3,949  |                              |
| Flying Tiger Line             | 479            | 46              | 1              | 526    |                              |
| Frontier Airlines             | 585            | 30              | 1              | 616    |                              |
| Hawaiian Airlines             | 155            | 7               | -              | 162    |                              |
| National Airlines             | 617            | 277             | 1              | 895    |                              |
| New York Airways              | 3              | 2               | -              | 5      |                              |
| North Central Airlines        | 500            | 23              | 1              | 524    |                              |
| Northwest Airlines            | 1,427          | 13              | 4              | 1,444  |                              |
| Overseas National Airways     | 27             | 21              | -              | 48     |                              |
| Ozark Airlines                | 415            | 12              | 1              | 428    |                              |
| Pacific Southwest Airlines    | 341            | 31              | 1              | 373    |                              |
| Pan American World Airways    | 2,002          | 400             | 7              | 2,409  |                              |
| Piedmont Aviation             | 441            | 28              | 2              | 471    |                              |
| Reeve Aleutian Airways        | 8              | -               | -              | 8      |                              |
| Seaboard World Airlines       | 114            | 59              | -              | 173    |                              |
| Southern Air Transport        | 16             | -               | -              | 16     |                              |
| Southern Airways              | 441            | 20              | -              | 461    |                              |
| Trans International Airlines  | 332            | 142             | 1              | 475    |                              |
| Texas International Airlines  | 289            | 12              | 1              | 302    |                              |
| Trans World Airlines          | 3,610          | 349             | 9              | 3,968  |                              |
| United Airlines               | 5,448          | 470             | 11             | 5,929  |                              |
| Western Airlines              | 1,344          | 151             | 1              | 1,496  |                              |
| Wien Consolidated Airlines    | 134            | 13              | 1              | 148    |                              |
| World Airways                 | 189            | 35              | -              | 224    |                              |
| SUBTOTAL ALL AIRLINES         | 34,706         | 3,412           | 73             | 38,191 | 4.7                          |

Table IV.Q (Continued)

EMPLOYERS OF ACTIVE AIRMEN BY  
CLASS OF CERTIFICATE ISSUED\*  
As Of: December 31, 1978

| Employer                                                                          | First<br>Class | Second<br>Class | Third<br>Class | Total   | Major<br>Percent<br>Of Total |
|-----------------------------------------------------------------------------------|----------------|-----------------|----------------|---------|------------------------------|
| Federal Aviation Administra-<br>tion                                              | 1,810          | 28,832          | 475            | 31,117  | 3.8                          |
| Government, other than military<br>or FAA, includes state and<br>local government | 594            | 1,166           | 4              | 1,764   | 0.2                          |
| Aircraft Industry                                                                 | 592            | 663             | 5              | 1,260   | 0.2                          |
| Industry, other than aircraft                                                     | 5,224          | 2,662           | 15             | 7,901   | 1.0                          |
| Fixed Base Operation (flying<br>schools, etc.)                                    | 2,495          | 6,829           | 294            | 9,618   | 1.2                          |
| Self Employed                                                                     | 2,011          | 5,639           | 42             | 7,692   | 1.0                          |
| Other                                                                             | 18,204         | 11,127          | 96             | 29,427  | 3.6                          |
| Not Applicable                                                                    | 23,117         | 196,635         | 419,592        | 639,344 | 78.5                         |
| Air Force                                                                         | 2,473          | 23,799          | 109            | 26,381  | 3.2                          |
| Army                                                                              | 269            | 7,759           | 29             | 8,057   | 1.0                          |
| Coast Guard                                                                       | 33             | 223             | 1              | 257     | 0.0+                         |
| Marines and Navy                                                                  | 1,006          | 11,354          | 51             | 12,411  | 1.5                          |
| National Aeronautics and Space<br>Administration                                  | 78             | 270             | 274            | 622     | 0.1                          |
| SUBTOTAL ALL OTHERS                                                               | 57,906         | 296,958         | 420,987        | 775,851 | 95.3                         |
| TOTAL                                                                             | 92,612         | 300,370         | 421,060        | 814,042 | 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, 1978, by class of medical certificate issued.

Table V.A  
ACTIVE AIRMEN BY NUMBER OF RESTRICTIONS  
CARRIED, CLASS AND SEX\*  
As Of: December 31, 1978

| Number of<br>Restrictions | First Class |        | Second Class |        | Third Class |        | Total Airmen |        | Total<br>Airmen |
|---------------------------|-------------|--------|--------------|--------|-------------|--------|--------------|--------|-----------------|
|                           | Male        | Female | Male         | Female | Male        | Female | Male         | Female |                 |
| 1                         | 27,425      | 424    | 121,388      | 4,809  | 167,470     | 17,079 | 316,283      | 22,312 | 338,595         |
| 2                         | 467         | 31     | 6,347        | 458    | 9,034       | 445    | 15,848       | 934    | 16,782          |
| 3                         | 41          | 1      | 336          | 26     | 280         | 12     | 657          | 39     | 696             |
| 4                         | 2           | 1      | 22           | -      | 11          | -      | 35           | 1      | 36              |
| 5                         | -           | -      | 2            | -      | -           | -      | 2            | -      | 2               |
| 6                         | -           | -      | -            | -      | 1           | -      | 1            | -      | 1               |
| More Than 6               | -           | -      | -            | -      | -           | -      | -            | -      | -               |

\*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, 1978

| Restriction                                                                                 | First Class |        | Second Class |        | Third Class |        | Total Airmen |        |
|---------------------------------------------------------------------------------------------|-------------|--------|--------------|--------|-------------|--------|--------------|--------|
|                                                                                             | Male        | Female | Male         | Female | Male        | Female | Male         | Female |
| Must Have Available Glasses<br>For Near Vision                                              | 9,443       | 29     | 23,036       | 518    | 33,707      | 2,068  | 66,186       | 2,615  |
| Must Wear Corrective Lenses                                                                 | 13,610      | 336    | 81,628       | 3,642  | 116,360     | 13,281 | 211,598      | 17,259 |
| Must Wear Glasses for Near<br>and Distant Vision                                            | 3,856       | 50     | 14,710       | 509    | 15,455      | 1,517  | 34,021       | 2,076  |
| Must Wear Corrective Lenses<br>For Distant Vision and<br>Possess Glasses for Near<br>Vision | 36          | 1      | 186          | 15     | 107         | 13     | 329          | 29     |
| Must Wear Prismatic Correction<br>While Flying                                              | 5           | -      | 33           | -      | 24          | 2      | 62           | 2      |
| Must Wear Corrective Lenses:<br>Extra Pair Must Be Available                                | 718         | 69     | 3,505        | 452    | 2,874       | 559    | 7,097        | 1,080  |
| Must Wear Hearing Aid                                                                       | 16          | 1      | 136          | 1      | 351         | 12     | 503          | 14     |
| Must Wear Artificial Limb                                                                   | 15          | -      | 93           | 1      | 283         | 1      | 391          | 2      |
| Oxygen Required When Flying<br>Above 7,999 Feet                                             | -           | -      | 3            | -      | 6           | 1      | 9            | 1      |
| Passenger Carrying Prohibited                                                               | 4           | -      | 11           | -      | 13          | -      | 28           | -      |
| Not Valid For Pilot In Command                                                              | 5           | 1      | 18           | -      | 3           | 1      | 26           | 2      |

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG  
ACTIVE AIRMEN BY CLASS AND SEX\*  
As Of: December 31, 1978

| Restriction                                                          | First Class |        | Second Class |        | Third Class |        | Total Airmen |        |
|----------------------------------------------------------------------|-------------|--------|--------------|--------|-------------|--------|--------------|--------|
|                                                                      | Male        | Female | Male         | Female | Male        | Female | Male         | Female |
| Not Valid For Control Tower Operator Duties                          | 14          | -      | 95           | 2      | 61          | -      | 170          | 2      |
| Not Valid For Air Transport Duties                                   | 1           | -      | 3            | -      | 7           | -      | 11           | -      |
| Flying of Jet Aircraft Prohibited                                    | -           | -      | 1            | -      | 1           | -      | 2            | -      |
| Not Valid For Night Flying or By Color Signal Control (Color Vision) | 97          | -      | 1,898        | 6      | 9,018       | 43     | 11,013       | 49     |
| Not Valid For Night Flying (Glaucoma)                                | -           | -      | 4            | -      | 4           | -      | 8            | -      |
| Not Valid For Flying Where Radio Use Is Required                     | -           | -      | 9            | -      | 82          | 5      | 91           | 5      |
| Flying Limited To Remote Areas                                       | -           | -      | 1            | -      | -           | -      | 1            | -      |
| Valid For Flight Service Station or Center Duties only               | 1           | -      | 53           | 1      | 2           | -      | 56           | 1      |
| Valid For Flight Test Only                                           | 16          | -      | 23           | -      | 23          | 1      | 62           | 1      |
| Second Class Privileges Limited To Crop Dusting                      | -           | -      | 3            | -      | -           | -      | 3            | -      |
| Second Class Privileges Limited To Flight Engineer Duties            | 4           | -      | 31           | -      | 1           | -      | 36           | -      |

Table V.B (Continued)

FREQUENCY OF RESTRICTIONS AMONG  
ACTIVE AIRMEN BY CLASS AND SEX\*  
As Of: December 31, 1978

| 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            | -      | 1           | -      | 3            | -      |
| Second Class Privileges Limited To Control Tower Operator Duties | 2           | -      | 13           | -      | 4           | -      | 19           | -      |
| Valid For And Limited To ATC Duty Only                           | 15          | 1      | 5,579        | 435    | 66          | 3      | 5,660        | 439    |
| Valid For ATC Duties - Center Only                               | -           | -      | 87           | 6      | 9           | 1      | 96           | 7      |
| Valid For Flight Service Station Duties Only                     | 1           | -      | 435          | 27     | 5           | -      | 441          | 27     |
| Limited to Military Controller Duties                            | 1           | -      | 475          | 112    | 13          | 2      | 489          | 114    |
| Valid For Control Tower Duties When Second Controller On Duty    | -           | -      | 12           | -      | 1           | -      | 13           | -      |
| Valid Only When Accompanied by Another Qualified Pilot           | 1           | -      | 1            | -      | 4           | -      | 6            | -      |
| Valid For Student Pilot Purposes Only                            | 2           | 1      | 98           | 5      | 2,681       | 228    | 2,781        | 234    |
| 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, 1978

| Restriction                                     | First Class |        | Second Class |        | Third Class |        | Total Airmen |        |
|-------------------------------------------------|-------------|--------|--------------|--------|-------------|--------|--------------|--------|
|                                                 | Male        | Female | Male         | Female | Male        | Female | Male         | Female |
| Issued on Basis of Demonstrated Medical Fitness | -           | -      | -            | -      | -           | -      | -            | -      |
| Time Limitation Restrictions                    | 186         | -      | 2,039        | 51     | 3,547       | 215    | 5,772        | 266    |
| Panel Restrictions                              | 224         | 2      | 185          | 2      | 814         | 18     | 1,223        | 22     |
| Miscellaneous Restrictions                      | 216         | 2      | 782          | 18     | 901         | 34     | 1,899        | 54     |
| TOTAL                                           | 28,490      | 493    | 135,188      | 5,803  | 186,428     | 18,005 | 350,106      | 24,301 |

\*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, 1978

| Class<br>Issued | Frequency** |         |        |         |
|-----------------|-------------|---------|--------|---------|
|                 | Male        | Percent | Female | Percent |
| First           | 565         | (0.6)   | 1      | (0.1)   |
| Second          | 4,340       | (1.5)   | 13     | (0.1)   |
| Third           | 10,692      | (2.8)   | 64     | (0.2)   |
| TOTAL           | 15,597      | (2.0)   | 78     | (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., 0.6% 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, 1978

| Class<br>Issued | Frequency** |         |        |         |
|-----------------|-------------|---------|--------|---------|
|                 | Male        | Percent | Female | Percent |
| First           | 5,809       | ( 0.6)  | 158    | (11.8)  |
| Second          | 32,096      | (11.1)  | 1,261  | (11.9)  |
| Third           | 15,070      | ( 3.9)  | 1,155  | ( 3.0)  |
| TOTAL           | 52,975      | ( 6.9)  | 2,574  | ( 5.1)  |

\*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.