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RAF BENTWATERS UNITED KINGDOM REVISED UNIFORM SUMMARY

1/3

OF SURFACE WEATHER (U) AIR FORCE ENVIRONMENTAL

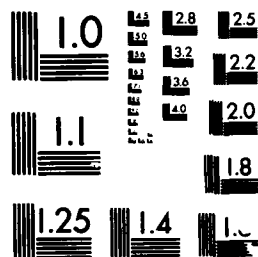
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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

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UK 035963

USAFETAC/DS-88/019

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OPERATING LOCATION - A  
**USAFETAC**  
Air Weather Service (MAC)



REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

RAF BENTWATERS UK MSC# 035963  
N 52 08 E 001 26 ELEV 86 FT EGVJ  
PARTS A - F HOURS SUMMARIZED 0000 - 2300 LST  
PERIOD OF RECORD:  
HOURLY OBSERVATIONS: DEC 77 - NOV 87  
SUMMARY OF DAY DATA: JUN 51 - NOV 87

MAR 25 1988

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Distribution Unlimited"

FEDERAL BUILDING  
ASHEVILLE, N.C. 28801 - 2723

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REPORT DOCUMENTATION PAGE

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19. Abstract: A six-part statistical data summary of surface weather observations for: RAF Bentwaters UK. Summary consists of: PART A, Weather Conditions and Atmospheric Phenomena; PART B, Precipitation; PART C, Surface Winds; PART D, Ceiling and Visibility; PART E, Psychrometric Summaries; PART F, Pressure Summaries. See USAFETAC/TN-83/001 (ADA132186), An Aid for Using the Revised Uniform Summary of Surface Weather Observations (RUSSWO) for complete description of contents and instructions for use.
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- 22a. Name of Responsible Individual: Marianne L. Cavanaugh
- 22b. Telephone: (618)256-2625
- 22c. Office Symbol: USAFETAC/LDD



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STATION NAME: RAF BENTWATERS UNITED KINGDOM

STATION NUMBER: C15962

CALL ID: EGVJ

PERIOD OF RECORD:

HOURS SUMMARIZED: 0600-2300 LST

HOURLY OBSERVATIONS: DEC 77 - NOV 87

SUMMARY OF DAY DATA: JUN 56-JAN 57, JAN 58-AUG 58, NOV 58-JUL 75, NOV 75-NOV 87

TIME CONVERSION LST TO GMT: +C

DATE PRODUCED: 17 MAR 1986

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ASHEVILLE NC 28861

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS: ALL RECORD OR RECORD SPECIAL OBSERVATIONS RECORDED ON THE AWS FORMS 1C/10A AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY DATA (DAILY OBSERVATIONS): DATA COMPILED FROM ALL AVAILABLE OBSERVATIONS WHICH INCLUDES HOURLY OBSERVATIONS AND DAILY DATA RECORDED IN COLUMNS 66-73, AWS FORMS 1C/10A.

DESCRIPTION OF SUMMARIES: PRECEDING EACH PART OF THE SUMMARY IS A BRIEF DISCUSSION OF THE SUMMARY INCLUDING THE MANNER OF PRESENTATION.

STANDARD 3-HOUR TIME GROUPS: IN ALL SUMMARIES SHOWING DIURNAL VARIATIONS, WE SUMMARIZE DATA USING THE FOLLOWING EIGHT 3-HOUR TIME PERIODS IN LOCAL STANDARD TIME: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 LST.

FOR A DETAILED DESCRIPTION OF EACH SUMMARY WITH EXAMPLES AND EXERCISES ON ITS USAGE, SEE USAFETAC/TN-83-001, "AN AIRCRAFT FOR USING THE REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS" (RUSSWO).

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PART F: PRESSURE SUMMARIES

AWSMC NUMBER: THIS NUMBER IS THE AIR WEATHER SERVICE MASTER STATION CATALOG NUMBER. THIS NUMBER IS COMPOSED OF THE WMO NUMBER WITH THE ADDITION OF A SUFFIX (1 THROUGH 9). IN CASES WHERE THERE IS NO DESIGNATED WMO NUMBER, A 5-DIGIT NUMBER IS CREATED IN AGREEMENT WITH WMO RULES PLUS A SIXTH DIGIT. THESE NUMBERS ARE ALSO REFERRED TO AS CATSAY OR USAFETAC NUMBERS WHICH UNIQUELY IDENTIFY MORE THAN 15,000 REPORTING STATIONS WORLD WIDE.

| STATION NO. ON SUMMARY | STATION NAME      | LATITUDE | LONGITUDE | FIELD ELEV. (FT.) | CALL SIGN | WMO NUMBER |
|------------------------|-------------------|----------|-----------|-------------------|-----------|------------|
| 035963                 | BENTWATERS RAF UK | N 52 08  | E 001 26  | 86                | EGVJ      | 03596      |

## STATION LOCATION AND INSTRUMENTATION HISTORY

| NUMBER OF LOCATION | GEOGRAPHICAL LOCATION & NAME | TYPE OF STATION | AT THIS LOCATION |        | LATITUDE | LONGITUDE | ELEVATION ABOVE MSL |           | OBS PER DAY |
|--------------------|------------------------------|-----------------|------------------|--------|----------|-----------|---------------------|-----------|-------------|
|                    |                              |                 | FROM             | TO     |          |           | FIELD (FT)          | WT. BARD. |             |
| 1                  | Bentwaters RAF UK            | RAF             | Jun 51           | Mar 55 | N 52 07  | E 001 26  | 90                  | 87        | 24          |
| 2                  | Same                         | Same            | Apr 55           | Jan 57 | Same     | Same      | 92                  | Same      | 24          |
| 3                  | Same                         | Same            | Jan 58           | Mar 61 | Same     | Same      | 97                  | 107       | 24          |
| 4                  | Same                         | Same            | Apr 61           | Sep 66 | N 52 08  | Same      | 98                  | Same      | 24          |
| 5                  | Same                         | Same            | Oct 66           | May 67 | Same     | Same      | 95                  | Same      | 24          |
| 6                  | Same                         | Same            | Jun 67           | Jul 72 | Same     | Same      | Same                | 108       | 24          |
| 7                  | Same                         | Same            | Aug 72           | Feb 78 | Same     | Same      | 85                  | Same      | 24          |
| 8                  | Same                         | Same            | Mar 78           | Jul 82 | Same     | Same      | 86                  | 96        | 24          |
| 9                  | Same                         | Same            | Aug 82           | Dec 83 | Same     | Same      | 86                  | 96        | 24          |
| 10                 | Same                         | Same            | Jan 84           | Nov 87 | Same     | Same      | 86                  | 96        | 24          |

| NUMBER OF LOCATION | DATE OF CHANGE | SURFACE WIND EQUIPMENT INFORMATION                     |                     |                    |                 | REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE |
|--------------------|----------------|--------------------------------------------------------|---------------------|--------------------|-----------------|-----------------------------------------------------|
|                    |                | LOCATION                                               | TYPE OF TRANSMITTER | TYPE OF RECORDER   | HT ABOVE GROUND |                                                     |
| 1                  | Jun 51         | Located on tower on roof of the weather station.       | AN/GMQ-1            | ML 204B (Wind Pnl) | 35 ft           |                                                     |
| 2                  | Jan 58         | Located 320 ft S of Station 1706T.                     | Same                | Same               | 17 ft           |                                                     |
| 3                  | Oct 58         | Same                                                   | Same                | Same               | Same            |                                                     |
| 4                  | Nov 58         | Same                                                   | AN/GMQ-11           | RO-2               | 15 ft           |                                                     |
| 5                  | Mar 60         | Located 110 yds SE of weather stn.                     | Same                | Same               | Same            |                                                     |
| 6                  | May 61         | Located in open area 110 yds due S of the weather stn. | Same                | Same               | 14 ft           |                                                     |
| 7                  | Mar 64         | 1. Located 1000 ft down and 500 ft N of runway 25.     | Same                | Same               | Same            |                                                     |
|                    |                | 2. Located 500 ft down and 500 ft N of runway 7.       | Same                |                    | Same            |                                                     |

| NUMBER<br>OF<br>LOCATION | DATE<br>OF<br>CHANGE | SURFACE WIND EQUIPMENT INFORMATION                                  |                        |                     |                     | REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE |
|--------------------------|----------------------|---------------------------------------------------------------------|------------------------|---------------------|---------------------|-----------------------------------------------------|
|                          |                      | LOCATION                                                            | TYPE OF<br>TRANSMITTER | TYPE OF<br>RECORDER | HT. ABOVE<br>GROUND |                                                     |
| 8                        | Jun 69               | 1. Same                                                             | Same                   | RO-362              | Same                |                                                     |
|                          |                      | 2. Same                                                             | Same                   |                     | Same                |                                                     |
| 9                        | Jul 70               | 1. Located 700 ft off centerline,<br>1450 ft from end of runway 25. | AN/GMQ-20              | Same                | Same                |                                                     |
|                          |                      | 2. Located 425 ft off centerline,<br>1750 ft from end of runway 7.  | Same                   |                     | Same                |                                                     |
| 10                       | Feb 78               | 1. Same                                                             | Same                   | Same                | Same                |                                                     |
|                          |                      | 2. Same                                                             | Same                   |                     | Same                |                                                     |
| 11                       | Jul 82               | 1. Same                                                             | Same                   | Same                | Same                |                                                     |
|                          |                      | 2. Same                                                             | Same                   |                     | Same                |                                                     |
| 12                       | Dec 83               | 1. Same                                                             | Same                   | Same                | Same                |                                                     |
|                          |                      | 2. Same                                                             | Same                   |                     | Same                |                                                     |
| 13                       | Nov 87               | 1. Same                                                             | Same                   | Same                | Same                |                                                     |
|                          |                      | 2. Same                                                             | Same                   |                     | Same                |                                                     |

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## WEATHER CONDITIONS AND ATMOSPHERIC PHENOMENA SUMMARIES

### WEATHER CONDITIONS SUMMARY

1. A PERCENTAGE FREQUENCY OCCURRENCE SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON HOURLY OBSERVATIONS.
3. SUMMARIZED BY THE STANDARD 2-FOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

### ATMOSPHERIC PHENOMENA SUMMARY

1. A PERCENTAGE FREQUENCY OF DAYS SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON SUMMARY OF DAY DATA.
3. SUMMARIZED BY MONTH WITH ALL HOURS AND ALL YEARS COMBINED.

### DEFINITIONS:

THUNDERSTORMS: ALL REPORTED THUNDERSTORMS, TORNADOES AND WATERSPOUTS.

RAIN AND/OR DRIZZLE: ALL REPORTED RAIN AND OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING RAIN AND/OR FREEZING DRIZZLE (GLAZE): ALL REPORTED FREEZING RAIN OR FREEZING DRIZZLE.

SNOW AND/OR SLEET. SNOW INCLUDING SNOW PELLETS AND GRAINS, ICE CRYSTALS AND PELLETS, AND/OR SLEET (ICE PELLETS).

HAIR: ALL REPORTED HAIR.

ALL PRECIPITATION: THIS CATEGORY INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY APPEAR IN A SINGLE OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL COLUMNS MAY EXCEED THE PERCENTAGES IN THIS COLUMN.

FOG: ALL REPORTED FOG, ICE FOG AND GROUND FOG.

SMOKE AND/OR HAZE: ALL REPORTED SMOKE, HAZE AND ANY COMBINATION THEREOF.

BLOWING SNOW: ALL REPORTED BLOWING SNOWS INCLUDING DRIFTING WHEN REPORTED.

DUST AND/OR SAND: ALL REPORTED DUST, SAND, BLOWING DUST, BLOWING SAND AND ANY COMBINATION THEREOF. THE ATMOSPHERIC PHENOMENA SUMMARY (DAYS WITH) INCLUDES ONLY THOSE REPORTS WHEN THE PHENOMENA VISIBILITY LESS THAN 5/8 MILES (1600 METER).

ALL OBSTRUCTIONS TO VISION: INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION (FOG THRU DUST/SAND) AND BLOWING SPRAY. BECAUSE MORE THAN ONE PHENOMENA PER OBSERVATION MAY OCCUR, THE SUM OF THE INDIVIDUAL COLUMNS MAY EXCEED THIS COLUMN.

NOTES:

1. A VALUE IN THE TABLES OF ".C" INDICATES LESS THAN .05% OCCURRENCE WHICH IS USUALLY ONLY ONE OCCURRENCE
2. METAR STATIONS (BEGINNING IN JAN 1968) AND SYNOPTIC REPORTING STATIONS RECORDED ON THE AWS FORMS 10/1CA AND TRANSMITTED LONGLINE ONLY THE HIGHEST ORDER OF ATMOSPHERIC PHENOMENA OBSERVED. BEGINNING IN JAN 1970, METAR STATIONS RECORDED ALL OBSERVED PHENOMENA BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE OBSERVATION CONTAINED RAIN, FOG AND SMOKE, ALL THREE WILL APPEAR ON THE AWS FORMS 10/1CA, BUT ONLY THE RAIN WAS TRANSMITTED LONGLINE. THEREFORE ONLY THE RAIN APPEARS IN OUR DATA BASE FOR HOURLY SUMMARIZATION. THIS PRACTICE EFFECTS THE PERCENTAGES IN THE TABLES.

CLIMATOLOGY BRANCH  
 AF  
 OTHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
 FROM HOURLY OBSERVATIONS

NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-67  
 MONTH: JAN

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>RAIN<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/OBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          |       | 11.5                    |                                   | 4.6                   |      | 15.6                    | 30.2 | 10.4                  | .8              |                      | 41.4                            | 923          |
| 03-05          |       | 13.7                    |                                   | 4.1                   |      | 17.4                    | 30.9 | 11.7                  | .9              |                      | 43.5                            | 925          |
| 06-08          |       | 14.9                    |                                   | 6.4                   | .1   | 20.1                    | 29.4 | 11.4                  | 1.0             |                      | 41.9                            | 927          |
| 09-11          | .2    | 13.1                    | .1                                | 7.1                   | .2   | 19.6                    | 24.8 | 14.3                  | .8              |                      | 39.6                            | 927          |
| 12-14          |       | 12.7                    | .2                                | 6.4                   |      | 17.9                    | 19.2 | 18.8                  | .6              |                      | 38.6                            | 927          |
| 15-17          |       | 14.4                    |                                   | 5.0                   |      | 17.7                    | 18.4 | 19.1                  | .6              |                      | 38.2                            | 927          |
| 18-20          |       | 12.3                    |                                   | 4.4                   |      | 15.6                    | 22.5 | 17.0                  | .6              |                      | 40.2                            | 927          |
| 21-23          |       | 10.0                    |                                   | 4.6                   |      | 14.3                    | 27.4 | 13.6                  | .6              |                      | 41.6                            | 927          |
| TOTALS         | .6    | 12.6                    | .0                                | 5.3                   | .0   | 17.3                    | 25.4 | 14.5                  | .7              |                      | 40.7                            | 7410         |

NUMBER: 035963 STATION NAME: RAF BLTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-67  
 MONTH: FEB

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>RAIN<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/OBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          |       | 10.5                    |                                   | 5.2                   | .1   | 15.0                    | 33.6 | 17.3                  |                 |                      | 50.8                            | 840          |
| 03-05          |       | 8.6                     |                                   | 5.7                   |      | 13.8                    | 40.2 | 12.7                  |                 |                      | 53.0                            | 840          |
| 06-08          | .1    | 7.9                     |                                   | 5.7                   |      | 13.4                    | 40.9 | 14.2                  | .1              |                      | 55.3                            | 843          |
| 09-11          |       | 10.5                    | .4                                | 7.0                   |      | 17.3                    | 29.1 | 24.0                  | .2              |                      | 53.3                            | 842          |
| 12-14          |       | 10.3                    |                                   | 5.9                   |      | 15.4                    | 18.2 | 32.8                  |                 | .1                   | 51.1                            | 842          |
| 15-17          |       | 11.6                    |                                   | 6.7                   |      | 18.3                    | 15.5 | 35.0                  | .1              |                      | 50.6                            | 840          |
| 18-20          |       | 11.8                    |                                   | 4.6                   |      | 15.7                    | 22.5 | 31.1                  | .1              |                      | 53.7                            | 840          |
| 21-23          |       | 9.8                     |                                   | 3.8                   |      | 12.9                    | 28.2 | 25.5                  |                 |                      | 53.7                            | 840          |
| TOTALS         | .6    | 10.2                    | .1                                | 5.6                   | .0   | 15.2                    | 28.5 | 24.1                  | .1              | .0                   | 52.7                            | 6727         |



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>RAIN<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/OBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          |       | 12.6                    |                                   | 1.4                   |      | 13.6                    | 29.9 | 15.2                  |                 |                      | 45.1                            | 927          |
| 03-05          |       | 16.2                    |                                   | 1.3                   |      | 17.0                    | 32.7 | 13.2                  |                 |                      | 45.9                            | 926          |
| 06-08          |       | 16.4                    |                                   | 1.7                   |      | 17.7                    | 31.0 | 16.6                  |                 |                      | 49.6                            | 925          |
| 09-11          |       | 14.9                    |                                   | 2.4                   |      | 16.7                    | 18.8 | 26.6                  |                 |                      | 45.5                            | 924          |
| 12-14          | .2    | 17.4                    |                                   | 2.3                   | .1   | 18.6                    | 7.8  | 28.2                  |                 |                      | 36.0                            | 924          |
| 15-17          |       | 17.5                    |                                   | 1.4                   | .1   | 18.5                    | 7.7  | 27.0                  |                 |                      | 34.7                            | 925          |
| 18-20          |       | 14.0                    |                                   | 1.0                   |      | 14.8                    | 18.4 | 20.2                  |                 |                      | 38.6                            | 927          |
| 21-23          |       | 14.1                    |                                   | 1.3                   |      | 15.1                    | 25.1 | 13.1                  |                 |                      | 38.2                            | 927          |
| TOTALS         | .0    | 15.4                    |                                   | 1.6                   | .0   | 16.5                    | 21.4 | 20.3                  |                 |                      | 41.7                            | 7405         |

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>RAIN<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/OBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          | .1    | 13.7                    |                                   | .7                    |      | 11.1                    | 24.0 | 14.3                  |                 |                      | 38.3                            | 900          |
| 03-05          | .3    | 12.7                    |                                   | .6                    |      | 13.0                    | 31.6 | 10.8                  |                 |                      | 42.3                            | 900          |
| 06-08          |       | 12.4                    |                                   | 1.2                   |      | 12.9                    | 30.3 | 18.2                  |                 |                      | 48.6                            | 900          |
| 09-11          |       | 13.4                    |                                   | 1.0                   |      | 13.3                    | 9.3  | 26.2                  |                 |                      | 35.6                            | 900          |
| 12-14          |       | 12.6                    |                                   | .8                    | .1   | 12.7                    | 5.2  | 25.2                  |                 |                      | 30.4                            | 900          |
| 15-17          | .6    | 12.0                    |                                   | .7                    | .1   | 12.3                    | 4.1  | 24.1                  |                 |                      | 28.2                            | 900          |
| 18-20          | .1    | 11.7                    |                                   | .1                    |      | 11.8                    | 10.4 | 21.8                  |                 |                      | 32.2                            | 900          |
| 21-23          | .1    | 12.3                    |                                   | .6                    |      | 12.8                    | 15.9 | 17.8                  |                 |                      | 33.7                            | 900          |
| TOTALS         | .2    | 12.2                    |                                   | .7                    | .0   | 12.5                    | 16.4 | 19.8                  |                 |                      | 36.2                            | 7200         |

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USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAY

| HOURS<br>(LST) | TSTMS | RAIN<br>6/0R<br>DRIZZLE | FRZING<br>RAIN<br>6/0R<br>DRIZZLE | SNOW<br>6/0R<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>6/0R<br>HAZE | BLOWING<br>SNOW | DUST<br>6/0R<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          | .4    | 11.5                    |                                   |                       |      | 11.5                    | 28.9 | 13.7                  |                 |                      | 42.6                            | 927          |
| 03-05          | .1    | 9.9                     |                                   |                       |      | 9.9                     | 41.2 | 11.2                  |                 |                      | 52.4                            | 927          |
| 06-08          | .1    | 10.3                    |                                   | .1                    |      | 10.3                    | 29.4 | 20.2                  |                 |                      | 49.6                            | 925          |
| 09-11          | .6    | 11.6                    |                                   |                       |      | 11.6                    | 10.1 | 28.1                  |                 |                      | 38.2                            | 924          |
| 12-14          | .2    | 10.9                    |                                   |                       | .1   | 11.0                    | 5.6  | 28.3                  |                 |                      | 33.9                            | 925          |
| 15-17          | .5    | 10.5                    |                                   |                       |      | 10.5                    | 6.1  | 26.6                  |                 |                      | 32.7                            | 924          |
| 18-20          | .9    | 9.6                     |                                   |                       |      | 9.6                     | 9.2  | 25.4                  |                 |                      | 34.6                            | 924          |
| 21-23          | .6    | 9.5                     |                                   |                       |      | 9.5                     | 19.3 | 19.4                  |                 |                      | 38.7                            | 927          |
| TOTALS         | .4    | 10.5                    |                                   | .0                    | .0   | 10.5                    | 18.7 | 21.6                  |                 |                      | 40.3                            | 7403         |

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN

| HOURS<br>(LST) | TSTMS | RAIN<br>6/0R<br>DRIZZLE | FRZING<br>RAIN<br>6/0R<br>DRIZZLE | SNOW<br>6/0R<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>6/0R<br>HAZE | BLOWING<br>SNOW | DUST<br>6/0R<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          | .3    | 11.0                    |                                   |                       |      | 11.0                    | 29.7 | 11.0                  |                 |                      | 40.7                            | 897          |
| 03-05          | .1    | 11.6                    |                                   |                       |      | 11.6                    | 41.7 | 10.0                  |                 |                      | 51.7                            | 899          |
| 06-08          | .4    | 11.5                    |                                   |                       |      | 11.5                    | 23.8 | 19.5                  |                 |                      | 43.3                            | 899          |
| 09-11          | .7    | 8.1                     |                                   | .1                    | .1   | 8.2                     | 7.5  | 22.7                  |                 |                      | 34.1                            | 899          |
| 12-14          | 1.7   | 9.3                     |                                   |                       |      | 9.3                     | 2.2  | 20.2                  |                 |                      | 22.4                            | 900          |
| 15-17          | 1.0   | 9.5                     |                                   |                       |      | 9.5                     | 1.3  | 18.8                  |                 |                      | 20.1                            | 899          |
| 18-20          | 1.1   | 11.1                    |                                   |                       | .1   | 11.2                    | 6.5  | 16.9                  |                 |                      | 23.4                            | 899          |
| 21-23          | .9    | 12.7                    |                                   |                       |      | 12.7                    | 15.9 | 16.1                  |                 |                      | 22.0                            | 899          |
| TOTALS         | .8    | 10.6                    |                                   | .0                    | .2   | 10.6                    | 16.1 | 16.9                  |                 |                      | 33.0                            | 7191         |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL

| HOURS<br>(LST) | TSTMS | RAIN<br>6/0R<br>DRIZZLE | FRZING<br>RAIN<br>6/0R<br>DRIZZLE | SNOW<br>6/0R<br>SLEET | HALE | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>6/0R<br>HAZE | BLOWING<br>SNOW | DUST<br>6/0R<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          | .5    | 8.0                     |                                   |                       |      | 8.0                     | 31.0 | 11.4                  |                 |                      | 42.4                            | 915          |
| 03-05          | .4    | 10.3                    |                                   |                       |      | 10.3                    | 42.3 | 11.7                  |                 |                      | 54.0                            | 915          |
| 06-08          | .2    | 9.2                     |                                   |                       |      | 9.2                     | 27.8 | 24.2                  |                 |                      | 52.0                            | 914          |
| 09-11          |       | 9.1                     |                                   |                       |      | 9.1                     | 6.6  | 28.4                  |                 |                      | 35.0                            | 912          |
| 12-14          | .2    | 8.6                     |                                   |                       |      | 8.6                     | 2.4  | 25.0                  |                 |                      | 27.4                            | 912          |
| 15-17          | .9    | 8.3                     |                                   |                       |      | 8.3                     | 2.6  | 24.8                  |                 |                      | 27.4                            | 915          |
| 18-20          | 1.3   | 6.7                     |                                   |                       |      | 6.7                     | 7.2  | 24.6                  |                 |                      | 31.9                            | 913          |
| 21-23          | 1.0   | 8.0                     |                                   |                       |      | 8.0                     | 20.4 | 15.6                  |                 |                      | 35.9                            | 913          |
| TOTALS         | .6    | 8.5                     |                                   |                       |      | 8.5                     | 17.5 | 20.7                  |                 |                      | 38.3                            | 7309         |

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG

| HOURS<br>(LST) | TSTMS | RAIN<br>6/0R<br>DRIZZLE | FRZING<br>RAIN<br>6/0R<br>DRIZZLE | SNOW<br>6/0R<br>SLEET | HALE | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>6/0R<br>HAZE | BLOWING<br>SNOW | DUST<br>6/0R<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          | .3    | 7.6                     |                                   |                       |      | 7.6                     | 33.9 | 10.9                  |                 |                      | 44.8                            | 929          |
| 03-05          | .4    | 8.4                     |                                   |                       |      | 8.4                     | 42.7 | 8.6                   |                 |                      | 51.3                            | 930          |
| 06-08          | .2    | 8.2                     |                                   |                       |      | 8.2                     | 13.8 | 19.0                  |                 |                      | 52.8                            | 930          |
| 09-11          | .3    | 7.7                     |                                   |                       |      | 7.7                     | 8.6  | 27.0                  |                 |                      | 35.6                            | 930          |
| 12-14          | .9    | 8.5                     |                                   |                       |      | 8.5                     | 2.2  | 26.0                  |                 |                      | 28.2                            | 930          |
| 15-17          | .5    | 9.0                     |                                   |                       | .1   | 9.1                     | 1.9  | 29.0                  |                 |                      | 31.0                            | 930          |
| 18-20          | .3    | 8.0                     |                                   |                       |      | 8.0                     | 7.0  | 27.3                  |                 |                      | 34.3                            | 930          |
| 21-23          | .6    | 6.6                     |                                   |                       |      | 6.6                     | 22.6 | 16.9                  |                 |                      | 39.5                            | 930          |
| TOTALS         | .5    | 8.0                     |                                   |                       | .0   | 8.0                     | 19.1 | 20.6                  |                 |                      | 39.7                            | 7439         |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>RAIN<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          | .6    | 5.2                     |                                   |                       |      | 5.2                     | 30.7 | 14.1                  |                 |                      | 44.8                            | 900          |
| 03-05          | .1    | 6.9                     |                                   |                       |      | 6.9                     | 36.0 | 10.7                  |                 |                      | 46.7                            | 900          |
| 06-08          | .1    | 8.1                     |                                   |                       |      | 8.1                     | 35.0 | 14.4                  |                 |                      | 49.4                            | 900          |
| 09-11          | .1    | 7.2                     |                                   |                       |      | 7.2                     | 13.1 | 26.7                  |                 |                      | 39.8                            | 900          |
| 12-14          |       | 7.2                     |                                   |                       |      | 7.2                     | 4.8  | 27.4                  |                 |                      | 32.2                            | 900          |
| 15-17          | .3    | 8.7                     |                                   |                       |      | 8.7                     | 4.7  | 29.8                  |                 |                      | 34.4                            | 900          |
| 18-20          | .7    | 7.2                     |                                   |                       |      | 7.2                     | 13.9 | 26.7                  |                 |                      | 40.6                            | 900          |
| 21-23          | .1    | 6.3                     |                                   |                       |      | 6.3                     | 22.8 | 18.4                  |                 |                      | 41.2                            | 900          |
| TOTALS         | .3    | 7.1                     |                                   |                       |      | 7.1                     | 20.1 | 21.0                  |                 |                      | 41.1                            | 7200         |

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>RAIN<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          | .1    | 9.9                     |                                   |                       |      | 9.9                     | 36.0 | 9.6                   |                 |                      | 45.6                            | 930          |
| 03-05          | .1    | 12.4                    |                                   |                       |      | 12.4                    | 36.8 | 8.2                   |                 |                      | 44.9                            | 930          |
| 06-08          | .5    | 12.4                    |                                   |                       |      | 12.4                    | 35.7 | 12.2                  |                 |                      | 47.8                            | 930          |
| 09-11          | .2    | 10.8                    |                                   |                       |      | 10.8                    | 18.5 | 23.5                  |                 |                      | 42.6                            | 930          |
| 12-14          | .2    | 11.6                    |                                   |                       |      | 11.6                    | 8.2  | 24.2                  |                 |                      | 32.4                            | 930          |
| 15-17          | .1    | 12.6                    |                                   |                       |      | 12.6                    | 11.2 | 24.1                  |                 |                      | 35.3                            | 930          |
| 18-20          |       | 13.7                    |                                   |                       |      | 13.7                    | 19.0 | 18.5                  |                 |                      | 37.5                            | 930          |
| 21-23          | .2    | 13.0                    |                                   |                       |      | 13.6                    | 26.3 | 12.6                  |                 |                      | 36.4                            | 930          |
| TOTALS         | .2    | 12.6                    |                                   |                       |      | 12.6                    | 24.0 | 16.6                  |                 |                      | 40.6                            | 7440         |

GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>RAIN<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SLEET | HAIR | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          | .1    | 13.1                    |                                   |                       |      | 13.1                    | 31.2 | 10.6                  |                 |                      | 41.6                            | 888          |
| 03-05          |       | 13.4                    |                                   | 1.0                   |      | 14.1                    | 32.4 | 10.7                  |                 |                      | 43.1                            | 888          |
| 06-08          |       | 12.6                    |                                   | .6                    |      | 13.1                    | 34.0 | 10.3                  |                 |                      | 44.2                            | 886          |
| 09-11          | .1    | 11.8                    |                                   | .5                    |      | 12.1                    | 27.1 | 19.2                  |                 |                      | 46.4                            | 884          |
| 12-14          |       | 11.5                    |                                   | .6                    |      | 12.0                    | 18.7 | 22.9                  |                 |                      | 41.7                            | 881          |
| 15-17          |       | 14.1                    |                                   | .9                    |      | 14.9                    | 18.4 | 20.5                  |                 |                      | 38.9                            | 882          |
| 18-20          |       | 15.0                    |                                   | 1.1                   |      | 15.6                    | 24.2 | 16.3                  |                 |                      | 40.5                            | 881          |
| 21-23          |       | 13.9                    |                                   | .7                    |      | 14.2                    | 28.7 | 12.9                  |                 |                      | 41.6                            | 882          |
| TOTALS         | .0    | 13.2                    |                                   | .7                    |      | 13.6                    | 26.8 | 15.4                  |                 |                      | 42.3                            | 7672         |

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>RAIN<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SLEET | HAIR | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          |       | 13.3                    |                                   | 1.2                   |      | 14.2                    | 28.0 | 14.5                  |                 |                      | 42.6                            | 902          |
| 03-05          | .1    | 13.1                    |                                   | 1.4                   | .1   | 14.4                    | 29.9 | 12.8                  |                 |                      | 42.7                            | 903          |
| 06-08          |       | 16.2                    |                                   | 2.1                   |      | 17.8                    | 28.3 | 11.1                  | .1              |                      | 39.5                            | 909          |
| 09-11          |       | 16.7                    |                                   | 2.2                   |      | 18.2                    | 22.0 | 17.3                  | .2              |                      | 39.5                            | 921          |
| 12-14          |       | 15.8                    |                                   | 3.1                   |      | 18.5                    | 15.0 | 21.8                  | .1              |                      | 36.9                            | 918          |
| 15-17          | .1    | 14.2                    |                                   | 2.1                   |      | 15.9                    | 21.0 | 20.4                  |                 |                      | 41.4                            | 918          |
| 18-20          |       | 12.9                    |                                   | 1.9                   |      | 14.6                    | 26.6 | 16.3                  |                 |                      | 42.9                            | 918          |
| 21-23          | .1    | 13.8                    |                                   | 1.7                   |      | 15.5                    | 27.6 | 14.3                  |                 |                      | 41.6                            | 918          |
| TOTALS         | .0    | 14.5                    |                                   | 2.0                   | .0   | 16.1                    | 24.8 | 16.1                  | .1              |                      | 40.9                            | 7307         |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-87  
MONTH: ALL

| HOURLS<br>(LST) | TSTMS | RAIN<br>L/OR<br>DRIZZLE | FRZING<br>RAIN<br>L/OR<br>DRIZZLE | SNOW<br>L/OR<br>SLEET | MAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>L/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>L/OR<br>SAND | % OBS<br>W/OBST<br>TO<br>VISION | TOTAL<br>OBS |
|-----------------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| JAN ALL         | .0    | 12.8                    | .0                                | 5.3                   | .0   | 17.3                    | 25.4 | 14.5                  | .7              |                      | 40.7                            | 7410         |
| FEB             | .0    | 10.2                    | .1                                | 5.6                   | .0   | 15.2                    | 28.5 | 24.1                  | .1              | .0                   | 52.7                            | 6727         |
| MAR             | .0    | 15.4                    |                                   | 1.6                   | .0   | 16.5                    | 21.4 | 20.3                  |                 |                      | 41.7                            | 7405         |
| APR             | .2    | 12.2                    |                                   | .7                    | .0   | 12.5                    | 16.4 | 19.8                  |                 |                      | 36.2                            | 7200         |
| MAY             | .4    | 10.5                    |                                   | .0                    | .0   | 10.5                    | 18.7 | 21.6                  |                 |                      | 40.3                            | 7403         |
| JUN             | .8    | 10.6                    |                                   | .0                    | .0   | 10.6                    | 16.1 | 16.9                  |                 |                      | 33.6                            | 7191         |
| JUL             | .6    | 8.5                     |                                   |                       |      | 8.5                     | 17.5 | 20.7                  |                 |                      | 38.3                            | 7309         |
| AUG             | .5    | 8.0                     |                                   |                       | .0   | 8.0                     | 19.1 | 20.6                  |                 |                      | 39.7                            | 7439         |
| SEP             | .3    | 7.1                     |                                   |                       |      | 7.1                     | 20.1 | 21.0                  |                 |                      | 41.1                            | 7200         |
| OCT             | .2    | 12.0                    |                                   |                       |      | 12.0                    | 24.0 | 16.6                  |                 |                      | 40.6                            | 7440         |
| NOV             | .0    | 13.2                    |                                   | .7                    |      | 13.6                    | 26.8 | 15.4                  |                 |                      | 42.3                            | 7072         |
| DEC             | .0    | 14.5                    |                                   | 2.0                   | .0   | 16.1                    | 24.8 | 16.1                  | .1              |                      | 40.9                            | 7307         |
| TOTALS          | .3    | 11.3                    | .0                                | 1.3                   | .0   | 12.3                    | 21.6 | 19.0                  | .1              | .0                   | 40.6                            | 87103        |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87  
MONTH: ALL

| MONTH  | TSTMS | RAIN<br>L/OP<br>DRIZZLE | FWZING<br>RAIN<br>L/OP<br>DRIZZLE | SNOW<br>L/OP<br>SLEET | HAIL | % OPS<br>WITH<br>PRECIP | FOG  | SMOKE<br>L/OP<br>HAZE | BLOWING<br>SNOW | DUST<br>L/OP<br>SAND | % OPS<br>W/ OBST<br>TO<br>VISION | TOTAL<br>OBS |
|--------|-------|-------------------------|-----------------------------------|-----------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|----------------------------------|--------------|
| JAN    | .3    | 59.9                    | .4                                | 22.2                  | .3   | 69.8                    | 59.0 | 75.1                  | 1.5             |                      | 17.6                             | 1091         |
| FEB    | .6    | 50.8                    | .2                                | 24.4                  | .5   | 63.8                    | 58.8 | 79.9                  | 1.3             |                      | 18.5                             | 989          |
| MAR    | 1.7   | 57.6                    | .2                                | 13.7                  | 1.3  | 62.8                    | 55.1 | 80.6                  | .5              |                      | 17.1                             | 1082         |
| APR    | 2.6   | 60.8                    |                                   | 6.1                   | 1.7  | 61.6                    | 47.9 | 74.3                  |                 |                      | 79.8                             | 1056         |
| MAY    | 6.3   | 58.2                    |                                   | .9                    | 1.2  | 58.2                    | 46.0 | 76.2                  |                 |                      | 11.4                             | 1085         |
| JUN    | 8.7   | 53.6                    |                                   | .2                    | .7   | 53.6                    | 45.9 | 74.3                  |                 |                      | 79.9                             | 1045         |
| JUL    | 8.4   | 53.0                    |                                   |                       | .4   | 53.0                    | 46.0 | 73.2                  |                 |                      | 79.4                             | 1113         |
| AUG    | 8.0   | 54.9                    |                                   |                       | .4   | 54.9                    | 52.7 | 79.6                  |                 |                      | 14.7                             | 1076         |
| SEP    | 6.0   | 52.9                    |                                   | .1                    |      | 52.9                    | 55.5 | 77.1                  |                 |                      | 12.5                             | 1016         |
| OCT    | 2.4   | 55.6                    |                                   |                       | .2   | 55.6                    | 62.6 | 78.4                  |                 |                      | 17.9                             | 1049         |
| NOV    | 1.0   | 66.6                    |                                   | 5.4                   | .7   | 68.0                    | 58.6 | 75.8                  |                 |                      | 15.6                             | 1070         |
| DEC    | .4    | 64.0                    | .1                                | 9.3                   | .7   | 67.0                    | 62.5 | 74.1                  | .5              |                      | 17.6                             | 1077         |
| TOTALS | 3.9   | 57.3                    | .1                                | 6.9                   | .7   | 60.1                    | 54.2 | 76.5                  | .3              |                      | 14.3                             | 12745        |

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#### PRECIPITATION, SNOWFALL AND SNOW DEPTH SUMMARIES

##### PERCENTAGE FREQUENCY OF VARIOUS DAILY AMOUNTS OF PRECIPITATION (SNOWFALL AND SNOW DEPTH) SUMMARIES:

THESE SUMMARIES DERIVE FROM SUMMARY OF DAY DATA.

DATA IS SUMMARIZED MONTHLY AND ANNUALLY WITH ALL YEARS COMBINED.

DISPLAYED ARE: PERCENT OF DAYS WITH MEASURABLE AMOUNTS, A PERCENT OF DAYS WITH NO AMOUNTS, TRACES, GIVEN AMOUNTS, MEANS, GREATEST AMOUNTS AND LEAST AMOUNTS (THE STATISTICAL VALUES ARE NOT INCLUDED IN THE SNOW DEPTH SUMMARY BECAUSE OF THEIR COLUPTFUL AND LIMITED VALUE).

ALSO PROVIDED ARE THE OBSERVATION COUNTS.

A VALUE OF ".0" IN THESE TABLES INDICATES LESS THAN .05% WHICH USUALLY INDICATES ONLY ONE OCCURRENCE.

##### EXTREME DAILY AMOUNTS OF PRECIPITATION (SNOWFALL AND SNOW DEPTH) SUMMARIES

DATA DERIVED FROM SUMMARY OF DAY DATA

PRESENTED ARE THE EXTREME DAILY AMOUNTS OF PRECIPITATION, SNOWFALL AND SNOW DEPTH BY INDIVIDUAL MONTH AND YEAR.

ALSO PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATIONS COUNTS.

AN ASTERISK "\*" PRINTED IN THE TABLES INDICATES THAT THE EXTREME VALUE FOR THAT YEAR AND MONTH DERIVES FROM AN INCOMPLETE MONTH (AT LEAST ONE DAY OF THE MONTH IS MISSING).

WHEN A MONTH HAS VALID OBSERVATIONS REPORTED BUT NO OCCURRENCES, ZEROS ARE DISPLAYED IN THE TABLES:

EXTREME DAILY PRECIPITATION: ".00" EQUALS NONE FOR THE MONTH (HUNDREDS)

EXTREME DAILY SNOWFALL: ".0" EQUALS NONE FOR THE MONTH (TENTHS)

EXTREME DAILY SNOW DEPTH: "0" EQUALS NONE FOR THE MONTH (WHOLE INCHES)

##### TOTAL MONTHLY AMOUNTS OF PRECIPITATION AND SNOWFALL SUMMARIES

DATA DERIVED FROM SUMMARY OF DAY DATA.

DATA PRESENTED BY YEAR AND MONTH.

ALSO PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

AN ASTERISK "\*" IN THE TABLES INDICATES THAT ONE OR MORE DAYS WERE MISSING FOR THE MONTH.

NO OCCURRENCES FOR THE MONTH ARE INDICATED BY ZEROS.

IF THE AMOUNT IS A TRACE, THEN "TRACE" IS PRINTED IN THE TABLES.

STATISTICAL VALUES DO NOT INCLUDE MEASUREMENTS FROM INCOMPLETE MONTHS.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF PRECIPITATION  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

AMOUNTS IN INCHES

| MONTH | NONE | TRACE | .01 | .02  | .06 | .11  | .26 | .51  | 1.01 | 2.51 | 5.01  | 10.01 | OVER  | % DAYS<br>WITH<br>MEAS<br>AMTS | TOTAL<br>OBS | MONTHLY AMOUNTS |          |       |
|-------|------|-------|-----|------|-----|------|-----|------|------|------|-------|-------|-------|--------------------------------|--------------|-----------------|----------|-------|
|       |      |       |     | .05  | .10 | .25  | .50 | 1.00 | 2.50 | 5.00 | 10.00 | 20.00 | 20.00 |                                |              | MEAN            | GREATEST | LEAST |
| JAN   | 30.2 | 19.6  | 5.7 | 13.6 | 9.8 | 11.8 | 7.5 | 1.8  |      |      |       |       |       | 50.2                           | 1092         | 2.23            | 4.03     | .36   |
| FEB   | 36.3 | 19.6  | 6.0 | 12.6 | 9.2 | 12.2 | 4.1 | 1.1  |      |      |       |       |       | 44.1                           | 986          | 1.45            | 3.51     | .17   |
| MAR   | 37.1 | 17.9  | 5.4 | 12.8 | 7.7 | 12.7 | 5.0 | 1.4  | .1   |      |       |       |       | 45.0                           | 1082         | 1.76            | 3.69     | .25   |
| APR   | 38.1 | 20.3  | 5.6 | 11.5 | 8.1 | 10.8 | 4.0 | 1.5  | .1   |      |       |       |       | 41.6                           | 1050         | 1.63            | 5.00     | .23   |
| MAY   | 41.7 | 19.8  | 4.7 | 9.2  | 7.6 | 10.7 | 4.0 | 1.8  | .5   |      |       |       |       | 38.5                           | 1084         | 1.90            | 4.02     | .29   |
| JUN   | 46.4 | 18.7  | 3.6 | 8.2  | 5.6 | 9.1  | 5.8 | 2.2  | .3   |      |       |       |       | 34.9                           | 1045         | 1.87            | 5.13     | .14   |
| JUL   | 46.9 | 19.9  | 3.3 | 9.4  | 5.5 | 6.3  | 6.0 | 1.9  | .7   |      |       |       |       | 33.2                           | 1113         | 1.01            | 4.54     | .15   |
| AUG   | 44.6 | 18.4  | 4.5 | 8.9  | 5.2 | 8.5  | 6.4 | 2.7  | .8   |      |       |       |       | 37.0                           | 1055         | 1.29            | 4.93     | .47   |
| SEP   | 47.2 | 16.9  | 3.6 | 9.3  | 6.0 | 8.2  | 5.9 | 1.7  | 1.2  |      |       |       |       | 35.8                           | 1016         | 1.13            | 5.78     | .07   |
| OCT   | 44.3 | 13.7  | 4.4 | 12.5 | 6.5 | 8.8  | 6.1 | 3.0  | .8   |      |       |       |       | 41.9                           | 1049         | 1.51            | 6.11     | .20   |
| NOV   | 31.3 | 16.6  | 5.2 | 13.4 | 9.0 | 14.0 | 7.1 | 3.3  | .6   |      |       |       |       | 51.6                           | 1078         | 2.66            | 5.79     | .42   |
| DEC   | 32.9 | 17.9  | 5.4 | 13.6 | 8.5 | 11.9 | 7.3 | 2.2  | .3   | .1   |       |       |       | 49.2                           | 1083         | 2.34            | 5.54     | .85   |
| YR    | 39.8 | 18.3  | 4.3 | 11.2 | 7.2 | 10.4 | 5.8 | 2.0  | .4   | .0   |       |       |       | 41.9                           | 12733        | 24.68           |          |       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-77

| YEAR | 24 HOUR AMOUNTS IN INCHES |      |      |     |      |      |      |      |       |       |      |      | ALL MONTHS |
|------|---------------------------|------|------|-----|------|------|------|------|-------|-------|------|------|------------|
|      | JAN                       | FEB  | MAR  | APR | MAY  | JUN  | JUL  | AUG  | SEP   | OCT   | NOV  | DEC  |            |
| 51   |                           |      |      |     |      | *.50 | 1.21 | .49  | .57   | .15   | .61  | .49  |            |
| 52   | .48                       | .20  | .48  | .09 | .40  | .37  | .40  | 1.15 | .80   | .53   | .97  | .40  | 1.15       |
| 53   | .54                       | .48  | .12  | .20 | .55  | .41  | .66  | .30  | .36   | .63   | .37  | .28  | .66        |
| 54   | .36                       | .31  | .71  | .17 | .38  | .58  | .44  | .97  | .36   | .41   | .90  | .60  | .57        |
| 55   | .65                       | .48  | .45  | .11 | .64  | 1.06 | .09  | 1.18 | .42   | 2.16  | .21  | .45  | 2.16       |
| 56   | .77                       | .42  | .18  | .43 | .48  | .37  | 1.64 | .69  | .46   | .45   | .29  | .42  | 1.64       |
| 57   | *.11                      |      |      |     |      |      |      |      |       |       |      |      |            |
| 58   | *.15                      | .59  | .25  | .37 | 1.50 | .63  | .52  | *.20 |       |       | .46  | 1.18 |            |
| 59   | .50                       | .17  | .32  | .23 | .19  | .19  | .84  | .74  | .07   | .41   | .48  | .62  | .64        |
| 60   | .49                       | .49  | .73  | .20 | .25  | .84  | .63  | .48  | .83   | 1.86  | .68  | .40  | 1.86       |
| 61   | .61                       | .56  | .19  | .34 | 1.01 | .34  | .40  | .53  | .78   | .85   | .32  | .72  | 1.01       |
| 62   | .37                       | .19  | .28  | .21 | .37  | .12  | 1.41 | .45  | .47   | .82   | .60  | .53  | 1.41       |
| 63   | .37                       | .15  | .56  | .75 | .52  | .49  | .61  | .43  | .45   | .41   | .66  | .32  | .75        |
| 64   | .23                       | .34  | 1.10 | .70 | .34  | .88  | .41  | .40  | .17   | .64   | .46  | .37  | 1.10       |
| 65   | .50                       | .20  | .81  | .66 | .18  | .56  | .94  | *.40 | 2.21  | .20   | .71  | .93  | 2.21       |
| 66   | .23                       | .43  | .32  | .68 | .36  | .65  | .98  | .79  | .31   | .72   | .87  | .39  | .98        |
| 67   | .29                       | .30  | .35  | .73 | *.58 | .56  | .45  | .95  | .44   | .42   | 1.49 | .20  | 1.49       |
| 68   | .30                       | .40  | .32  | .19 | 1.07 | .41  | .65  | .47  | 1.28  | .52   | .26  | .25  | 1.28       |
| 69   | .35                       | .58  | .68  | .18 | 1.20 | .55  | 2.00 | 1.13 | .04   | .07   | .68  | .51  | 2.00       |
| 70   | .71                       | .40  | .24  | .41 | .12  | .20  | .45  | .36  | 1.20  | .10   | 1.38 | .40  | 1.38       |
| 71   | .67                       | .30  | .35  | .34 | .15  | 1.18 | 1.71 | .58  | .45   | .73   | .69  | .26  | 1.71       |
| 72   | .60                       | .25  | .47  | .45 | .30  | .49  | .46  | .40  | 2.32  | .10   | .84  | .44  | 2.32       |
| 73   | .31                       | .29  | .17  | .71 | .45  | .47  | .55  | .48  | *1.55 | *1.01 | .37  | .31  | *1.55      |
| 74   | .22                       | .30  | .76  | .25 | .22  | .37  | .54  | .86  | 1.46  | .69   | 1.07 | .35  | 1.46       |
| 75   | .73                       | .16  | .39  | .35 | .80  | .27  | .22  |      |       |       | 1.02 | .51  |            |
| 76   | .43                       | .41  | .12  | .21 | .77  | .26  | 1.47 | .72  | 1.78  | .72   | .81  | .70  | 1.78       |
| 77   | .42                       | .53  | *.32 | .19 | .30  | .59  | .30  | .84  | .22   | *.23  | .77  | .78  | .84        |
| 78   | .41                       | .55  | .67  | .85 | .58  | .77  | .45  | .36  | .54   | .13   | .22  | 1.16 | 1.16       |
| 79   | .50                       | *.99 | .41  | .34 | .60  | .41  | .64  | 1.32 | .46   | .90   | .57  | .81  | 1.32       |
| 80   | .68                       | .37  | .50  | .79 | .28  | .71  | .54  | .38  | .62   | 1.41  | .40  | .57  | 1.41       |

NOTE \* BASED ON LESS THAN FULL MONTHS

CONTINUED ON NEXT PAGE....

GLOBAL CLIMATOLOGY PHANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-YR

| YEAR      | 24 HOUR AMOUNTS IN INCHES |      |      |      |      |      |       |      |      |      |      |       | ALL MONTHS |
|-----------|---------------------------|------|------|------|------|------|-------|------|------|------|------|-------|------------|
|           | JAN                       | FEB  | MAR  | APR  | MAY  | JUN  | JUL   | AUG  | SEP  | OCT  | NOV  | DEC   |            |
| 81        | .36                       | .64  | *.63 | 1.52 | .54  |      | .58   | .28  | .69  | .73  | .55  | .66   |            |
| 82        | .30                       | .40  | .40  | .20  | .64  | .64  | *.07  | .68  | .42  | .89  | .42  | 1.69  | 1.69       |
| 83        | *.45                      | .41  | .23  | .90  | 1.30 | .34  | .42   | .46  | .44  | .65  | .76  | .39   | 1.30       |
| 84        | .41                       | .94  | .69  | .47  | .69  | .23  | .57   | .89  | 1.73 | 2.41 | *.85 | .42   | 2.41       |
| 85        | .92                       | .17  | *.40 | .85  | .83  | 1.29 | .98   | .47  | .17  | .21  | .34  | *2.97 | *2.97      |
| 86        | *.35                      | .50  | .64  | .73  | .40  | .41  | *1.67 | 1.35 | .67  | 1.24 | .44  | .54   | *1.67      |
| 87        | .70                       | .24  | .47  | .32  | .34  | .79  | .78   | 1.11 | .63  | 2.18 | 1.03 |       |            |
| MEAN      | .479                      | .390 | .449 | .460 | .551 | .548 | .739  | .688 | .722 | .766 | .641 | .561  | 1.352      |
| S.E.      | .181                      | .170 | .233 | .309 | .342 | .281 | .466  | .314 | .485 | .619 | .310 | .308  | .473       |
| TOTAL CUS | 1092                      | 986  | 1082 | 1050 | 1084 | 1045 | 1113  | 1055 | 1016 | 1049 | 1078 | 1083  | 12733      |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

MONTHLY PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| TOTAL MONTHLY PRECIPITATION IN INCHES |               |       |       |      |       |       |      |       |       |       |      |      |            |
|---------------------------------------|---------------|-------|-------|------|-------|-------|------|-------|-------|-------|------|------|------------|
| YEAR                                  | -M-O-N-T-H-S- |       |       |      |       |       |      |       |       |       |      |      |            |
|                                       | JAN           | FEB   | MAR   | APR  | MAY   | JUN   | JUL  | AUG   | SEP   | OCT   | NOV  | DEC  | ALL MONTHS |
| 51                                    |               |       |       |      |       | *1.01 | 1.80 | 2.47  | 1.71  | .31   | 4.02 | 1.57 |            |
| 52                                    | 2.31          | .64   | 2.45  | .54  | 1.56  | 1.10  | 1.30 | 2.38  | 3.59  | 1.34  | 3.89 | 2.17 | 22.57      |
| 53                                    | .96           | 1.54  | .25   | .86  | 1.54  | 1.34  | 2.72 | 1.53  | 1.80  | 1.91  | .98  | .85  | 16.72      |
| 54                                    | 1.87          | 2.09  | 1.96  | .35  | .98   | 1.74  | 1.44 | 4.93  | 1.35  | 1.50  | 4.31 | 2.35 | 24.67      |
| 55                                    | 2.24          | 2.06  | 1.72  | .23  | 2.04  | 2.68  | .15  | 4.05  | 1.12  | 3.34  | .42  | 1.53 | 21.76      |
| 56                                    | 5.98          | 2.07  | .69   | .68  | .72   | 1.69  | 2.64 | 3.88  | 1.79  | 2.02  | .89  | 1.97 | 23.42      |
| 57                                    | *.62          |       |       |      |       |       |      |       |       |       |      |      |            |
| 58                                    | *.36          | 2.30  | 1.10  | .80  | 2.54  | 3.47  | 1.92 | *.58  |       |       | 1.01 | 4.13 |            |
| 59                                    | 1.80          | .17   | 1.24  | 1.35 | .29   | .49   | 1.87 | 1.89  | .07   | 1.46  | 2.59 | 3.75 | 16.57      |
| 60                                    | 3.73          | 1.25  | 1.96  | .65  | .78   | 1.91  | 2.20 | 2.28  | 2.56  | 6.35  | 3.30 | 3.33 | 30.30      |
| 61                                    | 3.05          | 1.67  | .39   | 1.54 | 1.45  | 1.21  | .07  | 1.75  | 2.87  | 3.52  | 1.64 | 3.28 | 23.24      |
| 62                                    | 1.87          | .78   | 1.22  | .96  | 1.66  | .14   | 2.70 | 1.16  | 1.89  | 1.23  | 2.46 | 1.50 | 17.57      |
| 63                                    | .82           | .42   | 2.77  | 2.72 | 2.14  | 1.77  | 1.23 | 2.74  | 1.19  | 1.78  | 3.37 | .85  | 21.10      |
| 64                                    | .43           | 1.14  | 3.67  | 2.64 | 1.10  | 3.78  | 1.39 | .93   | .31   | 2.10  | 1.03 | 2.02 | 20.49      |
| 65                                    | 1.85          | .63   | 2.46  | 3.21 | 1.24  | 2.04  | 4.52 | *1.63 | 5.15  | .53   | 2.70 | 4.06 | *30.12     |
| 66                                    | 1.37          | 2.27  | .80   | 2.83 | 1.72  | 2.57  | 3.53 | 3.43  | .49   | 3.22  | 3.12 | 2.63 | 27.58      |
| 67                                    | 1.11          | 1.23  | .76   | 1.95 | *2.31 | 1.17  | 1.18 | 2.67  | 2.19  | 2.35  | 2.45 | 1.11 | *20.48     |
| 68                                    | 1.16          | 2.14  | 1.01  | .75  | 1.81  | 1.67  | 2.08 | 1.98  | 4.59  | 1.87  | 1.17 | 1.38 | 21.41      |
| 69                                    | 1.69          | 1.93  | 2.54  | 1.21 | 4.02  | 1.68  | 4.54 | 2.83  | .07   | .20   | 4.80 | 2.83 | 28.54      |
| 70                                    | 3.55          | 2.41  | 1.67  | 2.62 | .47   | .49   | 1.34 | .78   | 2.47  | 1.19  | 5.79 | 2.50 | 25.16      |
| 71                                    | 3.27          | 1.05  | 1.60  | .62  | 1.01  | 3.38  | 3.28 | 2.08  | 1.13  | 2.70  | 5.20 | 1.11 | 26.63      |
| 72                                    | 2.96          | 1.15  | 1.76  | 2.34 | 1.45  | 1.61  | 1.69 | .47   | 4.08  | .35   | 2.50 | 1.59 | 22.16      |
| 73                                    | 1.13          | 1.12  | .65   | 2.79 | 2.47  | 1.09  | 2.23 | 1.38  | *3.23 | *2.40 | 1.46 | 1.64 | *21.59     |
| 74                                    | 1.79          | 2.05  | 1.44  | .44  | .65   | 1.37  | 2.13 | 3.22  | 5.78  | 4.21  | 5.35 | 1.29 | 29.71      |
| 75                                    | 4.03          | .70   | 2.99  | 1.73 | 2.32  | .94   | 1.10 |       |       |       | 3.30 | 1.40 |            |
| 76                                    | 1.74          | 1.17  | .45   | .48  | 1.43  | .40   | 2.31 | 1.94  | 5.70  | 3.57  | 3.06 | 1.64 | 23.89      |
| 77                                    | 2.75          | 3.06  | *2.17 | 1.30 | 1.58  | 1.31  | .42  | 2.82  | .41   | *.89  | 2.91 | 2.66 | *22.48     |
| 78                                    | 2.70          | 1.42  | 2.71  | 1.89 | 1.51  | 2.66  | 1.72 | 1.49  | 1.21  | .44   | .92  | 5.54 | 24.21      |
| 79                                    | 2.95          | *3.51 | 2.65  | 1.77 | 2.75  | 1.40  | 1.23 | 3.44  | 1.04  | 1.06  | 2.33 | 3.79 | *28.42     |
| 80                                    | 1.81          | 2.34  | 2.62  | 1.57 | .56   | 3.98  | 2.37 | 1.17  | 1.16  | 4.69  | 2.18 | 3.07 | 27.76      |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

CONTINUED ON NEXT PAGE....

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

MONTHLY PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| TOTAL MONTHLY PRECIPITATION IN INCHES |       |       |       |       |       |       |       |       |       |       |       |       |            |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|
| YEAR                                  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ALL MONTHS |
| 81                                    | 2.36  | 1.83  | *3.69 | 2.82  | 3.43  |       | 1.49  | .70   | 3.24  | 2.57  | 1.90  | 2.65  |            |
| 82                                    | 1.32  | .97   | 1.93  | .52   | 1.74  | 2.39  | *.37  | 2.12  | 1.20  | 5.44  | 2.50  | 2.98  | *23.47     |
| 83                                    | *1.90 | 1.44  | 1.48  | 5.00  | 3.66  | .94   | .90   | 1.09  | 2.51  | 1.74  | 1.86  | 1.68  | *24.20     |
| 84                                    | 2.89  | 2.09  | 2.47  | .80   | 2.84  | 1.21  | 2.10  | 1.30  | 3.81  | 4.50  | *2.71 | 2.33  | *29.65     |
| 85                                    | 3.72  | .40   | *2.04 | 2.35  | 2.79  | 5.13  | 2.55  | 3.42  | .51   | .50   | 1.99  | *5.01 | *30.41     |
| 86                                    | *3.65 | .88   | 2.79  | 3.13  | 2.94  | 1.00  | *3.06 | 4.01  | 1.50  | 3.23  | 3.02  | 2.39  | *31.64     |
| 87                                    | 2.05  | .73   | 1.60  | 1.38  | 1.88  | 3.50  | 3.44  | 3.15  | 1.72  | 9.11  | 2.19  |       |            |
| MEAN                                  | 2.234 | 1.445 | 1.756 | 1.629 | 1.798 | 1.867 | 2.708 | 2.287 | 2.128 | 2.507 | 2.663 | 2.340 | 23.661     |
| S.D.                                  | .979  | .705  | .883  | 1.080 | .932  | 1.153 | 1.026 | 1.114 | 1.588 | 1.856 | 1.353 | 1.679 | 3.958      |
| TOTAL OBS                             | 1092  | 986   | 1082  | 1050  | 1084  | 1045  | 1113  | 1055  | 1016  | 1049  | 1078  | 1183  | 12733      |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| AMOUNTS IN INCHES |       |       |           |           |           |           |           |           |            |            |            |            |      |                                |              |                 |       |    |
|-------------------|-------|-------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------|--------------------------------|--------------|-----------------|-------|----|
| MONTH             | NONE  | TRACE | 0.1       | 0.5       | 1.5       | 2.5       | 3.5       | 4.5       | 6.5        | 10.5       | 15.5       | 25.5       | OVER | % DAYS<br>WITH<br>MEAS<br>AMTS | TOTAL<br>OBS | MONTHLY AMOUNTS |       |    |
|                   |       |       | TO<br>0.4 | TO<br>1.4 | TO<br>2.4 | TO<br>3.4 | TO<br>4.4 | TO<br>6.4 | TO<br>10.4 | TO<br>15.4 | TO<br>25.4 | TO<br>50.4 | 50.4 | MEAN                           | GREATEST     | LEAST           |       |    |
| JAN               | 78.0  | 13.4  | 2.7       | 3.2       | 1.3       | .6        | .3        | .3        | .3         |            |            |            |      | 8.6                            | 1093         | 4.1             | 26.8  | .0 |
| FEB               | 75.5  | 15.6  | 3.0       | 4.0       | 1.1       | .4        | .2        | .2        |            |            |            |            |      | 8.9                            | 986          | 2.5             | 21.4  | .0 |
| MAR               | 86.0  | 9.6   | 2.0       | 1.8       | .4        | .1        | .1        |           |            |            |            |            |      | 4.3                            | 1082         | 1.1             | 0.1   | .0 |
| APR               | 93.0  | 6.0   | .6        | .4        | .1        |           |           |           |            |            |            |            |      | 1.0                            | 1050         | .2              | 2.9   | .0 |
| MAY               | 99.2  | .8    |           |           |           |           |           |           |            |            |            |            |      |                                | 1085         | TRACE           | TRACE | .0 |
| JUN               | 99.8  | .2    |           |           |           |           |           |           |            |            |            |            |      |                                | 1045         | TRACE           | TRACE | .0 |
| JUL               | 100.0 |       |           |           |           |           |           |           |            |            |            |            |      |                                | 1116         | .0              | .0    | .0 |
| AUG               | 100.0 |       |           |           |           |           |           |           |            |            |            |            |      |                                | 1071         | .0              | .0    | .0 |
| SEP               | 99.9  | .1    |           |           |           |           |           |           |            |            |            |            |      |                                | 1016         | TRACE           | TRACE | .0 |
| OCT               | 100.0 |       |           |           |           |           |           |           |            |            |            |            |      |                                | 1049         | .0              | .0    | .0 |
| NOV               | 95.0  | 3.6   | .4        | .5        | .3        | .2        | .1        |           |            |            |            |            |      | 1.4                            | 1078         | .5              | 7.7   | .0 |
| DEC               | 90.6  | 5.4   | 1.2       | 1.7       | .5        | .4        | .2        | .1        |            |            |            |            |      | 4.0                            | 1093         | 1.5             | 14.3  | .0 |
| ANN               | 93.1  | 4.6   | .8        | 1.0       | .3        | .1        | .1        | .0        | .0         |            |            |            |      | 2.3                            | 12754        | 5.9             |       |    |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF SNOWFALL  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| YEAR | 24 HOUR AMOUNTS IN INCHES |       |       |       |       |               |     |     |       |     |       |       | ALL MONTHS |
|------|---------------------------|-------|-------|-------|-------|---------------|-----|-----|-------|-----|-------|-------|------------|
|      | JAN                       | FEB   | MAR   | APR   | MAY   | -M-O-N-T-H-S- |     | AUG | SEP   | OCT | NOV   | DEC   |            |
| 51   |                           |       |       |       |       | JUN           | JUL |     |       |     |       |       |            |
| 52   | .5                        | 2.2   | 2.0   | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | TRACE | .2    | 2.2        |
| 53   | 5.4                       | 1.3   | .0    | .0    | .0    | .0            | .0  | .0  | .0    | .0  | .7    | .0    | 5.4        |
| 54   | 2.7                       | 1.7   | 2.0   | .0    | .0    | .0            | .0  | .0  | TRACE | .0  | .0    | .0    | 2.7        |
| 55   | 3.4                       | 1.3   | 2.4   | .0    | TRACE | .0            | .0  | .0  | .0    | .0  | .0    | .0    | 3.4        |
| 56   | 6.0                       | 4.6   | .2    | .2    | .0    | .7            | .0  | .0  | .0    | .0  | .2    | 2.2   | 6.0        |
| 57   | .0                        |       |       |       |       |               |     |     |       |     |       |       |            |
| 58   | *1.5                      | 2.5   | 4.0   | TRACE | .0    | .0            | .0  | *.0 |       |     | .0    | TRACE |            |
| 59   | .5                        | .0    | .0    | .0    | .0    | .0            | .0  | .0  | .0    | .0  | .0    | .0    | .5         |
| 60   | 4.3                       | TRACE | TRACE | .0    | .0    | .0            | .0  | .0  | .0    | .0  | .0    | TRACE | 4.3        |
| 61   | TRACE                     | .0    | TRACE | .0    | .0    | .0            | .0  | .0  | .0    | .0  | TRACE | 2.2   | 3.2        |
| 62   | .4                        | 1.4   | .3    | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | TRACE | 2.5   | 2.5        |
| 63   | 2.1                       | 1.9   | TRACE | TRACE | .0    | .0            | .0  | .0  | .7    | .0  | .0    | .5    | 2.1        |
| 64   | .7                        | TRACE | .5    | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | .0    | 1.7   | 1.7        |
| 65   | 1.1                       | 2.0   | .5    | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | .5    | .0    | 2.0        |
| 66   | 3.1                       | TRACE | 1.2   | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | TRACE | TRACE | 3.1        |
| 67   | .4                        | .0    | .0    | .0    | TRACE | .0            | .0  | .0  | .0    | .0  | .0    | .8    | .8         |
| 68   | 1.4                       | .6    | .2    | .9    | TRACE | .0            | .0  | .0  | .0    | .0  | TRACE | 2.0   | 2.0        |
| 69   | TRACE                     | 2.5   | TRACE | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | 3.9   | 2.7   | 3.9        |
| 70   | .6                        | 3.6   | 1.5   | .4    | .7    | .0            | .0  | .0  | .0    | .0  | .0    | 2.5   | 3.6        |
| 71   | .3                        | .1    | 1.0   | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | 1.6   | 1.1   | 1.6        |
| 72   | 1.5                       | TRACE | .7    | .0    | .0    | .0            | .0  | .0  | .0    | .0  | TRACE | .0    | 1.5        |
| 73   | TRACE                     | 1.3   | TRACE | TRACE | .0    | .3            | .0  | .0  | *.0   | *.0 | 1.2   | 1.0   | 1.3        |
| 74   | .0                        | TRACE | TRACE | .0    | .0    | .0            | .0  | .0  | .0    | .0  | .0    | .7    | .7         |
| 75   | TRACE                     | .0    | 1.0   | 1.9   | .0    | TRACE         | .0  |     |       |     | TRACE | TRACE |            |
| 76   | 1.8                       | TRACE | .1    | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | .0    | TRACE | 1.8        |
| 77   | 1.8                       | TRACE | *.9   | 1.1   | .0    | .0            | .0  | .0  | .0    | *.0 | TRACE | .0    | 1.8        |
| 78   | TRACE                     | .1    | TRACE | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | 3.0   | 4.0   | 4.0        |
| 79   | 4.0                       | *5.4  | 1.0   | TRACE | TRACE | TRACE         | .0  | .0  | .0    | .0  | .7    | 2.0   | *5.4       |
| 80   | TRACE                     | .0    | TRACE | TRACE | .0    | .0            | .0  | .0  | .0    | .0  | 1.5   | .2    | 1.5        |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

CONTINUED ON NEXT PAGE....



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF SNOWFALL  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| YEAR      | 24 HOUR AMOUNTS IN INCHES |       |       |       |       |               |      |      |       |      |       |       | ALL MONTHS |
|-----------|---------------------------|-------|-------|-------|-------|---------------|------|------|-------|------|-------|-------|------------|
|           | JAN                       | FEB   | MAR   | APR   | MAY   | -M-O-N-T-H-S- |      | AUG  | SEP   | OCT  | NOV   | DEC   |            |
| 81        | 2.1                       | 2.0   | 0.1   | TRACE | TRACE |               |      | .0   | .0    | .0   | TRACE | .0    |            |
| 82        | 2.5                       | TRACE | TRACE | TRACE | TRACE | .0            | .0   | .0   | .0    | .0   | TRACE | .0    | 2.5        |
| 83        | *TRACE                    | 1.4   | TRACE | TRACE | .0    | .0            | .0   | .0   | .0    | .0   | .0    | .0    | 1.4        |
| 84        | 3.0                       | TRACE | TRACE | TRACE | .0    | .0            | .0   | .0   | .0    | .0   | .0    | .0    | 3.0        |
| 85        | 8.1                       | 2.0   | 0.5   | TRACE | .0    | .0            | .0   | .0   | .0    | .0   | .0    | .0    | 8.1        |
| 86        | *TRACE                    | 1.5   | 3.0   | .5    | .0    | .0            | .0   | .0   | .0    | .0   | .0    | TRACE | 3.0        |
| 87        | 3.1                       | .3    | TRACE | .0    | .0    | .0            | .0   | .0   | .0    | .0   | .0    | .0    |            |
| MLAN      | 2.08                      | 1.04  | .68   | .14   | TRACE | TRACE         | .00  | .00  | TRACE | .00  | .35   | .98   | 2.03       |
| S.C.      | 2.302                     | 1.231 | 1.017 | .397  | .000  | .000          | .000 | .000 | .000  | .000 | .885  | 1.391 | 1.406      |
| TOTAL CBS | 1093                      | 986   | 1082  | 1050  | 1085  | 1045          | 1116 | 1071 | 1016  | 1049 | 1078  | 1183  | 12754      |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/M'C

MONTHLY SNOWFALL  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035767 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-P7

| TOTAL MONTHLY SNOWFALL IN INCHES |               |       |       |       |       |       |     |     |       |     |       |       |        |
|----------------------------------|---------------|-------|-------|-------|-------|-------|-----|-----|-------|-----|-------|-------|--------|
|                                  | -M-O-N-T-H-S- |       |       |       |       |       |     |     |       |     |       |       | ALL    |
| YEAR                             | JAN           | FEB   | MAR   | APR   | MAY   | JUN   | JUL | AUG | SEP   | OCT | NOV   | DEC   | MONTHS |
| 51                               |               |       |       |       |       | *.0   | .0  | .0  | .0    | .0  | .0    | .0    |        |
| 52                               | 1.5           | 2.2   | 2.3   | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | TRACE | .2    | 6.2    |
| 53                               | 5.8           | 3.3   | .0    | .0    | .0    | .0    | .0  | .0  | .0    | .0  | .0    | .0    | 5.1    |
| 54                               | 7.1           | 3.2   | 3.2   | .0    | .0    | .0    | .0  | .0  | TRACE | .0  | .0    | .0    | 13.5   |
| 55                               | 6.5           | 4.7   | 5.9   | .0    | TRACE | .0    | .0  | .0  | .0    | .0  | .0    | .0    | 17.1   |
| 56                               | 9.4           | 21.4  | .2    | .2    | .0    | .0    | .0  | .0  | .0    | .0  | .2    | 2.2   | 32.6   |
| 57                               | *.0           |       |       |       |       |       |     |     |       |     |       |       |        |
| 58                               | *5.0          | 5.0   | 6.1   | TRACE | .0    | .0    | .0  | *.0 |       |     | .0    | TRACE |        |
| 59                               | .6            | .0    | .0    | .0    | .0    | .0    | .0  | .0  | .0    | .0  | .0    | .0    | .6     |
| 60                               | 10.8          | TRACE | TRACE | .0    | .0    | .0    | .0  | .0  | .0    | .0  | .0    | TRACE | 10.8   |
| 61                               | TRACE         | .0    | TRACE | .0    | .0    | .0    | .0  | .0  | .0    | .0  | TRACE | 3.2   | 3.2    |
| 62                               | .4            | 3.6   | .5    | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | TRACE | 4.3   | 8.8    |
| 63                               | 3.9           | 3.2   | TRACE | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | .0    | .5    | 7.1    |
| 64                               | .7            | TRACE | .8    | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | .0    | 1.7   | 3.2    |
| 65                               | 2.4           | 2.0   | .7    | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | .5    | .0    | 5.6    |
| 66                               | 6.2           | TRACE | 1.5   | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | TRACE | TRACE | 7.7    |
| 67                               | .9            | .0    | .0    | .0    | TRACE | .0    | .0  | .0  | .0    | .0  | .0    | 1.2   | 2.0    |
| 68                               | 2.5           | .9    | .2    | 1.2   | TRACE | .0    | .0  | .0  | .0    | .0  | TRACE | 3.5   | 8.3    |
| 69                               | TRACE         | 12.0  | TRACE | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | 7.7   | 3.7   | 23.4   |
| 70                               | .9            | 7.1   | 3.8   | .6    | .0    | .0    | .0  | .0  | .0    | .0  | .0    | 5.8   | 16.2   |
| 71                               | .3            | .2    | 2.0   | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | 2.1   | 1.8   | 6.4    |
| 72                               | 2.6           | TRACE | .8    | .0    | .0    | .0    | .0  | .0  | .0    | .0  | TRACE | .0    | 3.4    |
| 73                               | TRACE         | 3.0   | TRACE | TRACE | .0    | .0    | .0  | .0  | *.0   | *.0 | 1.3   | 1.5   | *5.8   |
| 74                               | .0            | TRACE | TRACE | .0    | .0    | .0    | .0  | .0  | .0    | .0  | .0    | .7    | .7     |
| 75                               | TRACE         | .0    | 1.6   | 2.9   | .0    | TRACE | .0  |     |       |     | TRACE | TRACE |        |
| 76                               | 7.0           | TRACE | .1    | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | .0    | TRACE | 3.1    |
| 77                               | 3.3           | TRACE | *.9   | 1.5   | .0    | .0    | .0  | .0  | .0    | *.0 | TRACE | .0    | *5.7   |
| 78                               | TRACE         | .3    | TRACE | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | 5.0   | 4.0   | 9.3    |
| 79                               | 11.3          | *6.0  | 1.0   | TRACE | TRACE | TRACE | .0  | .0  | .0    | .0  | .0    | 2.0   | *26.3  |
| 80                               | TRACE         | .0    | TRACE | TRACE | .0    | .0    | .0  | .0  | .0    | .0  | 1.8   | .2    | 2.0    |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

CONTINUED ON NEXT PAGE....

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

MONTHLY SNOWFALL  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-57

| TOTAL MONTHLY SNOWFALL IN INCHES |        |       |       |       |       |       |      |      |       |      |       |        |            |
|----------------------------------|--------|-------|-------|-------|-------|-------|------|------|-------|------|-------|--------|------------|
| YEAR                             | JAN    | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP   | OCT  | NOV   | DEC    | ALL MONTHS |
| 81                               | 3.0    | 2.4   | *.1   | TRACE | TRACE |       | .0   | .0   | .0    | .0   | TRACE | 14.3   |            |
| 82                               | 2.6    | TRACE | TRACE | TRACE | TRACE | .0    | .0   | .0   | .0    | .0   | TRACE | .0     | 2.6        |
| 83                               | *TRACE | 1.9   | TRACE | TRACE | .0    | .0    | .0   | .0   | .0    | .0   | .0    | .0     | *1.9       |
| 84                               | 7.2    | TRACE | TRACE | TRACE | .0    | .0    | .0   | .0   | .0    | .0   | *.0   | .0     | *7.2       |
| 85                               | 26.8   | 3.0   | *.5   | TRACE | .0    | .0    | .0   | .0   | .0    | .0   | .2    | *TRACE | *36.5      |
| 86                               | *TRACE | 3.4   | 3.1   | .5    | .0    | .0    | .0   | .0   | .0    | .0   | .0    | TRACE  | *7.0       |
| 87                               | 13.1   | .5    | TRACE | .0    | .0    | .0    | .0   | .0   | .0    | .0   | .0    |        |            |
| MEAN                             | 4.10   | 2.45  | 1.06  | .20   | TRACE | TRACE | .00  | .00  | TRACE | .00  | .54   | 1.49   | 8.54       |
| S.C.                             | 5.548  | 4.224 | 1.683 | .579  | .000  | .000  | .000 | .000 | .000  | .000 | 1.571 | 2.765  | 7.737      |
| TOTAL OBS                        | 1093   | 986   | 1082  | 1050  | 1085  | 1045  | 1116 | 1071 | 1016  | 1049 | 1079  | 1183   | 12754      |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| MONTH | AMOUNTS IN INCHES |       |     |     |     |              |               |                |                |                |                |                 |             | % DAYS<br>WITH<br>MEAS<br>AMTS | TOTAL<br>OBS | MONTHLY AMOUNTS |          |       |
|-------|-------------------|-------|-----|-----|-----|--------------|---------------|----------------|----------------|----------------|----------------|-----------------|-------------|--------------------------------|--------------|-----------------|----------|-------|
|       | NONE              | TRACF | 1   | 2   | 3   | 4<br>TO<br>6 | 7<br>TO<br>12 | 13<br>TO<br>24 | 25<br>TO<br>36 | 37<br>TO<br>48 | 49<br>TO<br>60 | 61<br>TO<br>120 | OVER<br>120 |                                |              | MEAN            | GREATEST | LEAST |
| JAN   | 83.0              | 5.1   | 4.1 | 3.5 | 2.3 | 1.6          | .4            |                |                |                |                |                 |             | 11.9                           | 1093         |                 |          |       |
| FEB   | 83.5              | 9.2   | 4.7 | 2.8 | 1.4 | 1.2          | .1            |                |                |                |                |                 |             | 10.2                           | 987          |                 |          |       |
| MAR   | 56.5              | 2.1   | .6  | .7  |     | .1           |               |                |                |                |                |                 |             | 1.4                            | 1078         |                 |          |       |
| APR   | 99.3              | .7    |     |     |     |              |               |                |                |                |                |                 |             |                                | 1050         |                 |          |       |
| MAY   | 100.0             |       |     |     |     |              |               |                |                |                |                |                 |             |                                | 1085         |                 |          |       |
| JUN   | 100.0             |       |     |     |     |              |               |                |                |                |                |                 |             |                                | 1045         |                 |          |       |
| JUL   | 100.0             |       |     |     |     |              |               |                |                |                |                |                 |             |                                | 1116         |                 |          |       |
| AUG   | 100.0             |       |     |     |     |              |               |                |                |                |                |                 |             |                                | 1071         |                 |          |       |
| SEP   | 100.0             |       |     |     |     |              |               |                |                |                |                |                 |             |                                | 1016         |                 |          |       |
| OCT   | 100.0             |       |     |     |     |              |               |                |                |                |                |                 |             |                                | 1049         |                 |          |       |
| NOV   | 58.3              | 1.7   | .4  | .3  |     |              |               |                |                |                |                |                 |             | .6                             | 1078         |                 |          |       |
| DEC   | 53.6              | 2.4   | .8  | 1.3 | .7  | .7           |               |                |                |                |                |                 |             | 3.6                            | 1083         |                 |          |       |
| ANN   | 55.9              | 1.7   | .9  | .7  | .4  | .3           | .0            |                |                |                |                |                 |             | 2.3                            | 12751        |                 |          |       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

EXTREME VALUES OF SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-97

| YEAR | DAILY SNOW DEPTH IN INCHES |       |        |       |     |     |     |     |     |     |       |       | ALL MONTHS |
|------|----------------------------|-------|--------|-------|-----|-----|-----|-----|-----|-----|-------|-------|------------|
|      | JAN                        | FEB   | MAR    | APP   | MAY | JUN | JUL | AUG | SEP | OCT | NOV   | DEC   |            |
| 51   |                            |       |        |       |     | *0  | 0   | 0   | 0   | 0   | 0     | 0     | 2          |
| 52   | 1                          | 2     | 2      | TRACE | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE | 3          |
| 53   | 3                          | 2     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 3          |
| 54   | 2                          | 3     | 1      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 2          |
| 55   | 2                          | 2     | 2      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 6          |
| 56   | 3                          | 6     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | TRACE | 2     |            |
| 57   | *0                         |       |        |       |     |     |     |     |     |     |       |       |            |
| 58   | *4                         | 2     | 4      | TRACE | 0   | 0   | 0   | *0  |     |     | 0     | 0     | 1          |
| 59   | 1                          | 0     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 5          |
| 60   | 5                          | 0     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0          |
| 61   | 0                          | 0     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 5          |
| 62   | 3                          | 1     | TRACE  | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 5     | 5          |
| 63   | 5                          | 3     | TRACE  | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE | 5          |
| 64   | 0                          | 0     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0          |
| 65   | 0                          | 0     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0          |
| 66   | 0                          | 0     | *0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0          |
| 67   | 0                          | 0     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0          |
| 68   | 1                          | TRACE | 0      | TRACE | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 2     | 2          |
| 69   | 1                          | 3     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 2     | 3          |
| 70   | 0                          | 4     | 2      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 5     | 5          |
| 71   | 1                          | *0    | *3     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | TRACE | TRACE | *1         |
| 72   | 4                          | 2     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 4          |
| 73   | 0                          | 1     | 0      | 0     | 0   | 0   | 0   | 0   | *0  | *0  | 1     | 2     | 2          |
| 74   | 0                          | 0     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE | TRACE      |
| 75   | 0                          | 0     | TRACE  | TRACE | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0          |
| 76   | 1                          | 0     | 0      | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 1          |
| 77   | 2                          | 0     | *TRACE | 0     | 0   | 0   | 0   | 0   | 0   | *0  | 0     | 0     | 2          |
| 78   | 2                          | 2     | TRACE  | TRACE | 0   | 0   | 0   | 0   | 0   | 0   | 2     | 2     | 2          |
| 79   | 4                          | *7    | TRACE  | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | TRACE | *7         |
| 80   | TRACE                      | 0     | TRACE  | 0     | 0   | 0   | 0   | 0   | 0   | 0   | TRACE | TRACE | TRACE      |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

CONTINUED ON NEXT PAGE....

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

EXTREME VALUES OF SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| YEAR       | DAILY SNOW DEPTH IN INCHES |       |       |       |      |                      |      |      |      |      |       |        | ALL MONTHS |
|------------|----------------------------|-------|-------|-------|------|----------------------|------|------|------|------|-------|--------|------------|
|            | JAN                        | FEB   | MAR   | APR   | MAY  | -M-O-N-T-H-S-<br>JUN | JUL  | AUG  | SEP  | OCT  | NOV   | DEC    |            |
| 81         | 3                          | 2     | *0    | 0     | 0    | 0                    | 0    | 0    | 0    | 0    | 0     | 5      |            |
| 82         | 2                          | 0     | 0     | 0     | 0    | 0                    | 0    | 0    | 0    | 0    | 0     | 0      | 2          |
| 83         | *0                         | 1     | 0     | 0     | 0    | 0                    | 0    | 0    | 0    | 0    | 0     | 0      | 1          |
| 84         | 3                          | 0     | 0     | 0     | 0    | 0                    | 0    | 0    | 0    | 0    | *0    | 0      | 3          |
| 85         | 6                          | 3     | *1    | 0     | 0    | 0                    | 0    | 0    | 0    | 0    | TRACE | *TRACE | 6          |
| 86         | *0                         | 2     | 2     | 0     | 0    | 0                    | 0    | 0    | 0    | 0    | 0     | 0      | 2          |
| 87         | 8                          | TRACE | TRACE | 0     | 0    | 0                    | 0    | 0    | 0    | 0    | 0     | 0      |            |
| MEAN       | 1.9                        | 1.2   | .4    | TRACE | .0   | .0                   | .0   | .0   | .0   | .0   | .1    | .7     | 2.2        |
| S.E.       | 2.069                      | 1.501 | .958  | .000  | .000 | .000                 | .000 | .000 | .000 | .000 | .499  | 1.124  | 1.959      |
| TOTAL (BS) | 1093                       | 987   | 1078  | 1050  | 1085 | 1045                 | 1116 | 1071 | 1016 | 1049 | 1078  | 1183   | 12751      |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

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## SURFACE WIND SUMMARIES

### EXTREME VALUES OF PEAK WINDS

DATA DERIVED FROM SUMMARY OF DAY DATA.

VALUES PRESENTED BY INDIVIDUAL MONTH AND YEAR WITH ALL YEARS COMBINED.

SPEEDS PRESENTED IN KNOTS.

DIRECTIONS PRESENTED IN 16 COMPASS POINTS FROM BEGINNING OF PERIOD OF RECORD THROUGH JUNE 1968. COMMENCING JULY 1968 DIRECTIONS PRESENTED IN TENS OF DEGREES.

AN ASTERISK "\*" IN THE TABLES INDICATES THAT THE VALUE IS BASED ON AN INCOMPLETE MONTH OF THREE OR MORE MISSING DAYS.

MEANS AND STANDARD DEVIATIONS PRESENTED DO NOT INCLUDE INCOMPLETE MONTHS. FOUR OR MORE MONTHS ARE NEEDED TO COMPUTE THESE STATISTICS AND INCOMPLETE MONTHS ARE NOT INCLUDED.

TABLES ALSO INCLUDE THE OBSERVATION COUNTS.

### BIVARIATE PERCENTAGE FREQUENCY TABULATIONS OF SURFACE WINDS

DATA DERIVED FROM HOURLY DATA.

PRESENTED ARE THE PERCENTAGE FREQUENCY OF WIND DIRECTION TO 16 COMPASS POINTS, CALM AND VARIABLE VERSUS WIND SPEED IN KNOTS IN INCREMENTS OF BEAUFORT CLASSIFICATIONS.

PERCENTAGES ARE SHOWN BY BOTH DIRECTIONS AND SPEED, AND IN ADDITION THE MEAN WIND SPEED IS GIVEN FOR EACH DIRECTION.

DATA PRESENTED BY THE STANDARD 2-FOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

A SEPARATE ANNUAL TABLE PRESENTS THE SAME BIVARIATE DISTRIBUTIONS WITH IMPOSED CEILING/VISIBILITY LIMITATIONS: WHEN VISIBILITY IS EQUAL TO OR GREATER THAN 1/2 MILES, THE CEILINGS ARE 200 TO 1400 FEET AND/OR WHEN THE CEILING IS EQUAL TO OR GREATER THAN 200 FEET, THE VISIBILITIES ARE 1/2 THROUGH 2 1/2 MILES.

A PERCENTAGE VALUE OF "0" IN THESE TABLES INDICATES ONE OR MORE OCCURRENCES AMOUNTING TO LESS THAN .05%.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF SURFACE WINDS  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 58-87

| DAILY PEAK GUSTS IN KNOTS |        |        |        |        |        |        |        |        |        |        |        |        |            |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| -M-O-N-T-H-S-             |        |        |        |        |        |        |        |        |        |        |        |        |            |
| YEAR                      | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | ALL MONTHS |
| 58                        |        |        |        |        |        |        |        |        |        |        |        |        |            |
| 59                        | SW 45  | W 30   | SSW 40 | SW 36  | ENE 31 | SW 33  | SSW 32 | SSW 26 | ENE 27 | W 44   | E 45   | W 55   | SW 45      |
| 60                        | WNW 39 | S 35   | WNW 40 | SSW 37 | E 33   | SSW 35 | SSW 34 | WNW 26 | NW 32  | WNW 27 | WSW 42 | WSW 44 | WSW 44     |
| 61                        | S 38   | WSW 47 | WNW 31 | SSW 27 | SW 34  | S 25   | WNW 32 | SW 40  | SSW 28 | WNW 34 | NE 43  | SW 43  | WSW 47     |
| 62                        | SSW 49 | W 44   | SE 34  | W 37   | WSW 31 | SSW 29 | SW 30  | SW 33  | S 35   | SSW 30 | S 28   | NNW 50 | NNW 50     |
| 63                        | E 46   | ENE 26 | W 34   | ENE 32 | W 31   | E 29   | SSW 28 | NW 31  | SSW 35 | SW 29  | WSW 42 | S 42   | E 46       |
| 64                        | WNW 28 | W 28   | ESE 31 | S 35   | WSW 34 | SSW 36 | SW 30  | SSW 32 | W 37   | SW 33  | W 37   | SW 39  | SW 39      |
| 65                        | W 44   | WNW 44 | W 30   | WNW 40 | WNW 37 | W 37   | WSW 32 | W 30   | SW 44  | W 34   | WSW 49 | W 47   | WSW 49     |
| 66                        | SW 37  | SW 39  | W 54   | SSW 29 | W 41   | WSW 29 | W 27   | SW 31  | WNW 29 | S 30   | NW 41  | W 41   | W 54       |
| 67                        | S 27   | W 49   | SW 39  | NE 34  | S 32   | WSW 23 | NW 20  | S 28   | S 39   | SW 48  | S 38   | WSW 37 | W 49       |
| 68                        | WSW 45 | S 39   | N 40   | WSW 31 | W 36   | NNE 34 | SW 45  | 22/ 32 | 25/ 37 | 23/ 32 | 36/ 33 | 19/ 35 | WSW 45     |
| 69                        | 18/ 44 | 7/ 37  | 26/ 35 | 28/ 43 | 27/ 28 | 19/ 27 | 35/ 30 | 34/ 27 | 25/ 29 | 29/ 26 | 25/ 40 | 7/ 37  | 18/ 44     |
| 70                        | 13/ 30 | 28/ 49 | 28/ 37 | 33/ 35 | 30/ 34 | 27/ 33 | 35/ 36 | 24/ 36 | 24/ 37 | 29/ 35 | 26/ 51 | 11/ 39 | 26/ 51     |
| 71                        | 27/ 40 | 20/ 40 | 7/ 32  | 27/ 27 | 17/ 22 | 24/ 28 | 25/ 26 | 24/ 29 | 25/ 30 | 21/ 35 | 33/ 40 | 22/ 36 | 27/ 40     |
| 72                        | 31/ 43 | 18/ 31 | 27/ 43 | 20/ 35 | 25/ 40 | 20/ 28 | 3/ 25  | 21/ 32 | 18/ 28 | 33/ 27 | 28/ 45 | 19/ 40 | 28/ 45     |
| 73                        | 18/ 30 | 29/ 33 | 31/ 26 | 25/ 56 | 29/ 36 | 5/ 25  | 35/ 26 | 26/ 41 | 17/ 37 | 29/ 38 | 30/ 38 | 35/ 48 | 25/ 56     |
| 74                        | 29/ 49 | 25/ 51 | 27/ 30 | 6/ 30  | 19/ 27 | 28/ 32 | 29/ 33 | 29/ 33 | 22/ 49 | 20/ 36 | 29/ 46 | 29/ 60 | 29/ 60     |
| 75                        | 25/ 53 | 28/ 25 | 3/ 35  | 27/ 33 | 4/ 37  | 22/ 31 | 24/ 31 |        |        |        | 19/ 40 | 19/ 47 |            |
| 76                        | 27/ 63 | 30/ 43 | 25/ 34 | 4/ 28  | 27/ 38 | 6/ 24  | 7/ 26  | 8/ 25  | 18/ 35 | 16/ 43 | 19/ 39 | 18/ 43 | 27/ 63     |
| 77                        | 22/ 51 | 19/ 40 | 1/ 50  | 26/ 43 | 4/ 35  | 21/ 33 | 24/ 29 | 20/ 32 | 24/ 38 | 25/ 43 | 26/ 50 | 24/ 60 | 24/ 60     |
| 78                        | 1/ 54  | 7/ 37  | 28/ 41 | 4/ 30  | 35/ 32 | 4/ 30  | 19/ 29 | 22/ 36 | 27/ 44 | 35/ 34 | 21/ 37 | 4/ 42  | 1/ 54      |
| 79                        | 18/ 40 | 3/ 42  | 22/ 42 | 20/ 35 | 23/ 42 | 23/ 26 | 27/ 25 | 23/ 38 | 25/ 28 | 14/ 25 | 26/ 34 | 22/ 53 | 22/ 53     |
| 80                        | 17/ 43 | 21/ 27 | 25/ 36 | 28/ 36 | 5/ 29  | 19/ 34 | 26/ 33 | 27/ 30 | 27/ 37 | 22/ 41 | 36/ 48 | 35/ 39 | 36/ 48     |
| 81                        | 28/ 46 | 27/ 46 | 19/ 42 | 3/ 38  | 20/ 35 |        | 27/ 26 | 36/ 23 | 17/ 44 | 25/ 42 | 28/ 40 | 15/ 50 |            |
| 82                        | 7/ 31  | 19/ 32 | 20/ 38 | 22/ 32 | 25/ 42 | 22/ 29 | 25/ 33 | 23/ 30 | 20/ 39 | 17/ 30 | 20/ 37 | 25/ 49 | 25/ 49     |
| 83                        | 25/ 46 | 26/ 56 | 20/ 42 | 34/ 34 | 36/ 30 | 4/ 27  | 7/ 25  | 33/ 24 | 21/ 37 | 21/ 40 | 27/ 48 | 20/ 35 | 26/ 56     |
| 84                        | 26/ 50 | 32/ 42 | 34/ 48 | 4/ 26  | 4/ 32  | 29/ 31 | 21/ 30 | 25/ 23 | 26/ 46 | 21/ 34 | 19/ 32 | 30/ 33 | 26/ 50     |
| 85                        | 1/ 34  | 9/ 32  | 22/ 27 | 31/ 34 | 21/ 31 | 28/ 30 | 27/ 31 | 20/ 32 | 25/ 28 | 19/ 30 | 29/ 40 | 17/ 31 | 29/ 40     |
| 86                        | 29/ 38 | 5/ 31  | 27/ 63 | 56/ 58 | 21/ 37 | 27/ 29 | 24/ 23 | 27/ 32 | 1/ 34  | 31/ 41 | 32/ 44 | 27/ 44 | 23/ 63     |
| 87                        | 6/ 39  | 24/ 32 | 22/ 48 | 28/ 32 | 35/ 35 | 22/ 28 | 37/ 27 | 31/ 44 | 25/ 39 | 24/ 75 | 25/ 38 |        |            |
| .....                     |        |        |        |        |        |        |        |        |        |        |        |        |            |
| MEAN                      | 47.11  | 34.21  | 38.71  | 34.51  | 33.91  | 29.81  | 29.11  | 31.31  | 35.71  | 36.21  | 40.91  | 43.31  | 50.4       |
| MAX                       | 8.455  | 9.146  | 8.398  | 6.088  | 4.656  | 3.665  | 4.810  | 5.291  | 6.334  | 9.897  | 5.354  | 7.794  | 7.297      |
| TOTAL GDS                 | 892    | 912    | 890    | 867    | 890    | 834    | 893    | 866    | 820    | 859    | 862    | 888    | 1022       |
| .....                     |        |        |        |        |        |        |        |        |        |        |        |        |            |

NOTES \* (BASED ON LESS THAN FULL MONTHS)  
% (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 79-87  
MONTH: JAN HOURS(1511): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.4                  | 1.5  | 1.3  | .7    |       |       | .3    |       |       |       |       | 5.2        | 7.7          |
| NNE                    | .3                   | .4   | .9   | .4    |       |       |       |       |       |       |       | 2.1        | 7.8          |
| NE                     | .5                   | .8   | .7   | .4    |       |       |       |       |       |       |       | 2.4        | 6.5          |
| ENE                    | 1.0                  | .3   | .9   | 1.1   | .7    |       |       |       |       |       |       | 3.9        | 9.8          |
| E                      |                      | .8   | .8   | .3    | .3    |       |       |       |       |       |       | 2.2        | 9.1          |
| ESE                    | .1                   | .2   | .3   | .5    |       |       |       |       |       |       |       | 1.2        | 9.5          |
| SE                     | .1                   | 1.1  | .5   | .3    | .1    |       |       |       |       |       |       | 2.2        | 7.7          |
| SSE                    | .1                   | .4   | .4   | .7    | .1    |       |       |       |       |       |       | 1.7        | 10.4         |
| S                      | .9                   | 1.8  | 2.1  | 2.0   | .2    | .2    |       |       |       |       |       | 7.2        | 9.0          |
| SSW                    | .5                   | 1.6  | 2.3  | 1.8   | .4    | .2    |       |       |       |       |       | 6.9        | 9.6          |
| SW                     | .5                   | 2.2  | 3.7  | 3.6   | .8    |       |       |       |       |       |       | 17.7       | 9.9          |
| WSW                    | 1.1                  | 2.8  | 2.8  | 2.7   | .9    | .1    |       |       |       |       |       | 17.4       | 9.2          |
| W                      | 1.0                  | 3.9  | 3.7  | 3.7   | 1.6   | .1    |       |       |       |       |       | 14.0       | 9.7          |
| WNW                    | 1.1                  | 2.5  | 1.8  | 2.2   | .2    |       |       |       |       |       |       | 7.8        | 8.1          |
| NW                     | 1.5                  | 1.1  | 2.1  | 1.4   |       |       |       |       |       |       |       | 6.1        | 7.3          |
| NNW                    | 1.2                  | 2.0  | 1.2  | .3    |       |       |       |       |       |       |       | 4.7        | 5.9          |
| VARIABLE               |                      |      | .1   | .5    | .1    |       |       |       |       |       |       | .9         | 14.1         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 13.7       | ////         |
| TOTALS                 | 11.4                 | 23.4 | 25.5 | 22.6  | 5.4   | .7    | .3    |       |       |       |       | 100.0      | 7.9          |

TOTAL NUMBER OF OBSERVATIONS: 923

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(157): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |       |              |
| N                      | 1.6                  | 2.1  | .5   | .5    |       |       |       |       |       |       |       | 4.8   | 5.6          |
| NNE                    | .9                   | .6   | .9   | .4    |       | .1    | .1    |       |       |       |       | 3.0   | 8.0          |
| NE                     | .5                   | .5   | 1.1  | .1    |       |       |       |       |       |       |       | 2.3   | 6.6          |
| ENE                    | .1                   | 1.0  | .8   | 1.1   | .6    |       |       |       |       |       |       | 3.6   | 11.0         |
| E                      | .2                   | 1.0  | .4   | .4    | .4    |       |       |       |       |       |       | 2.5   | 9.1          |
| ESE                    | .2                   | .6   | .3   | .8    |       |       |       |       |       |       |       | 1.9   | 8.2          |
| SE                     | .9                   | .8   | .3   | .3    | .1    | .1    |       |       |       |       |       | 2.5   | 7.2          |
| SSE                    | .5                   | .4   | .4   | .6    | .2    |       |       |       |       |       |       | 2.3   | 8.9          |
| S                      | .8                   | 1.0  | 1.4  | 1.8   | .5    | .4    |       |       |       |       |       | 5.9   | 10.9         |
| SSW                    | .8                   | 1.7  | 1.6  | 2.1   | .9    | .1    |       |       |       |       |       | 7.1   | 10.1         |
| SW                     | 1.0                  | 1.6  | 2.7  | 2.9   | .6    |       |       |       |       |       |       | 8.9   | 9.6          |
| WSW                    | .8                   | 2.4  | 5.0  | 2.7   | .5    |       |       |       |       |       |       | 11.4  | 9.0          |
| W                      | 1.3                  | 2.9  | 3.6  | 3.9   | 1.1   |       |       |       |       |       |       | 12.8  | 9.5          |
| WNW                    | 2.2                  | 2.5  | 2.7  | 1.7   | .1    | .1    |       |       |       |       |       | 9.3   | 7.4          |
| NW                     | 1.1                  | 1.9  | 1.5  | 1.6   | .2    |       |       |       |       |       |       | 6.4   | 7.9          |
| NNW                    | 1.0                  | 1.1  | 1.6  |       | .1    |       |       |       |       |       |       | 3.8   | 6.3          |
| VARIABLE               |                      |      |      | .1    |       | .1    |       |       |       |       |       | .2    | 19.5         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 11.5  | ////         |
| TOTALS                 | 13.7                 | 22.2 | 24.9 | 21.2  | 5.5   | 1.0   | .1    |       |       |       |       | 100.0 | 7.7          |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 0600-0600

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |       |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|-------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              | GE 56 |
| N                      | 1.2                                  | 2.0  | .4   | .4    |       |       |       |       |       |       |            | 4.1          | 5.3   |
| NNE                    | .5                                   | .4   | 1.1  | .1    | .1    |       |       |       |       |       |            | 2.3          | 7.0   |
| NE                     | .3                                   | .3   | 1.5  |       |       |       |       |       |       |       |            | 2.2          | 7.3   |
| ENE                    | .4                                   | 1.3  | .4   | 1.2   | .5    |       |       |       |       |       |            | 3.9          | 9.2   |
| E                      | .4                                   | .8   | .9   | .9    | .2    |       |       |       |       |       |            | 3.1          | 9.2   |
| ESE                    | 1.0                                  | .1   |      | .2    |       |       |       |       |       |       |            | 1.3          | 3.9   |
| SE                     | .3                                   | .2   | .3   | .4    |       | .1    |       |       |       |       |            | 1.4          | 9.0   |
| SSE                    | .4                                   | 1.3  | 1.0  | .5    | .4    | .3    |       |       |       |       |            | 4.0          | 9.9   |
| S                      | 1.4                                  | 1.3  | 1.6  | 1.3   | .5    | .2    | .2    |       |       |       |            | 6.6          | 9.8   |
| SSW                    | .3                                   | 1.0  | 2.9  | 2.4   | .1    | .1    | .1    |       |       |       |            | 6.9          | 9.9   |
| SW                     | .5                                   | 1.3  | 2.9  | 1.8   | .8    | .1    | .1    |       |       |       |            | 7.6          | 10.3  |
| WSW                    | 1.2                                  | 3.0  | 3.6  | 3.6   | 1.5   |       | .3    |       |       |       |            | 13.2         | 10.1  |
| W                      | 1.6                                  | 2.5  | 4.2  | 3.5   | .5    |       |       |       |       |       |            | 12.3         | 8.9   |
| WNW                    | 2.3                                  | 1.8  | 2.0  | 1.9   |       |       |       |       |       |       |            | 8.1          | 7.1   |
| NW                     | 1.7                                  | 2.8  | 1.9  | 1.7   | .1    |       |       |       |       |       |            | 8.3          | 7.1   |
| NNW                    | 1.5                                  | 1.0  | 1.2  | .4    |       |       |       |       |       |       |            | 4.1          | 6.2   |
| VARIABLE               |                                      |      | .2   | .1    | .1    | .1    |       |       |       |       |            | .5           | 14.4  |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |            | 17.2         | ////  |
| TOTALS                 | 15.2                                 | 21.1 | 26.2 | 20.5  | 5.0   | 1.0   | .8    |       |       |       |            | 100.0        | 7.8   |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.7                                  | 2.3  | 1.3  | .4    |       |       |       |       |       |       |       | 6.0        | 5.1          |
| NNE                    | .3                                   | .2   | .2   | .3    |       |       |       |       |       |       |       | 1.1        | 6.8          |
| NE                     | .3                                   | .4   | .9   | .5    |       |       |       |       |       |       |       | 2.2        | 7.9          |
| ENE                    |                                      | 1.0  | 1.1  | 1.2   | .5    |       |       |       |       |       |       | 3.8        | 10.9         |
| E                      | .4                                   | .6   | 1.4  | .6    | .3    |       |       |       |       |       |       | 3.5        | 9.3          |
| ESE                    | .4                                   | .9   | .4   | .4    |       |       |       |       |       |       |       | 2.2        | 7.0          |
| SE                     | .9                                   | .5   | .5   | .2    | .2    |       |       |       |       |       |       | 2.4        | 6.5          |
| SSE                    | .3                                   | 1.0  | 1.6  | .4    | .2    | .2    | .1    |       |       |       |       | 3.9        | 9.6          |
| S                      | .5                                   | 1.3  | 2.2  | 1.5   | 1.0   | .3    |       |       |       |       |       | 6.8        | 10.6         |
| SSW                    | .3                                   | 1.3  | 2.3  | 2.0   | .6    | .1    |       |       |       |       |       | 6.7        | 10.3         |
| SW                     | .5                                   | 1.6  | 2.4  | 2.2   | .2    | .1    | .1    |       |       |       |       | 7.1        | 9.6          |
| WSW                    | 1.3                                  | 2.3  | 4.3  | 3.5   | 1.3   |       | .1    | .1    |       |       |       | 12.8       | 10.2         |
| W                      | .6                                   | 2.7  | 3.8  | 5.9   | 1.1   | .4    | .1    | .1    |       |       |       | 14.8       | 11.1         |
| WNW                    | 1.5                                  | 1.7  | 2.4  | 1.7   | .4    | .1    | .1    |       |       |       |       | 9.0        | 8.5          |
| NW                     | .8                                   | 2.4  | 2.6  | 1.8   |       |       |       |       |       |       |       | 7.6        | 7.8          |
| NNW                    | 1.2                                  | 1.9  | 1.4  | .6    |       |       |       |       |       |       |       | 4.9        | 6.2          |
| VARIABLE               |                                      |      |      | .4    | .2    |       |       |       |       |       |       | .6         | 15.7         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 5.8        | ////         |
| TOTALS                 | 11.3                                 | 22.0 | 26.7 | 23.9  | 6.1   | 1.3   | .5    | .2    |       |       |       | 100.0      | 8.7          |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035962 STATION NAME: RAF RENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .8                   | 2.5  | 1.7  | 1.3   | .1    |       |       |       |       |       |       | 6.4        | 7.6          |
| NNE                    | .5                   | .5   | .8   | .5    |       |       |       |       |       |       |       | 2.4        | 7.3          |
| NE                     | .1                   | .5   | .8   | .1    | .2    |       |       |       |       |       |       | 1.7        | 8.4          |
| ENE                    | .5                   | .4   | 1.2  | 1.5   | .1    |       |       |       |       |       |       | 3.8        | 9.8          |
| E                      | .4                   | 1.3  | .4   | .9    | .5    | .1    |       |       |       |       |       | 3.7        | 9.4          |
| ESE                    | .2                   | .5   | 1.1  | .4    |       |       |       |       |       |       |       | 2.3        | 8.2          |
| SE                     | .6                   | .8   | .6   | 1.0   |       |       |       |       |       |       |       | 3.0        | 7.8          |
| SSE                    | .4                   | 1.2  | 1.9  | .9    |       |       |       |       |       |       |       | 4.4        | 8.1          |
| S                      | .3                   | 1.6  | 2.0  | 1.1   | 1.1   | .3    |       |       |       |       |       | 6.5        | 10.7         |
| SSW                    | .2                   | .9   | 2.7  | 2.9   | .8    |       | .1    |       |       |       |       | 7.6        | 11.0         |
| SW                     |                      | 2.4  | 2.6  | 1.7   | .4    | .2    |       |       |       |       |       | 7.3        | 9.9          |
| WSW                    | .3                   | 1.3  | 2.5  | 2.4   | .9    | .1    |       |       |       |       |       | 7.4        | 10.4         |
| W                      | .4                   | 2.3  | 5.3  | 5.9   | 2.5   | 1.7   |       |       |       |       |       | 17.4       | 11.9         |
| WNW                    | .5                   | 1.1  | 2.8  | 1.9   | .5    | .3    |       |       |       |       |       | 7.2        | 10.3         |
| NW                     | 1.7                  | 1.5  | 2.2  | 3.0   | .4    |       |       |       |       |       |       | 8.8        | 8.9          |
| NNW                    | .9                   | 2.8  | 1.4  | .9    |       |       |       |       |       |       |       | 5.8        | 6.6          |
| VARIABLE               |                      |      | .6   | .3    |       | .3    | .1    |       |       |       |       | 1.4        | 14.8         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 2.9        | ////         |
| TOTALS                 | 8.0                  | 21.6 | 30.6 | 26.8  | 7.6   | 2.4   | .2    |       |       |       |       | 100.0      | 9.5          |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87  
MONTH: JAN HOURS(IST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.3                  | 2.6  | 1.3  | 1.3   | .2    |       |       |       |       |       |       | 7.7        | 6.5          |
| NNE                    | .6                   | 1.0  | .9   | 1.1   |       |       |       |       |       |       |       | 3.6        | 8.0          |
| NE                     | .2                   | .4   | .4   | .4    | .2    |       |       |       |       |       |       | 1.7        | 9.2          |
| ENE                    | .8                   | .3   | .9   | 1.1   |       | .1    |       |       |       |       |       | 1.1        | 8.7          |
| E                      | .5                   | 1.4  | .4   | .6    | .4    |       |       |       |       |       |       | 3.5        | 8.6          |
| ESE                    | .3                   | .6   | .5   | .6    | .3    |       |       |       |       |       |       | 2.5        | 9.0          |
| SE                     | .4                   | 1.2  | .3   | .1    |       |       |       |       |       |       |       | 2.7        | 5.4          |
| SSE                    | .6                   | 1.3  | 1.3  | .3    |       |       |       |       |       |       |       | 3.6        | 6.4          |
| S                      | 1.2                  | 1.7  | 2.3  | 1.7   | .5    | .3    |       |       |       |       |       | 7.8        | 9.4          |
| SSW                    | .8                   | 1.4  | 1.7  | 2.6   | .9    | .3    |       |       |       |       |       | 7.7        | 10.8         |
| SW                     | .9                   | 1.9  | 2.7  | 2.7   | .1    |       |       |       |       |       |       | 7.7        | 8.2          |
| WSW                    | .2                   | 2.8  | 2.0  | 2.0   | 1.0   |       |       |       |       |       |       | 8.1        | 9.3          |
| W                      | 1.1                  | 2.6  | 5.0  | 5.2   | .8    | .5    |       |       |       |       |       | 15.1       | 10.1         |
| WNW                    | .8                   | 1.5  | 2.6  | 1.9   | .3    |       | .1    |       |       |       |       | 7.2        | 9.6          |
| NW                     | 1.0                  | 1.7  | 2.0  | 1.3   | .5    |       |       |       |       |       |       | 5.8        | 8.9          |
| NNW                    | 1.2                  | 2.7  | .9   | .9    | .2    |       |       |       |       |       |       | 5.8        | 6.6          |
| VARIABLE               |                      |      | .1   | .3    | .3    | .1    |       |       |       |       |       | .9         | 16.8         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 6.4        | ////         |
| TOTALS                 | 12.8                 | 24.5 | 25.4 | 27.6  | 5.8   | 1.4   | .1    |       |       |       |       | 100.0      | 8.3          |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(IST): 1800-2400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.2                  | 2.8  | 1.0  | .9    | .3    |       |       |       |       |       | 6.1        | 6.5          |
| NNE                    | .5                   | .1   | .6   | 1.0   |       | .1    |       |       |       |       | 2.4        | 9.8          |
| NE                     | .3                   | .5   | .4   | .3    | .2    |       |       |       |       |       | 1.8        | 8.1          |
| ENE                    | .7                   | 1.0  | .9   | .4    | .4    |       |       |       |       |       | 3.7        | 9.3          |
| E                      | .3                   | .9   | .2   | 1.1   | .3    | .1    |       |       |       |       | 2.9        | 10.6         |
| ESE                    | .3                   | .4   | .4   | .4    |       |       |       |       |       |       | 1.6        | 8.1          |
| SE                     | .2                   | 1.3  | .8   | .1    |       |       |       |       |       |       | 2.4        | 6.2          |
| SSE                    | .4                   | 1.5  | 1.0  | .8    |       |       |       |       |       |       | 3.7        | 7.0          |
| S                      | 1.0                  | 1.5  | 1.1  | 1.7   | .3    | .2    |       |       |       |       | 5.8        | 9.4          |
| SSW                    | 1.6                  | 1.5  | 2.2  | 2.7   | .1    | .1    |       |       |       |       | 8.2        | 8.8          |
| SW                     | 1.2                  | 2.6  | 3.3  | 2.7   | .2    | .3    |       |       |       |       | 10.4       | 8.7          |
| WSW                    | .5                   | 2.0  | 2.7  | 1.8   | 1.0   | .4    |       |       |       |       | 9.5        | 10.2         |
| W                      | 1.4                  | 2.9  | 4.4  | 3.6   | 1.4   | .3    |       |       |       |       | 14.0       | 10.0         |
| WNW                    | .8                   | 1.2  | 1.8  | 2.3   | .3    |       |       |       |       |       | 6.4        | 9.5          |
| NW                     | 1.4                  | 2.0  | 1.9  | 1.2   | .3    |       |       |       |       |       | 6.9        | 7.4          |
| NNW                    | 2.2                  | 2.4  | .9   | 1.0   |       |       |       |       |       |       | 6.4        | 5.5          |
| VARIABLE               | .1                   | .1   | .4   | .3    |       | .1    |       |       |       |       | 1.1        | 10.4         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 8.4        | ////         |
| TOTALS                 | 13.8                 | 24.8 | 24.1 | 22.2  | 5.0   | 1.7   |       |       |       |       | 109.0      | 7.9          |

TOTAL NUMBER OF OBSERVATIONS: 927



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 75-87  
MONTH: JAN HOURS(157): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |       |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|-------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              | GE 56 |
| N                      | 1.6                                  | 1.8  | 1.4  | .9    | .3    |       | .2    |       |       |       |            | 6.3          | 7.8   |
| NNE                    | .4                                   | 1.0  | 1.0  | .9    |       |       | .1    |       |       |       |            | 3.3          | 8.5   |
| NE                     | .2                                   | .8   | .1   | .4    | .1    |       |       |       |       |       |            | 1.6          | 8.2   |
| ENE                    |                                      | 1.1  | .3   | .6    | .4    | .3    |       |       |       |       |            | 2.8          | 11.5  |
| E                      | .2                                   | 1.4  | .5   | 1.2   | .1    |       |       |       |       |       |            | 3.5          | 9.0   |
| ESE                    | .4                                   | .4   | .6   | .3    |       |       |       |       |       |       |            | 1.8          | 7.2   |
| SE                     | .1                                   | .5   | .8   | .3    |       |       |       |       |       |       |            | 1.7          | 8.3   |
| SSE                    | .6                                   | 1.0  | .6   | .5    | .2    |       |       |       |       |       |            | 3.0          | 7.4   |
| S                      | .6                                   | 1.0  | 2.4  | 1.7   | .3    | .1    |       |       |       |       |            | 6.1          | 9.4   |
| SSW                    | .6                                   | 1.3  | 2.5  | 1.7   | .2    | .1    |       |       |       |       |            | 6.5          | 9.0   |
| SW                     | .3                                   | 2.2  | 3.8  | 3.9   | .3    | .2    | .1    |       |       |       |            | 10.8         | 10.2  |
| WSW                    | 1.3                                  | 3.0  | 2.5  | 2.5   | .6    | .8    |       |       |       |       |            | 10.7         | 9.5   |
| W                      | 1.0                                  | 1.9  | 5.2  | 4.2   | 1.1   | .1    |       |       |       |       |            | 13.5         | 10.0  |
| WNW                    | 1.1                                  | 1.4  | 1.7  | 2.8   | .2    |       |       |       |       |       |            | 7.2          | 9.0   |
| NW                     | 2.2                                  | 3.1  | 1.8  | 1.1   | .1    |       |       |       |       |       |            | 8.3          | 6.1   |
| NNW                    | 1.1                                  | 1.0  | .9   | .6    |       |       |       |       |       |       |            | 3.6          | 6.4   |
| VARIABLE               |                                      |      | .1   | .2    |       | .1    |       |       |       |       |            | .4           | 14.5  |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |            | 8.8          | ////  |
| TOTALS                 | 11.9                                 | 22.9 | 26.2 | 23.9  | 4.1   | 1.7   | .4    |       |       |       |            | 100.0        | 8.1   |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF RENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.5                                  | 2.2  | 1.1  | .8    | .1    |       | .1    |       |       |       | 5.8        | 6.6          |
| NNE                    | .5                                   | .5   | .8   | .6    | .0    | .0    | .0    |       |       |       | 2.5        | 8.0          |
| NE                     | .3                                   | .5   | .7   | .3    | .1    |       |       |       |       |       | 2.0        | 7.7          |
| ENE                    | .4                                   | .8   | .8   | 1.0   | .4    | .1    |       |       |       |       | 3.5        | 10.0         |
| E                      | .3                                   | 1.0  | .6   | .8    | .3    | .0    |       |       |       |       | 3.1        | 9.3          |
| ESE                    | .4                                   | .5   | .5   | .5    | .0    |       |       |       |       |       | 1.9        | 7.8          |
| SE                     | .4                                   | .8   | .5   | .4    | .1    | .0    |       |       |       |       | 2.2        | 7.2          |
| SSE                    | .4                                   | 1.0  | 1.0  | .6    | .1    | .1    | .0    |       |       |       | 3.3        | 9.3          |
| S                      | .8                                   | 1.4  | 1.9  | 1.6   | .6    | .3    | .0    |       |       |       | 6.6        | 9.9          |
| SSW                    | .6                                   | 1.3  | 2.3  | 2.3   | .5    | .1    | .0    |       |       |       | 7.2        | 9.9          |
| SW                     | .6                                   | 2.0  | 3.0  | 2.6   | .4    | .1    | .0    |       |       |       | 4.8        | 9.6          |
| WSW                    | .8                                   | 2.5  | 3.2  | 2.6   | 1.0   | .2    | .1    | .7    |       |       | 10.3       | 9.7          |
| W                      | 1.1                                  | 2.7  | 4.4  | 4.5   | 1.3   | .3    | .0    | .0    |       |       | 14.2       | 10.3         |
| WNW                    | 1.3                                  | 1.7  | 2.2  | 2.1   | .3    | .1    | .0    |       |       |       | 7.7        | 8.6          |
| NW                     | 1.4                                  | 2.0  | 2.0  | 1.6   | .2    |       |       |       |       |       | 7.3        | 7.7          |
| NNW                    | 1.2                                  | 1.8  | 1.2  | .6    | .0    |       |       |       |       |       | 4.9        | 6.2          |
| VARIABLE               | .7                                   | .0   | .2   | .3    | .1    | .1    | .0    |       |       |       | .7         | 14.4         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 8.1        | ////         |
| TOTALS                 | 12.3                                 | 22.8 | 26.4 | 23.1  | 5.6   | 1.4   | .3    | .7    |       |       | 107.0      | 8.2          |

TOTAL NUMBER OF OBSERVATIONS: 7410

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.7                  | 2.0  | 1.2  | .1    |       |       |       |       |       |       |       | 5.0        | 4.9          |
| NNE                    | .7                   | 1.5  | 1.5  | 1.4   | .4    |       |       |       |       |       |       | 5.6        | 8.7          |
| NE                     | .7                   | 1.9  | 2.4  | .7    |       |       |       |       |       |       |       | 5.7        | 7.1          |
| NNE                    | .2                   | 1.8  | 2.6  | 3.2   | .5    |       |       |       |       |       |       | 8.3        | 9.9          |
| E                      | 1.1                  | 2.3  | 1.9  | 1.9   | .7    |       |       |       |       |       |       | 7.9        | 8.5          |
| ESE                    | .4                   | 1.2  | .7   | .5    |       |       |       |       |       |       |       | 2.7        | 6.9          |
| SE                     | 1.1                  | 1.5  | 1.5  | .6    | .1    |       |       |       |       |       |       | 4.9        | 6.8          |
| SSE                    | .6                   | .7   | 1.9  | .6    |       |       |       |       |       |       |       | 3.8        | 7.8          |
| S                      | .5                   | 1.3  | 1.4  | 1.3   | .1    |       |       |       |       |       |       | 4.6        | 8.6          |
| SSW                    | .6                   | 1.4  | 1.9  | 1.8   | .4    |       |       |       |       |       |       | 6.1        | 9.2          |
| SW                     | 1.3                  | 1.7  | 2.1  | .6    |       | .4    |       |       |       |       |       | 6.1        | 7.5          |
| WSW                    | .2                   | 2.1  | 1.2  | .7    | .4    |       |       |       |       |       |       | 4.6        | 8.3          |
| W                      | .8                   | 1.8  | 3.3  | 1.0   | .1    | .1    |       |       |       |       |       | 7.1        | 8.0          |
| WNW                    | .6                   | 1.4  | .7   | .5    |       |       |       |       |       |       |       | 3.2        | 6.4          |
| NW                     | 1.8                  | 1.4  | .6   | .4    |       |       |       |       |       |       |       | 4.2        | 5.2          |
| NNW                    | 1.2                  | 1.7  | .8   | .1    | .2    |       |       |       |       |       |       | 4.0        | 5.8          |
| VARIABLE               |                      |      | .5   | .4    |       |       |       |       |       |       |       | .8         | 11.4         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 15.2       | ////         |
| TOTALS                 | 13.5                 | 25.8 | 26.4 | 15.7  | 2.9   | .5    |       |       |       |       |       | 100.0      | 6.6          |

TOTAL NUMBER OF OBSERVATIONS: 940

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |              |
| N                      | 2.1                  | 2.3  | 1.4  | .4    |       |       |       |       |       |       | 6.2   | 5.1          |
| NNE                    | .1                   | 1.1  | 1.5  | 1.3   | .6    | .1    |       |       |       |       | 4.8   | 10.4         |
| NE                     | .6                   | 1.5  | 3.0  | .4    |       |       |       |       |       |       | 5.5   | 6.5          |
| ENE                    | .6                   | 1.9  | 3.0  | 2.7   | 1.0   |       |       |       |       |       | 9.0   | 9.7          |
| E                      | .6                   | 1.4  | 2.7  | 1.4   | .8    |       |       |       |       |       | 7.7   | 9.6          |
| ESE                    | .7                   | .6   | 1.1  | .1    | .1    |       |       |       |       |       | 2.6   | 6.8          |
| SE                     | .8                   | .8   | 1.4  | .7    |       |       |       |       |       |       | 3.8   | 7.2          |
| SSE                    | .4                   | 1.1  | 1.4  | .1    |       |       |       |       |       |       | 3.0   | 6.8          |
| S                      | 1.1                  | 1.3  | 2.0  | 1.2   | .2    |       |       |       |       |       | 5.8   | 7.9          |
| SSW                    | .9                   | 1.7  | 2.3  | 1.0   | .1    |       |       |       |       |       | 5.9   | 7.8          |
| SW                     | .8                   | 1.3  | 2.1  | .7    | .1    | .1    |       |       |       |       | 5.2   | 7.8          |
| WSW                    | 1.1                  | 1.4  | 1.5  | 1.2   | .2    | .2    |       |       |       |       | 5.7   | 8.5          |
| W                      | 1.0                  | 1.8  | 3.0  | 1.0   | .1    | .1    |       |       |       |       | 6.9   | 7.9          |
| WNW                    | .2                   | 1.2  | 1.4  | .8    |       |       |       |       |       |       | 3.7   | 8.7          |
| NW                     | 1.4                  | 2.0  | 1.1  | .6    |       |       |       |       |       |       | 5.1   | 5.9          |
| NNW                    | 1.4                  | 1.5  | .2   |       |       |       |       |       |       |       | 3.2   | 3.9          |
| VARIABLE               |                      | .1   | .2   | .7    |       |       |       |       |       |       | 1.1   | 10.7         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 15.5  | ////         |
| TOTALS                 | 13.8                 | 23.7 | 29.5 | 14.3  | 3.3   | .6    |       |       |       |       | 100.0 | 6.6          |

TOTAL NUMBER OF OBSERVATIONS: 840

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS (LST): 0600-0600

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.4                  | 2.4  | 2.5  | .2    |       |       |       |       |       |       |       | 6.5        | 5.7          |
| NNE                    | .9                   | 1.2  | 1.3  | .8    | .4    |       |       |       |       |       |       | 4.6        | 7.7          |
| NE                     | .7                   | .9   | 3.0  | 1.1   | .1    |       |       |       |       |       |       | 5.8        | 8.3          |
| ENE                    | .6                   | 1.9  | 3.0  | 2.7   | .7    |       |       |       |       |       |       | 8.9        | 9.7          |
| E                      | .9                   | 2.0  | 2.3  | 2.7   | .5    | .2    |       |       |       |       |       | 8.7        | 9.4          |
| ESE                    | .5                   | .6   | 1.5  | .8    |       |       |       |       |       |       |       | 3.4        | 8.1          |
| SE                     | .5                   | .5   | 1.3  | .6    |       |       |       |       |       |       |       | 2.8        | 6.1          |
| SSE                    | .5                   | .7   | 2.6  | .4    |       |       |       |       |       |       |       | 4.2        | 7.6          |
| S                      | 1.7                  | 1.1  | 1.2  | 1.7   | .5    | .1    |       |       |       |       |       | 6.2        | 8.7          |
| SSW                    | .9                   | .8   | 1.3  | 1.2   | .1    |       |       |       |       |       |       | 4.4        | 7.8          |
| SW                     | 1.3                  | 1.7  | 1.8  | .7    |       |       |       |       |       |       |       | 5.5        | 6.6          |
| WSW                    | .1                   | 1.8  | 1.3  | 1.1   | .4    |       |       |       |       |       |       | 4.6        | 8.8          |
| W                      | 1.1                  | 1.4  | 2.3  | 1.4   |       | .2    |       |       |       |       |       | 6.4        | 8.3          |
| WNW                    | .8                   | 1.2  | 2.1  | .4    | .4    |       |       |       |       |       |       | 4.9        | 7.8          |
| NW                     | 1.2                  | .9   | 1.2  | .6    |       |       |       |       |       |       |       | 3.9        | 6.2          |
| NNW                    | 2.0                  | .6   | .4   | .2    |       |       |       |       |       |       |       | 3.2        | 4.1          |
| VARIABLE               |                      |      | .1   | .6    | .2    |       |       |       |       |       |       | .9         | 14.0         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 15.1       | ////         |
| TOTALS                 | 15.2                 | 19.7 | 29.1 | 17.2  | 3.2   | .6    |       |       |       |       |       | 100.0      | 6.8          |

TOTAL NUMBER OF OBSERVATIONS: 843

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |              |
| N                      | 1.7                                  | 1.2  | 3.0  | .4    |       |       |       |       |       |       | 5.8   | 6.7          |
| NNE                    | .4                                   | 1.7  | 4.0  | .7    | .4    |       |       |       |       |       | 7.1   | 8.3          |
| NE                     | 1.7                                  | .6   | 2.3  | 1.3   | .1    |       |       |       |       |       | 5.2   | 8.8          |
| ENE                    | .1                                   | 1.4  | 2.9  | 3.1   | .7    | .6    |       |       |       |       | 8.8   | 11.5         |
| E                      | .4                                   | 1.8  | 3.0  | 2.9   | .2    | .6    |       |       |       |       | 8.8   | 10.9         |
| ESE                    | .8                                   | .8   | 3.1  | 1.0   | .1    |       |       |       |       |       | 5.8   | 8.3          |
| SE                     | .2                                   | 1.4  | 1.0  | 1.2   | .1    |       |       |       |       |       | 3.9   | 8.6          |
| SSE                    | .4                                   | .7   | 1.5  | 1.1   |       |       |       |       |       |       | 3.7   | 8.2          |
| S                      | .5                                   | 1.7  | 3.0  | 2.7   |       |       |       |       |       |       | 7.8   | 9.3          |
| SSW                    | .1                                   | .8   | 1.7  | 1.3   | .2    |       |       |       |       |       | 4.2   | 9.5          |
| SW                     | .6                                   | 1.1  | 2.0  | 1.5   |       |       |       |       |       |       | 5.2   | 8.2          |
| WSW                    | .4                                   | 1.0  | 1.5  | 1.3   | .2    |       |       |       |       |       | 4.4   | 9.3          |
| W                      | .7                                   | 2.3  | 2.3  | 1.8   |       | .4    |       |       |       |       | 7.4   | 8.9          |
| WNW                    | .8                                   | 1.1  | 1.2  | 1.2   | .1    |       |       |       |       |       | 4.4   | 7.7          |
| NW                     | .6                                   | 1.0  | 1.3  | .6    |       | .1    |       |       |       |       | 3.6   | 8.1          |
| NNW                    | 1.2                                  | 1.7  | 1.7  |       | .2    |       |       |       |       |       | 4.9   | 6.3          |
| VARIABLE               |                                      |      | .4   |       | .2    | .1    |       |       |       |       | .7    | 14.2         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 8.4   | ////         |
| TOTALS                 | 9.4                                  | 20.1 | 35.6 | 22.0  | 2.7   | 1.8   |       |       |       |       | 100.0 | 8.2          |

TOTAL NUMBER OF OBSERVATIONS: 842

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .7                   | 1.7  | 2.3  | 1.9   |       |       |       |       |       |       | 6.5        | 8.3          |
| NNE                    | 1.2                  | 1.9  | 3.4  | 1.1   | .2    |       |       |       |       |       | 7.8        | 8.0          |
| NE                     | .1                   | 1.3  | 3.3  | 1.9   | .2    |       |       |       |       |       | 6.9        | 9.7          |
| ENE                    | .2                   | .8   | 3.8  | 3.3   | .7    | .5    |       |       |       |       | 9.4        | 11.2         |
| E                      | .6                   | 1.2  | 3.0  | 2.7   | .4    | .5    |       |       |       |       | 8.3        | 10.8         |
| ESE                    | .4                   | 1.2  | 2.5  | .8    | .1    |       |       |       |       |       | 5.0        | 8.3          |
| SE                     | 1.0                  | 1.0  | 1.4  | 1.2   |       |       |       |       |       |       | 4.5        | 7.9          |
| SSE                    | .7                   | 1.1  | 2.4  | 1.1   | .2    |       |       |       |       |       | 5.5        | 8.4          |
| S                      | .2                   | 2.1  | 3.0  | 3.0   |       |       |       |       |       |       | 8.3        | 9.5          |
| SSW                    | .1                   | 1.7  | 1.7  | 2.1   | .1    |       |       |       |       |       | 5.7        | 9.3          |
| SW                     | .4                   | .7   | 1.3  | .8    | .1    |       |       |       |       |       | 3.3        | 8.9          |
| WSW                    | .2                   | .5   | 1.1  | 1.0   |       |       |       |       |       |       | 2.7        | 9.1          |
| W                      | .6                   | 1.4  | 2.3  | 3.8   | .8    | .2    | .1    |       |       |       | 9.3        | 11.7         |
| WNW                    | .5                   | 1.0  | 1.2  | 1.2   |       |       |       |       |       |       | 3.8        | 8.8          |
| NW                     | 1.3                  | 1.4  | 1.5  | .5    |       |       |       |       |       |       | 4.8        | 6.1          |
| NNW                    | .4                   | 1.3  | .7   | .4    | .4    |       |       |       |       |       | 3.1        | 7.8          |
| VARIABLE               |                      |      | 1.5  | 1.0   |       | .1    |       |       |       |       | 2.6        | 10.8         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 2.5        | ////         |
| TOTALS                 | 8.6                  | 20.7 | 36.3 | 27.7  | 3.3   | 1.1   | .2    | .1    |       |       | 100.0      | 9.1          |

TOTAL NUMBER OF OBSERVATIONS: 842

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035961 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(EST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.1                                  | 2.1  | 1.8  | 1.0   |       |       |       |       |       |       | 6.7        | 7.0          |
| NNE                    | .7                                   | 2.5  | 3.2  | .5    | .2    |       |       |       |       |       | 7.1        | 7.4          |
| NE                     | .7                                   | 1.5  | 3.9  | 2.3   | .1    |       |       |       |       |       | 8.6        | 8.8          |
| ENE                    | 1.0                                  | 2.0  | 5.0  | 2.6   | 1.1   | .4    |       |       |       |       | 12.7       | 9.7          |
| E                      | 1.0                                  | 1.9  | 2.1  | 1.9   | .4    | .1    |       |       |       |       | 7.4        | 8.8          |
| ESE                    | .6                                   | 1.5  | 1.9  | 1.3   |       |       |       |       |       |       | 5.4        | 8.2          |
| SE                     | .7                                   | 1.0  | 1.2  | .4    |       |       |       |       |       |       | 3.2        | 6.5          |
| SSE                    | 1.2                                  | 1.9  | 2.6  | .6    |       |       |       |       |       |       | 6.3        | 6.5          |
| S                      | 1.0                                  | 1.7  | 4.8  | 2.9   | .2    |       |       |       |       |       | 10.5       | 8.9          |
| SSW                    | .6                                   | .7   | 1.7  | 1.7   |       |       |       |       |       |       | 4.6        | 9.0          |
| SW                     | .7                                   | 1.1  | 1.7  | 1.1   |       |       |       |       |       |       | 4.0        | 8.7          |
| WSW                    | .2                                   | 1.0  | .6   | .7    |       |       |       |       |       |       | 2.5        | 7.6          |
| W                      | 1.4                                  | 1.8  | 2.4  | 1.5   | .6    | .1    | .1    |       |       |       | 8.7        | 9.0          |
| WNW                    | .5                                   | 1.3  | .7   | 1.4   |       |       |       |       |       |       | 3.9        | 8.1          |
| NW                     | .6                                   | .6   | 1.3  | .5    |       |       |       |       |       |       | 3.7        | 7.0          |
| NNW                    | .8                                   | 1.0  | .8   | .4    | .2    |       |       |       |       |       | 3.2        | 6.6          |
| VARIABLE               |                                      | .1   | .1   | .2    |       | .1    |       |       |       |       | .6         | 12.6         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 3.7        | ////         |
| TOTALS                 | 12.3                                 | 23.7 | 35.8 | 27.8  | 2.9   | .7    | .1    |       |       |       | 100.0      | 8.0          |

TOTAL NUMBER OF OBSERVATIONS: 940



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87  
MONTH: FEB HOURS(1ST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.7                  | 2.6  | 1.8  | .7    |       |       |       |       |       |       | 6.8        | 6.0          |
| NNE                    | .8                   | 1.8  | 2.4  | .7    | .5    |       |       |       |       |       | 6.2        | 7.8          |
| NE                     | 1.2                  | 2.7  | 3.3  | 1.3   | .1    |       |       |       |       |       | 8.7        | 7.2          |
| ENE                    | .6                   | 1.2  | 2.7  | 2.9   | 1.2   |       |       |       |       |       | 8.6        | 10.5         |
| E                      | 1.3                  | 1.5  | 2.4  | 1.8   | .5    | .1    |       |       |       |       | 7.6        | 8.6          |
| ESE                    | .8                   | .8   | 1.0  | 1.3   | .1    |       |       |       |       |       | 4.0        | 9.1          |
| SE                     | 1.0                  | 1.0  | .8   | .7    |       |       |       |       |       |       | 3.5        | 6.1          |
| SSE                    | .6                   | 1.3  | 1.7  | .8    |       |       |       |       |       |       | 4.4        | 7.7          |
| S                      | 1.0                  | 2.0  | 3.6  | 1.6   | .2    |       |       |       |       |       | 8.6        | 8.3          |
| SSW                    | .8                   | 1.1  | 2.3  | 2.3   |       |       |       |       |       |       | 6.4        | 9.0          |
| SW                     | .8                   | .6   | 1.0  | 1.1   |       |       |       |       |       |       | 3.5        | 7.6          |
| WSW                    | .6                   | .6   | 1.1  | .5    |       |       |       |       |       |       | 2.7        | 7.1          |
| W                      | 1.4                  | 1.4  | 1.7  | 1.9   | .2    |       |       |       |       |       | 7.0        | 7.7          |
| WNW                    | .7                   | 1.8  | 1.0  | .8    | .1    |       |       |       |       |       | 4.4        | 7.2          |
| NW                     | .7                   | 1.1  | .6   | .7    |       |       |       |       |       |       | 2.6        | 5.9          |
| NNW                    | .6                   | 1.1  |      | .1    |       |       |       |       |       |       | 1.8        | 4.1          |
| VARIABLE               |                      |      | .4   |       | .1    |       |       |       |       |       | .5         | 12.0         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 17.7       | ////         |
| TOTALS                 | 14.6                 | 22.7 | 27.5 | 14.9  | 3.1   | .1    |       |       |       |       | 100.0      | 6.9          |

TOTAL NUMBER OF OBSERVATIONS: 840

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035962 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS (LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 |            |              |
| N                      | 2.6                                  | 2.3  | 1.2  | .2    | .1    |       |       | 6.4        | 5.2          |
| NNE                    | .8                                   | 1.4  | 1.3  | .7    | .7    |       |       | 5.0        | 6.6          |
| NE                     | .7                                   | 2.4  | 2.5  | .8    | .5    |       |       | 6.9        | 7.7          |
| ENE                    | .2                                   | 2.5  | 3.1  | 3.3   | .8    |       |       | 10.0       | 9.9          |
| E                      | .7                                   | 1.9  | 2.0  | 1.4   | .7    |       |       | 6.8        | 8.7          |
| ESE                    | .6                                   | 1.4  | 1.2  | 1.4   |       |       |       | 4.6        | 6.5          |
| SE                     | .8                                   | 1.1  | 1.7  | .8    |       |       |       | 4.4        | 7.1          |
| SSE                    | .7                                   | .8   | 1.8  | .1    |       |       |       | 3.5        | 6.8          |
| S                      | .5                                   | 1.1  | 2.1  | 2.4   | .2    | .1    |       | 6.4        | 9.9          |
| SSW                    | .4                                   | 1.5  | 1.9  | 2.1   | .4    |       |       | 5.3        | 9.4          |
| SW                     | .6                                   | 1.4  | 1.7  | 1.0   |       |       |       | 4.6        | 7.5          |
| WSW                    | .7                                   | 1.3  | 1.2  | 1.0   |       |       |       | 4.2        | 7.5          |
| W                      | 1.1                                  | 1.3  | 3.2  | 1.7   | .1    |       |       | 7.4        | 8.1          |
| WNW                    | .7                                   | .8   | .7   | .6    |       |       |       | 2.9        | 6.6          |
| NW                     | .4                                   | 1.4  | 1.0  |       |       |       |       | 2.7        | 6.0          |
| NNW                    | 1.1                                  | 1.2  |      | .5    |       |       |       | 2.7        | 5.7          |
| VARIABLE               |                                      |      | .2   |       |       |       |       | .2         | 9.5          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       | 14.9       | ////         |
| TOTALS                 | 12.6                                 | 23.5 | 26.8 | 15.1  | 3.6   | .1    |       | 100.0      | 6.8          |

TOTAL NUMBER OF OBSERVATIONS: 840

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |       |              |
| N                      | 1.6                  | 2.1  | 1.9  | .6    | .0    |       |       |       |       |       |       | 6.2   | 6.1          |
| NNE                    | .7                   | 1.6  | 2.3  | .9    | .4    | .3    |       |       |       |       |       | 6.7   | 8.3          |
| NE                     | .7                   | 1.6  | 3.0  | 1.2   | .1    |       |       |       |       |       |       | 6.7   | 8.1          |
| ENE                    | .4                   | 1.7  | 3.3  | 3.0   | .8    | .2    |       |       |       |       |       | 9.4   | 10.2         |
| E                      | .8                   | 1.4  | 2.4  | 2.1   | .5    | .2    |       |       |       |       |       | 7.8   | 9.5          |
| ESE                    | .6                   | 1.0  | 1.6  | .9    | .1    |       |       |       |       |       |       | 4.2   | 8.0          |
| SE                     | .8                   | 1.0  | 1.3  | .8    | .3    |       |       |       |       |       |       | 3.9   | 7.3          |
| SSE                    | .6                   | 1.0  | 2.0  | .6    | .0    |       |       |       |       |       |       | 4.3   | 7.5          |
| S                      | .8                   | 1.5  | 2.6  | 2.1   | .2    | .3    |       |       |       |       |       | 7.3   | 8.9          |
| SSW                    | .6                   | 1.2  | 1.8  | 1.7   | .2    |       |       |       |       |       |       | 5.4   | 8.9          |
| SW                     | .8                   | 1.2  | 1.7  | .9    | .0    | .1    |       |       |       |       |       | 4.7   | 7.8          |
| WSW                    | .4                   | 1.2  | 1.2  | .9    | .1    | .3    |       |       |       |       |       | 3.9   | 8.4          |
| W                      | 1.0                  | 1.7  | 2.5  | 1.8   | .3    | .1    | .0    | .0    |       |       |       | 7.4   | 8.8          |
| WNW                    | .6                   | 1.2  | 1.1  | .9    | .1    |       |       |       |       |       |       | 3.9   | 7.6          |
| NW                     | 1.0                  | 1.2  | 1.1  | .4    |       | .3    |       |       |       |       |       | 3.7   | 6.2          |
| NNW                    | 1.1                  | 1.2  | .6   | .2    | .1    |       |       |       |       |       |       | 3.3   | 5.7          |
| VARIABLE               |                      | .7   | .4   | .4    | .1    | .7    |       |       |       |       |       | .9    | 11.8         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 11.0  | ////         |
| TOTALS                 | 12.5                 | 22.4 | 30.9 | 19.3  | 3.1   | .7    | .0    | .7    |       |       |       | 103.0 | 7.4          |

TOTAL NUMBER OF OBSERVATIONS: 6727

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(151): 0000-0000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.8                                  | 1.4  | 1.4  | .2    |       |       |       |       |       |       | 4.9        | 5.3          |
| NNE                    | .4                                   | 1.0  | .8   | .5    |       |       |       |       |       |       | 2.7        | 7.0          |
| NE                     | .4                                   | 1.1  | .8   | .2    |       |       |       |       |       |       | 2.5        | 6.2          |
| NNE                    | .6                                   | .4   |      | .5    | .1    |       |       |       |       |       | 1.7        | 8.1          |
| E                      | .5                                   | .6   | .3   | .1    |       |       |       |       |       |       | 1.6        | 5.4          |
| ESE                    | .5                                   | .8   | .4   | .1    |       |       |       |       |       |       | 1.9        | 5.2          |
| SE                     | .9                                   | 1.3  | 1.2  | .5    | .2    |       |       |       |       |       | 4.1        | 7.3          |
| SSE                    | 1.0                                  | .9   | 1.1  | .4    |       |       |       |       |       |       | 3.3        | 6.3          |
| S                      | 1.1                                  | 2.6  | 1.8  | 1.7   | .3    |       |       |       |       |       | 7.6        | 6.2          |
| SSW                    | 1.8                                  | 2.3  | 3.3  | 2.9   | 1.3   | .1    |       |       |       |       | 11.8       | 9.3          |
| SW                     | .5                                   | 2.4  | 2.6  | 1.9   | .1    |       |       |       |       |       | 7.6        | 6.4          |
| WSW                    | 1.0                                  | 2.9  | 4.3  | 1.3   | .5    | .4    |       |       |       |       | 17.5       | 6.6          |
| W                      | 1.5                                  | 3.5  | 3.9  | 1.5   | .6    |       |       |       |       |       | 11.0       | 7.6          |
| WNW                    | 1.7                                  | 2.1  | .5   | .4    | .1    |       |       |       |       |       | 4.9        | 5.4          |
| NW                     | 1.3                                  | 1.6  | .5   | .2    | .4    | .1    |       |       |       |       | 4.2        | 6.7          |
| NNW                    | .2                                   | 1.0  | .5   | .1    |       |       | .1    | .1    |       |       | 2.1        | 8.8          |
| VARIABLE               | .1                                   |      | .6   | .4    | .2    |       |       |       |       |       | 1.5        | 11.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 16.3       | ////         |
| TOTALS                 | 15.6                                 | 25.7 | 24.3 | 13.3  | 4.0   | .6    | .1    | .1    |       |       | 100.0      | 6.4          |

TOTAL NUMBER OF OBSERVATIONS: 926

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAR HOURS(IST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |              |
| N                      | 1.3                                  | 1.3  | 1.3  | .3    |       | .2    |       |       |       |       | 4.4   | 6.4          |
| NNE                    | .9                                   | 1.1  | .9   | .5    |       |       |       |       |       |       | 3.3   | 6.5          |
| NE                     | .4                                   | .6   | 1.3  | .5    |       |       |       |       |       |       | 2.9   | 7.4          |
| ENE                    | .4                                   | .3   | .2   | .5    | .1    |       |       |       |       |       | 1.6   | 8.5          |
| E                      | .5                                   | .3   | .3   |       |       |       |       |       |       |       | 1.2   | 4.5          |
| ESE                    | .4                                   | .9   | 1.3  | .2    |       |       |       |       |       |       | 2.6   | 6.5          |
| SE                     | .3                                   | 1.0  | .6   | .3    |       |       |       |       |       |       | 2.3   | 6.3          |
| SSE                    | 1.5                                  | 1.3  | 1.4  | .8    |       |       |       |       |       |       | 5.0   | 6.5          |
| S                      | .6                                   | 2.5  | 2.4  | 1.5   | .5    |       |       |       |       |       | 7.6   | 8.6          |
| SSW                    | 1.0                                  | 1.1  | 3.9  | 2.5   | 1.2   | .2    |       |       |       |       | 9.8   | 10.3         |
| SW                     | 1.2                                  | 2.3  | 3.0  | 1.8   | .3    |       |       |       |       |       | 8.6   | 8.0          |
| WSW                    | 1.3                                  | 3.1  | 3.8  | 2.1   | .5    | .4    |       |       |       |       | 11.2  | 8.6          |
| W                      | 2.8                                  | 4.9  | 4.5  | 1.0   | .4    |       |       |       |       |       | 13.6  | 6.8          |
| WNW                    | 1.0                                  | 1.6  | .6   |       |       |       |       |       |       |       | 3.2   | 4.6          |
| NW                     | 1.0                                  | 1.8  | .5   | .4    | .2    |       |       |       |       |       | 4.0   | 6.3          |
| NNW                    | 1.4                                  | .6   | .8   | .1    |       |       | .1    |       |       |       | 3.0   | 5.7          |
| VARIABLE               |                                      |      | .4   | .1    |       |       |       |       |       |       | .5    | 10.4         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 14.8  | ////         |
| TOTALS                 | 16.1                                 | 24.7 | 27.3 | 12.7  | 3.3   | .9    | .1    |       |       |       | 109.0 | 6.4          |

TOTAL NUMBER OF OBSERVATIONS: 926

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF RENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(IST): 0600-0600

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.2                                  | 1.8  | 1.4  | .3    | .3    |       |       |       |       |       | 5.1        | 6.6          |
| NNE                    | .3                                   | 1.2  | 1.5  | .3    |       |       |       |       |       |       | 3.4        | 7.3          |
| NE                     | .5                                   | .4   | .8   | .8    |       |       |       |       |       |       | 2.5        | 8.0          |
| ENE                    | .9                                   | .6   | .5   | .4    | .2    |       |       |       |       |       | 2.7        | 7.2          |
| E                      | .3                                   | .5   | 1.2  | .1    |       |       |       |       |       |       | 2.2        | 6.5          |
| ESE                    | .2                                   | .6   | .9   | .1    |       |       |       |       |       |       | 1.6        | 7.1          |
| SE                     | .3                                   | 1.2  | .9   | .5    | .2    |       |       |       |       |       | 3.1        | 7.8          |
| SSE                    | 1.7                                  | 2.1  | 1.1  | .5    | .2    |       |       |       |       |       | 5.6        | 6.1          |
| S                      | 1.1                                  | 2.2  | 2.4  | 2.4   | .5    | .3    |       |       |       |       | 8.9        | 9.4          |
| SSW                    | .5                                   | 1.4  | 3.6  | 3.1   | .3    | .4    |       |       |       |       | 9.4        | 10.6         |
| SW                     | 1.3                                  | 2.4  | 3.5  | 2.6   | .3    | .1    |       |       |       |       | 10.2       | 8.7          |
| WSW                    | 1.6                                  | 3.1  | 1.7  | 1.5   | 1.1   | .1    |       |       |       |       | 9.2        | 8.5          |
| W                      | 1.9                                  | 4.5  | 4.1  | 1.9   | .2    |       |       |       |       |       | 12.8       | 7.3          |
| WNW                    | 1.1                                  | 1.6  | 1.2  | .6    |       |       |       |       |       |       | 4.5        | 6.1          |
| NW                     | 1.2                                  | 2.1  | 1.3  | .2    |       |       |       |       |       |       | 4.8        | 5.7          |
| NNW                    | .9                                   | .9   | .8   | .1    |       |       |       |       |       |       | 2.5        | 5.3          |
| VARIABLE               |                                      |      | .2   | .4    | .1    |       |       |       |       |       | .8         | 12.9         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 10.7       | ////         |
| TOTALS                 | 15.0                                 | 26.7 | 26.9 | 16.1  | 3.6   | 1.0   |       |       |       |       | 100.0      | 7.0          |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR FGURS(157): 0900-1.00

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .4                   | 1.8  | 1.6  | .5    | .2    | .2    |       |       |       |       | 4.9        | 8.4          |
| NNE                    | .5                   | 1.2  | 2.1  | .2    |       |       |       |       |       |       | 4.0        | 7.1          |
| NE                     | .2                   | .4   | 1.8  | 1.7   |       |       |       |       |       |       | 4.2        | 9.5          |
| ENE                    | .1                   | .9   | 1.1  | .9    |       |       |       |       |       |       | 2.9        | 8.5          |
| E                      | .1                   | .3   | 1.7  | .8    |       |       |       |       |       |       | 2.9        | 8.8          |
| ESE                    | .2                   | .8   | .8   | .3    | .1    |       |       |       |       |       | 2.2        | 8.0          |
| SE                     | .8                   | 1.2  | .5   | .3    | .1    |       |       |       |       |       | 2.9        | 6.2          |
| SSE                    | .3                   | 1.4  | 2.3  | 1.4   | .2    | .1    |       |       |       |       | 5.7        | 9.3          |
| S                      | .4                   | 2.3  | 2.9  | 4.1   | .9    | .4    |       |       |       |       | 11.0       | 10.7         |
| SSW                    | .4                   | .5   | 3.0  | 4.1   | .8    | .4    | .1    |       |       |       | 9.4        | 11.6         |
| SW                     | .2                   | 1.1  | 2.7  | 3.2   | .9    | .2    | .1    |       |       |       | 8.4        | 11.7         |
| WSW                    | .4                   | 1.9  | 1.8  | 2.7   | .9    | .2    |       |       |       |       | 8.0        | 10.5         |
| W                      | .5                   | 2.9  | 3.6  | 5.1   | .5    | .3    |       |       |       |       | 13.3       | 10.3         |
| WNW                    | 1.0                  | 1.5  | 1.6  | 1.3   | .1    |       |       |       |       |       | 5.5        | 8.0          |
| NW                     | .8                   | .6   | 2.6  | .9    | .1    |       |       |       |       |       | 5.0        | 7.8          |
| NNW                    | .9                   | 1.8  | 2.3  | .5    | .1    |       |       |       |       |       | 5.6        | 7.3          |
| VARIABLE               |                      |      | .9   | .6    |       | .1    |       |       |       |       | 1.6        | 12.2         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 2.6        | ////         |
| TOTALS                 | 7.4                  | 20.8 | 33.3 | 28.8  | 4.9   | 2.1   | .2    |       |       |       | 100.0      | 9.4          |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF RENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(IST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .6                   | 1.0  | 2.7  | .6    | .3    | .1    |       |       |       |       |       | 5.4        | 8.6          |
| NNE                    |                      | .6   | 1.8  | 1.4   |       |       |       |       |       |       |       | 3.9        | 9.6          |
| NE                     | .4                   | .8   | 2.3  | 1.8   |       |       |       |       |       |       |       | 5.3        | 9.3          |
| ENE                    | .3                   | .2   | 1.7  | .5    |       |       |       |       |       |       |       | 2.8        | 8.3          |
| E                      |                      | 1.4  | 2.2  | .4    |       |       |       |       |       |       |       | 4.0        | 7.7          |
| ESE                    | .3                   | .5   | .6   | .8    |       |       |       |       |       |       |       | 2.3        | 6.5          |
| SE                     | .5                   | 1.6  | 1.5  | .8    | .2    |       |       |       |       |       |       | 4.7        | 7.5          |
| SSE                    | .4                   | 1.1  | 3.2  | 2.1   | .2    |       |       |       |       |       |       | 7.0        | 9.2          |
| S                      | .3                   | 2.2  | 4.0  | 3.4   | .6    | .1    |       |       |       |       |       | 10.6       | 10.0         |
| SSW                    |                      | 1.1  | 2.5  | 4.4   | 1.0   | .1    |       | .2    |       |       |       | 9.3        | 12.4         |
| SW                     | .2                   | .6   | 1.6  | 3.6   | .4    | .5    | .3    | .1    |       |       |       | 7.5        | 13.6         |
| WSW                    |                      | .5   | 1.6  | 3.4   | 1.0   | .3    |       |       |       |       |       | 6.8        | 13.1         |
| W                      | .3                   | 1.7  | 3.6  | 5.7   | .5    | .3    |       |       |       |       |       | 12.2       | 10.9         |
| WNW                    | .3                   | .9   | 2.3  | .8    | .3    | .1    |       |       |       |       |       | 4.7        | 9.7          |
| NW                     | .4                   | 1.5  | 1.8  | 1.7   | .5    |       |       |       |       |       |       | 6.1        | 9.3          |
| NNW                    | .8                   | 1.0  | 2.3  | .9    |       |       |       |       |       |       |       | 4.0        | 7.8          |
| VARIABLE               |                      |      | .6   | .9    | .1    | .1    |       |       |       |       |       | 1.7        | 12.9         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | .9         | ////         |
| TOTALS                 | 5.1                  | 16.8 | 36.5 | 33.1  | 5.3   | 1.7   | .3    | .3    |       |       |       | 107.0      | 10.1         |

TOTAL NUMBER OF OBSERVATIONS: 924



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .2                   | 1.2  | 2.9  | 1.3   | .2    |       |       |       |       |       |       | 5.8        | 9.2          |
| NNE                    | .3                   | 1.1  | 2.5  | 1.2   |       |       |       |       |       |       |       | 5.1        | 8.4          |
| NE                     | .3                   | .5   | 2.4  | .9    |       |       |       |       |       |       |       | 4.1        | 8.6          |
| ENE                    | .1                   | 1.0  | 1.1  | .5    |       |       |       |       |       |       |       | 2.7        | 7.8          |
| E                      | .5                   | 1.1  | 2.5  | .2    |       |       |       |       |       |       |       | 4.3        | 7.0          |
| ESE                    | .8                   | .6   | .8   | .6    |       |       |       |       |       |       |       | 2.9        | 7.4          |
| SE                     | .6                   | 2.3  | 1.0  | .9    |       |       |       |       |       |       |       | 4.8        | 7.0          |
| SSE                    | .4                   | 2.4  | 3.7  | .8    |       |       |       |       |       |       |       | 7.2        | 7.3          |
| S                      | .8                   | 3.0  | 3.9  | 2.6   | .4    |       |       |       |       |       |       | 10.7       | 8.5          |
| SSW                    | .2                   | 1.3  | 3.5  | 5.0   | 1.0   | .1    |       |       |       |       |       | 11.0       | 11.3         |
| SW                     | .6                   | .9   | 1.5  | 2.7   | .2    | .2    | .2    |       |       |       |       | 6.4        | 11.6         |
| WSW                    | .5                   | .2   | 1.7  | 3.4   | .9    | .3    |       |       |       |       |       | 7.0        | 12.4         |
| W                      | .4                   | 1.8  | 4.9  | 4.1   | .9    | .3    |       | .1    |       |       |       | 12.5       | 11.0         |
| WNW                    | .9                   | 1.0  | 1.0  | 1.3   | .3    |       |       |       |       |       |       | 4.4        | 8.6          |
| NW                     | 1.0                  | .6   | 1.0  | .5    | .1    |       |       |       |       |       |       | 3.2        | 6.8          |
| NNW                    | .5                   | 1.7  | 2.1  | .6    | .1    | .2    |       |       |       |       |       | 5.3        | 8.0          |
| VARIABLE               |                      |      | .1   | .8    |       |       |       |       |       |       |       | .9         | 13.9         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 1.5        | ////         |
| TOTALS                 | 8.3                  | 20.8 | 36.3 | 27.5  | 4.1   | 1.2   | .2    | .1    |       |       |       | 100.0      | 9.2          |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 |            |              |
| N                      | 1.2                                  | 3.5  | 1.9  | .8    | .2    |       |       | 7.6        | 6.6          |
| NNE                    | .3                                   | 2.0  | 2.3  | .4    |       |       |       | 5.1        | 7.1          |
| NE                     | .1                                   | .9   | 1.5  | 1.1   |       |       |       | 3.6        | 6.9          |
| NNE                    | .4                                   | 1.2  | .4   |       |       |       |       | 2.0        | 5.3          |
| E                      | 1.5                                  | 1.4  | .5   | .2    |       |       |       | 3.7        | 4.7          |
| ESE                    | .6                                   | 1.0  | .9   | .5    |       |       |       | 3.0        | 7.2          |
| SE                     | 1.2                                  | 1.8  | .9   | .9    |       |       |       | 4.7        | 6.2          |
| SSE                    | 1.5                                  | 1.8  | 1.3  | .1    |       |       |       | 4.7        | 5.2          |
| S                      | 1.7                                  | 4.7  | 3.6  | 1.7   |       |       |       | 11.9       | 6.8          |
| SSW                    | 1.0                                  | 1.7  | 4.0  | 3.9   | .8    |       |       | 11.3       | 9.8          |
| SW                     | .3                                   | 2.4  | 2.2  | 3.5   | .3    |       |       | 8.6        | 9.5          |
| WSW                    | 1.4                                  | 1.5  | 2.2  | 2.6   | .2    | .4    |       | 8.3        | 9.5          |
| W                      | .9                                   | 2.4  | 3.6  | 1.7   | .5    |       |       | 9.1        | 8.6          |
| WNW                    | 1.1                                  | 1.1  | .9   | .3    | .1    | .1    |       | 3.5        | 6.8          |
| NW                     | .8                                   | .5   | .3   | .1    | .1    |       |       | 1.8        | 5.6          |
| NNW                    | .9                                   | .6   | .5   | .3    | .1    | .1    |       | 2.6        | 6.8          |
| VARIABLE               |                                      |      |      | .4    |       |       |       | .4         | 14.8         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       | 8.2        | ////         |
| TOTALS                 | 14.9                                 | 28.6 | 26.8 | 18.6  | 2.4   | .6    |       | 100.0      | 7.1          |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 74-87  
MONTH: MAR HOURS(IST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.5                                  | 2.6  | .9   | .8    |       |       |       |       |       |       |       | 5.7        | 5.9          |
| NNE                    | .9                                   | 1.3  | 1.7  | .5    |       |       |       |       |       |       |       | 4.4        | 6.7          |
| NE                     | .2                                   | 1.0  | 1.3  | .3    |       |       |       |       |       |       |       | 2.8        | 7.2          |
| ENE                    | .3                                   | .4   | .4   | .4    | .1    |       |       |       |       |       |       | 1.7        | 9.0          |
| E                      | .3                                   | 1.4  | .6   | .1    |       |       |       |       |       |       |       | 2.5        | 5.9          |
| ESE                    | .3                                   | .9   | .3   |       | .1    |       |       |       |       |       |       | 1.6        | 5.6          |
| SE                     | 1.0                                  | .6   | .9   | 1.0   | .2    |       |       |       |       |       |       | 3.7        | 7.6          |
| SSE                    | 1.2                                  | 1.2  | 1.3  | 1.0   |       |       |       |       |       |       |       | 4.6        | 6.9          |
| S                      | 1.9                                  | 2.8  | 2.4  | 1.9   | .1    |       |       |       |       |       |       | 9.2        | 7.4          |
| SSW                    | 1.9                                  | 1.6  | 3.1  | 3.5   | .5    | .1    |       |       |       |       |       | 10.9       | 9.3          |
| SW                     | 1.3                                  | 3.1  | 3.3  | 2.9   | .3    |       |       |       |       |       |       | 11.7       | 8.3          |
| WSW                    | 1.4                                  | 2.4  | 2.2  | 2.4   | .8    | .3    |       |       |       |       |       | 9.4        | 9.3          |
| W                      | 2.3                                  | 2.6  | 2.6  | 2.5   | .2    |       |       |       |       |       |       | 10.1       | 7.5          |
| WNW                    | 1.7                                  | 1.3  | .8   | .4    |       |       |       |       |       |       |       | 3.5        | 6.2          |
| NW                     | 1.2                                  | 1.0  | .5   |       | .2    | .3    | .1    |       |       |       |       | 3.3        | 8.0          |
| NNW                    | .6                                   | .9   | .3   |       |       |       |       |       |       |       |       | 1.8        | 4.2          |
| VARIABLE               |                                      |      |      | .2    |       |       |       |       |       |       |       | .7         | 14.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 13.6       | ////         |
| TOTALS                 | 17.4                                 | 25.0 | 22.7 | 17.9  | 2.6   | .8    | .1    |       |       |       |       | 100.0      | 6.7          |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.0                                  | 1.8  | 1.8  | .6    | .2    | .1    |       |       |       |       | 5.5        | 7.1          |
| NNE                    | .5                                   | 1.2  | 1.7  | .6    |       |       |       |       |       |       | 4.0        | 7.5          |
| NE                     | .3                                   | .7   | 1.5  | .9    |       |       |       |       |       |       | 3.5        | 8.4          |
| ENE                    | .4                                   | .6   | .7   | .5    | .1    |       |       |       |       |       | 2.3        | 7.8          |
| E                      | .5                                   | .9   | 1.2  | .2    |       |       |       |       |       |       | 2.8        | 6.6          |
| ESE                    | .4                                   | .8   | .7   | .4    | .0    |       |       |       |       |       | 2.3        | 7.0          |
| SE                     | .7                                   | 1.4  | .9   | .6    | .1    |       |       |       |       |       | 3.8        | 7.0          |
| SSE                    | 1.0                                  | 1.5  | 1.9  | .9    | .1    | .0    |       |       |       |       | 5.4        | 7.3          |
| S                      | 1.0                                  | 2.8  | 2.9  | 2.4   | .4    | .1    |       |       |       |       | 9.7        | 8.7          |
| SSW                    | .9                                   | 1.4  | 3.4  | 3.7   | .9    | .2    | .0    | .0    |       |       | 10.4       | 10.5         |
| SW                     | .7                                   | 1.9  | 2.6  | 2.8   | .4    | .1    | .1    | .0    |       |       | 8.5        | 9.8          |
| WSW                    | 1.0                                  | 2.0  | 2.4  | 2.4   | .7    | .3    |       |       |       |       | 8.8        | 9.8          |
| W                      | 1.3                                  | 3.0  | 3.8  | 2.9   | .5    | .1    |       | .0    |       |       | 11.8       | 8.8          |
| WNW                    | 1.0                                  | 1.4  | 1.1  | .6    | .1    | .0    |       |       |       |       | 4.3        | 7.1          |
| NW                     | .9                                   | 1.2  | 1.1  | .5    | .2    | .1    | .0    |       |       |       | 4.1        | 7.2          |
| NNW                    | .8                                   | 1.1  | 1.2  | .3    | .0    | .0    | .0    | .0    |       |       | 3.5        | 7.0          |
| VARIABLE               | .0                                   |      | .4   | .5    | .1    | .7    |       |       |       |       | 1.0        | 12.4         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 8.6        | ////         |
| TOTALS                 | 12.5                                 | 23.6 | 29.3 | 21.0  | 3.8   | 1.1   | .1    | .1    |       |       | 100.0      | 7.8          |

TOTAL NUMBER OF OBSERVATIONS: 7404

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(IST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 3.3                                  | 3.3  | 1.7  | .7    |       |       |       |       |       |       | 9.0        | 5.2          |
| NNE                    | 2.0                                  | 1.0  | 2.0  | 1.1   |       |       |       |       |       |       | 6.1        | 6.8          |
| NE                     | .6                                   | 1.0  | 2.3  | .7    |       |       |       |       |       |       | 4.6        | 7.6          |
| ENE                    | .1                                   | 1.0  | 1.1  | .1    |       |       |       |       |       |       | 2.3        | 7.3          |
| E                      | .3                                   | .9   | .4   | .7    |       |       |       |       |       |       | 2.3        | 7.6          |
| ESE                    | .3                                   | 1.2  | .7   | .3    |       |       |       |       |       |       | 2.6        | 6.8          |
| SE                     | 1.0                                  | .9   | .3   | .1    |       |       |       |       |       |       | 2.3        | 4.3          |
| SSE                    | .7                                   | 1.6  | 1.0  | .4    |       |       |       |       |       |       | 3.7        | 6.3          |
| S                      | 1.6                                  | 2.6  | 1.1  | .2    |       |       |       |       |       |       | 5.4        | 5.0          |
| SSW                    | 1.0                                  | 1.4  | 1.4  | 1.1   |       |       |       |       |       |       | 5.0        | 7.0          |
| SW                     | .9                                   | 3.4  | 2.3  | .4    |       |       |       |       |       |       | 7.1        | 6.1          |
| WSW                    | 1.0                                  | 1.9  | 1.1  | .6    |       |       |       |       |       |       | 4.6        | 6.0          |
| W                      | 2.6                                  | 2.8  | 2.2  | .1    | .1    |       |       |       |       |       | 7.8        | 5.3          |
| WNW                    | 2.3                                  | 2.1  | 1.1  | .3    | .3    |       |       |       |       |       | 6.2        | 5.5          |
| NW                     | 1.0                                  | 1.7  | 1.2  |       |       |       |       |       |       |       | 3.9        | 5.1          |
| NNW                    | 2.6                                  | 2.4  | 1.6  | .4    |       |       |       |       |       |       | 7.0        | 5.1          |
| VARIABLE               |                                      |      | .8   |       |       |       |       |       |       |       | .8         | 9.9          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 19.3       | ////         |
| TOTALS                 | 21.2                                 | 29.2 | 22.4 | 7.3   | .4    |       |       |       |       |       | 100.0      | 4.8          |

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS (LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 2.3                                  | 2.8  | 2.1  | .3    | .1    |       |       |       |       |       | 7.7        | 5.7          |
| NNE                    | 2.0                                  | 2.4  | 1.9  | .7    | .3    |       |       |       |       |       | 7.3        | 6.9          |
| NE                     | .9                                   | .8   | 2.0  | .7    |       |       |       |       |       |       | 4.3        | 7.3          |
| ENE                    | .2                                   | .7   | .8   |       |       |       |       |       |       |       | 1.7        | 6.7          |
| E                      | .2                                   | .9   | .6   | .3    |       |       |       |       |       |       | 2.0        | 6.9          |
| ESE                    | .7                                   | 1.0  | .9   |       |       |       |       |       |       |       | 2.6        | 5.8          |
| SE                     | .6                                   | 1.0  | .2   | .1    |       |       |       |       |       |       | 1.9        | 4.8          |
| SSE                    | .7                                   | 1.7  | .9   |       |       |       |       |       |       |       | 3.2        | 5.4          |
| S                      | 1.8                                  | 2.6  | .8   | .1    |       |       |       |       |       |       | 5.2        | 4.8          |
| SSW                    | .6                                   | 2.1  | 1.9  | .3    | .1    |       |       |       |       |       | 5.0        | 6.8          |
| SW                     | 1.0                                  | 1.9  | 1.0  | .9    |       |       |       |       |       |       | 4.8        | 6.8          |
| WSW                    | 1.2                                  | 1.1  | .9   | .2    |       |       |       |       |       |       | 3.4        | 5.2          |
| W                      | 3.1                                  | 3.2  | 2.3  | 1.1   |       |       |       |       |       |       | 9.8        | 5.7          |
| WNW                    | 3.0                                  | 2.6  | .9   | .2    | .3    |       |       |       |       |       | 7.0        | 5.0          |
| NW                     | 2.7                                  | 2.2  | .9   |       |       |       |       |       |       |       | 5.8        | 4.1          |
| NNW                    | 1.4                                  | 3.0  | 1.8  | .8    |       |       |       |       |       |       | 7.0        | 6.1          |
| VARIABLE               |                                      |      | 1.1  | .3    |       |       |       |       |       |       | 1.4        | 9.6          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 19.9       | ////         |
| TOTALS                 | 22.7                                 | 29.9 | 20.9 | 6.1   | .9    |       |       |       |       |       | 100.0      | 4.7          |

TOTAL NUMBER OF OBSERVATIONS: 940

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(IST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.6                  | 4.4  | 4.1  | .9    |       |       |       |       |       |       |       | 12.0       | 6.2          |
| NNE                    | .7                   | 1.9  | 2.7  | 1.2   | .1    |       |       |       |       |       |       | 6.6        | 7.9          |
| NE                     |                      | .8   | 2.7  | 1.1   |       |       |       |       |       |       |       | 4.6        | 9.0          |
| ENE                    | .7                   | .8   | 1.1  | .4    |       |       |       |       |       |       |       | 3.0        | 7.0          |
| E                      | .6                   | .3   | 1.4  | .9    |       |       |       |       |       |       |       | 3.2        | 8.0          |
| ESE                    | .6                   | 1.0  | .9   | .1    |       |       |       |       |       |       |       | 2.6        | 5.7          |
| SE                     | 1.2                  | 1.1  | .7   | .2    |       |       |       |       |       |       |       | 3.2        | 5.2          |
| SSE                    | 1.7                  | 1.1  | 1.9  | .3    |       |       |       |       |       |       |       | 5.0        | 5.8          |
| S                      | 1.9                  | 1.3  | 2.3  | .9    |       |       |       |       |       |       |       | 6.4        | 6.6          |
| SSW                    | .7                   | .8   | 1.8  | .8    |       |       |       |       |       |       |       | 4.0        | 7.9          |
| SW                     | .9                   | .7   | 1.8  | .8    | .1    |       |       |       |       |       |       | 4.2        | 7.7          |
| WSW                    | .6                   | 1.2  | 1.1  | .7    |       |       |       |       |       |       |       | 3.6        | 6.9          |
| W                      | 1.3                  | 3.4  | 2.0  | .7    |       |       |       |       |       |       |       | 7.4        | 6.1          |
| WNW                    | 1.6                  | 2.6  | 2.0  | .8    | .1    |       |       |       |       |       |       | 7.0        | 6.5          |
| NW                     | 1.3                  | 3.2  | 2.1  | .1    |       |       |       |       |       |       |       | 6.8        | 5.8          |
| NNW                    | 1.8                  | 2.0  | 2.1  | .7    | .1    |       |       |       |       |       |       | 6.7        | 6.4          |
| VARIABLE               |                      |      | .8   | .2    |       |       |       |       |       |       |       | 1.0        | 10.0         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 12.8       | ////         |
| TOTALS                 | 17.9                 | 26.7 | 31.4 | 10.8  | .4    |       |       |       |       |       |       | 100.0      | 5.9          |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: Q35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.0                                  | 3.6  | 6.9  | 2.4   | .1    |       |       |       |       |       |       | 14.0       | 8.0          |
| NNE                    | 1.2                                  | 2.3  | 2.8  | 2.6   | .2    |       |       |       |       |       |       | 9.1        | 8.6          |
| NE                     | .4                                   | .8   | 2.4  | 2.2   |       |       |       |       |       |       |       | 5.9        | 9.6          |
| NNE                    | .2                                   | .7   | 2.0  | 1.4   |       |       |       |       |       |       |       | 4.3        | 9.1          |
| E                      | .1                                   | 1.0  | 1.3  | .9    |       |       |       |       |       |       |       | 3.3        | 8.3          |
| ESE                    | .6                                   | .9   | .9   | .2    |       |       |       |       |       |       |       | 2.6        | 6.4          |
| SE                     | 1.0                                  | 1.8  | 1.6  | .9    |       |       |       |       |       |       |       | 5.2        | 7.1          |
| SSE                    | 1.1                                  | 2.3  | 2.2  | 1.0   | .1    |       |       |       |       |       |       | 6.8        | 7.3          |
| S                      | .3                                   | 2.0  | 2.8  | 2.0   |       |       |       |       |       |       |       | 7.1        | 8.6          |
| SSW                    | .1                                   | 1.1  | 2.1  | 1.2   | .2    |       |       |       |       |       |       | 4.8        | 9.1          |
| SW                     | .7                                   | 1.0  | 1.7  | .4    |       |       |       |       |       |       |       | 3.8        | 6.8          |
| WSW                    | .4                                   | .6   | 1.3  | 1.0   | .1    |       |       |       |       |       |       | 3.4        | 8.8          |
| W                      | .7                                   | 2.2  | 3.4  | 1.8   |       |       |       |       |       |       |       | 8.1        | 8.3          |
| WNW                    | 1.1                                  | 1.6  | 1.8  | 1.0   |       |       |       |       |       |       |       | 5.4        | 7.0          |
| NW                     | .4                                   | 1.8  | 2.7  | .2    | .1    |       |       |       |       |       |       | 5.2        | 7.1          |
| NNW                    | .4                                   | 1.0  | 2.3  | 1.0   | .2    | .1    |       |       |       |       |       | 5.1        | 8.8          |
| VARIABLE               |                                      |      | 2.0  | 1.3   |       |       |       |       |       |       |       | 3.3        | 10.3         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 2.4        | ////         |
| TOTALS                 | 9.9                                  | 24.6 | 40.2 | 21.7  | 1.1   | .1    |       |       |       |       |       | 100.0      | 8.0          |

TOTAL NUMBER OF OBSERVATIONS: 900



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS (LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .8                                   | 2.8  | 5.6  | 2.6   | .1    |       |       |       |       |       | 11.8       | 6.5          |
| NNE                    | .3                                   | .8   | 3.1  | 1.9   | .4    | .1    |       |       |       |       | 6.7        | 10.2         |
| NE                     | .1                                   | .8   | 3.2  | 2.8   | .1    |       |       |       |       |       | 7.0        | 10.1         |
| ENE                    | .3                                   | 1.3  | 2.0  | 1.6   | .1    |       |       |       |       |       | 5.3        | 8.8          |
| E                      | .3                                   | 1.8  | 1.8  | 1.0   |       |       |       |       |       |       | 4.9        | 7.6          |
| ESE                    | .2                                   | 1.3  | 1.7  | .7    |       |       |       |       |       |       | 3.9        | 7.6          |
| SE                     | 1.0                                  | 2.7  | 1.9  | .6    |       |       |       |       |       |       | 6.1        | 6.3          |
| SSE                    | .4                                   | 3.3  | 4.2  | 1.7   | .1    |       |       |       |       |       | 9.8        | 7.8          |
| S                      | .1                                   | 1.7  | 4.3  | 2.7   | .2    | .1    |       |       |       |       | 9.1        | 9.9          |
| SSW                    | .3                                   | .7   | 1.4  | 1.1   | .4    |       |       |       |       |       | 4.0        | 9.7          |
| SW                     | .1                                   | .1   | 1.1  | .4    | .1    |       |       |       |       |       | 1.9        | 9.8          |
| WSW                    | .2                                   | .4   | 1.8  | .9    | .1    |       |       |       |       |       | 3.4        | 9.4          |
| W                      | .2                                   | 2.3  | 3.1  | 1.8   | .2    |       |       |       |       |       | 7.7        | 8.7          |
| WNW                    | .3                                   | 1.0  | 1.8  | 1.0   |       |       |       |       |       |       | 4.1        | 8.2          |
| NW                     | .4                                   | 1.2  | 1.9  | .3    |       |       |       |       |       |       | 3.9        | 6.9          |
| NNW                    | .9                                   | 1.4  | 2.2  | .7    | .6    |       |       |       |       |       | 5.7        | 8.2          |
| VARIABLE               | .1                                   | .1   | 2.9  | 1.0   |       |       |       |       |       |       | 4.1        | 9.4          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | .7         | ////         |
| TOTALS                 | 6.2                                  | 23.9 | 44.0 | 22.6  | 2.6   | .2    |       |       |       |       | 100.0      | 8.6          |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .8                                   | 2.1  | 5.6  | 2.6   | .1    |       |       |       |       |       | 11.1       | 8.7          |
| NNE                    | .3                                   | .7   | 2.3  | 1.8   | .7    |       |       |       |       |       | 5.8        | 10.6         |
| NE                     | .6                                   | .7   | 3.3  | 4.0   |       |       |       |       |       |       | 8.6        | 10.0         |
| ENE                    | .6                                   | 2.1  | 2.2  | 1.6   | .1    |       |       |       |       |       | 6.6        | 8.2          |
| E                      | .9                                   | 2.0  | 3.4  | 1.1   |       |       |       |       |       |       | 7.4        | 7.4          |
| ESE                    | .8                                   | 1.8  | 1.7  | .2    |       |       |       |       |       |       | 4.4        | 6.3          |
| SE                     | 1.1                                  | 2.9  | 1.7  | .1    |       |       |       |       |       |       | 5.8        | 5.5          |
| SSE                    | 1.1                                  | 4.7  | 3.3  | .9    |       |       |       |       |       |       | 10.0       | 6.6          |
| S                      | .8                                   | 1.2  | 4.1  | 3.2   | .2    |       |       |       |       |       | 9.6        | 9.2          |
| SSW                    | .1                                   | .9   | 1.9  | 1.2   | .2    |       |       |       |       |       | 4.3        | 9.5          |
| SW                     | .1                                   | .2   | .7   | .3    | .2    |       |       |       |       |       | 1.6        | 10.1         |
| WSW                    |                                      | .7   | 1.6  | .9    |       |       |       |       |       |       | 3.1        | 8.9          |
| W                      | .2                                   | 1.7  | 2.7  | 1.2   | .1    |       |       |       |       |       | 5.9        | 8.4          |
| WNW                    | .6                                   | 1.6  | 2.2  | .4    |       |       |       |       |       |       | 4.8        | 7.0          |
| NW                     | .4                                   | .6   | 1.4  |       |       |       |       |       |       |       | 2.4        | 6.9          |
| NNW                    | .4                                   | 1.0  | 2.2  | 1.1   | .1    |       |       |       |       |       | 4.9        | 8.5          |
| VARIABLE               |                                      | .1   | 2.0  | .2    | .3    |       |       |       |       |       | 2.7        | 10.5         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 1.1        | ////         |
| TOTALS                 | 8.8                                  | 24.8 | 42.3 | 20.9  | 2.1   |       |       |       |       |       | 100.0      | 8.2          |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 1800-2600

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 2.0                                  | 4.6  | 5.0  | 1.1   | .2    | .1    |       |       |       |       | 13.0       | 6.9          |
| NNE                    | 1.4                                  | 2.7  | 2.7  | 2.0   | .2    |       | .1    |       |       |       | 9.1        | 8.1          |
| NE                     | .6                                   | 2.6  | 3.7  | 1.7   |       |       |       |       |       |       | 5.4        | 7.8          |
| ENE                    | 1.7                                  | 1.4  | 2.1  | .1    |       |       |       |       |       |       | 5.0        | 6.2          |
| E                      | 1.9                                  | 1.3  | 1.3  | .8    |       |       |       |       |       |       | 5.3        | 5.8          |
| ESE                    | 1.6                                  | .9   | .6   |       |       |       |       |       |       |       | 3.0        | 3.9          |
| SE                     | 2.9                                  | 1.6  | .4   |       |       |       |       |       |       |       | 4.9        | 3.6          |
| SSE                    | 2.7                                  | 3.2  | 1.4  | .3    |       |       |       |       |       |       | 7.7        | 4.9          |
| S                      | 2.3                                  | 2.4  | 2.4  | .9    |       |       |       |       |       |       | 8.1        | 6.3          |
| SSW                    | .8                                   | .9   | 2.6  | 1.0   | .2    |       |       |       |       |       | 5.4        | 6.4          |
| SW                     | .8                                   | .9   | 1.3  | .2    |       |       |       |       |       |       | 3.2        | 6.4          |
| WSW                    | .4                                   | 1.1  | 1.0  | .3    |       |       |       |       |       |       | 2.9        | 6.8          |
| W                      | 1.4                                  | 2.6  | 1.6  | .3    |       |       |       |       |       |       | 5.9        | 5.8          |
| WNW                    | .8                                   | 1.0  | .3   | .4    |       |       |       |       |       |       | 2.6        | 6.2          |
| NW                     | .9                                   | 1.3  | .4   | .2    |       |       |       |       |       |       | 2.9        | 5.0          |
| NNW                    | 1.1                                  | 1.4  | 1.7  | .3    |       |       |       |       |       |       | 4.6        | 6.4          |
| VARIABLE               |                                      |      | .1   | .2    |       |       |       |       |       |       | .3         | 12.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 7.7        | ////         |
| TOTALS                 | 22.9                                 | 29.9 | 28.7 | 10.0  | .7    | .1    | .1    |       |       |       | 100.0      | 5.9          |

TOTAL NUMBER OF OBSERVATIONS: 920

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS (LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.9                                  | 4.9  | 1.7  | 1.0   |       |       |       |       |       |       |       | 9.4        | 5.7          |
| NNE                    | 1.3                                  | 2.8  | 2.9  | 1.2   | .1    |       |       |       |       |       |       | 8.3        | 7.4          |
| NE                     | .8                                   | 2.3  | 3.1  | 1.0   | .1    |       |       |       |       |       |       | 7.4        | 7.7          |
| ENE                    | .2                                   | .2   | .9   | .6    |       |       |       |       |       |       |       | 1.9        | 8.6          |
| E                      | .9                                   | 1.0  | 1.4  | .9    |       |       |       |       |       |       |       | 4.2        | 7.0          |
| ESE                    | .8                                   | .7   | .3   | .3    |       |       |       |       |       |       |       | 2.1        | 5.5          |
| SE                     | .9                                   | .7   | .2   | .2    |       |       |       |       |       |       |       | 2.0        | 4.9          |
| SSE                    | 1.7                                  | 2.4  | .3   | .3    |       |       |       |       |       |       |       | 4.8        | 4.6          |
| S                      | 2.2                                  | 3.3  | 1.8  | .3    |       |       |       |       |       |       |       | 7.7        | 5.3          |
| SSW                    | .9                                   | .9   | 2.1  | 1.1   |       |       |       |       |       |       |       | 5.0        | 7.8          |
| SW                     | 1.7                                  | 2.0  | 1.8  | .7    |       |       |       |       |       |       |       | 6.1        | 6.0          |
| WSW                    | 1.2                                  | 2.8  | .9   |       | .1    |       |       |       |       |       |       | 5.0        | 5.1          |
| W                      | 2.3                                  | 2.9  | 1.6  | .2    |       |       |       |       |       |       |       | 7.0        | 4.8          |
| WNW                    | 1.1                                  | 1.7  | .3   | .1    | .2    |       |       |       |       |       |       | 3.4        | 5.3          |
| NW                     | 1.6                                  | 2.0  | .8   | .1    | .1    |       |       |       |       |       |       | 4.6        | 5.0          |
| NNW                    | 1.9                                  | 1.0  | 1.1  | .4    |       |       |       |       |       |       |       | 4.4        | 5.1          |
| VARIABLE               |                                      |      | .2   | .1    |       |       |       |       |       |       |       | .3         | 10.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 16.3       | ////         |
| TOTALS                 | 21.3                                 | 31.6 | 21.4 | 6.7   | .7    |       |       |       |       |       |       | 100.0      | 5.0          |

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 79-87  
MONTH: APR HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.8                                  | 3.6  | 4.1  | 1.4   | .1    | .0    |       |       |       |       | 11.0       | 7.0          |
| NNE                    | 1.2                                  | 1.8  | 2.5  | 1.6   | .3    | .0    | .0    |       |       |       | 7.4        | 8.2          |
| NE                     | .5                                   | 1.2  | 2.8  | 1.8   | .0    |       |       |       |       |       | 6.3        | 8.7          |
| ENE                    | .5                                   | 1.0  | 1.5  | .7    | .0    |       |       |       |       |       | 3.6        | 7.8          |
| E                      | .7                                   | 1.2  | 1.5  | .8    |       |       |       |       |       |       | 4.1        | 7.3          |
| ESE                    | .7                                   | 1.1  | .9   | .2    |       |       |       |       |       |       | 3.0        | 6.1          |
| SE                     | 1.2                                  | 1.6  | .9   | .3    |       |       |       |       |       |       | 3.9        | 5.4          |
| SSE                    | 1.2                                  | 2.5  | 1.9  | .6    | .0    |       |       |       |       |       | 6.4        | 6.3          |
| S                      | 1.4                                  | 2.1  | 2.5  | 1.3   | .1    | .0    |       |       |       |       | 7.4        | 7.3          |
| SSW                    | .6                                   | 1.1  | 1.9  | 1.0   | .2    |       |       |       |       |       | 4.7        | 8.2          |
| SW                     | .8                                   | 1.3  | 1.5  | .5    | .1    |       |       |       |       |       | 4.1        | 6.9          |
| WSW                    | .6                                   | 1.2  | 1.2  | .6    | .0    |       |       |       |       |       | 3.7        | 7.0          |
| W                      | 1.5                                  | 2.6  | 2.4  | .9    | .1    |       |       |       |       |       | 7.4        | 6.6          |
| WNW                    | 1.3                                  | 1.7  | 1.3  | .5    | .1    |       |       |       |       |       | 5.1        | 6.3          |
| NW                     | 1.1                                  | 1.7  | 1.4  | .1    | .0    |       |       |       |       |       | 4.4        | 5.7          |
| NNW                    | 1.3                                  | 1.7  | 1.9  | .7    | .1    | .0    |       |       |       |       | 5.7        | 6.8          |
| VARIABLE               | .0                                   | .0   | 1.2  | .4    | .0    |       |       |       |       |       | 1.7        | 10.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 10.0       | ////         |
| TOTALS                 | 16.3                                 | 27.5 | 31.4 | 13.5  | 1.1   | .1    | .0    |       |       |       | 100.0      | 6.4          |

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(IST): 0000-0100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 2.9                                  | 4.3  | 2.6  | .4    |       |       |       |       |       |       | 10.2       | 5.2          |
| NNE                    | 1.8                                  | 2.4  | 1.4  | .1    |       |       |       |       |       |       | 5.7        | 4.8          |
| NE                     | 1.6                                  | 1.2  | 1.0  | .1    |       |       |       |       |       |       | 3.9        | 4.8          |
| ENE                    | .3                                   | .9   | 1.0  | .5    |       |       |       |       |       |       | 2.7        | 7.6          |
| E                      | 1.0                                  | 1.0  | 1.1  | .3    |       |       |       |       |       |       | 3.3        | 5.9          |
| ESE                    | .6                                   | .6   | .4   | .8    |       |       |       |       |       |       | 2.5        | 7.4          |
| SE                     | .5                                   | .4   | .1   | .3    |       |       |       |       |       |       | 1.4        | 5.9          |
| SSE                    | .8                                   | .8   | .2   | .2    |       |       |       |       |       |       | 1.9        | 4.9          |
| S                      | 1.7                                  | 1.6  | 1.4  | 1.0   |       |       |       |       |       |       | 5.7        | 6.5          |
| SSW                    | 1.1                                  | 4.1  | 3.1  | .4    |       |       |       |       |       |       | 8.7        | 6.4          |
| SW                     | 1.3                                  | 3.0  | 2.6  | 1.3   |       |       |       |       |       |       | 8.2        | 7.0          |
| WSW                    | 1.0                                  | 1.2  | 1.6  | .1    |       |       |       |       |       |       | 3.9        | 6.0          |
| W                      | 1.5                                  | 2.7  | 1.5  | .2    |       |       |       |       |       |       | 5.9        | 5.0          |
| WNW                    | 1.0                                  | 1.0  | .8   |       |       |       |       |       |       |       | 2.7        | 4.7          |
| NW                     | 1.1                                  | 2.3  | .9   | .3    |       |       |       |       |       |       | 4.5        | 5.5          |
| NNW                    | 1.2                                  | 2.0  | 2.3  | .6    |       |       |       |       |       |       | 6.1        | 6.5          |
| VARIABLE               |                                      |      | .1   |       |       |       |       |       |       |       | .1         | 8.0          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 22.3       | ////         |
| TOTALS                 | 19.4                                 | 29.4 | 22.0 | 6.8   |       |       |       |       |       |       | 100.0      | 4.6          |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 74-87  
MONTH: MAY HOURS(IST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 3.0                                  | 4.5  | 3.5  | .5    |       |       |       |       |       |       | 11.5       | 5.5          |
| NNE                    | 1.5                                  | 2.4  | 1.9  | .1    |       |       |       |       |       |       | 5.9        | 5.4          |
| NE                     | 1.3                                  | .6   | .8   | .1    |       |       |       |       |       |       | 2.8        | 4.8          |
| ENE                    | 1.1                                  | .9   | .6   | .5    |       |       |       |       |       |       | 3.1        | 6.0          |
| E                      | .8                                   | .8   | .6   | .3    |       |       |       |       |       |       | 2.5        | 5.5          |
| ESE                    | 1.0                                  | .5   | 1.1  | .3    |       |       |       |       |       |       | 2.9        | 6.2          |
| SE                     | 1.0                                  | .6   | .3   | .1    |       |       |       |       |       |       | 2.0        | 4.8          |
| SSE                    | 1.0                                  | 1.0  | .5   |       |       |       |       |       |       |       | 2.5        | 4.3          |
| S                      | .9                                   | 2.0  | 1.7  | .8    |       |       |       |       |       |       | 5.4        | 6.8          |
| SSW                    | 1.3                                  | 1.9  | 2.8  | .3    |       |       |       |       |       |       | 6.4        | 6.4          |
| SW                     | .8                                   | 3.0  | 3.2  | 1.3   |       |       |       |       |       |       | 8.3        | 7.3          |
| WSW                    | 1.4                                  | 2.9  | 1.0  | .1    |       |       |       |       |       |       | 5.4        | 5.1          |
| W                      | .9                                   | 1.7  | 1.1  | .2    |       |       |       |       |       |       | 3.9        | 5.7          |
| WNW                    | 1.3                                  | 1.8  | 1.2  |       |       |       |       |       |       |       | 4.3        | 5.2          |
| NW                     | 1.3                                  | 1.0  | 1.6  | .2    |       |       |       |       |       |       | 4.1        | 5.4          |
| NNW                    | 1.1                                  | 2.6  | 3.2  | .6    | .2    |       |       |       |       |       | 7.8        | 6.9          |
| VARIABLE               |                                      |      | .2   | .1    |       |       |       |       |       |       | .3         | 10.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 27.8       | ////         |
| TOTALS                 | 19.4                                 | 28.4 | 25.5 | 5.7   | .2    |       |       |       |       |       | 100.0      | 4.7          |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87  
MONTH: MAY HOURS(IST): 0600-0600

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |       |              |
| N                      | 1.9                                  | 3.8  | 4.8  | 1.4   |       |       |       |       |       |       |       | 11.9  | 6.9          |
| NNE                    | 1.3                                  | 2.2  | 2.7  | .3    |       |       |       |       |       |       |       | 6.5   | 6.4          |
| NE                     | 1.2                                  | 1.3  | 2.5  | 1.3   | .1    |       |       |       |       |       |       | 6.4   | 7.7          |
| ENE                    | 1.0                                  | 1.3  | 1.5  | .8    |       |       |       |       |       |       |       | 4.5   | 7.0          |
| E                      | .6                                   | 1.1  | 1.4  | .2    |       |       |       |       |       |       |       | 3.4   | 6.3          |
| ESE                    | .5                                   | .8   | 1.1  | .4    |       |       |       |       |       |       |       | 2.8   | 7.1          |
| SE                     | .3                                   | 1.1  | 1.4  | .1    |       |       |       |       |       |       |       | 2.9   | 6.7          |
| SSE                    | .9                                   | 1.3  | 1.6  | .3    |       |       |       |       |       |       |       | 4.1   | 6.3          |
| S                      | .9                                   | 1.3  | 2.4  | 1.7   |       |       |       |       |       |       |       | 6.3   | 8.1          |
| SSW                    | .9                                   | 1.7  | 2.2  | 1.3   | .1    |       |       |       |       |       |       | 6.2   | 7.8          |
| SW                     | .5                                   | 1.2  | 2.6  | 2.4   | .3    |       |       |       |       |       |       | 7.0   | 9.4          |
| WSW                    | .5                                   | 1.4  | 2.1  | 1.0   | .2    | .1    |       |       |       |       |       | 5.3   | 8.4          |
| W                      | .3                                   | 2.1  | 1.9  | .6    |       |       |       |       |       |       |       | 5.7   | 7.4          |
| WNW                    | .6                                   | 2.4  | .9   |       |       |       |       |       |       |       |       | 3.9   | 5.3          |
| NW                     | 1.3                                  | 2.1  | 2.4  | .3    |       |       |       |       |       |       |       | 6.1   | 6.3          |
| NNW                    | 1.3                                  | 2.2  | 2.5  | 1.5   | .2    |       |       |       |       |       |       | 7.7   | 7.7          |
| VARIABLE               |                                      |      | .4   | .3    |       |       |       |       |       |       |       | .8    | 17.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 9.4   | ////         |
| TOTALS                 | 14.2                                 | 27.0 | 34.3 | 14.1  | 1.0   | .1    |       |       |       |       |       | 100.0 | 6.6          |

TOTAL NUMBER OF OBSERVATIONS: 925



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(IST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .6                                   | 1.0  | 4.8  | 3.1   |       |       |       |       |       |       |       | 9.5        | 9.6          |
| NNE                    | .4                                   | 2.2  | 3.2  | .8    | .1    |       |       |       |       |       |       | 6.7        | 7.8          |
| NE                     | .6                                   | 1.7  | 3.0  | 1.5   | .5    |       |       |       |       |       |       | 7.5        | 8.7          |
| ENE                    | .6                                   | 1.8  | 2.1  | 1.3   | .1    |       |       |       |       |       |       | 6.0        | 8.3          |
| E                      | .6                                   | .9   | 2.1  | .6    |       |       |       |       |       |       |       | 4.2        | 7.7          |
| ESE                    | .6                                   | 1.0  | 1.6  | .9    |       |       |       |       |       |       |       | 4.1        | 7.9          |
| SE                     | .5                                   | 1.0  | 1.4  | .1    |       |       |       |       |       |       |       | 3.0        | 6.5          |
| SSE                    | .4                                   | 1.5  | 4.2  | .8    | .1    |       |       |       |       |       |       | 7.0        | 8.0          |
| S                      | .8                                   | 1.5  | 2.8  | 3.0   | .5    |       |       |       |       |       |       | 8.7        | 9.6          |
| SSW                    | .2                                   | 1.0  | 1.4  | 2.8   | .5    | .1    |       |       |       |       |       | 5.1        | 11.1         |
| SW                     | .4                                   | 1.5  | 1.2  | 2.3   | .3    |       |       |       |       |       |       | 5.7        | 9.9          |
| WSW                    | .1                                   | .9   | 1.6  | 1.5   | .3    |       |       |       |       |       |       | 4.4        | 10.2         |
| W                      | .5                                   | 1.7  | 2.7  | 1.5   | .2    |       |       |       |       |       |       | 6.7        | 8.5          |
| WNW                    | .6                                   | .9   | .9   |       |       |       |       |       |       |       |       | 2.4        | 5.7          |
| NW                     | .3                                   | 1.7  | 1.7  | 1.1   |       |       |       |       |       |       |       | 4.9        | 7.8          |
| NNW                    | .9                                   | 1.8  | 2.4  | 1.8   | .3    | .1    |       |       |       |       |       | 7.4        | 6.9          |
| VARIABLE               |                                      |      | 2.6  | .9    |       |       |       |       |       |       |       | 3.5        | 13.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 2.3        | ////         |
| TOTALS                 | 8.5                                  | 22.1 | 39.7 | 24.7  | 3.1   | .2    |       |       |       |       |       | 100.0      | 8.6          |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-8T  
MONTH: MAY HOURS(IST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .4                                   | 1.2  | 2.9  | 3.2   | .3    |       |       |       |       |       | 8.2        | 10.1         |
| NNE                    |                                      | .6   | 1.5  | 1.7   |       |       |       |       |       |       | 3.9        | 10.1         |
| NE                     | .6                                   | 1.9  | 4.3  | 1.6   | .3    |       |       |       |       |       | 8.9        | 8.6          |
| ENE                    | .5                                   | 1.9  | 3.2  | 1.6   | .6    |       |       |       |       |       | 7.9        | 9.1          |
| E                      | .1                                   | 1.2  | 2.5  | 1.7   | .1    |       |       |       |       |       | 5.6        | 9.8          |
| ESE                    | .3                                   | .6   | .8   | .6    |       |       |       |       |       |       | 2.4        | 8.2          |
| SE                     | .2                                   | 1.2  | 1.7  | .4    |       |       |       |       |       |       | 3.6        | 7.4          |
| SSE                    | .6                                   | 2.4  | 7.0  | 1.4   |       |       |       |       |       |       | 11.5       | 8.2          |
| S                      | .3                                   | 1.1  | 5.2  | 4.5   | .4    |       |       |       |       |       | 11.6       | 17.4         |
| SSW                    | .2                                   | .5   | 1.6  | 1.8   | 1.0   | .2    |       |       |       |       | 5.4        | 12.5         |
| SW                     |                                      | .4   | 1.4  | 1.7   | 1.0   |       |       |       |       |       | 4.5        | 12.4         |
| WSW                    |                                      | .6   | 1.2  | 1.1   | .4    |       |       |       |       |       | 3.4        | 10.7         |
| W                      | .3                                   | 1.3  | 1.9  | 1.5   | .3    |       |       |       |       |       | 5.4        | 9.3          |
| WNW                    | .4                                   | 1.0  | 1.1  | .4    |       | .1    |       |       |       |       | 3.0        | 7.6          |
| NW                     | .3                                   | 1.3  | 1.2  | .4    |       |       |       |       |       |       | 3.2        | 7.0          |
| NNW                    | .2                                   | 1.2  | 2.7  | 1.7   | .2    |       |       |       |       |       | 6.1        | 9.5          |
| VARIABLE               |                                      | .2   | 3.1  | 1.0   | .1    |       |       |       |       |       | 4.4        | 9.9          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 1.2        | ////         |
| TOTALS                 | 4.8                                  | 18.7 | 43.5 | 26.7  | 4.9   | .3    |       |       |       |       | 100.0      | 9.4          |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 79-87  
MONTH: MAY HOURS(UT): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .5                                   | .9   | 4.0  | 3.1   | .3    | .1    |       |       |       |       | 9.0        | 10.1         |
| NNE                    | .3                                   | .5   | 3.4  | 2.2   | .1    |       |       |       |       |       | 6.5        | 9.9          |
| NE                     | .5                                   | .9   | 3.9  | 1.9   | .1    |       |       |       |       |       | 7.4        | 9.2          |
| ENE                    | .5                                   | 1.5  | 3.5  | 1.6   |       |       |       |       |       |       | 7.1        | 8.4          |
| E                      | .5                                   | 1.9  | 3.6  | 1.6   | .1    |       |       |       |       |       | 7.8        | 8.1          |
| ESE                    | .1                                   | 1.3  | 2.1  | .2    |       |       |       |       |       |       | 3.7        | 7.4          |
| SE                     | 1.0                                  | 1.2  | 2.3  | .1    |       |       |       |       |       |       | 4.5        | 6.6          |
| SSE                    | .3                                   | 3.0  | 4.0  | 1.1   |       |       |       |       |       |       | 8.4        | 7.5          |
| S                      | .4                                   | 2.8  | 6.0  | 4.1   | .2    | .1    |       |       |       |       | 13.6       | 9.1          |
| SSW                    | .1                                   | 1.0  | 2.2  | 2.9   | .6    | .1    |       |       |       |       | 6.9        | 11.6         |
| SW                     | .1                                   | .4   | 2.9  | 1.6   | .9    |       |       |       |       |       | 6.0        | 11.3         |
| WSW                    | .3                                   | .5   | 1.8  | .9    | .1    | .1    |       |       |       |       | 3.8        | 9.2          |
| W                      | .1                                   | 1.0  | .5   | 1.3   |       |       |       |       |       |       | 2.9        | 9.3          |
| WNW                    | .1                                   | 1.1  | .5   | .3    |       |       |       |       |       |       | 2.1        | 6.9          |
| NW                     | .6                                   | .4   | .8   | .1    |       |       |       |       |       |       | 1.9        | 5.2          |
| NNW                    | .1                                   | .8   | 2.3  | 1.5   |       |       |       |       |       |       | 4.7        | 9.4          |
| VARIABLE               |                                      |      | 1.5  | 1.2   |       |       |       |       |       |       | 2.7        | 10.6         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 1.0        | ////         |
| TOTALS                 | 5.8                                  | 19.7 | 45.1 | 25.9  | 2.5   | .4    |       |       |       |       | 100.0      | 9.0          |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-A7  
MONTH: MAY HOURS(LST): 1800-2400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .9                                   | 3.5  | 4.4  | 1.5   |       |       |       |       |       |       |       | 10.3       | 7.5          |
| NNE                    | 1.1                                  | 2.7  | 3.4  | 1.1   |       |       |       |       |       |       |       | 9.2        | 7.2          |
| NE                     | 2.1                                  | 3.8  | 1.9  | 1.5   |       |       |       |       |       |       |       | 9.3        | 6.5          |
| ENE                    | 1.0                                  | 2.2  | 2.6  | .4    |       |       |       |       |       |       |       | 6.4        | 6.5          |
| E                      | 1.0                                  | 1.3  | 2.0  | .9    |       |       |       |       |       |       |       | 5.5        | 6.9          |
| ESE                    | .8                                   | 1.1  | .3   |       |       |       |       |       |       |       |       | 2.2        | 4.2          |
| SE                     | 1.4                                  | 1.1  | .6   | .4    |       |       |       |       |       |       |       | 3.6        | 5.2          |
| SSE                    | 1.2                                  | 2.9  | 2.3  | .3    |       |       |       |       |       |       |       | 6.7        | 6.0          |
| S                      | 1.4                                  | 4.2  | 5.4  | .5    |       |       |       |       |       |       |       | 11.6       | 6.6          |
| SSW                    | .8                                   | 2.1  | 4.7  | 1.5   | .4    |       |       |       |       |       |       | 9.4        | 8.6          |
| SW                     | .3                                   | 1.1  | 2.3  | 1.6   | .3    |       |       |       |       |       |       | 5.6        | 9.7          |
| WSW                    | .5                                   | .4   | .8   | .4    |       |       |       |       |       |       |       | 2.2        | 6.6          |
| W                      | 1.0                                  | .8   | 1.3  | .5    | .1    |       |       |       |       |       |       | 3.7        | 7.1          |
| WNW                    | .4                                   | .9   | .6   | .1    |       |       |       |       |       |       |       | 2.1        | 5.9          |
| NW                     | .8                                   | .3   | .2   |       |       |       |       |       |       |       |       | 1.8        | 5.2          |
| NNW                    | .6                                   | 1.1  | 1.9  | 1.1   |       |       |       |       |       |       |       | 4.8        | 8.1          |
| VARIABLE               |                                      | .1   | 1.0  | .2    | .1    |       |       |       |       |       |       | 1.4        | 10.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 4.9        | ////         |
| TOTALS                 | 15.2                                 | 30.1 | 36.7 | 12.2  | 1.0   |       |       |       |       |       |       | 100.0      | 6.7          |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 79-87  
MONTH: MAY HOURS(IST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 2.7                  | 4.3  | 3.0  | 1.2   |       |       |       |       |       |       | 11.2       | 6.2          |
| NNE                    | 2.2                  | 2.7  | 1.5  | .2    |       |       |       |       |       |       | 6.6        | 5.0          |
| NE                     | 2.6                  | 1.5  | 1.7  | .9    |       |       |       |       |       |       | 6.7        | 5.5          |
| ENE                    | 1.0                  | 1.0  | .3   | .2    |       |       |       |       |       |       | 2.5        | 4.7          |
| E                      | 2.4                  | 1.2  | .5   | 1.2   |       |       |       |       |       |       | 5.3        | 5.6          |
| ESE                    | 1.1                  | .4   |      | .8    |       |       |       |       |       |       | 2.3        | 6.2          |
| SE                     | 1.3                  | 1.1  | .1   |       |       |       |       |       |       |       | 2.5        | 3.3          |
| SSE                    | .8                   | 1.4  | .6   | .2    |       |       |       |       |       |       | 3.0        | 5.7          |
| S                      | 1.7                  | 3.0  | 3.0  | .5    | .1    |       |       |       |       |       | 8.4        | 6.2          |
| SSW                    | 1.3                  | 3.6  | 3.3  | 1.4   |       |       |       |       |       |       | 9.6        | 7.0          |
| SW                     | 1.3                  | 1.4  | 3.1  | 1.2   |       |       |       |       |       |       | 7.0        | 7.4          |
| WSW                    | 1.0                  | 1.1  | .8   | .2    | .1    |       |       |       |       |       | 3.1        | 6.0          |
| W                      | 1.3                  | 1.0  | .5   | .3    |       |       |       |       |       |       | 3.1        | 5.1          |
| WNW                    | 1.2                  | .5   | .2   | .3    |       |       |       |       |       |       | 2.3        | 4.9          |
| NW                     | .4                   | .5   | 1.6  |       |       |       |       |       |       |       | 2.6        | 6.1          |
| NNW                    | 1.1                  | 1.6  | 1.3  | .5    |       |       |       |       |       |       | 4.5        | 6.3          |
| VARIABLE               |                      |      | .1   |       |       |       |       |       |       |       | .1         | 8.0          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 19.2       | ////         |
| TOTALS                 | 27.2                 | 26.3 | 21.9 | 9.2   | .2    |       |       |       |       |       | 100.0      | 4.8          |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(151): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.6                                  | 2.9  | 3.7  | 1.8   | .1    | .0    |       |       |       |       | 10.2       | 7.4          |
| NNE                    | 1.1                                  | 2.0  | 2.4  | .8    | .0    |       |       |       |       |       | 6.3        | 7.0          |
| NE                     | 1.3                                  | 1.6  | 2.4  | 1.1   | .1    |       |       |       |       |       | 6.6        | 7.3          |
| ENE                    | .8                                   | 1.5  | 1.9  | .9    | .1    |       |       |       |       |       | 5.1        | 7.6          |
| E                      | .9                                   | 1.2  | 1.8  | .9    | .0    |       |       |       |       |       | 4.7        | 7.2          |
| ESE                    | .6                                   | .8   | .9   | .5    |       |       |       |       |       |       | 2.9        | 6.9          |
| SE                     | .8                                   | 1.0  | 1.0  | .2    |       |       |       |       |       |       | 2.9        | 6.0          |
| SSE                    | .7                                   | 1.8  | 2.6  | .5    | .0    |       |       |       |       |       | 5.6        | 7.0          |
| S                      | 1.0                                  | 2.2  | 3.5  | 2.0   | .2    | .0    |       |       |       |       | 8.9        | 8.2          |
| SSW                    | .7                                   | 2.0  | 2.7  | 1.6   | .3    | .1    |       |       |       |       | 7.3        | 8.6          |
| SW                     | .6                                   | 1.5  | 2.4  | 1.7   | .4    |       |       |       |       |       | 6.6        | 9.0          |
| WSW                    | .6                                   | 1.1  | 1.4  | .7    | .1    | .0    |       |       |       |       | 3.9        | 7.8          |
| W                      | .7                                   | 1.5  | 1.4  | .8    | .1    |       |       |       |       |       | 4.6        | 7.3          |
| WNW                    | .7                                   | 1.2  | .8   | .1    |       | .0    |       |       |       |       | 2.8        | 5.7          |
| NW                     | .8                                   | 1.2  | 1.4  | .3    |       |       |       |       |       |       | 3.6        | 6.2          |
| NNW                    | .8                                   | 1.7  | 2.3  | 1.2   | .1    | .0    |       |       |       |       | 6.1        | 7.9          |
| VARIABLE               |                                      | .0   | 1.1  | .5    | .0    |       |       |       |       |       | 1.7        | 10.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 17.1       | ////         |
| TOTALS                 | 13.8                                 | 25.2 | 33.6 | 15.6  | 1.6   | .1    |       |       |       |       | 100.0      | 6.8          |

TOTAL NUMBER OF OBSERVATIONS: 7403

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(1ST): 0000-0100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .5                   | 2.5  | 1.1  |       |       |       |       |       |       |       | 4.7        | 5.2          |
| NNE                    | .4                   | 1.9  | .9   | .2    |       |       |       |       |       |       | 3.5        | 5.7          |
| NE                     | .7                   | 1.7  | 1.9  | .3    |       |       |       |       |       |       | 4.6        | 6.4          |
| ENE                    | .7                   | 1.7  | .4   | .1    |       |       |       |       |       |       | 2.9        | 5.1          |
| E                      | 1.2                  | 1.0  | .9   | .4    |       |       |       |       |       |       | 3.6        | 5.9          |
| ESE                    | .4                   | .1   | .2   | .1    |       |       |       |       |       |       | .9         | 5.4          |
| SE                     | 1.0                  | .1   |      |       |       |       |       |       |       |       | 1.1        | 2.3          |
| SSE                    | 1.8                  | .4   | .1   |       |       |       |       |       |       |       | 2.3        | 2.8          |
| S                      | 1.4                  | .6   | .8   | .3    |       |       |       |       |       |       | 3.1        | 5.5          |
| SSW                    | 1.0                  | 1.4  | 1.7  | 1.0   |       |       |       |       |       |       | 5.1        | 7.1          |
| SW                     | 1.7                  | 2.1  | 2.9  | 1.1   | .1    |       |       |       |       |       | 7.9        | 6.6          |
| WSW                    | 2.1                  | 4.3  | 2.8  | .2    |       |       |       |       |       |       | 9.5        | 5.6          |
| W                      | 2.9                  | 5.2  | 3.3  | .6    |       |       |       |       |       |       | 12.0       | 5.4          |
| WNW                    | 2.2                  | 2.7  | 1.0  |       |       |       |       |       |       |       | 5.9        | 4.5          |
| NW                     | 1.7                  | .9   | .7   | .3    |       |       |       |       |       |       | 3.6        | 4.8          |
| NNW                    | 2.0                  | 1.6  | .4   | .6    | .1    |       |       |       |       |       | 4.7        | 5.3          |
| VARIABLE               |                      |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 24.6       | ////         |
| TOTALS                 | 22.1                 | 28.5 | 19.2 | 5.4   | .2    |       |       |       |       |       | 100.0      | 4.2          |

TOTAL NUMBER OF OBSERVATIONS: 857

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF RENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-87  
MONTH: JUN HOURS (LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.4                  | 3.0  | 1.8  |       |       |       |       |       |       |       |       | 6.2        | 5.1          |
| NNE                    | 1.1                  | 1.3  | 1.0  |       |       |       |       |       |       |       |       | 3.4        | 4.9          |
| NE                     | .9                   | 1.3  | 1.3  | .1    |       |       |       |       |       |       |       | 3.7        | 5.8          |
| ENE                    | 1.3                  | 1.9  | .6   | .6    |       |       |       |       |       |       |       | 4.3        | 5.4          |
| E                      | 1.1                  | .7   | .4   | .3    |       |       |       |       |       |       |       | 2.5        | 5.7          |
| ESE                    | .6                   | .4   | .8   |       |       |       |       |       |       |       |       | 1.8        | 5.6          |
| SE                     | .4                   | .1   | .1   |       |       |       |       |       |       |       |       | .7         | 3.7          |
| SSE                    | .7                   | .2   | .3   | .1    |       |       |       |       |       |       |       | 1.3        | 5.0          |
| S                      | 1.4                  | .6   | .3   | .2    |       |       |       |       |       |       |       | 2.5        | 4.4          |
| SSW                    | .9                   | 1.0  | 1.8  | .8    |       |       |       |       |       |       |       | 4.4        | 7.2          |
| SW                     | 1.6                  | 1.4  | 2.7  | .3    |       |       |       |       |       |       |       | 6.0        | 6.1          |
| WSW                    | 1.9                  | 3.9  | 4.2  | .8    |       |       |       |       |       |       |       | 17.8       | 6.3          |
| W                      | 3.4                  | 6.0  | 3.8  | .9    |       |       |       |       |       |       |       | 14.1       | 5.5          |
| WNW                    | 2.9                  | 2.2  | 1.7  | .1    |       |       |       |       |       |       |       | 6.9        | 4.7          |
| NW                     | 1.4                  | 1.0  | 1.0  | .2    |       |       |       |       |       |       |       | 4.6        | 5.4          |
| NNW                    | 1.6                  | 1.8  | 1.3  | .6    |       |       |       |       |       |       |       | 5.2        | 6.1          |
| VARIABLE               |                      |      | .1   |       |       |       |       |       |       |       |       | .1         | 7.0          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 21.2       | ////         |
| TOTALS                 | 22.7                 | 27.9 | 23.2 | 5.0   |       |       |       |       |       |       |       | 100.0      | 4.4          |

TOTAL NUMBER OF OBSERVATIONS: 899



GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS (LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.1                                  | 2.3  | 3.8  | .2    |       |       |       |       |       |       |       | 8.5        | 5.9          |
| NNE                    | .9                                   | 1.8  | 1.1  | .2    |       |       |       |       |       |       |       | 4.0        | 5.6          |
| NE                     | .7                                   | 1.2  | 2.0  | .6    |       |       |       |       |       |       |       | 4.5        | 7.3          |
| ENE                    | .3                                   | 1.4  | 1.4  | .4    |       |       |       |       |       |       |       | 3.7        | 7.2          |
| E                      | .6                                   | .7   | 2.3  |       |       |       |       |       |       |       |       | 3.6        | 6.4          |
| ESE                    | 1.0                                  | .6   | .8   | .1    |       |       |       |       |       |       |       | 2.4        | 5.5          |
| SE                     | .8                                   | .7   | .2   |       |       |       |       |       |       |       |       | 1.7        | 4.4          |
| SSE                    | .3                                   | .7   | .6   |       |       |       |       |       |       |       |       | 1.6        | 5.5          |
| S                      | .9                                   | 1.1  | 1.4  | .4    |       |       |       |       |       |       |       | 3.9        | 6.4          |
| SSW                    | .7                                   | .2   | 2.0  | .8    |       |       |       |       |       |       |       | 3.7        | 8.3          |
| SW                     | 1.4                                  | 1.6  | 3.3  | 1.2   |       |       |       |       |       |       |       | 7.6        | 7.3          |
| WSW                    | 1.4                                  | 2.2  | 2.8  | 1.4   |       |       |       |       |       |       |       | 7.9        | 7.1          |
| W                      | 1.8                                  | 4.8  | 6.2  | 1.7   |       |       |       |       |       |       |       | 14.5       | 7.2          |
| WNW                    | 2.1                                  | 3.0  | 3.9  | .4    |       |       |       |       |       |       |       | 9.5        | 6.1          |
| NW                     | .9                                   | 2.8  | 2.4  | .9    |       |       |       |       |       |       |       | 7.0        | 7.0          |
| NNW                    | 1.9                                  | 2.2  | 2.1  | .3    |       |       |       |       |       |       |       | 6.6        | 5.7          |
| VARIABLE               |                                      |      | 1.1  |       |       |       |       |       |       |       |       | 1.1        | 6.6          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 8.5        | ////         |
| TOTALS                 | 17.8                                 | 27.7 | 37.6 | 8.8   |       |       |       |       |       |       |       | 100.0      | 6.1          |

TOTAL NUMBER OF OBSERVATIONS: 898

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.1                                  | 2.0  | 2.6  | 1.7   |       |       |       |       |       |       | 7.3        | 7.6          |
| NNE                    | .4                                   | 1.4  | 1.9  | .2    |       |       |       |       |       |       | 4.0        | 6.8          |
| NE                     | .2                                   | .9   | 1.9  | .7    |       |       |       |       |       |       | 3.7        | 8.1          |
| ENE                    | .7                                   | 1.1  | 2.4  | .6    |       |       |       |       |       |       | 4.8        | 7.3          |
| E                      | .3                                   | 1.3  | 2.0  | .2    |       |       |       |       |       |       | 3.9        | 7.4          |
| ESE                    | .3                                   | .9   | .8   | .2    |       |       |       |       |       |       | 2.2        | 6.9          |
| SE                     | .3                                   | 1.9  | .6   | .1    |       |       |       |       |       |       | 2.9        | 5.6          |
| SSE                    | 1.2                                  | 2.4  | 1.7  | .3    |       |       |       |       |       |       | 5.7        | 5.7          |
| S                      | .9                                   | 1.1  | 1.7  | 1.4   | .1    |       |       |       |       |       | 5.2        | 8.1          |
| SSW                    | .3                                   | 1.3  | 2.3  | 1.4   |       |       |       |       |       |       | 5.5        | 8.8          |
| SW                     | .3                                   | 1.4  | 3.4  | 2.0   | .1    |       |       |       |       |       | 7.3        | 9.0          |
| WSW                    | .4                                   | 1.9  | 4.1  | 1.2   | .1    |       |       |       |       |       | 7.8        | 8.5          |
| W                      | 1.0                                  | 3.0  | 4.1  | 3.6   | .1    |       |       |       |       |       | 11.8       | 8.7          |
| WNW                    | 1.0                                  | 1.6  | 3.3  | .9    | .1    |       |       |       |       |       | 6.9        | 7.4          |
| NW                     | 1.0                                  | 2.1  | 3.2  | .8    |       |       |       |       |       |       | 7.1        | 6.9          |
| NNW                    | .8                                   | 1.6  | 2.7  | 1.1   |       |       |       |       |       |       | 6.1        | 7.6          |
| VARIABLE               | .2                                   | .2   | 3.3  | .7    |       |       |       |       |       |       | 4.4        | 8.4          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 3.3        | ////         |
| TOTALS                 | 10.7                                 | 26.3 | 42.0 | 17.1  | .6    |       |       |       |       |       | 100.0      | 7.5          |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: C35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(IST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .4                   | 1.1  | 2.1  | 1.2   |       |       |       |       |       |       | 4.9        | 8.5          |
| NNE                    | .2                   | .8   | .9   | .4    |       |       |       |       |       |       | 2.3        | 7.7          |
| NE                     | .2                   | .9   | 2.6  | .7    |       |       |       |       |       |       | 4.3        | 8.3          |
| ENE                    |                      | 1.2  | 2.9  | 1.1   |       |       |       |       |       |       | 5.2        | 8.5          |
| E                      | .3                   | 1.7  | 1.9  | 1.0   |       |       |       |       |       |       | 4.9        | 7.8          |
| ESE                    | .4                   | 1.3  | .9   | .3    |       |       |       |       |       |       | 3.0        | 6.6          |
| SE                     | .7                   | 1.2  | 1.7  | .2    |       |       |       |       |       |       | 3.8        | 6.2          |
| SSE                    | .4                   | 3.1  | 4.7  | .6    |       |       |       |       |       |       | 8.8        | 7.0          |
| S                      | .3                   | 1.6  | 4.9  | 2.2   | .1    |       |       |       |       |       | 9.1        | 8.9          |
| SSW                    | .4                   | .6   | 1.9  | 2.6   | .3    |       |       |       |       |       | 5.8        | 10.5         |
| SW                     |                      | 1.0  | 2.7  | 2.4   | .2    |       |       |       |       |       | 6.3        | 10.2         |
| WSW                    | .1                   | .6   | 2.7  | 1.9   |       |       |       |       |       |       | 5.2        | 9.4          |
| W                      | .4                   | 1.8  | 4.2  | 4.2   | .1    |       |       |       |       |       | 10.8       | 9.7          |
| WNW                    | 1.1                  | 2.9  | 3.1  | .9    |       |       |       |       |       |       | 8.0        | 6.7          |
| NW                     | .7                   | 2.3  | 2.7  | .8    |       |       |       |       |       |       | 6.4        | 7.1          |
| NNW                    | .4                   | 1.6  | 2.3  | 1.2   | .2    |       |       |       |       |       | 5.8        | 8.6          |
| VARIABLE               |                      |      | 3.4  | .7    | .1    |       |       |       |       |       | 4.2        | 9.2          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 1.1        | ////         |
| TOTALS                 | 6.3                  | 23.6 | 45.4 | 22.4  | 1.1   |       |       |       |       |       | 100.0      | 8.3          |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87  
MONTH: JUN HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .8                                   | 2.0  | 2.7  | 1.0   |       |       |       |       |       |       | 6.5        | 7.4          |
| NNE                    | .6                                   | .9   | 2.7  | .8    |       |       |       |       |       |       | 4.9        | 8.1          |
| NE                     | .2                                   | 1.6  | 2.4  | .4    |       |       |       |       |       |       | 4.7        | 7.3          |
| ENE                    | .3                                   | 1.9  | 2.7  | 1.0   |       |       |       |       |       |       | 5.9        | 7.8          |
| E                      | .9                                   | 2.3  | 3.1  | .3    |       |       |       |       |       |       | 6.7        | 6.5          |
| ESE                    | .3                                   | 2.2  | .9   | .2    |       |       |       |       |       |       | 3.7        | 6.0          |
| SE                     | .6                                   | 2.9  | 1.6  |       |       |       |       |       |       |       | 5.0        | 5.7          |
| SSE                    | .3                                   | 4.0  | 4.4  | .4    |       |       |       |       |       |       | 9.2        | 6.7          |
| S                      | .6                                   | 2.3  | 5.6  | 1.2   |       |       |       |       |       |       | 9.7        | 7.9          |
| SSW                    | .1                                   | .9   | 1.7  | 2.8   | .2    |       |       |       |       |       | 5.7        | 10.5         |
| SW                     | .3                                   | .8   | 2.6  | 2.0   | .2    |       |       |       |       |       | 5.9        | 9.9          |
| WSW                    | .3                                   | .4   | 2.9  | 1.2   | .1    |       |       |       |       |       | 5.0        | 9.4          |
| W                      | .4                                   | 1.9  | 5.6  | 3.3   | .1    |       |       |       |       |       | 11.3       | 9.2          |
| WNW                    | .8                                   | 1.4  | 3.1  | .3    |       |       |       |       |       |       | 5.7        | 7.0          |
| NW                     | .3                                   | 1.3  | .8   | .6    |       |       |       |       |       |       | 3.0        | 7.3          |
| NNW                    | .2                                   | .9   | 2.3  | .9    |       |       |       |       |       |       | 4.3        | 8.7          |
| VARIABLE               |                                      |      | 1.9  | .2    |       |       |       |       |       |       | 2.1        | 8.8          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | .8         | ////         |
| TOTALS                 | 7.1                                  | 27.8 | 46.8 | 16.8  | .7    |       |       |       |       |       | 100.0      | 7.9          |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-87  
MONTH: JUN HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | 56-59 |            |              |
| N                      | 1.3                  | 2.7  | 2.6  | .7    |       |       |       |       |       |       |       | 7.2        | 6.3          |
| NNE                    | .8                   | 1.8  | 2.6  | .8    |       |       |       |       |       |       |       | 5.9        | 7.2          |
| NE                     | .3                   | 2.1  | 2.2  | .4    |       |       |       |       |       |       |       | 5.1        | 7.0          |
| ENE                    | 1.1                  | 2.3  | 1.4  | .1    |       |       |       |       |       |       |       | 5.0        | 5.4          |
| E                      | 1.8                  | 3.2  | .9   | .2    |       |       |       |       |       |       |       | 6.1        | 4.9          |
| ESE                    | 1.9                  | 2.7  | .4   |       |       |       |       |       |       |       |       | 5.0        | 4.0          |
| SE                     | 2.6                  | 2.2  |      | .1    |       |       |       |       |       |       |       | 4.9        | 3.7          |
| SSE                    | 1.8                  | 3.6  | 1.4  | .1    |       |       |       |       |       |       |       | 6.9        | 4.9          |
| S                      | 1.7                  | 2.6  | 2.0  | .2    |       |       |       |       |       |       |       | 6.5        | 5.6          |
| SSW                    | .9                   | 2.7  | 3.1  | 1.2   | .1    |       |       |       |       |       |       | 8.0        | 7.6          |
| SW                     | .7                   | 1.9  | 2.4  | 1.1   |       |       |       |       |       |       |       | 6.1        | 7.6          |
| WSW                    | 1.2                  | 2.1  | 3.2  | 1.0   |       |       |       |       |       |       |       | 7.6        | 6.9          |
| W                      | 1.4                  | 2.3  | 3.0  | .8    |       |       |       |       |       |       |       | 7.6        | 6.5          |
| WNW                    | 1.4                  | 2.2  | 1.7  | .3    |       |       |       |       |       |       |       | 5.7        | 5.6          |
| NW                     | .7                   | .6   | 1.0  | .2    |       |       |       |       |       |       |       | 2.4        | 6.8          |
| NNW                    | .8                   | 1.3  | 1.3  | .3    |       |       |       |       |       |       |       | 3.8        | 6.2          |
| VARIABLE               |                      |      | .7   | .2    |       |       |       |       |       |       |       | .9         | 9.1          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 5.3        | ////         |
| TOTALS                 | 20.4                 | 36.3 | 30.0 | 7.9   | .1    |       |       |       |       |       |       | 100.0      | 5.8          |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.7                                  | 2.1  | 1.1  | .4    |       |       |       |       |       |       | 5.3        | 5.3          |
| NNE                    | 1.0                                  | 2.1  | 1.2  | .3    |       |       |       |       |       |       | 4.7        | 5.9          |
| NE                     | 1.1                                  | 1.8  | .9   | .3    |       |       |       |       |       |       | 4.1        | 5.8          |
| ENE                    | .6                                   | 2.0  | 1.3  |       |       |       |       |       |       |       | 3.9        | 5.5          |
| E                      | 1.9                                  | 1.0  | 1.0  | .4    |       |       |       |       |       |       | 4.3        | 5.3          |
| ESE                    | 1.6                                  | .6   | .1   |       |       |       |       |       |       |       | 2.2        | 3.1          |
| SE                     | 1.4                                  | .3   |      |       |       |       |       |       |       |       | 1.8        | 2.4          |
| SSE                    | 2.0                                  | 1.1  | .1   | .1    |       |       |       |       |       |       | 3.3        | 3.5          |
| S                      | 3.4                                  | 1.9  | .8   | .1    |       |       |       |       |       |       | 6.2        | 3.9          |
| SSW                    | 2.3                                  | 1.6  | 2.6  | .7    | .2    |       |       |       |       |       | 7.3        | 6.4          |
| SW                     | 1.9                                  | 3.8  | 2.3  | 1.1   |       |       |       |       |       |       | 9.1        | 6.3          |
| WSW                    | 1.7                                  | 3.6  | 2.8  | .2    |       |       |       |       |       |       | 7.9        | 5.9          |
| W                      | 1.9                                  | 3.1  | 2.9  | .4    |       |       |       |       |       |       | 8.3        | 5.4          |
| WNW                    | 2.1                                  | 1.7  | 1.0  |       |       |       |       |       |       |       | 4.8        | 4.4          |
| NW                     | 1.7                                  | .7   | .6   | .4    |       |       |       |       |       |       | 3.3        | 4.9          |
| NNW                    | 1.8                                  | 1.4  | .9   | .1    |       |       |       |       |       |       | 4.2        | 4.8          |
| VARIABLE               |                                      |      |      | .1    |       |       |       |       |       |       | .1         | 12.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 18.9       | ////         |
| TOTALS                 | 27.7                                 | 28.7 | 19.6 | 4.9   | .2    |       |       |       |       |       | 100.0      | 4.3          |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS (LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.2                                  | 2.3  | 2.2  | .7    |       |       |       |       |       |       | 5.3        | 6.4          |
| NNE                    | .7                                   | 1.5  | 1.5  | .4    |       |       |       |       |       |       | 4.1        | 6.6          |
| NE                     | .5                                   | 1.4  | 1.9  | .4    |       |       |       |       |       |       | 4.3        | 7.0          |
| ENE                    | .6                                   | 1.7  | 1.7  | .5    |       |       |       |       |       |       | 4.5        | 6.7          |
| E                      | 1.0                                  | 1.5  | 1.6  | .4    |       |       |       |       |       |       | 4.5        | 6.2          |
| ESE                    | .8                                   | 1.1  | .6   | .1    |       |       |       |       |       |       | 2.7        | 5.3          |
| SE                     | 1.0                                  | 1.2  | .5   | .1    |       |       |       |       |       |       | 2.7        | 4.7          |
| SSE                    | 1.1                                  | 1.9  | 1.7  | .2    |       |       |       |       |       |       | 4.9        | 5.7          |
| S                      | 1.3                                  | 1.5  | 2.2  | .8    | .0    |       |       |       |       |       | 5.8        | 6.8          |
| SSW                    | .8                                   | 1.2  | 2.1  | 1.4   | .1    |       |       |       |       |       | 5.7        | 8.2          |
| SW                     | 1.0                                  | 1.8  | 2.8  | 1.4   | .1    |       |       |       |       |       | 7.0        | 7.8          |
| WSW                    | 1.1                                  | 2.4  | 3.2  | 1.0   | .0    |       |       |       |       |       | 7.7        | 7.1          |
| W                      | 1.7                                  | 3.5  | 4.1  | 1.9   | .0    |       |       |       |       |       | 11.3       | 7.3          |
| WNW                    | 1.7                                  | 2.2  | 2.4  | .4    | .0    |       |       |       |       |       | 6.7        | 5.9          |
| NW                     | 1.0                                  | 1.6  | 1.5  | .5    |       |       |       |       |       |       | 4.7        | 6.4          |
| NNW                    | 1.2                                  | 1.5  | 1.7  | .6    | .0    |       |       |       |       |       | 5.3        | 6.7          |
| VARIABLE               | .0                                   | .0   | 1.3  | .2    | .0    |       |       |       |       |       | 1.6        | 8.8          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 10.5       | ////         |
| TOTALS                 | 16.8                                 | 28.3 | 33.0 | 11.0  | .4    |       |       |       |       |       | 100.0      | 6.1          |

TOTAL NUMBER OF OBSERVATIONS: 7190

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.0                                  | 1.9  | .3   |       |       |       |       |       |       |       |       | 5.0        | 3.6          |
| NNE                    | 1.3                                  | 2.1  | .2   | .1    |       |       |       |       |       |       |       | 3.7        | 4.2          |
| NE                     | .3                                   | 1.5  | .4   | .3    |       |       |       |       |       |       |       | 2.6        | 5.7          |
| ENE                    | .4                                   | 1.1  | .3   |       |       |       |       |       |       |       |       | 1.9        | 4.6          |
| E                      | .8                                   | .5   | .5   |       |       |       |       |       |       |       |       | 1.9        | 4.4          |
| ESE                    | .1                                   | .5   | .1   |       |       |       |       |       |       |       |       | .8         | 4.9          |
| SE                     | .5                                   | .1   | .2   |       |       |       |       |       |       |       |       | .9         | 4.3          |
| SSE                    | .5                                   | .5   |      |       |       |       |       |       |       |       |       | 1.1        | 3.6          |
| S                      | 1.3                                  | 1.0  | .5   |       |       |       |       |       |       |       |       | 2.8        | 4.3          |
| SSW                    | 1.2                                  | .7   | 1.5  | .3    |       |       |       |       |       |       |       | 3.7        | 6.1          |
| SW                     | 1.5                                  | 2.2  | 3.2  | .7    |       |       |       |       |       |       |       | 7.5        | 6.4          |
| WSW                    | 3.1                                  | 3.4  | 2.0  |       |       |       |       |       |       |       |       | 8.4        | 4.5          |
| W                      | 2.4                                  | 7.5  | 2.7  |       |       |       |       |       |       |       |       | 12.7       | 5.3          |
| WNW                    | 3.4                                  | 3.4  | .5   |       |       |       |       |       |       |       |       | 7.3        | 3.8          |
| NW                     | 2.0                                  | .9   | .3   |       |       |       |       |       |       |       |       | 3.2        | 3.2          |
| NNW                    | 1.6                                  | 1.0  | .5   | .2    |       |       |       |       |       |       |       | 3.4        | 4.5          |
| VARIABLE               |                                      | .1   | .1   | .3    |       |       |       |       |       |       |       | .5         | 10.2         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 32.6       | ////         |
| TOTALS                 | 23.4                                 | 26.4 | 13.7 | 2.0   |       |       |       |       |       |       |       | 100.0      | 3.2          |

TOTAL NUMBER OF OBSERVATIONS: 915



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.9                                  | 2.3  | .2   | .1    |       |       |       |       |       |       | 4.5        | 3.9          |
| NNE                    | 1.5                                  | 1.9  | .7   |       |       |       |       |       |       |       | 4.0        | 4.2          |
| NE                     | .9                                   | 1.1  | .7   | .2    |       |       |       |       |       |       | 2.8        | 5.5          |
| ENE                    | .7                                   | .5   | .3   |       |       |       |       |       |       |       | 1.5        | 4.2          |
| E                      | .4                                   | .7   | .4   |       |       |       |       |       |       |       | 1.5        | 5.1          |
| ESE                    | .2                                   | .3   | .1   |       |       |       |       |       |       |       | .7         | 4.3          |
| SE                     | .3                                   | .2   | .1   |       |       |       |       |       |       |       | .7         | 4.2          |
| SSE                    | .8                                   | .2   | .1   | .2    |       |       |       |       |       |       | 1.3        | 5.1          |
| S                      | 2.1                                  | 1.1  | .4   |       |       |       |       |       |       |       | 3.6        | 3.5          |
| SSW                    | .9                                   | 1.2  | 1.4  |       |       |       |       |       |       |       | 3.5        | 5.8          |
| SW                     | .5                                   | 2.1  | 2.4  | .3    |       |       |       |       |       |       | 5.4        | 6.8          |
| WSW                    | 3.8                                  | 3.5  | 2.8  | .3    |       |       |       |       |       |       | 10.5       | 5.0          |
| W                      | 3.2                                  | 4.4  | 2.2  |       |       |       |       |       |       |       | 9.7        | 4.6          |
| WNW                    | 3.7                                  | 3.4  | 2.1  | .1    |       |       |       |       |       |       | 9.3        | 4.7          |
| NW                     | 3.2                                  | 2.2  | .7   |       |       |       |       |       |       |       | 6.0        | 3.5          |
| NNW                    | 1.9                                  | 1.4  | .5   | .2    | .1    |       |       |       |       |       | 4.2        | 5.0          |
| VARIABLE               |                                      |      | 1.1  | .1    |       |       |       |       |       |       | 1.2        | 8.5          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 29.6       | ////         |
| TOTALS                 | 25.9                                 | 26.4 | 16.3 | 1.6   | .1    |       |       |       |       |       | 109.0      | 3.4          |

TOTAL NUMBER OF OBSERVATIONS: 915

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(IST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 2.3                                  | 3.6  | 1.2  | .3    |       |       |       |       |       |       | 7.4        | 5.2          |
| NNE                    | 1.5                                  | 2.7  | 1.1  | .1    |       |       |       |       |       |       | 5.5        | 5.1          |
| NE                     | 1.3                                  | .5   | 1.6  | .2    |       |       |       |       |       |       | 3.7        | 5.7          |
| ENE                    | .8                                   | .4   | 1.0  |       |       |       |       |       |       |       | 2.2        | 5.3          |
| E                      | 1.1                                  | 1.3  | 1.0  |       |       |       |       |       |       |       | 3.4        | 4.9          |
| ESE                    | 1.1                                  | 1.0  | .7   |       |       |       |       |       |       |       | 2.7        | 4.5          |
| SE                     | 1.1                                  | .2   | .1   |       |       |       |       |       |       |       | 1.4        | 2.8          |
| SSE                    | 1.1                                  | .3   | .3   |       |       |       |       |       |       |       | 1.8        | 3.8          |
| S                      | 1.3                                  | 1.5  | 1.2  |       |       |       |       |       |       |       | 4.7        | 4.9          |
| SSW                    | .9                                   | 1.4  | 1.1  | .9    |       |       |       |       |       |       | 4.3        | 6.9          |
| SW                     | .7                                   | 1.6  | 3.2  | .4    |       |       |       |       |       |       | 5.6        | 7.3          |
| WSW                    | 1.2                                  | 3.9  | 3.8  | 1.1   |       |       |       |       |       |       | 10.1       | 8.8          |
| W                      | 2.0                                  | 4.2  | 3.1  | .7    |       |       |       |       |       |       | 9.8        | 6.1          |
| WNW                    | 1.8                                  | 4.0  | 2.2  | .1    |       |       |       |       |       |       | 8.1        | 5.1          |
| NW                     | 3.1                                  | 4.5  | 2.4  | .7    |       |       |       |       |       |       | 10.6       | 5.3          |
| NNW                    | 1.9                                  | 2.2  | 1.3  | .2    |       |       |       |       |       |       | 6.6        | 5.1          |
| VARIABLE               |                                      | .1   | 1.6  | .3    |       |       |       |       |       |       | 2.1        | 8.7          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 10.7       | ////         |
| TOTALS                 | 22.6                                 | 34.7 | 26.9 | 5.0   |       |       |       |       |       |       | 100.0      | 5.1          |

TOTAL NUMBER OF OBSERVATIONS: 914

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(IST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.5                  | 2.3  | 1.8  | .4    |       |       |       |       |       |       | 6.0        | 5.7          |
| NNE                    | 1.0                  | 1.9  | 2.3  | .2    |       |       |       |       |       |       | 5.4        | 6.5          |
| NE                     | .7                   | 1.8  | 1.6  | .2    |       |       |       |       |       |       | 4.3        | 6.4          |
| ENE                    | .5                   | 1.2  | 2.0  | .4    |       |       |       |       |       |       | 4.2        | 7.1          |
| E                      | .7                   | 2.2  | 1.2  | .1    |       |       |       |       |       |       | 4.2        | 5.6          |
| ESE                    | .8                   | 1.5  | .3   |       |       |       |       |       |       |       | 2.6        | 4.7          |
| SE                     | .8                   | 2.0  | .4   | .1    |       |       |       |       |       |       | 3.3        | 5.1          |
| SSE                    | 1.2                  | 2.4  | 1.8  | .1    |       |       |       |       |       |       | 5.5        | 5.3          |
| S                      | .3                   | 1.3  | 2.9  | 1.0   |       |       |       |       |       |       | 5.5        | 8.2          |
| SSW                    | .3                   | .3   | 2.4  | 1.3   |       |       |       |       |       |       | 4.4        | 9.1          |
| SW                     | .9                   | .7   | 3.4  | 1.8   |       |       |       |       |       |       | 6.7        | 8.3          |
| WSW                    | .5                   | .9   | 4.8  | 2.2   |       |       |       |       |       |       | 8.4        | 9.1          |
| W                      | .3                   | 2.2  | 5.0  | .9    |       |       |       |       |       |       | 8.4        | 7.6          |
| WNW                    | 1.1                  | 3.6  | 3.6  | .2    |       |       |       |       |       |       | 8.6        | 6.2          |
| NW                     | 1.2                  | 3.0  | 2.5  | .7    |       |       |       |       |       |       | 7.3        | 6.2          |
| NNW                    | 1.0                  | 2.4  | 2.5  | 1.2   |       |       |       |       |       |       | 7.1        | 7.1          |
| VARIABLE               | .1                   | .3   | 3.9  | 1.1   |       |       |       |       |       |       | 5.5        | 8.9          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 2.6        | ////         |
| TOTALS                 | 12.9                 | 29.9 | 42.5 | 12.0  |       |       |       |       |       |       | 100.0      | 6.9          |

TOTAL NUMBER OF OBSERVATIONS: 912

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87  
MONTH: JUL HOURS(IST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.0                                  | 2.0  | 2.2  | .2    |       |       |       |       |       |       | 5.4        | 6.3          |
| NNE                    | .8                                   | 1.3  | 1.5  | .1    |       |       |       |       |       |       | 3.7        | 6.3          |
| NE                     | .5                                   | 1.4  | 2.0  | .8    |       |       |       |       |       |       | 4.7        | 7.4          |
| ENE                    | .2                                   | 1.4  | 2.5  | 1.1   |       |       |       |       |       |       | 5.3        | 8.4          |
| E                      | .3                                   | 1.8  | 1.6  | .8    |       |       |       |       |       |       | 4.5        | 7.2          |
| ESE                    | .2                                   | 2.2  | 1.4  | .1    |       |       |       |       |       |       | 3.9        | 6.4          |
| SE                     | .5                                   | 2.1  | 1.5  | .1    |       |       |       |       |       |       | 4.3        | 6.1          |
| SSE                    | .8                                   | 2.9  | 3.9  | .4    |       |       |       |       |       |       | 8.0        | 6.9          |
| S                      | .3                                   | 1.2  | 5.6  | 1.8   |       |       |       |       |       |       | 9.9        | 8.9          |
| SSW                    |                                      | .8   | 2.4  | 1.2   | .2    |       |       |       |       |       | 4.6        | 9.8          |
| SW                     |                                      | .4   | 2.0  | 2.0   | .1    |       |       |       |       |       | 4.5        | 10.5         |
| WSW                    | .2                                   | .8   | 2.4  | 1.9   | .1    |       |       |       |       |       | 5.4        | 9.8          |
| W                      | .1                                   | 2.1  | 5.7  | 2.0   |       |       |       |       |       |       | 9.9        | 8.7          |
| WNW                    | .7                                   | 3.3  | 2.9  | .4    |       |       |       |       |       |       | 7.2        | 6.4          |
| NW                     | .5                                   | 2.7  | 3.3  | .1    |       |       |       |       |       |       | 6.7        | 6.6          |
| NNW                    | .7                                   | 1.3  | 2.4  | 1.2   |       |       |       |       |       |       | 5.6        | 7.8          |
| VARIABLE               |                                      | .2   | 5.5  | 1.0   |       |       |       |       |       |       | 6.7        | 8.7          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | .8         | ////         |
| TOTALS                 | 6.9                                  | 27.9 | 48.9 | 15.1  | .4    |       |       |       |       |       | 100.0      | 7.8          |

TOTAL NUMBER OF OBSERVATIONS: 912

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 79-87  
MONTH: JUL HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .2                                   | 1.3  | 2.8  | .8    |       |       |       |       |       |       | 5.1        | 7.7          |
| NNE                    | .8                                   | .7   | 2.3  | .3    |       |       |       |       |       |       | 4.0        | 7.2          |
| NE                     | .5                                   | 1.2  | 2.6  | .4    |       |       |       |       |       |       | 4.8        | 7.3          |
| ENE                    | .4                                   | 1.7  | 3.5  | .5    |       |       |       |       |       |       | 6.2        | 7.6          |
| E                      | .4                                   | 3.5  | 2.8  | .3    |       |       |       |       |       |       | 7.1        | 6.5          |
| ESE                    | .5                                   | 2.3  | 1.6  |       |       |       |       |       |       |       | 4.5        | 6.1          |
| SE                     | .9                                   | 2.2  | 1.3  |       |       |       |       |       |       |       | 4.4        | 5.5          |
| SSE                    | .9                                   | 3.1  | 4.3  | .5    |       |       |       |       |       |       | 8.7        | 6.8          |
| S                      | .3                                   | 2.6  | 6.9  | 2.3   |       |       |       |       |       |       | 12.0       | 8.6          |
| SSW                    | .5                                   | 1.4  | 2.3  | 1.6   |       |       |       |       |       |       | 5.8        | 8.5          |
| SW                     | .2                                   | .5   | 1.3  | 1.2   |       |       |       |       |       |       | 3.3        | 9.3          |
| WSW                    | .1                                   | .4   | 1.4  | 1.4   |       |       |       |       |       |       | 3.4        | 10.2         |
| W                      | .3                                   | 2.0  | 3.6  | 1.1   |       |       |       |       |       |       | 7.0        | 7.9          |
| WNW                    | .7                                   | 2.5  | 3.6  | .7    | .1    |       |       |       |       |       | 7.5        | 7.1          |
| NW                     | 1.4                                  | 2.2  | 1.0  | .2    |       |       |       |       |       |       | 4.8        | 5.0          |
| NNW                    | .7                                   | 1.2  | 2.7  | .5    |       |       |       |       |       |       | 5.1        | 7.5          |
| VARIABLE               | .2                                   | 4.4  | .4   |       |       |       |       |       |       |       | 5.0        | 8.2          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 1.1        | ////         |
| TOTALS                 | 9.0                                  | 29.0 | 48.5 | 12.3  | .1    |       |       |       |       |       | 100.0      | 7.4          |

TOTAL NUMBER OF OBSERVATIONS: 915

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS (LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.2                  | 2.2  | 1.9  | .4    | .1    |       |       |       |       |       | 5.8        | 6.2          |
| NNE                    | .5                   | 3.0  | 1.8  |       |       |       |       |       |       |       | 5.3        | 6.1          |
| NE                     | 1.1                  | 2.4  | 2.1  | .3    |       |       |       |       |       |       | 5.9        | 5.9          |
| ENE                    | 1.4                  | 2.6  | 1.9  |       |       |       |       |       |       |       | 5.9        | 5.4          |
| E                      | 2.8                  | 2.4  | .8   |       |       |       |       |       |       |       | 6.0        | 4.1          |
| ESE                    | 2.3                  | 2.0  | .1   |       |       |       |       |       |       |       | 4.4        | 3.4          |
| SE                     | 2.3                  | 2.4  | .8   |       |       |       |       |       |       |       | 5.5        | 4.1          |
| SSE                    | 2.0                  | 3.0  | 1.5  |       |       |       |       |       |       |       | 6.5        | 5.0          |
| S                      | 3.5                  | 5.3  | 2.8  | .5    |       |       |       |       |       |       | 12.2       | 5.1          |
| SSW                    | .5                   | 2.8  | 2.4  | 1.0   |       |       |       |       |       |       | 6.8        | 7.2          |
| SW                     | .3                   | 1.4  | 1.6  | .9    |       |       |       |       |       |       | 4.3        | 7.5          |
| WSW                    | 1.3                  | 1.4  | 1.8  | .2    |       |       |       |       |       |       | 4.7        | 5.8          |
| W                      | 2.0                  | 1.9  | 2.2  | .7    |       |       |       |       |       |       | 6.7        | 6.2          |
| WNW                    | 2.5                  | 1.9  | 1.2  | .1    |       |       |       |       |       |       | 5.7        | 4.7          |
| NW                     | 1.8                  | 1.1  | .7   | .1    |       |       |       |       |       |       | 3.6        | 4.4          |
| NNW                    | .1                   | 1.3  | .9   | .3    |       |       |       |       |       |       | 2.6        | 6.4          |
| VARIABLE               |                      |      | .3   | .4    |       |       |       |       |       |       | .7         | 11.1         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 7.4        | 2.0          |
| TOTALS                 | 25.7                 | 37.0 | 24.6 | 5.0   | .1    |       |       |       |       |       | 100.0      |              |

TOTAL NUMBER OF OBSERVATIONS: 913

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RAF BENTWATER UNITED KINGDOM REVISED UNIFORM SUMMARY

2/3

OF SURFACE DESTROYER (U) AIR FORCE ENVIRONMENTAL

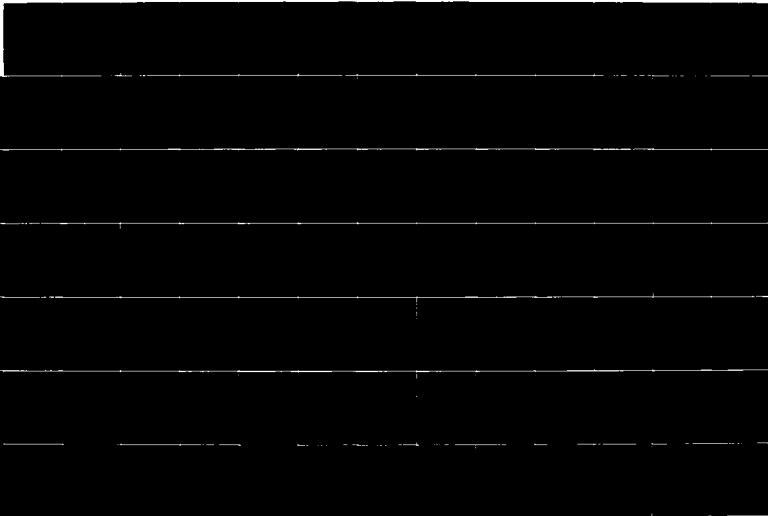
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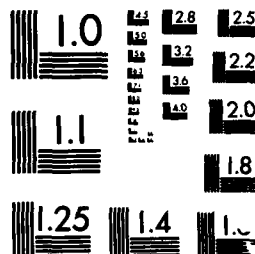
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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | 56-59 |            |              |
| N                      | 1.5                                  | 2.0  | .8   | .4    |       |       |       |       |       |       |       | 4.7        | 5.4          |
| NNE                    | 2.0                                  | 2.3  | .5   |       |       |       |       |       |       |       |       | 4.8        | 4.1          |
| NE                     | 1.5                                  | 1.2  | .8   | .2    |       |       |       |       |       |       |       | 3.7        | 4.9          |
| ENE                    | 1.2                                  | 1.1  | .2   |       |       |       |       |       |       |       |       | 2.5        | 3.9          |
| E                      | 2.1                                  | 1.2  | .1   |       |       |       |       |       |       |       |       | 3.4        | 3.3          |
| ESE                    | 1.5                                  | .2   | .4   |       |       |       |       |       |       |       |       | 2.2        | 3.4          |
| SE                     | 1.4                                  | .3   | .1   |       |       |       |       |       |       |       |       | 1.9        | 2.8          |
| SSE                    | 2.0                                  | .5   | .1   |       |       |       |       |       |       |       |       | 2.6        | 3.1          |
| S                      | 3.0                                  | 2.6  | .2   |       |       |       |       |       |       |       |       | 5.8        | 3.7          |
| SSW                    | 1.8                                  | 1.0  | 3.1  | .4    |       |       |       |       |       |       |       | 6.2        | 6.4          |
| SW                     | 1.2                                  | 2.8  | 2.1  | .2    |       |       |       |       |       |       |       | 6.4        | 5.9          |
| WSW                    | 1.6                                  | 2.7  | 2.6  | .1    |       |       |       |       |       |       |       | 7.1        | 5.6          |
| W                      | 3.2                                  | 2.7  | 2.1  | .1    |       |       |       |       |       |       |       | 8.1        | 5.0          |
| WNW                    | 3.0                                  | 2.1  | .7   |       |       |       |       |       |       |       |       | 5.7        | 3.7          |
| NW                     | 1.1                                  | 1.2  | .5   |       |       |       |       |       |       |       |       | 2.8        | 4.4          |
| NNW                    | 1.1                                  | .8   | .4   | .4    |       |       |       |       |       |       |       | 2.7        | 5.6          |
| VARIABLE               |                                      |      | .1   | .2    |       |       |       |       |       |       |       | .3         | 11.3         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 28.9       | ////         |
| TOTALS                 | 29.1                                 | 24.9 | 14.9 | 2.2   |       |       |       |       |       |       |       | 100.0      | 3.4          |

TOTAL NUMBER OF OBSERVATIONS: 913

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-87  
MONTH: JUL HOURS(IST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.6                  | 2.2  | 1.4  | .3    | .0    |       |       |       |       |       | 5.5        | 5.5          |
| NNE                    | 1.2                  | 2.0  | 1.3  | .1    |       |       |       |       |       |       | 4.6        | 5.5          |
| NE                     | .9                   | 1.4  | 1.5  | .3    |       |       |       |       |       |       | 4.1        | 6.2          |
| ENE                    | .7                   | 1.3  | 1.5  | .3    |       |       |       |       |       |       | 3.7        | 6.4          |
| E                      | 1.1                  | 1.7  | 1.1  | .2    |       |       |       |       |       |       | 4.0        | 5.3          |
| ESE                    | .8                   | 1.3  | .6   | .0    |       |       |       |       |       |       | 2.7        | 4.9          |
| SE                     | 1.0                  | 1.2  | .6   | .0    |       |       |       |       |       |       | 2.8        | 4.7          |
| SSE                    | 1.1                  | 1.6  | 1.5  | .2    |       |       |       |       |       |       | 4.4        | 5.7          |
| S                      | 1.5                  | 2.1  | 2.6  | .7    |       |       |       |       |       |       | 6.9        | 6.5          |
| SSW                    | .8                   | 1.2  | 2.1  | .8    | .0    |       |       |       |       |       | 4.9        | 7.5          |
| SW                     | .6                   | 1.5  | 2.4  | .9    | .0    |       |       |       |       |       | 5.4        | 7.5          |
| WSW                    | 1.5                  | 2.1  | 2.7  | .9    | .0    |       |       |       |       |       | 7.3        | 6.7          |
| W                      | 1.7                  | 3.4  | 3.3  | .7    |       |       |       |       |       |       | 9.0        | 6.3          |
| WNW                    | 2.1                  | 3.0  | 2.1  | .2    | .0    |       |       |       |       |       | 7.4        | 5.3          |
| NW                     | 1.8                  | 2.2  | 1.4  | .2    |       |       |       |       |       |       | 5.6        | 5.1          |
| NNW                    | 1.1                  | 1.6  | 1.4  | .5    | .0    |       |       |       |       |       | 4.7        | 6.3          |
| VARIABLE               | .0                   | .1   | 2.1  | .5    |       |       |       |       |       |       | 2.8        | 8.8          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 14.2       | ////         |
| TOTALS                 | 19.5                 | 29.8 | 29.5 | 6.9   | .1    |       |       |       |       |       | 100.0      | 5.3          |

TOTAL NUMBER OF OBSERVATIONS: 7309

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 2.8                                  | 2.7  | .8   | .2    |       |       |       |       |       |       | 6.5        | 4.2          |
| NNE                    | .9                                   | .8   | .4   |       |       |       |       |       |       |       | 2.0        | 4.5          |
| NE                     | .3                                   | .2   | .3   |       |       |       |       |       |       |       | .9         | 4.9          |
| ENE                    | .1                                   | .1   |      |       |       |       |       |       |       |       | .2         | 3.5          |
| E                      | .6                                   | .9   | .8   |       |       |       |       |       |       |       | 2.3        | 5.0          |
| ESE                    | .3                                   | .8   |      |       |       |       |       |       |       |       | 1.1        | 4.1          |
| SE                     | .3                                   | .2   |      |       |       |       |       |       |       |       | .5         | 3.2          |
| SSE                    | .8                                   | .4   | .2   | .1    |       |       |       |       |       |       | 1.5        | 4.9          |
| S                      | 1.4                                  | .8   | .8   | .4    | .1    |       |       |       |       |       | 3.4        | 5.8          |
| SSW                    | 1.5                                  | 1.4  | 1.9  | .6    |       |       |       |       |       |       | 5.5        | 6.5          |
| SW                     | 1.5                                  | 1.7  | 1.4  | 1.3   |       |       |       |       |       |       | 5.9        | 6.7          |
| WSW                    | 1.5                                  | 5.5  | 3.0  | .8    |       |       |       |       |       |       | 10.8       | 5.9          |
| W                      | 4.0                                  | 6.0  | 3.3  | .6    |       |       |       |       |       |       | 14.0       | 5.4          |
| WNW                    | 4.3                                  | 1.7  | 1.1  | .2    | .1    |       |       |       |       |       | 7.4        | 4.0          |
| NW                     | 3.6                                  | 1.3  | .2   | .1    |       |       |       |       |       |       | 5.3        | 3.4          |
| NNW                    | 1.7                                  | 1.4  | .3   |       |       |       |       |       |       |       | 3.4        | 3.9          |
| VARIABLE               |                                      |      |      | .1    | .1    |       |       |       |       |       | .2         | 14.5         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 29.1       | ////         |
| TOTALS                 | 25.6                                 | 25.4 | 14.6 | 4.5   | .3    |       |       |       |       |       | 100.0      | 3.7          |

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 3.4                                  | 3.0  | .8   | .2    |       |       |       |       |       |       | 7.4        | 4.2          |
| NNE                    | .4                                   | 1.1  | .5   |       |       |       |       |       |       |       | 2.0        | 4.8          |
| NE                     | .6                                   | .2   |      |       |       |       |       |       |       |       | .9         | 2.5          |
| ENE                    | .1                                   | .1   |      |       |       |       |       |       |       |       | .2         | 4.5          |
| E                      | .1                                   | .5   | .1   |       |       |       |       |       |       |       | .8         | 5.1          |
| ESE                    | .8                                   | .4   | .1   |       |       |       |       |       |       |       | 1.3        | 3.4          |
| SE                     | .4                                   | .3   | .1   |       |       |       |       |       |       |       | .9         | 4.0          |
| SSE                    | 1.1                                  | .5   | .2   |       |       |       |       |       |       |       | 1.8        | 3.7          |
| S                      | 2.6                                  | 1.0  | .6   | .1    |       |       |       |       |       |       | 4.3        | 4.2          |
| SSW                    | 2.0                                  | 1.9  | 1.3  | .8    |       |       |       |       |       |       | 6.0        | 5.9          |
| SW                     | 1.5                                  | 2.2  | 1.5  | 1.2   |       |       |       |       |       |       | 6.3        | 6.5          |
| WSW                    | 3.1                                  | 2.9  | 2.7  | .5    |       |       |       |       |       |       | 9.2        | 5.4          |
| W                      | 3.8                                  | 5.3  | 2.6  | .8    |       |       |       |       |       |       | 12.4       | 5.3          |
| WNW                    | 3.0                                  | 2.8  | .4   | .1    |       |       |       |       |       |       | 6.3        | 3.9          |
| NW                     | 3.1                                  | 1.8  | .4   | .1    |       |       |       |       |       |       | 5.5        | 3.8          |
| NNW                    | 2.3                                  | 1.5  | .4   | .1    |       |       |       |       |       |       | 4.3        | 3.9          |
| VARIABLE               |                                      |      | .3   | .1    |       |       |       |       |       |       | .4         | 5.5          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 29.9       | ////         |
| TOTALS                 | 28.4                                 | 25.6 | 12.2 | 4.0   |       |       |       |       |       |       | 100.0      | 3.4          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 3.5                  | 2.8  | 2.0  | .3    |       |       |       |       |       |       |       | 8.7        | 4.8          |
| NNE                    | 1.3                  | 1.0  | 1.1  |       |       |       |       |       |       |       |       | 3.3        | 4.9          |
| NE                     | 1.0                  | 1.4  | .5   |       |       |       |       |       |       |       |       | 2.9        | 4.4          |
| ENE                    | .5                   | .2   | .3   |       |       |       |       |       |       |       |       | 1.1        | 4.3          |
| E                      | .6                   | .5   | .6   | .1    |       |       |       |       |       |       |       | 1.9        | 5.9          |
| ESE                    | .4                   | .8   | .2   | .1    |       |       |       |       |       |       |       | 1.5        | 5.2          |
| SE                     | .2                   | .5   | .1   | .1    |       |       |       |       |       |       |       | 1.0        | 4.9          |
| SSE                    | .3                   | 1.0  | .4   | .1    |       |       |       |       |       |       |       | 1.8        | 5.7          |
| S                      | .6                   | 1.3  | 1.8  | .6    |       |       |       |       |       |       |       | 4.4        | 7.2          |
| SSW                    | 1.5                  | 1.1  | 1.9  | 1.0   |       |       |       |       |       |       |       | 5.5        | 6.8          |
| SW                     | 1.7                  | 2.7  | 2.3  | 1.2   | .3    |       |       |       |       |       |       | 6.2        | 7.0          |
| WSW                    | 1.8                  | 2.2  | 3.2  | 2.2   | .1    |       |       |       |       |       |       | 9.5        | 7.5          |
| W                      | 2.9                  | 4.5  | 3.7  | .6    |       |       |       |       |       |       |       | 11.7       | 5.9          |
| WNW                    | 3.9                  | 3.7  | 2.0  | .3    | .1    |       |       |       |       |       |       | 10.0       | 4.9          |
| NW                     | 3.0                  | 2.0  | 2.0  | .1    |       |       |       |       |       |       |       | 7.2        | 4.5          |
| NNW                    | 3.0                  | 1.7  | 1.3  | .1    |       |       |       |       |       |       |       | 6.1        | 4.5          |
| VARIABLE               |                      |      | 1.1  | .1    |       |       |       |       |       |       |       | 1.2        | 9.1          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 14.0       | ////         |
| TOTALS                 | 26.5                 | 27.2 | 24.7 | 7.0   | .5    |       |       |       |       |       |       | 100.0      | 5.0          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: C35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7R-87  
MONTH: AUG HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.2                                  | 3.0  | 2.2  | .5    |       |       |       |       |       |       | 6.9        | 6.4          |
| NNE                    | .4                                   | 1.5  | 2.7  | .3    |       |       |       |       |       |       | 5.2        | 6.8          |
| NE                     | .8                                   | .4   | 1.4  | .1    |       |       |       |       |       |       | 2.7        | 6.4          |
| ENE                    | .7                                   | .9   | 1.0  | .1    |       |       |       |       |       |       | 2.7        | 5.8          |
| E                      | .6                                   | 1.6  | 1.7  | .5    |       |       |       |       |       |       | 4.5        | 6.7          |
| ESE                    | .6                                   | .4   | .6   |       |       |       |       |       |       |       | 1.7        | 4.9          |
| SE                     | .2                                   | 1.5  | .2   | .1    |       |       |       |       |       |       | 2.0        | 5.2          |
| SSE                    | .6                                   | 1.5  | 1.6  | .5    |       |       |       |       |       |       | 4.3        | 7.0          |
| S                      | .6                                   | 1.9  | 2.9  | 1.8   |       |       |       |       |       |       | 7.3        | 8.0          |
| SSW                    | .3                                   | 1.2  | 1.8  | 1.2   | .4    | .1    |       |       |       |       | 5.1        | 9.3          |
| SW                     | .8                                   | 1.6  | 3.2  | 2.3   | .4    |       |       |       |       |       | 8.3        | 8.8          |
| WSW                    | .5                                   | 2.2  | 3.3  | 3.0   | .4    |       |       |       |       |       | 9.5        | 9.5          |
| W                      | 1.3                                  | 3.0  | 3.4  | 3.1   | .1    |       |       |       |       |       | 11.0       | 8.3          |
| WNW                    | 2.5                                  | 1.7  | 2.9  | .4    | .1    |       |       |       |       |       | 7.6        | 6.0          |
| NW                     | 1.4                                  | 2.9  | 3.3  | .3    |       |       |       |       |       |       | 8.0        | 6.2          |
| NNW                    | 1.3                                  | 2.7  | 2.4  | 1.1   |       |       |       |       |       |       | 7.4        | 6.6          |
| VARIABLE               |                                      |      | 2.2  | .9    |       |       |       |       |       |       | 3.0        | 9.7          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 2.9        | ////         |
| TOTALS                 | 14.2                                 | 28.1 | 36.9 | 16.3  | 1.5   | .1    |       |       |       |       | 100.0      | 7.2          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(IST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .4                                   | 1.3  | 2.6  | .8    |       |       |       |       |       |       |       | 5.1        | 7.7          |
| NNE                    | .4                                   | 1.9  | 1.0  | .4    |       |       |       |       |       |       |       | 3.4        | 6.4          |
| NE                     |                                      | 1.5  | 1.9  | .1    |       |       |       |       |       |       |       | 3.5        | 7.4          |
| ENE                    | .3                                   | 1.0  | 2.7  | .4    |       |       |       |       |       |       |       | 4.4        | 8.0          |
| E                      | .5                                   | 1.8  | 1.7  | .4    |       |       |       |       |       |       |       | 4.5        | 6.4          |
| ESE                    | .3                                   | 1.5  | 1.1  |       |       |       |       |       |       |       |       | 2.9        | 5.9          |
| SE                     | .4                                   | 1.6  | 1.5  |       |       |       |       |       |       |       |       | 3.5        | 6.4          |
| SSE                    | .1                                   | 2.2  | 3.0  | .6    |       |       |       |       |       |       |       | 5.9        | 7.5          |
| S                      | .6                                   | 2.0  | 6.2  | 3.8   |       |       |       |       |       |       |       | 12.7       | 9.0          |
| SSW                    | .5                                   | .8   | 2.8  | 1.8   | .2    |       |       |       |       |       |       | 6.1        | 9.5          |
| SW                     | .4                                   | 1.0  | 3.0  | 1.9   | .5    | .2    |       |       |       |       |       | 7.1        | 10.2         |
| WSW                    | .5                                   | 1.2  | 2.2  | 2.9   | .8    |       |       |       |       |       |       | 7.5        | 10.4         |
| W                      | .8                                   | 2.2  | 3.9  | 3.0   | .3    |       |       |       |       |       |       | 10.1       | 9.0          |
| WNW                    | 1.0                                  | 2.0  | 3.1  | .6    |       |       |       |       |       |       |       | 6.8        | 7.2          |
| NW                     | 1.5                                  | 2.4  | 3.8  | .1    |       |       |       |       |       |       |       | 7.7        | 6.2          |
| NNW                    | .6                                   | 1.1  | 2.6  | .1    |       |       |       |       |       |       |       | 4.4        | 7.0          |
| VARIABLE               |                                      | .4   | 2.0  | .2    | .1    |       |       |       |       |       |       | 2.8        | 9.0          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 1.1        | ////         |
| TOTALS                 | 8.6                                  | 25.4 | 45.1 | 17.3  | 1.9   | .2    |       |       |       |       |       | 100.0      | 8.1          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 76-87  
MONTH: AUG HOURS(IST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .5                                   | 1.3  | 2.7  | .3    |       |       |       |       |       |       | 4.8        | 7.0          |
| NNE                    | .2                                   | 1.7  | 2.0  | .4    |       |       |       |       |       |       | 4.4        | 7.0          |
| NE                     | .1                                   | .8   | 1.8  |       |       |       |       |       |       |       | 2.7        | 7.4          |
| ENE                    | .2                                   | 2.3  | 2.3  | .1    |       |       |       |       |       |       | 4.8        | 7.0          |
| E                      | .4                                   | 2.8  | 3.0  | .4    |       |       |       |       |       |       | 6.7        | 7.0          |
| ESE                    | .3                                   | 2.8  | 1.0  |       |       |       |       |       |       |       | 4.1        | 5.6          |
| SE                     | .3                                   | 2.8  | 1.8  | .1    |       |       |       |       |       |       | 5.1        | 6.4          |
| SSE                    | .3                                   | 2.0  | 2.7  | .8    |       |       |       |       |       |       | 5.8        | 7.2          |
| S                      | .9                                   | 3.1  | 6.5  | 3.3   | .3    |       |       |       |       |       | 14.1       | 8.5          |
| SSW                    | .4                                   | 1.3  | 4.3  | 1.8   | .2    |       |       |       |       |       | 8.1        | 9.1          |
| SW                     | .3                                   | .6   | 1.4  | 2.6   | .5    | .1    |       |       |       |       | 5.6        | 11.2         |
| WSW                    | .3                                   | 1.2  | 2.4  | 2.7   | .4    |       |       |       |       |       | 7.0        | 10.0         |
| W                      | .8                                   | 1.3  | 4.4  | 1.8   |       | .1    |       |       |       |       | 8.4        | 9.0          |
| WNW                    | 1.0                                  | 2.5  | 3.5  | .5    |       |       |       |       |       |       | 7.5        | 6.7          |
| NW                     | .3                                   | 1.5  | 1.7  |       |       |       |       |       |       |       | 3.5        | 6.1          |
| NNW                    | .4                                   | 1.7  | 2.2  | .5    |       |       |       |       |       |       | 4.8        | 7.1          |
| VARIABLE               |                                      | .1   | 1.4  | .4    |       |       |       |       |       |       | 1.9        | 8.9          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | .6         | ////         |
| TOTALS                 | 6.9                                  | 29.8 | 45.1 | 15.9  | 1.5   | .2    |       |       |       |       | 100.0      | 7.9          |

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(IST): 1800-2400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.7                  | 2.4  | 1.9  | .1    |       |       |       |       |       |       |       | 7.1        | 5.0          |
| NNE                    | 2.0                  | 1.9  | .8   | .1    |       |       |       |       |       |       |       | 4.8        | 4.4          |
| NE                     | 1.2                  | 1.4  | .9   | .1    |       |       |       |       |       |       |       | 3.6        | 4.9          |
| ENE                    | .8                   | 1.2  | 1.1  | .1    |       |       |       |       |       |       |       | 3.1        | 5.6          |
| E                      | 2.5                  | 2.3  | .3   | .2    |       |       |       |       |       |       |       | 5.3        | 3.7          |
| ESE                    | 1.5                  | .8   | .6   | .2    |       |       |       |       |       |       |       | 3.1        | 4.9          |
| SE                     | 1.8                  | 1.6  |      | .2    |       |       |       |       |       |       |       | 3.7        | 4.0          |
| SSE                    | 2.2                  | 1.3  | .8   |       |       |       |       |       |       |       |       | 4.2        | 4.1          |
| S                      | 3.5                  | 3.1  | 2.7  | .5    | .1    |       |       |       |       |       |       | 10.0       | 5.4          |
| SSW                    | 1.6                  | 2.7  | 3.9  | 1.9   |       |       |       |       |       |       |       | 10.1       | 7.4          |
| SW                     | .5                   | 1.5  | 3.3  | 2.5   | .2    |       |       |       |       |       |       | 8.1        | 9.1          |
| WSW                    | .4                   | 1.4  | 1.3  | .9    |       |       |       |       |       |       |       | 4.0        | 7.6          |
| W                      | 1.9                  | 3.2  | 3.0  | 1.1   |       |       |       |       |       |       |       | 9.2        | 6.5          |
| WNW                    | 2.0                  | 1.7  | 1.3  | .1    |       |       |       |       |       |       |       | 5.2        | 4.8          |
| NW                     | 1.9                  | .8   | .2   | .4    |       |       |       |       |       |       |       | 3.3        | 4.4          |
| NNW                    | .8                   | 1.3  | .6   |       |       |       |       |       |       |       |       | 2.7        | 5.0          |
| VARIABLE               |                      |      | .2   |       |       |       |       |       |       |       |       | .2         | 9.0          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 12.4       | ////         |
| TOTALS                 | 27.4                 | 28.5 | 22.9 | 8.5   | .3    |       |       |       |       |       |       | 100.0      | 5.1          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM POLARLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS (LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |              |
| N                      | 2.9                                  | 2.6  | 1.0  |       |       |       |       |       |       |       | 6.5   | 4.0          |
| NNE                    | 2.0                                  | 1.2  | .3   |       |       |       |       |       |       |       | 3.5   | 3.6          |
| NE                     | 1.0                                  | .3   | .3   |       |       |       |       |       |       |       | 1.6   | 4.1          |
| ENE                    | .5                                   | .2   | .2   |       |       |       |       |       |       |       | 1.0   | 3.9          |
| E                      | .2                                   | .8   | .4   | .1    |       |       |       |       |       |       | 1.5   | 5.9          |
| ESE                    | .5                                   | .4   | .3   | .1    |       |       |       |       |       |       | 1.4   | 5.0          |
| SE                     | .8                                   |      |      | .1    | .1    |       |       |       |       |       | 1.0   | 5.7          |
| SSE                    | 1.4                                  | .3   | .5   | .1    |       |       |       |       |       |       | 2.4   | 4.0          |
| S                      | 1.9                                  | 1.6  | .5   | .2    |       |       |       |       |       |       | 4.3   | 4.3          |
| SSW                    | 1.4                                  | 2.2  | 1.7  | 1.1   |       |       |       |       |       |       | 6.3   | 6.4          |
| SW                     | 1.8                                  | 3.7  | 2.6  | 1.5   |       |       |       |       |       |       | 9.6   | 6.7          |
| WSW                    | 1.3                                  | 3.4  | 3.5  | .1    |       |       |       |       |       |       | 8.4   | 6.1          |
| W                      | 3.1                                  | 2.5  | 3.3  | .8    |       |       |       |       |       |       | 9.7   | 5.8          |
| WNW                    | 2.6                                  | 1.4  | 1.1  | .2    |       |       |       |       |       |       | 5.3   | 4.0          |
| NW                     | 1.8                                  | .5   | .6   | .2    |       |       |       |       |       |       | 2.2   | 4.6          |
| NNW                    | 1.9                                  | .9   | .3   | .1    |       |       |       |       |       |       | 3.2   | 4.0          |
| VARIABLE               |                                      |      | .3   |       |       |       |       |       |       |       | .3    | 7.3          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 30.9  | ////         |
| TOTALS                 | 25.3                                 | 21.9 | 17.2 | 4.6   | .1    |       |       |       |       |       | 100.0 | 3.7          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.2                  | 2.4  | 1.7  | .3    |       |       |       |       |       |       |       | 6.6        | 5.3          |
| NNE                    | 1.0                  | 1.4  | 1.1  | .2    |       |       |       |       |       |       |       | 3.6        | 5.5          |
| NE                     | .6                   | .8   | .9   | .0    |       |       |       |       |       |       |       | 2.3        | 5.7          |
| ENE                    | .4                   | .7   | .9   | .1    |       |       |       |       |       |       |       | 2.2        | 6.4          |
| E                      | .7                   | 1.4  | 1.1  | .2    |       |       |       |       |       |       |       | 3.4        | 5.9          |
| ESE                    | .6                   | 1.0  | .5   | .1    |       |       |       |       |       |       |       | 2.1        | 5.1          |
| SE                     | .6                   | 1.1  | .5   | .1    | .0    |       |       |       |       |       |       | 2.2        | 5.4          |
| SSE                    | .8                   | 1.2  | 1.2  | .3    |       |       |       |       |       |       |       | 3.5        | 6.1          |
| S                      | 1.5                  | 1.9  | 2.0  | 1.4   | .1    |       |       |       |       |       |       | 7.6        | 7.2          |
| SSW                    | 1.2                  | 1.6  | 2.5  | 1.3   | .1    | .0    |       |       |       |       |       | 6.6        | 7.7          |
| SW                     | 1.1                  | 1.9  | 2.3  | 1.8   | .3    | .0    |       |       |       |       |       | 7.4        | 8.2          |
| WSW                    | 1.2                  | 2.5  | 2.7  | 1.6   | .2    |       |       |       |       |       |       | 9.2        | 7.6          |
| W                      | 2.3                  | 3.5  | 3.5  | 1.5   | .1    | .0    |       |       |       |       |       | 17.8       | 6.7          |
| WNW                    | 2.5                  | 2.2  | 1.9  | .3    | .0    |       |       |       |       |       |       | 7.0        | 5.3          |
| NW                     | 2.1                  | 1.7  | 1.6  | .2    |       |       |       |       |       |       |       | 5.5        | 5.0          |
| NNW                    | 1.5                  | 1.5  | 1.3  | .3    |       |       |       |       |       |       |       | 4.6        | 5.4          |
| VARIABLE               |                      | .1   | .9   | .2    | .0    |       |       |       |       |       |       | 1.3        | 9.3          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 15.1       | ////         |
| TOTALS                 | 20.4                 | 26.6 | 27.3 | 9.6   | .8    | .1    |       |       |       |       |       | 107.0      | 5.5          |

TOTAL NUMBER OF OBSERVATIONS: 7439

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87  
MONTH: SEP HOURS(LST): 0000-0400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |              |
| N                      | 2.0                  | 1.6  | .7   |       |       |       |       |       |       |       | 4.2   | 4.1          |
| NNE                    | 1.4                  | .4   | .2   |       |       |       |       |       |       |       | 2.1   | 3.3          |
| NE                     | .2                   | .1   | .2   |       |       |       |       |       |       |       | .6    | 4.6          |
| ENE                    | .3                   | .1   | .3   |       |       |       |       |       |       |       | .8    | 5.1          |
| E                      | .4                   | .1   | .2   | .1    |       |       |       |       |       |       | .9    | 5.3          |
| ESE                    | .3                   | .6   | .2   |       |       |       |       |       |       |       | 1.1   | 4.4          |
| SE                     | .4                   | .6   | .1   |       |       |       |       |       |       |       | 1.1   | 3.7          |
| SSE                    | .8                   | .4   | 1.0  | .3    |       |       |       |       |       |       | 2.6   | 6.6          |
| S                      | 2.0                  | .4   | .9   | .6    |       |       |       |       |       |       | 3.9   | 5.6          |
| SSW                    | 1.3                  | 1.4  | 2.3  | 1.6   | .4    | .2    |       |       |       |       | 7.3   | 8.7          |
| SW                     | 2.3                  | 3.2  | 3.7  | 1.2   | .3    |       |       |       |       |       | 10.6  | 6.9          |
| WSW                    | 2.2                  | 4.7  | 5.8  | 1.1   | .1    | .2    |       |       |       |       | 14.1  | 7.1          |
| W                      | 5.4                  | 5.7  | 3.1  | 1.3   |       |       |       |       |       |       | 15.6  | 5.4          |
| WNW                    | 2.7                  | 3.7  | 1.3  | .3    |       |       |       |       |       |       | 8.2   | 4.9          |
| NW                     | 2.0                  | 2.8  | .9   | .2    |       |       |       |       |       |       | 5.9   | 4.8          |
| NNW                    | 1.4                  | .3   | .7   |       |       |       |       |       |       |       | 2.4   | 3.8          |
| VARIABLE               |                      |      |      |       |       |       |       |       |       |       |       |              |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 18.9  | ////         |
| TOTALS                 | 25.4                 | 25.9 | 21.7 | 6.8   | .9    | .4    |       |       |       |       | 100.0 | 4.8          |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM POLARLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.4                  | 1.1  | 1.2  |       |       |       |       |       |       |       | 3.8        | 4.8          |
| NNE                    | 1.2                  | .4   | .3   |       |       |       |       |       |       |       | 2.7        | 4.1          |
| NE                     | .1                   |      | .1   |       |       |       |       |       |       |       | .2         | 5.0          |
| ENE                    |                      | .2   | .3   |       |       |       |       |       |       |       | .6         | 6.4          |
| E                      | .7                   | .6   | .4   |       |       |       |       |       |       |       | 1.7        | 4.5          |
| ESE                    | .3                   |      |      |       |       |       |       |       |       |       | .3         | 2.7          |
| SE                     | .3                   | .4   | .1   |       |       |       |       |       |       |       | .9         | 4.4          |
| SSE                    | .3                   | .4   | .4   | .2    |       |       |       |       |       |       | 1.4        | 6.8          |
| S                      | 1.6                  | 1.6  | .7   | .4    |       |       |       |       |       |       | 4.2        | 5.5          |
| SSW                    | .8                   | 2.0  | 2.0  | 1.3   | .2    |       |       |       |       |       | 6.3        | 8.0          |
| SW                     | 1.6                  | 3.2  | 3.1  | 1.3   | .1    | .1    |       |       |       |       | 9.4        | 7.2          |
| WSW                    | 2.9                  | 3.3  | 4.2  | 2.1   | .3    | .1    |       |       |       |       | 13.0       | 7.4          |
| W                      | 5.7                  | 6.7  | 3.7  | 1.0   | .3    | .1    |       |       |       |       | 17.4       | 5.6          |
| WNW                    | 3.3                  | 4.2  | .6   | .6    |       |       |       |       |       |       | 8.7        | 4.6          |
| NW                     | .9                   | 1.6  | 1.2  |       |       |       |       |       |       |       | 3.7        | 5.1          |
| NNW                    | 1.4                  | 1.6  | .6   |       |       |       |       |       |       |       | 3.6        | 4.3          |
| VARIABLE               |                      |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 22.8       | ////         |
| TOTALS                 | 22.6                 | 27.3 | 19.0 | 7.0   | 1.0   | .3    |       |       |       |       | 100.0      | 4.6          |

TOTAL NUMBER OF OBSERVATIONS: 920

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM POORLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 73-87  
MONTH: SEP HOURS(151): 0607-0600

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.0                  | 1.4  | 1.3  |       |       |       |       |       |       |       |       | 4.7        | 4.6          |
| NNE                    | .9                   | .9   | .4   | .1    |       |       |       |       |       |       |       | 2.3        | 5.2          |
| NE                     | .4                   | .6   | .3   |       |       |       |       |       |       |       |       | 1.3        | 4.6          |
| ENE                    | .2                   |      | .4   |       |       |       |       |       |       |       |       | .7         | 6.5          |
| E                      | .6                   | .6   | .7   |       |       |       |       |       |       |       |       | 1.9        | 5.1          |
| ESE                    | .6                   | .2   | .3   |       |       |       |       |       |       |       |       | 1.1        | 4.3          |
| SE                     | .2                   | .3   | .1   | .2    | .1    |       |       |       |       |       |       | 1.0        | 8.3          |
| SSE                    | .3                   | 1.0  | .3   |       | .1    |       |       |       |       |       |       | 1.8        | 5.3          |
| S                      | .9                   | 2.3  | 1.1  | 1.0   |       |       |       |       |       |       |       | 5.3        | 7.0          |
| SSW                    | 1.8                  | 2.6  | 1.2  | 1.3   |       |       |       |       |       |       |       | 6.9        | 6.7          |
| SW                     | 1.2                  | 2.9  | 2.9  | .8    | .2    | .1    |       |       |       |       |       | 8.1        | 7.2          |
| WSW                    | 1.6                  | 4.4  | 4.8  | 2.3   | .6    | .2    |       |       |       |       |       | 13.9       | 8.0          |
| W                      | 3.1                  | 6.3  | 6.1  | 2.1   | .6    | .1    |       |       |       |       |       | 19.3       | 7.1          |
| WNW                    | 2.9                  | 3.3  | 2.9  | .4    |       |       |       |       |       |       |       | 9.6        | 5.4          |
| NW                     | .7                   | 2.7  | 1.6  | .1    |       |       |       |       |       |       |       | 5.0        | 5.6          |
| NNW                    | 1.0                  | 1.1  | 1.0  |       |       |       |       |       |       |       |       | 3.1        | 5.0          |
| VARIABLE               |                      |      | .2   |       |       |       |       |       |       |       |       | .2         | 9.0          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 14.8       | ////         |
| TOTALS                 | 18.3                 | 30.7 | 25.8 | 8.4   | 1.6   | .4    |       |       |       |       |       | 107.0      | 5.6          |

TOTAL NUMBER OF OBSERVATIONS: 907

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 74-87  
MONTH: SEP HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .4                                   | 2.0  | 1.6  | .1    | .1    | .1    |       |       |       |       | 4.3        | 6.8          |
| NNE                    | .6                                   | 1.4  | .9   | .2    |       |       |       |       |       |       | 3.1        | 6.0          |
| NE                     | .2                                   | .3   | .7   | .9    |       |       |       |       |       |       | 2.1        | 8.9          |
| ENE                    |                                      | .4   | 1.1  | .2    |       |       |       |       |       |       | 1.8        | 8.0          |
| E                      | .4                                   | .9   | .2   | .6    |       |       |       |       |       |       | 2.1        | 6.7          |
| ESE                    | .2                                   | 1.0  | .3   | .4    |       |       |       |       |       |       | 2.0        | 7.1          |
| SE                     | .3                                   | .8   | .7   |       |       |       |       |       |       |       | 1.8        | 5.8          |
| SSE                    | .3                                   | .9   | 1.6  | .3    | .2    | .1    |       |       |       |       | 3.4        | 8.2          |
| S                      | 1.1                                  | 1.7  | 2.3  | 2.2   | .2    |       |       |       |       |       | 7.6        | 8.5          |
| SSW                    | .7                                   | 1.7  | 2.9  | 2.0   | .9    |       |       |       |       |       | 8.1        | 9.7          |
| SW                     | .3                                   | 1.7  | 3.7  | 2.3   |       | .1    |       |       |       |       | 8.1        | 9.2          |
| WSW                    | .4                                   | 2.2  | 4.7  | 2.7   | .7    |       |       |       |       |       | 10.7       | 9.5          |
| W                      | .7                                   | 3.9  | 7.8  | 4.3   | .6    | .3    |       |       |       |       | 17.4       | 9.3          |
| WNW                    | 1.3                                  | 2.0  | 3.9  | 1.8   | .1    | .1    |       |       |       |       | 9.2        | 8.1          |
| NW                     | .9                                   | 2.3  | 3.1  | .6    |       |       |       |       |       |       | 6.9        | 7.0          |
| NNW                    | .2                                   | 1.6  | 2.8  | .3    |       |       |       |       |       |       | 4.9        | 7.6          |
| VARIABLE               | .1                                   | .4   | 2.1  | .3    | .3    | .1    |       |       |       |       | 3.4        | 9.8          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 3.0        | ////         |
| TOTALS                 | 8.3                                  | 25.1 | 40.2 | 19.3  | 3.1   | .9    |       |       |       |       | 100.0      | 8.2          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS(IST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 |            |              |
| N                      | .8                   | 2.2  | 2.0  | .4    | .2    |       |       |       | 5.7        | 7.0          |
| NNE                    | .1                   | .3   | 1.2  | .3    |       |       |       |       | 2.0        | 8.2          |
| NE                     | .2                   | .8   | .4   | .4    |       |       |       |       | 1.9        | 7.2          |
| ENE                    |                      | .3   | 1.6  | .9    |       |       |       |       | 2.8        | 9.3          |
| E                      | .7                   | .9   | 1.2  | .4    |       |       |       |       | 3.2        | 6.8          |
| ESE                    | .3                   | .2   | .8   | .3    |       |       |       |       | 1.7        | 7.5          |
| SE                     | .2                   | .8   | 1.1  | .1    |       |       |       |       | 2.2        | 6.3          |
| SSE                    | .2                   | 2.1  | 3.9  | .1    |       |       |       |       | 6.3        | 7.1          |
| S                      | .4                   | 1.8  | 5.7  | 2.4   | .7    | .2    |       |       | 11.2       | 9.7          |
| SSW                    | .4                   | 1.4  | 3.1  | 3.1   | .4    | .1    |       |       | 9.7        | 10.0         |
| SW                     | .3                   | 1.1  | 3.7  | 3.2   | .1    |       |       |       | 8.4        | 10.0         |
| WSW                    | .4                   | 1.1  | 3.9  | 3.6   | .6    | .3    | .1    |       | 10.3       | 10.9         |
| W                      | 1.0                  | 2.1  | 4.3  | 4.3   | 1.0   | .3    |       |       | 13.1       | 12.2         |
| WNW                    | .6                   | 2.0  | 4.6  | 1.7   |       |       |       |       | 8.8        | 8.3          |
| NW                     | .9                   | 1.0  | 1.8  | .9    |       |       |       |       | 5.4        | 6.9          |
| NNW                    | .2                   | 1.8  | .9   | .3    | .1    |       |       |       | 3.3        | 7.0          |
| VARIABLE               |                      |      | 3.0  | 1.0   | .3    |       | .1    |       | 4.4        | 10.8         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       | .8         | ////         |
| TOTALS                 | 6.9                  | 20.9 | 43.1 | 23.7  | 3.4   | 1.7   | .2    |       | 100.0      | 8.9          |

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS (LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |       |              |
| N                      | .6                   | 1.7  | 1.9  | .8    | .1    |       |       |       |       |       |       | 5.0   | 7.4          |
| NNE                    | .7                   | .4   | 1.1  |       |       |       |       |       |       |       |       | 2.2   | 5.7          |
| NE                     | .4                   | .9   | 1.1  | .2    |       |       |       |       |       |       |       | 2.7   | 6.8          |
| ENE                    | .3                   | .8   | 1.8  | .4    |       |       |       |       |       |       |       | 3.3   | 7.4          |
| E                      | .2                   | 1.0  | 1.8  | .1    |       |       |       |       |       |       |       | 3.1   | 6.9          |
| ESE                    | 1.1                  | .4   | .6   |       |       |       |       |       |       |       |       | 2.1   | 4.5          |
| SE                     | 1.0                  | 1.8  | 1.6  | .1    |       |       |       |       |       |       |       | 4.4   | 5.5          |
| SSE                    | .6                   | 3.0  | 2.8  | .4    |       |       |       |       |       |       |       | 6.8   | 7.0          |
| S                      | 1.2                  | 3.8  | 6.3  | 1.4   | .2    |       |       |       |       |       |       | 13.0  | 7.5          |
| SSW                    | .2                   | 2.4  | 4.2  | 3.4   | .1    |       |       |       |       |       |       | 10.4  | 9.4          |
| SW                     | .3                   | 1.3  | 2.8  | 2.0   | .2    | .1    |       |       |       |       |       | 6.8   | 9.7          |
| WSW                    | .6                   | 1.6  | 3.0  | 1.4   | .2    |       |       |       |       |       |       | 6.8   | 8.5          |
| W                      | .9                   | 2.7  | 5.4  | 3.2   | .4    | .2    |       |       |       |       |       | 12.9  | 9.2          |
| WNW                    | 1.0                  | 1.9  | 4.0  | 1.7   |       |       |       |       |       |       |       | 8.6   | 8.0          |
| NW                     | 1.1                  | 2.9  | 1.6  | .6    |       |       |       |       |       |       |       | 6.1   | 6.0          |
| NNW                    | .6                   | 1.8  | .8   |       |       |       |       |       |       |       |       | 3.1   | 5.4          |
| VARIABLE               |                      | .1   | .9   | .4    | .3    | .3    |       |       |       |       |       | 2.1   | 13.1         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | .6    | ////         |
| TOTALS                 | 10.8                 | 28.4 | 41.6 | 16.3  | 1.7   | .7    |       |       |       |       |       | 100.0 | 7.8          |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS(LOCAL): 1800-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 2.1                                  | 2.7  | .9   | .3    |       |       |       |       |       |       | 5.3        | 4.6          |
| NNE                    | 1.1                                  | 1.3  | .4   | .1    |       |       |       |       |       |       | 3.0        | 4.6          |
| NE                     | .9                                   | 1.0  | .3   | .2    |       |       |       |       |       |       | 2.4        | 4.8          |
| ENE                    | .3                                   | .4   | .1   |       |       |       |       |       |       |       | .9         | 4.5          |
| E                      | 1.8                                  | 1.2  | .2   | .1    |       |       |       |       |       |       | 3.3        | 4.0          |
| ESE                    | 1.4                                  | 1.1  |      | .2    |       |       |       |       |       |       | 2.8        | 4.1          |
| SF                     | 1.7                                  | .6   | .6   |       |       |       |       |       |       |       | 2.9        | 3.9          |
| SSE                    | 3.6                                  | 1.7  | .4   | .2    |       |       |       |       |       |       | 5.9        | 3.7          |
| S                      | 3.4                                  | 2.6  | 2.1  | 1.1   |       | .1    |       |       |       |       | 9.3        | 5.8          |
| SSW                    | 2.3                                  | 2.4  | 4.0  | 2.7   | .3    |       |       |       |       |       | 11.1       | 7.7          |
| SW                     | 2.1                                  | 2.3  | 2.4  | 1.9   | .1    |       |       |       |       |       | 8.9        | 7.4          |
| WSW                    | 2.2                                  | 2.4  | 2.0  | 1.0   |       |       |       |       |       |       | 7.7        | 5.9          |
| W                      | 2.8                                  | 3.0  | 2.8  | 1.4   | .4    |       |       |       |       |       | 10.4       | 6.9          |
| WNW                    | 2.2                                  | 3.1  | 1.4  | .3    |       |       |       |       |       |       | 7.1        | 5.2          |
| NW                     | 1.1                                  | 1.2  | 1.1  | .2    |       |       |       |       |       |       | 3.7        | 5.8          |
| NNW                    | .6                                   | .4   | .6   | .1    |       |       |       |       |       |       | 1.7        | 5.5          |
| VARIABLE               |                                      |      | .2   | .2    | .1    |       |       |       |       |       | .6         | 14.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 13.1       | ////         |
| TOTALS                 | 29.7                                 | 26.9 | 19.7 | 9.6   | 1.0   | .1    |       |       |       |       | 100.0      | 5.1          |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |              |
| N                      | 1.8                                  | 2.8  | .8   |       |       |       |       |       |       |       | 5.3   | 4.4          |
| NNE                    | .7                                   | .8   |      |       |       |       |       |       |       |       | 1.4   | 3.7          |
| NE                     | .4                                   |      | .2   |       |       |       |       |       |       |       | .7    | 4.2          |
| ENE                    | .2                                   | .1   | .2   |       |       |       |       |       |       |       | .6    | 4.6          |
| E                      | .9                                   | .4   | .7   | .1    |       |       |       |       |       |       | 2.1   | 5.1          |
| ESE                    | .9                                   | .8   | .2   |       |       |       |       |       |       |       | 1.9   | 3.9          |
| SE                     | 1.1                                  | .1   | .4   | .1    |       |       |       |       |       |       | 1.8   | 5.1          |
| SSE                    | 1.9                                  | .8   | .9   | .1    |       |       |       |       |       |       | 3.7   | 4.5          |
| S                      | 2.6                                  | 1.4  | 1.3  | 1.0   | .1    | .2    |       |       |       |       | 6.7   | 6.6          |
| SSW                    | 1.3                                  | 1.0  | 2.6  | 1.0   | .2    | .1    |       |       |       |       | 6.2   | 8.0          |
| SW                     | 1.8                                  | 2.8  | 3.7  | 2.2   |       |       |       |       |       |       | 17.4  | 7.5          |
| WSW                    | 2.6                                  | 4.0  | 3.0  | 1.0   | .2    |       |       |       |       |       | 17.8  | 6.5          |
| W                      | 4.1                                  | 4.1  | 3.9  | 2.0   | .1    |       |       |       |       |       | 14.2  | 6.3          |
| WNW                    | 2.4                                  | 2.9  | 1.3  | .2    |       |       |       |       |       |       | 6.9   | 4.8          |
| NW                     | 1.0                                  | 1.8  | .8   | .1    |       |       |       |       |       |       | 3.7   | 5.2          |
| NNW                    | .6                                   | 1.3  |      | .2    |       |       |       |       |       |       | 2.1   | 5.1          |
| VARIABLE               |                                      |      | .3   |       |       |       |       |       |       |       | .3    | 9.0          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 21.2  | ////         |
| TOTALS                 | 24.2                                 | 25.1 | 20.3 | 8.1   | .7    | .3    |       |       |       |       | 100.0 | 4.8          |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS/DAYS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 |       |              |
| N                      | 1.4                                  | 1.8  | 1.3  | .2    | .1    | .0    |       |       | 4.8   | 5.5          |
| NNE                    | .8                                   | .9   | .6   | .1    |       |       |       |       | 2.3   | 5.1          |
| NE                     | .4                                   | .5   | .4   | .2    |       |       |       |       | 1.5   | 6.3          |
| ENE                    | .2                                   | .3   | .7   | .2    |       |       |       |       | 1.4   | 7.3          |
| E                      | .7                                   | .7   | .7   | .2    |       |       |       |       | 2.3   | 5.6          |
| ESE                    | .7                                   | .5   | .3   | .1    |       |       |       |       | 1.6   | 5.1          |
| SE                     | .7                                   | .7   | .6   | .1    | .0    |       |       |       | 2.0   | 5.3          |
| SSE                    | 1.0                                  | 1.3  | 1.4  | .2    | .0    | .0    |       |       | 4.0   | 6.1          |
| S                      | 1.7                                  | 1.9  | 2.6  | 1.3   | .2    | .1    |       |       | 7.7   | 7.4          |
| SSW                    | 1.1                                  | 1.9  | 2.8  | 2.0   | .3    | .1    |       |       | 8.1   | 8.6          |
| SW                     | 1.2                                  | 2.3  | 3.2  | 1.9   | .1    | .1    |       |       | 9.8   | 8.0          |
| WSW                    | 1.6                                  | 3.0  | 3.9  | 1.9   | .3    | .1    | .0    |       | 10.9  | 7.9          |
| W                      | 3.0                                  | 4.3  | 4.6  | 2.5   | .4    | .1    |       |       | 14.9  | 7.4          |
| WNW                    | 2.1                                  | 2.9  | 2.5  | .9    | .0    | .0    |       |       | 8.3   | 6.2          |
| NW                     | 1.1                                  | 2.1  | 1.5  | .3    |       |       |       |       | 5.0   | 5.9          |
| NNW                    | .7                                   | 1.2  | .9   | .1    | .0    |       |       |       | 3.0   | 5.7          |
| VARIABLE               | .0                                   | .1   | .8   | .2    | .1    | .1    | .0    |       | 1.4   | 11.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       | 11.9  | ////         |
| TOTALS                 | 18.3                                 | 26.3 | 28.9 | 12.4  | 1.7   | .5    | .0    |       | 100.0 | 6.2          |

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(IST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.7                                  | 2.0  | .1   |       |       |       |       |       |       |       | 3.9        | 3.6          |
| NNE                    | .3                                   | .2   |      |       |       |       |       |       |       |       | .5         | 3.2          |
| NE                     | .2                                   |      |      |       |       |       |       |       |       |       | .2         | 2.5          |
| ENE                    | .2                                   | .3   | .4   | .1    |       |       |       |       |       |       | 1.1        | 6.2          |
| E                      | 1.1                                  | .6   | 1.2  | .8    |       |       |       |       |       |       | 3.7        | 6.7          |
| ESE                    | .4                                   | .9   | .6   | .3    |       |       |       |       |       |       | 2.3        | 6.6          |
| SE                     | .6                                   | .3   | .9   |       |       |       |       |       |       |       | 1.8        | 5.8          |
| SSE                    | .5                                   | 1.2  | .3   | .2    |       |       |       |       |       |       | 2.3        | 5.5          |
| S                      | 1.1                                  | 3.1  | 2.3  | 1.8   | .2    |       |       |       |       |       | 8.5        | 7.5          |
| SSW                    | 1.0                                  | 1.4  | 4.2  | 2.2   | .1    |       |       |       |       |       | 9.8        | 8.5          |
| SW                     | 1.5                                  | 2.4  | 2.8  | 1.5   |       | .1    |       |       |       |       | 8.3        | 7.3          |
| WSW                    | 1.6                                  | 3.8  | 3.9  | 4.4   | .4    | .1    |       |       |       |       | 14.2       | 8.7          |
| W                      | 2.2                                  | 3.7  | 2.3  | 1.7   |       | .1    |       |       |       |       | 9.9        | 6.8          |
| WNW                    | 1.4                                  | 1.6  | 1.3  | .2    |       |       |       |       |       |       | 4.5        | 5.6          |
| NW                     | 1.7                                  | 1.7  | 1.0  | .1    |       |       |       |       |       |       | 4.1        | 4.7          |
| NNW                    | 1.1                                  | 2.0  | .6   | .4    |       |       |       |       |       |       | 4.2        | 5.5          |
| VARIABLE               |                                      |      | .2   |       |       |       |       |       |       |       | .2         | 9.5          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 21.6       | ////         |
| TOTALS                 | 16.7                                 | 24.8 | 22.0 | 13.8  | .8    | .3    |       |       |       |       | 100.0      | 5.4          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(EST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |       |              |
| N                      | 2.2                  | 2.2  | .5   |       |       |       |       |       |       |       |       | 4.8   | 3.9          |
| NNE                    | 1.1                  | .4   | .1   |       |       |       |       |       |       |       |       | 1.6   | 3.1          |
| NE                     | .2                   | .2   | .2   |       |       |       |       |       |       |       |       | .6    | 5.2          |
| ENE                    | .4                   | .1   | .3   |       |       |       |       |       |       |       |       | .9    | 5.3          |
| E                      | .9                   | .4   | .5   | .6    |       |       |       |       |       |       |       | 2.5   | 6.7          |
| ESE                    | .5                   | .3   | .4   | .3    |       |       |       |       |       |       |       | 1.6   | 6.1          |
| SE                     | .5                   | .2   | .1   | .1    |       |       |       |       |       |       |       | 1.5   | 4.9          |
| SSE                    | .5                   | 1.5  | .6   | .1    |       |       |       |       |       |       |       | 2.8   | 5.4          |
| S                      | 1.3                  | 2.3  | 3.9  | 1.6   |       |       |       |       |       |       |       | 9.9   | 7.4          |
| SSW                    | .8                   | 2.0  | 3.2  | 2.5   |       |       |       | .1    | .1    |       |       | 8.7   | 9.3          |
| SW                     | 1.7                  | 2.0  | 2.6  | 1.9   | .1    |       |       |       | .1    |       |       | 4.5   | 8.2          |
| WSW                    | 2.9                  | 3.5  | 2.9  | 1.7   | .3    |       |       |       |       |       |       | 11.4  | 6.9          |
| W                      | 2.8                  | 3.8  | 3.7  | 2.0   | .5    |       |       |       |       |       |       | 12.4  | 7.3          |
| WNW                    | 1.1                  | 1.5  | 1.5  | .5    |       |       |       |       |       |       |       | 4.6   | 6.3          |
| NW                     | 1.6                  | 1.5  | 1.4  | .1    |       |       |       |       |       |       |       | 4.6   | 5.0          |
| NNW                    | 1.4                  | 1.8  | .4   | .3    |       |       |       |       |       |       |       | 4.0   | 4.7          |
| VARIABLE               |                      |      | .2   | .1    |       |       |       |       |       |       |       | .3    | 10.7         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 19.7  | ////         |
| TOTALS                 | 19.9                 | 24.4 | 22.7 | 12.0  | 1.0   |       |       | .1    | .2    |       |       | 100.3 | 5.4          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.7                                  | 1.6  | .9   |       |       |       |       |       |       |       | 4.2        | 4.7          |
| NNE                    | .9                                   | .5   | .1   |       |       |       |       |       |       |       | 1.5        | 3.6          |
| NE                     | .3                                   | .2   |      |       |       |       |       |       |       |       | .5         | 3.4          |
| ENE                    | .2                                   | .6   | .2   | .2    | .2    |       |       |       |       |       | 1.5        | 8.0          |
| E                      | .6                                   | .9   | .8   | .3    | .1    |       |       |       |       |       | 2.7        | 6.5          |
| ESE                    | .5                                   | 1.2  | .4   | .2    |       |       |       |       |       |       | 2.4        | 5.7          |
| SE                     | .5                                   | 1.0  | 1.0  | .2    |       |       |       |       |       |       | 2.7        | 6.4          |
| SSE                    | 1.1                                  | 1.1  | .5   |       |       |       |       |       |       |       | 2.7        | 4.3          |
| S                      | 1.0                                  | 2.2  | 4.0  | 2.2   | .3    |       |       |       |       |       | 9.6        | 8.8          |
| SSW                    | .5                                   | 2.0  | 3.1  | 2.0   | .1    |       |       |       |       | .1    | 8.7        | 9.2          |
| SW                     | 1.2                                  | 2.5  | 3.2  | 2.8   | .2    |       |       |       |       | .1    | 10.0       | 8.7          |
| WSW                    | 2.3                                  | 4.2  | 1.9  | 2.0   |       |       |       |       |       | .1    | 17.5       | 7.2          |
| W                      | 2.8                                  | 3.5  | 4.7  | 3.1   | .1    |       |       |       |       |       | 14.3       | 7.6          |
| WNW                    | 2.0                                  | 1.4  | 1.6  | .2    |       |       |       |       |       |       | 5.3        | 5.4          |
| NW                     | .6                                   | 2.5  | .6   | .2    |       |       |       |       |       |       | 4.0        | 5.5          |
| NNW                    | 1.3                                  | 2.7  | .9   | .2    |       |       |       |       |       |       | 5.1        | 4.8          |
| VARIABLE               |                                      |      | .2   | .1    |       |       |       |       |       |       | .3         | 10.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 14.8       | ////         |
| TOTALS                 | 17.6                                 | 28.1 | 24.2 | 13.9  | 1.1   |       |       |       |       | .3    | 100.0      | 6.0          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 74-47  
MONTH: OCT HOURS(1511): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.2                                  | 2.8  | 1.4  | .1    | .1    |       |       |       |       |       | 5.6        | 5.4          |
| NNE                    | .8                                   | .4   | .8   | .2    |       |       |       |       |       |       | 2.2        | 6.4          |
| NE                     | .1                                   | 1.0  | .3   | .1    |       |       |       |       |       |       | 1.5        | 5.7          |
| ENE                    | .1                                   | .3   | .3   | .5    |       |       |       |       |       |       | 1.3        | 8.8          |
| E                      | .2                                   | .6   | 1.3  | .8    |       |       |       |       |       |       | 2.9        | 8.8          |
| ESE                    | .5                                   | .9   | 1.7  | .2    |       |       |       |       |       |       | 3.3        | 7.0          |
| SE                     | .3                                   | 1.4  | 1.8  | .3    |       |       |       |       |       |       | 3.9        | 6.8          |
| SSE                    | .3                                   | 1.6  | 1.7  | .4    |       |       |       |       |       |       | 4.1        | 6.7          |
| S                      | .5                                   | 1.7  | 4.4  | 2.4   | 1.5   |       |       |       |       |       | 17.5       | 10.5         |
| SSW                    | .9                                   | 1.7  | 2.7  | 3.4   | .4    |       |       |       |       |       | 9.1        | 9.8          |
| SW                     | .5                                   | 1.7  | 4.1  | 4.4   | .1    |       |       |       |       |       | 16.4       | 10.1         |
| WSW                    | .4                                   | 1.9  | 3.1  | 2.9   | .6    | .3    | .3    |       |       |       | 9.7        | 10.8         |
| W                      | 1.4                                  | 2.5  | 5.9  | 3.3   | 1.0   | .2    | .1    |       |       |       | 14.2       | 9.6          |
| WNW                    | 1.3                                  | 1.4  | 2.4  | 1.1   | .1    |       |       |       |       |       | 6.2        | 7.5          |
| NW                     | 1.1                                  | 1.7  | 2.2  | .5    |       |       |       |       |       |       | 5.5        | 6.7          |
| NNW                    | .8                                   | 1.6  | 1.4  | .2    |       |       |       |       |       |       | 4.7        | 6.1          |
| VARIABLE               |                                      |      | .6   | .2    |       |       |       |       |       |       | .9         | 9.8          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 4.7        | ////         |
| TOTALS                 | 10.4                                 | 22.7 | 36.1 | 21.2  | 3.9   | .5    | .4    |       |       |       | 100.0      | 8.3          |

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-87  
MONTH: OCT HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.2                                  | 1.2  | 1.9  | .2    |       |       |       |       |       |       | 4.5        | 6.1          |
| NNE                    | .3                                   | 1.5  | 1.3  |       |       |       |       |       |       |       | 3.1        | 6.0          |
| NE                     | .1                                   | .6   | .8   | .2    |       |       |       |       |       |       | 1.7        | 7.7          |
| ENE                    | .2                                   | .9   | 1.1  | .1    |       |       |       |       |       |       | 2.3        | 6.8          |
| E                      | .1                                   | .6   | 1.8  | .8    |       |       |       |       |       |       | 3.3        | 8.8          |
| ESE                    |                                      | 1.2  | 1.5  | .5    |       |       |       |       |       |       | 3.2        | 8.1          |
| SE                     | .4                                   | .9   | 2.2  | .4    |       |       |       |       |       |       | 3.9        | 7.5          |
| SSE                    | .4                                   | 2.3  | 2.0  | .4    |       |       |       |       |       |       | 5.2        | 6.7          |
| S                      | .2                                   | 1.6  | 4.3  | 4.2   | 1.1   | .3    |       |       |       |       | 11.7       | 10.9         |
| SSW                    | .2                                   | 1.4  | 3.5  | 2.2   | 1.2   | .2    |       |       |       |       | 8.7        | 10.9         |
| SW                     | .3                                   | 1.7  | 3.8  | 4.3   | .8    |       |       |       |       |       | 10.9       | 10.4         |
| WSW                    | .4                                   | 1.3  | 2.9  | 3.2   | 1.0   | .3    |       |       |       |       | 9.1        | 11.3         |
| W                      | 1.0                                  | 1.9  | 3.8  | 4.2   | .8    | .2    |       |       |       |       | 11.8       | 10.3         |
| WNW                    | .4                                   | 1.2  | 3.0  | 1.6   | .4    |       |       |       |       |       | 6.7        | 9.6          |
| NW                     | .9                                   | 1.7  | 1.6  | 1.1   | .1    |       |       |       |       |       | 5.4        | 7.3          |
| NNW                    | .2                                   | 2.0  | 1.5  | .5    |       |       |       |       |       |       | 4.3        | 7.1          |
| VARIABLE               |                                      | .2   | 1.2  | .8    |       |       |       |       |       |       | 2.2        | 10.1         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 2.0        | ////         |
| TOTALS                 | 6.5                                  | 22.3 | 38.2 | 24.7  | 5.3   | 1.1   |       |       |       |       | 107.0      | 9.1          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.6                                  | 2.6  | 1.9  | .2    |       |       |       |       |       |       | 6.3        | 5.4          |
| NNE                    | .8                                   | .9   | .4   |       |       |       |       |       |       |       | 2.0        | 4.5          |
| NE                     | .6                                   | 1.2  | .2   | .7    |       |       |       |       |       |       | 2.3        | 5.2          |
| ENE                    | .6                                   | 1.1  | .5   | .1    |       |       |       |       |       |       | 2.4        | 5.2          |
| E                      | .5                                   | .6   | 2.5  | .8    |       |       |       |       |       |       | 4.4        | 8.0          |
| ESE                    | .4                                   | 1.1  | 1.1  |       |       |       |       |       |       |       | 2.6        | 6.0          |
| SE                     | .2                                   | 1.6  | 1.1  | .1    |       |       |       |       |       |       | 3.0        | 5.9          |
| SSE                    | .6                                   | 1.7  | 1.4  | .2    |       |       |       |       |       |       | 4.0        | 5.9          |
| S                      | 1.9                                  | 4.5  | 4.5  | 4.0   | .3    |       |       |       |       |       | 15.3       | 8.2          |
| SSW                    | 1.4                                  | 2.7  | 4.0  | 2.3   | .5    | .2    |       |       |       |       | 11.1       | 8.6          |
| SW                     | 1.4                                  | 1.9  | 2.7  | 2.8   | .6    |       |       |       |       |       | 9.5        | 8.8          |
| WSW                    | .3                                   | 1.3  | 1.9  | 1.9   | .5    |       |       |       |       |       | 6.0        | 10.0         |
| W                      | 1.0                                  | 2.4  | 4.9  | 3.8   | .2    |       |       |       |       |       | 12.3       | 9.3          |
| WNW                    | 1.8                                  | 1.9  | 2.5  | .2    | .2    |       |       |       |       |       | 6.7        | 6.1          |
| NW                     | .8                                   | .9   | 1.0  | .9    |       |       |       |       |       |       | 3.4        | 7.2          |
| NNW                    | 1.3                                  | 1.1  | .9   | .1    |       |       |       |       |       |       | 3.3        | 5.0          |
| VARIABLE               |                                      | .1   | 1.1  | .2    |       |       |       |       |       |       | 1.4        | 9.3          |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 4.1        | ////         |
| TOTALS                 | 15.4                                 | 27.5 | 32.6 | 17.7  | 2.5   | .2    |       |       |       |       | 100.0      | 7.3          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 79-87  
MONTH: OCT HOURS(IST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 2.7                                  | 2.6  | .4   |       |       |       |       |       |       |       | 5.7        | 3.5          |
| NNE                    | .9                                   | .2   | .2   | .1    |       |       |       |       |       |       | 1.4        | 4.6          |
| NE                     | 1.0                                  | .2   |      |       |       |       |       |       |       |       | 1.2        | 2.4          |
| ENE                    | .6                                   | .1   | .3   |       |       |       |       |       |       |       | 1.1        | 4.7          |
| E                      | .5                                   | 1.2  | 1.8  | .3    |       |       |       |       |       |       | 3.9        | 6.8          |
| ESE                    | .5                                   | .6   | 1.0  | .3    |       |       |       |       |       |       | 2.5        | 6.5          |
| SE                     | .6                                   | .2   | .4   | .4    |       |       |       |       |       |       | 1.7        | 6.8          |
| SSE                    | 1.2                                  | 1.1  | 1.0  | .2    | .1    |       |       |       |       |       | 3.5        | 5.8          |
| S                      | 1.8                                  | 3.8  | 2.6  | 3.0   | .1    | .2    |       |       |       |       | 11.5       | 7.8          |
| SSW                    | 1.1                                  | 3.7  | 4.5  | 2.0   | .5    | .2    |       |       |       |       | 12.0       | 6.4          |
| SW                     | 1.4                                  | 1.7  | 4.1  | 1.3   | .1    | .2    |       |       |       |       | 8.8        | 8.0          |
| WSW                    | 1.7                                  | 3.0  | 2.5  | 1.4   | .3    |       |       |       |       |       | 8.9        | 7.0          |
| W                      | 1.7                                  | 3.7  | 4.2  | 1.8   | .1    |       |       |       |       |       | 11.5       | 7.1          |
| WNW                    | .5                                   | .6   | .9   | .2    | .1    |       |       |       |       |       | 2.4        | 7.5          |
| NW                     | .5                                   | .2   | .8   | .5    |       |       |       |       |       |       | 2.0        | 7.4          |
| NNW                    | 1.3                                  | 1.6  | 1.2  |       |       |       |       |       |       |       | 4.1        | 4.9          |
| VARIABLE               |                                      |      | .1   | .2    |       |       |       |       |       |       | .3         | 10.3         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 17.4       | ////         |
| TOTALS                 | 18.2                                 | 24.5 | 25.9 | 11.9  | 1.4   | .6    |       |       |       |       | 100.0      | 5.7          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(IST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.4                                  | 1.1  | .6   |       |       |       |       |       |       |       |       | 4.1        | 3.9          |
| NNE                    | .3                                   | .2   | .2   |       |       |       |       |       |       |       |       | .8         | 4.6          |
| NE                     | .3                                   | .2   |      | .1    |       |       |       |       |       |       |       | .6         | 4.7          |
| ENE                    | .1                                   | .6   | .2   |       |       |       |       |       |       |       |       | 1.0        | 5.2          |
| E                      | .8                                   | .5   | 1.2  |       |       |       |       |       |       |       |       | 2.5        | 6.0          |
| ESE                    | .3                                   | 1.0  | 1.3  | .8    |       |       |       |       |       |       |       | 3.3        | 7.8          |
| SE                     | .4                                   | .6   | .8   | .3    |       |       |       |       |       |       |       | 2.2        | 7.1          |
| SSE                    | .9                                   | 1.1  | .5   | .3    |       |       |       |       |       |       |       | 2.8        | 6.0          |
| S                      | 1.5                                  | 1.7  | 1.3  | 2.2   | .8    |       |       |       |       |       |       | 7.4        | 8.7          |
| SSW                    | .9                                   | 2.2  | 4.3  | 2.4   | .3    | .1    |       |       |       |       |       | 17.1       | 8.6          |
| SW                     | .9                                   | 2.7  | 3.4  | 2.5   | .1    | .2    |       |       |       |       |       | 9.8        | 8.5          |
| WSW                    | 1.1                                  | 4.3  | 3.5  | 2.7   | .1    | .2    |       |       |       |       |       | 11.9       | 8.3          |
| W                      | 2.2                                  | 3.0  | 3.8  | 1.4   |       |       |       |       |       |       |       | 10.2       | 6.9          |
| WNW                    | .9                                   | .9   | 1.1  | .2    |       |       |       |       |       |       |       | 3.0        | 5.9          |
| NW                     | .8                                   | .8   | 1.1  | .5    |       |       |       |       |       |       |       | 3.1        | 6.4          |
| NNW                    | 1.9                                  | 1.1  | 1.4  | .2    |       |       |       |       |       |       |       | 4.6        | 5.2          |
| VARIABLE               |                                      |      | .1   | .2    |       |       |       |       |       |       |       | .3         | 11.7         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 22.3       | ////         |
| TOTALS                 | 15.4                                 | 21.9 | 24.8 | 13.8  | 1.3   | .5    |       |       |       |       |       | 100.0      | 5.7          |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(1ST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>Σ | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.8                                  | 2.0  | 1.0  | .1    | .0    |       |       |       |       |       |       | 4.9        | 4.6          |
| NNE                    | .7                                   | .6   | .4   | .0    |       |       |       |       |       |       |       | 1.6        | 4.9          |
| NE                     | .4                                   | .5   | .2   | .1    |       |       |       |       |       |       |       | 1.1        | 5.2          |
| ENE                    | .3                                   | .5   | .4   | .1    | .0    |       |       |       |       |       |       | 1.4        | 6.3          |
| E                      | .6                                   | .7   | 1.4  | .5    | .0    |       |       |       |       |       |       | 3.2        | 7.4          |
| ESE                    | .4                                   | .9   | 1.0  | .3    |       |       |       |       |       |       |       | 2.6        | 6.8          |
| SE                     | .5                                   | .8   | 1.0  | .2    |       |       |       |       |       |       |       | 2.6        | 6.5          |
| SSE                    | .7                                   | 1.4  | 1.0  | .2    | .0    |       |       |       |       |       |       | 3.4        | 5.9          |
| S                      | 1.2                                  | 2.6  | 3.4  | 2.7   | .5    | .1    |       |       |       |       |       | 17.4       | 8.8          |
| SSW                    | .8                                   | 2.1  | 3.7  | 2.4   | .4    | .1    |       | .0    | .0    | .0    |       | 9.6        | 9.1          |
| SW                     | 1.1                                  | 2.0  | 3.3  | 2.7   | .3    | .1    |       |       | .0    | .0    |       | 9.5        | 8.8          |
| WSW                    | 1.3                                  | 2.9  | 2.8  | 2.5   | .4    | .1    | .0    |       |       | .0    |       | 10.2       | 8.6          |
| W                      | 1.9                                  | 3.0  | 4.2  | 2.7   | .3    | .1    | .0    |       |       |       |       | 12.1       | 8.2          |
| WNW                    | 1.2                                  | 1.3  | 1.8  | .5    | .1    |       |       |       |       |       |       | 4.9        | 6.9          |
| NW                     | 1.0                                  | 1.3  | 1.2  | .5    | .0    |       |       |       |       |       |       | 4.0        | 6.2          |
| NNW                    | 1.2                                  | 1.7  | 1.0  | .3    |       |       |       |       |       |       |       | 4.2        | 5.4          |
| VARIABLE               |                                      | .0   | .5   | .2    |       |       |       |       |       |       |       | .7         | 10.0         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 13.3       | ////         |
| TOTALS                 | 15.0                                 | 24.5 | 28.3 | 16.1  | 2.1   | .4    | .1    | .7    | .0    | .0    |       | 100.0      | 6.6          |

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87  
MONTH: NOV HOURS(IST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.6                  | .9   | .5   | .3    |       |       |       |       |       |       | 3.3        | 5.1          |
| NNE                    | .6                   | .1   | .1   | .1    |       |       |       |       |       |       | .9         | 4.6          |
| NE                     | .5                   | .3   | .6   | .2    | .1    |       |       |       |       |       | 1.7        | 7.6          |
| ENE                    | .1                   | .1   | .1   | .9    |       | .2    |       |       |       |       | 1.5        | 13.0         |
| E                      | .2                   | .8   | .7   | .7    | .1    |       |       |       |       |       | 2.5        | 8.3          |
| ESE                    | .1                   | .1   | .3   | .6    |       |       |       |       |       |       | 1.1        | 9.7          |
| SE                     | .6                   | .2   | .3   | .6    |       |       |       |       |       |       | 1.7        | 7.5          |
| SSE                    | 1.0                  | 1.0  | 1.4  | .6    | .2    |       |       |       |       |       | 4.2        | 7.4          |
| S                      | .5                   | 2.7  | 3.2  | 2.4   | .9    | .3    |       |       |       |       | 9.2        | 10.2         |
| SSW                    | .8                   | 1.6  | 3.5  | 4.1   | .6    | .1    |       |       |       |       | 10.6       | 10.3         |
| SW                     | 1.4                  | 2.8  | 3.4  | 3.0   | .8    |       |       |       |       |       | 11.4       | 8.7          |
| WSW                    | .9                   | 3.8  | 2.6  | 3.8   |       | .1    |       |       |       |       | 11.3       | 8.6          |
| W                      | 1.6                  | 3.9  | 3.8  | 1.4   |       |       |       |       |       |       | 10.7       | 7.1          |
| WNW                    | 2.0                  | 3.2  | 3.0  | .3    | .1    |       |       |       |       |       | 8.7        | 6.2          |
| NW                     | 1.5                  | 1.6  | 1.2  | .1    |       |       |       |       |       |       | 4.4        | 5.2          |
| NNW                    | 1.4                  | 1.1  | 1.0  | .3    |       |       |       |       |       |       | 3.8        | 5.9          |
| VARIABLE               |                      |      | .2   | .1    |       |       |       |       |       |       | .3         | 11.3         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 12.8       | ////         |
| TOTALS                 | 14.5                 | 23.6 | 25.9 | 19.5  | 2.8   | .8    |       |       |       |       | 100.0      | 7.1          |

TOTAL NUMBER OF OBSERVATIONS: 868

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(IST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .9                   | 1.4  | .9   | .2    |       |       |       |       |       |       | 3.4        | 5.9          |
| NNE                    | .3                   | .2   | .3   | .2    |       |       |       |       |       |       | 1.1        | 7.0          |
| NE                     | .6                   | .7   | .1   | .6    |       |       |       |       |       |       | 1.6        | 7.2          |
| ENE                    | .3                   | .5   | .2   | .9    | .5    | .1    |       |       |       |       | 2.5        | 11.2         |
| E                      |                      | .3   | .6   | .3    |       |       |       |       |       |       | 1.2        | 8.5          |
| ESE                    | .7                   | .3   | .3   | .2    |       |       |       |       |       |       | 1.6        | 6.1          |
| SE                     | .3                   | .2   | .3   | .7    |       |       |       |       |       |       | 1.6        | 8.9          |
| SSE                    | .5                   | .8   | 1.1  | 1.2   |       |       |       |       |       |       | 3.6        | 8.2          |
| S                      | .6                   | 1.8  | 2.0  | 1.8   | .7    | .1    |       |       |       |       | 7.8        | 9.4          |
| SSW                    | .6                   | 1.7  | 4.4  | 4.8   | .6    | .1    |       |       |       |       | 12.2       | 10.6         |
| SW                     | .5                   | 2.7  | 3.7  | 2.0   | .7    | .1    |       |       |       |       | 9.7        | 9.2          |
| WSW                    | 1.7                  | 3.0  | 4.4  | 3.2   |       | .2    |       |       |       |       | 12.5       | 8.3          |
| W                      | 1.6                  | 4.5  | 3.5  | 1.4   | .2    | .1    |       |       |       |       | 11.3       | 7.2          |
| WNW                    | 1.8                  | 2.6  | 1.8  | 1.1   |       |       |       |       |       |       | 7.3        | 6.3          |
| NW                     | 1.6                  | 1.7  | 1.8  | .9    |       |       |       |       |       |       | 6.0        | 6.5          |
| NNW                    | 1.0                  | 1.4  | .3   | .2    |       |       |       |       |       |       | 2.9        | 5.1          |
| VARIABLE               |                      |      | .2   |       |       |       |       |       |       |       | .2         | 9.5          |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 13.6       | ////         |
| TOTALS                 | 12.8                 | 23.4 | 26.9 | 19.8  | 2.6   | .8    |       |       |       |       | 107.0      | 7.1          |

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM POLARLY OBSERVATIONS

STATION NUMBER: 035962 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(IST): 0600-0600

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .8                   | 2.0  | .9   | .5    |       |       |       |       |       |       | 4.2        | 6.0          |
| NNE                    | .6                   | .6   | .5   | .1    | .1    |       |       |       |       |       | 1.8        | 6.1          |
| NE                     | .2                   | .2   | .2   | .2    |       |       |       |       |       |       | .9         | 6.8          |
| ENE                    | .1                   | .5   | 1.1  | .8    | .2    | .1    |       |       |       |       | 2.8        | 10.7         |
| E                      | .2                   | .6   | .9   | .5    |       | .1    |       |       |       |       | 2.3        | 8.7          |
| ESE                    | .5                   | .3   | .7   | .3    |       |       |       |       |       |       | 1.8        | 6.6          |
| SE                     | .5                   | .5   | .5   | .7    |       |       |       |       |       |       | 2.0        | 7.9          |
| SSE                    | .1                   | .7   | 1.5  | .7    |       |       |       |       |       |       | 2.9        | 8.3          |
| S                      | .2                   | 1.0  | 1.9  | 2.7   | .3    | .2    |       |       |       |       | 6.4        | 11.1         |
| SSW                    | .6                   | 1.2  | 3.5  | 4.9   | .7    |       |       |       |       |       | 10.8       | 10.9         |
| SW                     | .9                   | 2.4  | 4.2  | 4.0   | .3    |       |       |       |       |       | 11.7       | 9.4          |
| WSW                    | 1.2                  | 2.1  | 4.1  | 2.5   |       |       |       |       |       |       | 9.9        | 8.0          |
| W                      | 2.1                  | 4.3  | 3.7  | 2.3   | .2    |       |       |       |       |       | 12.6       | 7.3          |
| WNW                    | 1.7                  | 1.9  | 1.6  | 1.0   |       |       |       |       |       |       | 6.2        | 6.4          |
| NW                     | 2.8                  | 1.7  | 2.0  | .5    |       |       |       |       |       |       | 7.0        | 5.3          |
| NNW                    | .7                   | 1.5  | .9   | .2    | .1    |       |       |       |       |       | 3.4        | 6.3          |
| VARIABLE               |                      |      | .2   | .1    | .1    |       |       |       |       |       | .5         | 13.5         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 12.6       | ////         |
| TOTALS                 | 13.2                 | 21.4 | 28.3 | 21.8  | 2.1   | .5    |       |       |       |       | 100.0      | 7.2          |

TOTAL NUMBER OF OBSERVATIONS: 866



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(IST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.1                  | 1.4  | 1.9  | .1    |       |       |       |       |       |       |       | 4.5        | 5.8          |
| NNE                    | .8                   | .8   | .1   |       |       |       |       |       |       |       |       | 1.7        | 3.7          |
| NE                     | .2                   | .6   | .2   | .6    |       |       |       |       |       |       |       | 1.6        | 7.9          |
| ENE                    | .2                   | .5   | 1.2  | .2    | .3    | .1    |       |       |       |       |       | 2.6        | 9.9          |
| E                      | .6                   | 1.1  | .8   | 1.0   |       |       |       |       |       |       |       | 3.5        | 7.8          |
| ESE                    | .3                   | .2   | .6   | .3    |       |       |       |       |       |       |       | 1.5        | 7.1          |
| SE                     | .3                   | .5   | .8   | .2    |       |       |       |       |       |       |       | 1.8        | 7.3          |
| SSE                    | .6                   | 1.0  | 1.2  | 1.6   |       |       |       |       |       |       |       | 4.4        | 8.4          |
| S                      | .5                   | 1.5  | 2.1  | 2.8   | .2    |       |       |       |       |       |       | 7.1        | 9.5          |
| SSW                    | .1                   | 1.1  | 2.9  | 5.2   | .8    |       |       |       |       |       |       | 10.2       | 11.7         |
| SW                     | .6                   | 1.5  | 5.0  | 5.1   | .8    |       |       |       |       |       |       | 12.9       | 10.4         |
| WSW                    | .9                   | 2.5  | 3.4  | 3.5   | .2    |       |       |       |       |       |       | 10.5       | 9.1          |
| W                      | .5                   | 3.2  | 3.4  | 4.2   | .5    | .1    |       |       |       |       |       | 11.8       | 9.5          |
| WNW                    | 1.2                  | 1.7  | 1.8  | 1.7   | .1    |       |       |       |       |       |       | 6.6        | 8.1          |
| NW                     | 1.7                  | 2.7  | 1.7  | 1.5   | .1    | .1    | .1    |       |       |       |       | 7.9        | 7.6          |
| NNW                    | .9                   | 1.7  | 2.1  | .1    |       |       |       |       |       |       |       | 4.9        | 6.2          |
| VARIABLE               |                      |      | .3   | .3    | .2    |       |       |       |       |       |       | .9         | 12.3         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 5.7        | ////         |
| TOTALS                 | 10.5                 | 21.8 | 29.8 | 28.5  | 3.3   | .3    | .1    |       |       |       |       | 130.0      | 8.4          |

TOTAL NUMBER OF OBSERVATIONS: 884

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-87  
MONTH: NOV HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .8                   | 2.5  | 2.3  | .3    |       |       |       |       |       |       |       | 5.9        | 6.3          |
| NNE                    | .9                   | .6   | .6   |       |       |       |       |       |       |       |       | 2.0        | 4.8          |
| NE                     |                      | .3   | .9   | .2    |       |       |       |       |       |       |       | 1.5        | 8.2          |
| ENE                    | .6                   | .3   | .6   | 1.0   | .3    | .2    |       |       |       |       |       | 3.1        | 10.4         |
| E                      | .1                   | 1.4  | 1.1  | .7    |       |       |       |       |       |       |       | 3.3        | 8.0          |
| ESE                    |                      | .6   | .3   | .3    |       |       |       |       |       |       |       | 1.2        | 7.8          |
| SE                     | .2                   | .5   | 1.0  | .5    |       |       |       |       |       |       |       | 2.2        | 8.4          |
| SSE                    | .5                   | .7   | 1.6  | 1.2   | .1    |       |       |       |       |       |       | 4.1        | 9.1          |
| S                      | 1.5                  | 1.5  | 2.7  | 2.0   | .5    |       |       |       |       |       |       | 6.2        | 8.5          |
| SSW                    | .5                   | 1.9  | 2.8  | 5.4   | 1.4   | .2    |       |       |       |       |       | 12.3       | 11.3         |
| SW                     | .5                   | 1.5  | 3.6  | 4.3   | .8    |       |       |       |       |       |       | 10.7       | 10.5         |
| WSW                    | .2                   | 1.0  | 3.4  | 3.4   | .8    |       |       |       |       |       |       | 8.9        | 11.0         |
| W                      | .6                   | 1.9  | 3.7  | 4.7   | .6    |       |       |       |       |       |       | 11.5       | 10.4         |
| WNW                    | .8                   | 2.0  | 2.3  | 2.5   | .2    |       |       |       |       |       |       | 7.8        | 8.7          |
| NW                     | .7                   | 2.2  | 2.7  | 1.4   |       |       |       |       |       |       |       | 6.9        | 7.8          |
| NNW                    | .5                   | 3.5  | 1.8  | 1.0   | .1    |       |       |       |       |       |       | 6.9        | 7.1          |
| VARIABLE               |                      |      | .6   | .5    |       |       |       |       |       |       |       | 1.0        | 10.7         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 2.6        | ////         |
| TOTALS                 | 8.2                  | 22.4 | 32.1 | 29.5  | 4.8   | .5    |       |       |       |       |       | 100.0      | 9.0          |

TOTAL NUMBER OF OBSERVATIONS: 861

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(IST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |       |              |
| N                      | 2.6                  | 2.8  | 1.6  | .8    | .1    |       |       |       |       |       |       | 7.9   | 5.8          |
| NNE                    | .7                   | .3   | .2   |       |       |       |       |       |       |       |       | 1.2   | 3.9          |
| NE                     | .2                   | .3   | .6   | .2    |       |       |       |       |       |       |       | 1.4   | 7.1          |
| ENE                    | .2                   | 1.1  | .8   | .5    | .1    | .3    |       |       |       |       |       | 3.1   | 9.3          |
| E                      | .6                   | 1.2  | 1.0  | .2    | .1    |       |       |       |       |       |       | 3.2   | 6.9          |
| ESE                    | .3                   | .3   | .3   | .2    |       |       |       |       |       |       |       | 1.2   | 7.2          |
| SE                     | .2                   | .2   | .6   | .6    |       |       |       |       |       |       |       | 1.6   | 9.0          |
| SSE                    | 1.2                  | .5   | 1.6  | .9    |       |       |       |       |       |       |       | 4.2   | 7.6          |
| S                      | .9                   | 3.3  | 2.3  | 2.6   | .5    |       |       |       |       |       |       | 9.5   | 8.4          |
| SSW                    | 1.1                  | 2.3  | 3.5  | 4.5   | .5    | .2    | .1    |       |       |       |       | 12.2  | 9.7          |
| SW                     | 1.0                  | 1.7  | 4.0  | 3.2   | 1.0   |       |       |       |       |       |       | 11.3  | 9.7          |
| WSW                    | .7                   | 1.7  | 3.9  | 3.3   |       | .1    |       |       |       |       |       | 9.6   | 9.6          |
| W                      | .8                   | 2.7  | 2.7  | 2.7   | .1    | .1    |       |       |       |       |       | 9.5   | 8.3          |
| WNW                    | 1.5                  | 2.7  | 2.8  | .5    | .1    |       |       |       |       |       |       | 7.6   | 6.6          |
| NW                     | 1.5                  | 2.7  | 1.1  | .9    |       | .1    |       |       |       |       |       | 5.8   | 6.5          |
| NNW                    | 1.2                  | 1.8  | 1.1  | .1    |       |       |       |       |       |       |       | 4.3   | 5.2          |
| VARIABLE               |                      |      | .6   | .3    |       |       |       |       |       |       |       | .9    | 17.8         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 6.3   | ////         |
| TOTALS                 | 14.9                 | 25.3 | 29.1 | 20.9  | 2.5   | .9    | .1    |       |       |       |       | 103.0 | 7.6          |

TOTAL NUMBER OF OBSERVATIONS: 862

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENIWATERS UNITED KINGDOM

PERIOD OF RECORD: 74-87  
MONTH: NOV HOURS(IST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-7                                  | 8-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.6                                  | 2.3  | 1.9   | .6    |       |       |       |       |       |       | 7.4        | 5.5          |
| NNE                    | .8                                   | 1.4  | .1    |       |       |       |       |       |       |       | 2.4        | 4.1          |
| NE                     | .1                                   | .5   | .6    |       |       |       |       |       |       |       | 1.1        | 6.0          |
| ENE                    | .5                                   | .6   | .1    | .3    | .2    | .2    |       |       |       |       | 1.9        | 10.1         |
| E                      | .2                                   | 1.1  | 1.1   | .8    | .1    | .1    |       |       |       |       | 3.5        | 8.7          |
| ESE                    | .1                                   | .3   | .2    | .5    |       |       |       |       |       |       | 1.4        | 7.5          |
| SE                     | .7                                   | .1   | .6    | .8    | .1    |       |       |       |       |       | 2.3        | 8.5          |
| SSE                    | 1.0                                  | .9   | .9    | .9    |       |       |       |       |       |       | 3.7        | 7.4          |
| S                      | 1.6                                  | 2.0  | 3.2   | 2.8   | .3    | .2    | .1    |       |       |       | 10.3       | 9.0          |
| SSW                    | .9                                   | 1.7  | 3.2   | 4.0   | .7    | .1    |       |       |       |       | 10.6       | 9.9          |
| SW                     | 1.1                                  | 1.9  | 4.8   | 3.3   | .2    |       |       |       |       |       | 11.4       | 8.9          |
| WSW                    | .7                                   | 1.5  | 3.3   | 3.4   |       |       |       |       |       |       | 8.9        | 9.3          |
| W                      | 1.2                                  | 2.6  | 3.6   | 1.9   | .3    |       |       |       |       |       | 9.8        | 8.0          |
| WNW                    | 2.3                                  | 2.0  | 2.6   | 1.0   |       | .1    |       |       |       |       | 9.1        | 6.7          |
| NW                     | 1.2                                  | 1.8  | 1.1   | .1    |       |       |       |       |       |       | 4.3        | 5.3          |
| NNW                    | 1.0                                  | .9   | 1.0   |       | .1    |       |       |       |       |       | 3.1        | 5.7          |
| VARIABLE               |                                      |      | .1    | .5    | .1    |       |       |       |       |       | .7         | 13.0         |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       | 9.3        | ////         |
| TOTALS                 | 16.3                                 | 21.8 | 28.5  | 20.9  | 2.3   | .8    | .1    |       |       |       | 100.0      | 7.3          |

TOTAL NUMBER OF OBSERVATIONS: 481

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 79-87  
MONTH: NOV HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.7                                  | 1.5  | .6   | .8    |       |       |       |       |       |       | 4.5        | 5.6          |
| NNE                    | .7                                   | .6   |      | .2    |       |       |       |       |       |       | 1.5        | 5.2          |
| NE                     | .6                                   | .7   | .2   | .2    |       |       |       |       |       |       | 1.7        | 5.7          |
| ENE                    | .3                                   | .1   | .6   | 1.0   |       | .3    |       |       |       |       | 2.4        | 12.2         |
| E                      | .5                                   | 1.0  | .6   | .6    | .2    |       |       |       |       |       | 2.9        | 8.0          |
| ESE                    | .6                                   | .5   | .6   | .1    |       |       |       |       |       |       | 1.7        | 5.4          |
| SE                     | .2                                   | .5   | .8   | .8    |       |       |       |       |       |       | 2.3        | 9.2          |
| SSE                    | .6                                   | .7   | 1.1  | .9    | .1    |       |       |       |       |       | 3.4        | 8.2          |
| S                      | 1.0                                  | 1.2  | 3.5  | 2.5   | 1.0   |       |       |       |       |       | 9.3        | 9.7          |
| SSW                    | 1.0                                  | 2.2  | 2.9  | 4.1   | .6    |       |       |       |       |       | 10.8       | 9.7          |
| SW                     | .6                                   | 3.3  | 3.3  | 4.1   | .7    |       |       |       |       |       | 11.9       | 9.4          |
| WSW                    | .6                                   | 2.6  | 2.9  | 3.6   |       |       |       |       |       |       | 9.8        | 9.2          |
| W                      | 1.4                                  | 3.6  | 3.2  | 1.7   |       |       |       |       |       |       | 9.9        | 7.0          |
| WNW                    | 1.7                                  | 1.9  | 2.9  | .7    |       |       |       |       |       |       | 7.3        | 6.3          |
| NW                     | 2.2                                  | 1.2  | 1.1  | .5    |       |       |       |       |       |       | 5.0        | 5.3          |
| NNW                    | 1.4                                  | 1.6  | 1.2  | .6    |       |       |       |       |       |       | 4.8        | 5.9          |
| VARIABLE               |                                      |      | .1   | .2    |       |       |       |       |       |       | .3         | 10.3         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 10.8       | ////         |
| TOTALS                 | 14.9                                 | 23.1 | 25.7 | 22.6  | 2.6   | .3    |       |       |       |       | 100.0      | 7.2          |

TOTAL NUMBER OF OBSERVATIONS: 862

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM POLARLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87  
MONTH: NOV HOURS(IST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |       |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|-------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              | GE 56 |
| N                      | 1.5                                  | 1.8  | 1.3  | .5    | .0    |       |       |       |       |       |            | 5.1          | 5.8   |
| NNE                    | .7                                   | .6   | .2   | .1    | .0    |       |       |       |       |       |            | 1.6          | 4.9   |
| NE                     | .3                                   | .4   | .4   | .3    | .7    |       |       |       |       |       |            | 1.4          | 7.1   |
| ENE                    | .3                                   | .5   | .6   | .7    | .2    | .2    |       |       |       |       |            | 2.5          | 10.7  |
| E                      | .3                                   | .9   | .8   | .6    | .1    | .7    |       |       |       |       |            | 2.8          | 8.1   |
| ESE                    | .4                                   | .7   | .4   | .3    |       |       |       |       |       |       |            | 1.4          | 7.0   |
| SE                     | .4                                   | .3   | .6   | .6    | .0    |       |       |       |       |       |            | 1.9          | 8.3   |
| SSE                    | .7                                   | .8   | 1.3  | 1.0   | .1    |       |       |       |       |       |            | 3.8          | 8.1   |
| S                      | .8                                   | 1.8  | 2.7  | 2.5   | .6    | .1    | .0    |       |       |       |            | 8.5          | 9.4   |
| SSW                    | .7                                   | 1.7  | 3.4  | 4.6   | .7    | .1    | .0    |       |       |       |            | 11.2         | 10.5  |
| SW                     | .8                                   | 2.2  | 4.0  | 3.6   | .7    | .7    |       |       |       |       |            | 11.4         | 9.5   |
| WSW                    | .9                                   | 2.3  | 3.5  | 3.3   | .1    | .1    |       |       |       |       |            | 10.2         | 9.1   |
| W                      | 1.2                                  | 3.4  | 3.5  | 2.4   | .2    | .0    |       |       |       |       |            | 12.7         | 8.1   |
| WNW                    | 1.6                                  | 2.3  | 2.4  | 1.1   | .1    | .7    |       |       |       |       |            | 7.4          | 6.9   |
| NW                     | 1.6                                  | 1.9  | 1.6  | .7    | .0    | .0    | .7    |       |       |       |            | 5.9          | 6.3   |
| NNW                    | 1.0                                  | 1.7  | 1.2  | .3    | .0    |       |       |       |       |       |            | 4.3          | 6.0   |
| VARIABLE               |                                      |      | .7   | .3    | .1    |       |       |       |       |       |            | .6           | 11.5  |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |            | 9.2          | ////  |
| TOTALS                 | 13.2                                 | 22.9 | 28.3 | 22.9  | 2.9   | .6    | .7    |       |       |       |            | 100.7        | 7.6   |

TOTAL NUMBER OF OBSERVATIONS: 7072

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .7                   | .8   | .8   | .9    |       |       |       |       |       |       |       | 3.1        | 7.8          |
| NNE                    |                      | .2   | .2   | .1    |       |       |       |       |       |       |       | .6         | 7.8          |
| NE                     |                      | .2   | .2   |       |       |       |       |       |       |       |       | .4         | 7.5          |
| ENE                    |                      | .3   | .3   | .3    |       |       |       |       |       |       |       | 1.0        | 9.3          |
| E                      | .4                   | .3   | .9   | .6    |       |       |       |       |       |       |       | 2.2        | 7.8          |
| ESE                    | .3                   | .6   | .3   | .2    | .1    | .1    |       |       |       |       |       | 1.7        | 8.4          |
| SE                     | .1                   | .9   | 1.8  | 1.0   | .1    | .1    |       |       |       |       |       | 4.0        | 9.7          |
| SSE                    | .3                   | 1.4  | 1.1  | 1.4   | .7    |       |       |       |       |       |       | 5.0        | 9.9          |
| S                      | 1.2                  | 2.7  | 1.8  | 4.3   | .3    | .2    |       |       |       |       |       | 17.5       | 9.7          |
| SSW                    | 1.0                  | 2.2  | 2.9  | 5.8   | .7    | .2    | .1    |       |       |       |       | 12.9       | 10.7         |
| SW                     | .6                   | 2.0  | 5.0  | 2.4   | 1.0   | .1    |       |       |       |       |       | 11.1       | 9.6          |
| WSW                    | .8                   | 2.3  | 3.4  | 3.8   | .7    | .3    |       |       |       |       |       | 11.3       | 9.8          |
| W                      | 1.1                  | 2.9  | 3.7  | 2.4   | .9    | .1    |       |       |       |       |       | 11.1       | 8.8          |
| WNW                    | .4                   | 2.1  | 1.9  | 1.4   | .2    |       |       |       |       |       |       | 6.1        | 8.2          |
| NW                     | .6                   | 2.2  | 1.4  | 1.1   | .1    |       |       |       |       |       |       | 5.4        | 7.3          |
| NNW                    | .7                   | 1.1  | .7   | .2    |       |       |       |       |       |       |       | 2.7        | 5.6          |
| VARIABLE               |                      |      |      | .3    | .7    | .4    |       |       |       |       |       | 1.4        | 19.0         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 9.5        | ////         |
| TOTALS                 | 8.2                  | 22.3 | 26.4 | 26.4  | 5.4   | 1.7   | .1    |       |       |       |       | 100.0      | 8.5          |

TOTAL NUMBER OF OBSERVATIONS: 902

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM POLARLY OBSERVATIONS

STATION NUMBER: 335963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .2                   | 1.0  | 1.3  | 1.4   |       |       |       |       |       |       |       | 4.0        | 8.8          |
| NNE                    |                      | .9   | .1   |       | .3    |       |       |       |       |       |       | 1.3        | 9.8          |
| NE                     |                      |      | .6   |       |       |       |       |       |       |       |       | .6         | 8.4          |
| ENE                    |                      | .1   | .2   | .2    |       |       |       |       |       |       |       | .6         | 9.2          |
| E                      | .1                   | .7   | .7   | .4    |       |       |       |       |       |       |       | 1.9        | 8.0          |
| ESE                    | .1                   | .6   | .8   | .8    |       |       |       |       |       |       |       | 2.2        | 9.1          |
| SE                     | .3                   | 1.2  | 1.1  | .2    |       |       |       |       |       |       |       | 2.9        | 6.8          |
| SSE                    | .2                   | 2.0  | 1.1  | 1.1   | .6    |       |       |       |       |       |       | 5.0        | 8.8          |
| S                      | 1.3                  | 1.7  | 2.4  | 4.4   | 1.3   |       |       |       |       |       |       | 11.2       | 10.6         |
| SSW                    | .7                   | 1.1  | 6.2  | 4.5   | .4    |       |       |       |       |       |       | 13.0       | 12.1         |
| SW                     | .6                   | 2.7  | 4.0  | 2.9   | .3    | .1    |       | .3    |       |       |       | 10.9       | 10.1         |
| WSW                    | 1.1                  | 2.5  | 3.9  | 2.0   | 1.1   | .2    |       |       |       |       |       | 10.9       | 9.4          |
| W                      | 1.6                  | 3.1  | 4.1  | 4.2   | .7    |       |       |       |       |       |       | 13.6       | 9.0          |
| WNW                    | .6                   | 1.9  | 2.0  | .7    | .2    |       |       |       |       |       |       | 5.3        | 7.6          |
| NW                     | 1.2                  | 1.3  | 1.3  | 1.3   | .1    |       |       |       |       |       |       | 5.0        | 7.1          |
| NNW                    | .7                   | .9   | .6   | .4    |       |       |       |       |       |       |       | 2.5        | 6.5          |
| VARIABLE               |                      |      | .2   | .2    | .2    | .1    |       |       |       |       |       | .8         | 16.0         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       |       | 9.5        | ////         |
| TOTALS                 | 8.6                  | 21.6 | 30.6 | 24.6  | 5.3   | .4    |       | .3    |       |       |       | 100.0      | 9.5          |

TOTAL NUMBER OF OBSERVATIONS: 903



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | 1.0                  | 1.2  | 1.7  | .7    |       | .1    |       |       |       |       | 4.6        | 7.2          |
| NNE                    | .3                   | .2   | .1   |       | .1    |       |       |       |       |       | .8         | 5.9          |
| NE                     |                      | .3   |      | .1    | .1    |       |       |       |       |       | .6         | 9.2          |
| ENE                    | .2                   | .2   | .2   |       |       |       |       |       |       |       | .7         | 5.8          |
| E                      | .1                   | 1.2  | .6   | .3    |       |       |       |       |       |       | 2.2        | 7.5          |
| ESE                    | .1                   | .3   | .7   | 1.1   |       |       |       |       |       |       | 2.2        | 10.3         |
| SE                     | .4                   | 1.0  | 1.4  | .3    |       |       |       |       |       |       | 3.2        | 7.3          |
| SSE                    | .7                   | 1.8  | 1.2  | 1.3   | .6    | .2    |       |       |       |       | 5.7        | 9.3          |
| S                      | .7                   | .7   | 2.8  | 3.4   | .9    | .1    |       |       |       |       | 8.5        | 11.3         |
| SSW                    | .3                   | 2.6  | 5.1  | 5.7   | .6    | .2    |       |       |       |       | 14.5       | 10.4         |
| SW                     | .8                   | 2.2  | 3.7  | 2.2   | .4    |       |       |       |       |       | 9.4        | 8.9          |
| WSW                    | .3                   | 1.7  | 4.1  | 2.8   | 1.1   |       | .1    | .1    |       |       | 10.1       | 10.7         |
| W                      | 1.4                  | 4.2  | 4.8  | 2.8   | .7    | .2    | .1    |       |       |       | 14.2       | 8.8          |
| WNW                    | 1.3                  | 1.7  | 1.9  | 1.1   |       |       |       |       |       |       | 5.9        | 7.0          |
| NW                     | 1.2                  | 1.4  | 1.5  | .7    | .1    |       |       |       |       |       | 5.0        | 6.8          |
| NNW                    | .2                   | .4   | .7   | .3    |       |       |       |       |       |       | 1.7        | 7.5          |
| VARIABLE               |                      | .1   | .4   | .7    | .2    | .1    |       |       |       |       | 1.5        | 12.9         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 9.4        | ////         |
| TOTALS                 | 9.1                  | 21.2 | 30.8 | 23.4  | 4.7   | 1.0   | .2    | .1    |       |       | 107.0      | 8.3          |

TOTAL NUMBER OF OBSERVATIONS: 909

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |              |
| N                      | .4                   | 1.2  | 1.2  | .3    |       |       |       |       |       |       | 3.1   | 6.7          |
| NNE                    | .1                   | .4   | .2   |       |       |       |       |       |       |       | .8    | 5.6          |
| NE                     | .1                   | .3   | .4   | .1    | .2    | .1    |       |       |       |       | 1.3   | 10.3         |
| ENE                    | .1                   | .3   | .4   | .2    |       |       |       |       |       |       | 1.1   | 7.6          |
| E                      | .1                   | .7   | .8   | .3    |       |       |       |       |       |       | 1.9   | 7.5          |
| ESE                    |                      | .3   | .8   | .5    |       |       |       |       |       |       | 1.6   | 9.8          |
| SE                     | .2                   | .8   | .9   | 1.7   | .2    | .2    |       |       |       |       | 4.0   | 11.0         |
| SSE                    | .4                   | .9   | 2.2  | 1.6   | .1    | .3    |       |       |       |       | 5.5   | 10.0         |
| S                      | .3                   | 1.5  | 2.9  | 4.7   | .9    | .5    | .1    |       |       |       | 11.0  | 12.1         |
| SSW                    | .7                   | 2.0  | 4.8  | 5.0   | .9    | .2    | .1    |       |       |       | 13.6  | 10.6         |
| SW                     | .8                   | 1.7  | 4.1  | 2.2   | .4    | .2    |       |       |       |       | 9.4   | 9.5          |
| WSW                    | .9                   | 1.4  | 5.1  | 4.5   | .7    | .2    | .1    |       |       |       | 12.8  | 10.3         |
| W                      | .4                   | 2.0  | 5.2  | 3.5   | .8    | .3    |       |       |       |       | 12.2  | 10.2         |
| WNW                    | .9                   | 1.4  | 1.5  | 1.4   |       |       |       |       |       |       | 5.2   | 7.8          |
| NW                     | 1.3                  | 1.7  | 2.5  | 1.5   | .1    |       |       |       |       |       | 7.2   | 7.7          |
| NNW                    | .1                   | .7   | 1.3  | .2    |       |       |       |       |       |       | 2.3   | 7.5          |
| VARIABLE               |                      |      | .3   | .1    |       | .1    |       |       |       |       | .5    | 12.0         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 6.5   | ////         |
| TOTALS                 | 6.8                  | 17.3 | 34.6 | 27.9  | 4.2   | 2.3   | .3    |       |       |       | 100.0 | 9.2          |

TOTAL NUMBER OF OBSERVATIONS: 921

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .5                                   | .7   | 1.7  | .3    |       |       |       |       |       |       |       | 3.3        | 6.8          |
| NNE                    | .2                                   | .2   | .2   | .2    |       |       |       |       |       |       |       | .9         | 6.9          |
| NE                     |                                      | .1   | .3   | .4    | .3    |       |       |       |       |       |       | 1.2        | 13.1         |
| ENE                    |                                      | .4   | .4   | .2    |       |       |       |       |       |       |       | 1.1        | 7.7          |
| E                      |                                      | 1.0  | 1.9  | .9    |       |       |       |       |       |       |       | 3.7        | 8.7          |
| ESE                    | .2                                   |      | .6   | .4    |       |       |       |       |       |       |       | 1.5        | 8.8          |
| SE                     |                                      | .3   | .9   | 2.1   |       |       |       |       |       |       |       | 3.3        | 10.8         |
| SSE                    | .2                                   | .5   | 1.6  | 1.9   | .4    |       |       |       |       |       |       | 4.7        | 10.5         |
| S                      | .4                                   | 1.7  | 2.1  | 4.6   | 1.2   | .4    |       |       |       |       |       | 10.0       | 12.0         |
| SSW                    | .4                                   | 1.1  | 4.4  | 5.4   | 1.0   | .1    | .3    |       |       |       |       | 12.7       | 11.6         |
| SW                     | .2                                   | 2.1  | 4.6  | 3.1   | .7    | .1    |       |       |       |       |       | 10.7       | 9.8          |
| WSW                    | .5                                   | .9   | 3.9  | 3.5   | .8    | .4    |       |       |       |       |       | 10.0       | 11.3         |
| W                      | .4                                   | 2.3  | 6.3  | 5.0   | .9    | .5    |       |       |       |       |       | 15.5       | 10.7         |
| WNW                    | .8                                   | 1.9  | 3.1  | 1.1   |       |       |       |       |       |       |       | 6.8        | 7.9          |
| NW                     | .7                                   | 1.1  | 3.6  | 1.3   | .2    |       |       |       |       |       |       | 6.9        | 8.6          |
| NNW                    | .2                                   | .3   | .9   | 1.1   | .3    |       |       |       |       |       |       | 2.8        | 10.8         |
| VARIABLE               |                                      |      | .3   | .7    | .1    | .3    |       |       |       |       |       | 1.4        | 14.8         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 3.6        | ////         |
| TOTALS                 | 4.9                                  | 14.2 | 37.0 | 32.1  | 5.9   | 2.2   | .3    |       |       |       |       | 100.0      | 10.0         |

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |
| N                      | .5                   | .7   | 1.5  | .2    |       |       |       |       |       |       | 2.9        | 6.6          |
| NNE                    | .3                   | .1   | .3   |       |       |       |       |       |       |       | .8         | 5.7          |
| NE                     | .1                   | .2   | .4   |       | .2    |       |       |       |       |       | 1.0        | 9.3          |
| ENE                    |                      |      | .7   | .1    |       |       |       |       |       |       | .8         | 9.7          |
| E                      | .2                   | .4   | 1.2  | .4    |       |       |       |       |       |       | 2.3        | 8.1          |
| ESE                    | .2                   | .3   | .5   | 1.7   |       |       |       |       |       |       | 2.8        | 10.3         |
| SE                     | .1                   | .7   | 1.2  | 1.6   |       |       |       |       |       |       | 3.6        | 9.7          |
| SSE                    | .3                   | .9   | 1.6  | 1.5   | .3    | .2    |       |       |       |       | 4.9        | 10.8         |
| S                      | .5                   | 2.4  | 2.5  | 4.8   | .4    |       |       |       |       |       | 10.7       | 10.1         |
| SSW                    | 1.3                  | 2.0  | 3.7  | 4.8   | .3    | .3    |       |       |       |       | 12.4       | 10.0         |
| SW                     | 1.2                  | 2.9  | 3.5  | 2.5   |       |       |       |       |       |       | 10.1       | 8.1          |
| WSW                    | 1.0                  | 2.7  | 4.0  | 2.7   | .2    | .5    |       |       |       |       | 11.2       | 9.2          |
| W                      | 1.0                  | 2.6  | 4.0  | 4.7   | .7    | .2    |       |       |       |       | 13.2       | 9.8          |
| WNW                    | .9                   | 1.4  | 2.8  | .9    |       |       |       |       |       |       | 6.0        | 7.5          |
| NW                     | 1.0                  | 1.5  | 2.3  | 1.0   | .1    |       |       |       |       |       | 5.9        | 7.3          |
| NNW                    | .4                   | 1.3  | 1.3  | .8    | .2    |       |       |       |       |       | 4.0        | 7.8          |
| VARIABLE               |                      |      |      | .4    | .3    |       |       |       |       |       | .8         | 16.1         |
| CALM                   | //////////////////// |      |      |       |       |       |       |       |       |       | 6.6        | ////         |
| TOTALS                 | 9.2                  | 20.2 | 31.7 | 28.2  | 2.8   | 1.3   |       |       |       |       | 100.0      | 8.5          |

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |              |
| N                      | .8                                   | .9   | .7   | .2    |       |       |       |       |       |       | 2.5   | 5.5          |
| NNE                    | .1                                   | .3   | .2   | .1    |       |       |       |       |       |       | .8    | 6.7          |
| NE                     | .1                                   | .1   | .3   | .2    |       | .1    |       |       |       |       | .9    | 10.1         |
| ENE                    |                                      | .1   | .4   |       |       |       |       |       |       |       | .5    | 7.6          |
| E                      | .2                                   | .3   | 1.2  | .7    |       |       |       |       |       |       | 2.4   | 8.5          |
| ESE                    |                                      | .1   | .8   | 1.2   |       |       |       |       |       |       | 2.1   | 11.4         |
| SE                     | .2                                   | .7   | 1.9  | 1.6   |       |       |       |       |       |       | 4.4   | 9.8          |
| SSE                    | .5                                   | .5   | 1.0  | .9    |       | .2    | .1    |       |       |       | 3.3   | 9.9          |
| S                      | .8                                   | 2.0  | 3.6  | 4.8   | 1.0   |       | .1    |       |       |       | 12.2  | 10.5         |
| SSW                    | .7                                   | 2.5  | 5.1  | 4.5   | .5    | .2    |       |       |       |       | 13.5  | 9.7          |
| SW                     | .2                                   | 2.2  | 4.4  | 2.8   | .3    |       |       |       |       |       | 9.9   | 9.3          |
| WSW                    | .8                                   | 3.5  | 4.1  | 2.0   | 1.1   | .1    |       |       |       |       | 11.5  | 9.1          |
| W                      | 1.4                                  | 2.1  | 4.4  | 2.6   | .5    | .4    | .1    |       |       |       | 11.5  | 9.5          |
| WNW                    | 1.1                                  | 2.1  | 2.6  | .8    |       |       |       |       |       |       | 6.5   | 6.9          |
| NW                     | .8                                   | 1.4  | 2.2  | .8    |       |       |       |       |       |       | 5.1   | 7.5          |
| NNW                    | 1.1                                  | 1.0  | 1.1  | .5    |       |       |       |       |       |       | 3.7   | 6.6          |
| VARIABLE               | .1                                   |      | .1   | .4    | .1    |       |       |       |       |       | .8    | 12.9         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 8.4   | ////         |
| TOTALS                 | 8.9                                  | 19.7 | 34.0 | 24.1  | 3.6   | 1.1   | .3    |       |       |       | 107.0 | 8.4          |

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 |            |              |
| N                      | .3                                   | .9   | .3   | .4    | .1    |       |       |       | 2.1        | 7.3          |
| NNE                    |                                      | .1   | .4   | .1    |       |       |       |       | .7         | 9.2          |
| NE                     |                                      | .7   | .1   | .1    |       |       |       |       | .4         | 7.8          |
| ENE                    |                                      | .1   | .5   |       |       |       |       |       | .7         | 7.8          |
| E                      |                                      | .3   | .5   | .4    |       |       |       |       | 1.3        | 9.3          |
| ESE                    | .2                                   | .5   | .5   | .5    |       |       |       |       | 1.9        | 8.1          |
| SE                     | .3                                   | 1.1  | 1.4  | 2.0   |       |       | .3    |       | 5.1        | 10.6         |
| SSE                    | .5                                   | .5   | 1.0  | 1.7   | .2    |       |       |       | 4.0        | 10.1         |
| S                      | 1.3                                  | 2.3  | 2.0  | 4.7   | .5    | .3    |       |       | 11.1       | 10.1         |
| SSW                    | 1.3                                  | 2.3  | 5.2  | 4.5   | .8    | .3    |       |       | 14.4       | 9.8          |
| SW                     | .2                                   | 2.6  | 3.7  | 2.8   | .8    | .1    |       |       | 10.2       | 9.8          |
| WSW                    | 1.0                                  | 2.6  | 3.2  | 2.6   | .5    | .3    |       |       | 10.2       | 9.5          |
| W                      | 1.1                                  | 3.3  | 4.1  | 2.9   | .8    | .5    |       |       | 12.7       | 9.6          |
| WNW                    | .8                                   | 1.6  | 2.5  | 1.2   |       |       |       |       | 6.1        | 7.3          |
| NW                     | .3                                   | 1.7  | 2.2  | 1.1   |       |       |       |       | 5.3        | 7.8          |
| NNW                    | 1.3                                  | 2.0  | .9   |       |       |       |       |       | 4.1        | 4.9          |
| VARIABLE               | .3                                   |      | .4   |       | .1    | .3    | .1    |       | 1.3        | 13.8         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       | 8.9        | ////         |
| TOTALS                 | 9.0                                  | 22.2 | 25.1 | 25.2  | 3.8   | 2.7   | .4    |       | 100.0      | 8.5          |

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .6                                   | .9   | 1.1  | .6    | .0    | .0    |       |       |       |       |       | 3.2        | 7.2          |
| NNE                    | .1                                   | .3   | .2   | .1    | .1    |       |       |       |       |       |       | .6         | 7.3          |
| NE                     | .0                                   | .2   | .3   | .1    | .1    | .0    |       |       |       |       |       | .8         | 10.0         |
| ENE                    | .0                                   | .2   | .4   | .1    |       |       |       |       |       |       |       | .8         | 8.1          |
| E                      | .2                                   | .6   | 1.0  | .5    |       |       |       |       |       |       |       | 2.2        | 9.2          |
| ESE                    | .2                                   | .3   | .7   | .8    | .0    | .0    |       |       |       |       |       | 2.0        | 9.6          |
| SE                     | .2                                   | .8   | 1.3  | 1.3   | .0    | .0    | .0    |       |       |       |       | 3.8        | 9.6          |
| SSE                    | .4                                   | 1.1  | 1.4  | 1.4   | .4    | .1    | .0    |       |       |       |       | 4.8        | 9.9          |
| S                      | .8                                   | 1.8  | 2.5  | 4.5   | .8    | .2    | .0    |       |       |       |       | 10.6       | 10.8         |
| SSW                    | .8                                   | 2.0  | 4.7  | 5.0   | .6    | .2    | .1    |       |       |       |       | 17.4       | 10.3         |
| SW                     | .6                                   | 2.3  | 4.1  | 2.6   | .5    | .1    |       | .0    |       |       |       | 10.2       | 9.4          |
| WSW                    | .8                                   | 2.2  | 4.0  | 3.0   | .8    | .3    | .0    | .0    |       |       |       | 11.0       | 9.9          |
| W                      | 1.1                                  | 2.8  | 4.6  | 3.5   | .7    | .3    | .0    |       |       |       |       | 13.0       | 9.6          |
| WNW                    | .8                                   | 1.8  | 2.3  | 1.1   | .1    |       |       |       |       |       |       | 6.0        | 7.5          |
| NW                     | .9                                   | 1.6  | 2.1  | 1.1   | .1    |       |       |       |       |       |       | 5.7        | 7.6          |
| NNW                    | .6                                   | 1.0  | .9   | .5    | .1    |       |       |       |       |       |       | 3.0        | 7.0          |
| VARIABLE               | .1                                   | .0   | .2   | .4    | .2    | .7    | .0    |       |       |       |       | 1.1        | 14.9         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 7.6        | ////         |
| TOTALS                 | 8.1                                  | 19.8 | 31.8 | 26.5  | 4.5   | 1.5   | .2    | .1    |       |       |       | 100.0      | 9.7          |

TOTAL NUMBER OF OBSERVATIONS: 7307

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: G35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-87  
MONTH: ALL HOURS(IST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       | TOTAL<br>Σ | MEAN<br>WIND |       |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|-------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              | GE 56 |
| N                      | 1.5                                  | 2.2  | 1.9  | .7    | .0    | .0    | .0    |       |       |       |            | 6.3          | 6.3   |
| NNE                    | .8                                   | 1.2  | 1.3  | .5    | .1    | .0    | .0    |       |       |       |            | 3.7          | 6.9   |
| NE                     | .5                                   | .9   | 1.3  | .6    | .0    | .0    |       |       |       |       |            | 3.4          | 7.5   |
| ENE                    | .4                                   | .9   | 1.2  | .7    | .1    | .0    |       |       |       |       |            | 3.3          | 8.3   |
| E                      | .6                                   | 1.1  | 1.2  | .6    | .1    | .0    |       |       |       |       |            | 3.7          | 7.3   |
| ESE                    | .5                                   | .8   | .7   | .4    | .0    | .0    |       |       |       |       |            | 2.4          | 6.7   |
| SE                     | .7                                   | 1.0  | .8   | .4    | .0    | .0    | .0    |       |       |       |            | 2.9          | 6.5   |
| SSE                    | .8                                   | 1.4  | 1.6  | .6    | .1    | .0    | .0    |       |       |       |            | 4.5          | 7.0   |
| S                      | 1.2                                  | 2.0  | 2.7  | 1.9   | .3    | .1    | .0    |       |       |       |            | 9.1          | 8.4   |
| SSW                    | .8                                   | 1.6  | 2.8  | 2.3   | .4    | .1    | .0    | .0    | .0    | .0    |            | 7.9          | 9.3   |
| SW                     | .8                                   | 1.8  | 2.8  | 2.0   | .3    | .0    | .0    | .0    | .0    | .0    |            | 7.7          | 8.7   |
| WSW                    | 1.0                                  | 2.1  | 2.7  | 1.8   | .3    | .1    | .0    | .0    |       | .0    |            | 8.0          | 8.5   |
| W                      | 1.5                                  | 3.7  | 3.5  | 2.2   | .3    | .1    | .0    | .0    |       |       |            | 10.6         | 8.1   |
| WNW                    | 1.4                                  | 1.9  | 1.8  | .7    | .1    | .0    | .0    |       |       |       |            | 6.0          | 6.6   |
| NW                     | 1.2                                  | 1.6  | 1.5  | .5    | .0    | .0    | .0    |       |       |       |            | 5.0          | 6.3   |
| NNW                    | 1.0                                  | 1.5  | 1.3  | .5    | .1    | .0    | .0    | .0    |       |       |            | 4.4          | 6.4   |
| VARIABLE               | .0                                   | .0   | .8   | .3    | .1    | .0    | .0    |       |       |       |            | 1.3          | 10.5  |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       | 10.8       | ////         |       |
| TOTALS                 | 14.9                                 | 25.0 | 29.9 | 16.5  | 2.3   | .5    | .1    | .0    | .0    | .0    |            | 100.0        | 6.5   |

TOTAL NUMBER OF OBSERVATIONS: 87161



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-87  
MONTH: ALL HOURS(1ST): ALL

CEILINGS 200 TO 1400 FEET WITH VISIBILITIES 1/2 MILE OR MORE

AND/OR

CEILINGS 200 FEET OR MORE WITH VISIBILITIES 1/2 TO 2-1/2 MILES

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                                  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.1                                  | 2.7  | 2.4  | .8    | .0    | .7    | .0    |       |       |       |       | 8.0        | 6.1          |
| NNE                    | 1.1                                  | 1.9  | 1.7  | .7    | .2    | .0    | .0    |       |       |       |       | 5.6        | 7.1          |
| NE                     | .8                                   | 1.3  | 1.4  | .7    | .0    | .0    |       |       |       |       |       | 4.2        | 7.0          |
| ENE                    | .6                                   | 1.0  | 1.1  | .6    | .1    | .7    |       |       |       |       |       | 3.5        | 7.5          |
| E                      | .8                                   | 1.3  | 1.5  | .4    | .0    |       |       |       |       |       |       | 4.1        | 6.7          |
| ESE                    | .8                                   | .9   | .8   | .5    | .0    | .0    |       |       |       |       |       | 3.0        | 6.6          |
| SE                     | 1.0                                  | 1.5  | 1.1  | .5    | .1    | .7    | .0    |       |       |       |       | 4.3        | 6.6          |
| SSE                    | 1.1                                  | 1.9  | 2.0  | .8    | .1    | .0    | .0    |       |       |       |       | 5.9        | 6.9          |
| S                      | 1.3                                  | 2.1  | 2.5  | 2.3   | .4    | .1    |       |       |       |       |       | 8.7        | 8.8          |
| SSW                    | .7                                   | 1.6  | 2.9  | 2.7   | .5    | .1    | .0    |       |       |       |       | 8.6        | 9.9          |
| SW                     | .8                                   | 1.5  | 2.3  | 1.8   | .2    | .0    | .0    |       |       |       |       | 6.5        | 8.6          |
| WSW                    | 1.0                                  | 1.7  | 1.6  | .5    | .0    | .0    |       |       |       |       |       | 4.9        | 6.6          |
| W                      | 1.4                                  | 2.0  | 1.2  | .4    | .0    | .0    |       | .0    |       |       |       | 5.7        | 5.9          |
| WNW                    | 1.3                                  | 1.7  | .8   | .3    | .0    | .7    |       |       |       |       |       | 3.6        | 5.4          |
| NW                     | 1.2                                  | 1.3  | .9   | .3    | .0    |       |       |       |       |       |       | 3.4        | 5.6          |
| NNW                    | 1.2                                  | 1.5  | 1.4  | .4    | .0    |       |       |       |       |       |       | 4.5        | 5.9          |
| VARIABLE               | .0                                   | .0   | .5   | .3    | .1    | .7    |       |       |       |       |       | .9         | 11.3         |
| CALM                   | //////////////////////////////////// |      |      |       |       |       |       |       |       |       |       | 14.9       | ////         |
| TOTALS                 | 17.3                                 | 25.5 | 25.8 | 14.0  | 1.8   | .5    | .1    | .0    |       |       |       | 100.0      | 6.2          |

TOTAL NUMBER OF OBSERVATIONS: 17796

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## CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

### CEILING VERSUS VISIBILITY SUMMARY

THIS SUMMARY IS A BIVARIATE FREQUENCY DISTRIBUTION BY CLASSES OF CEILING FROM "1" THROUGH EQUAL TO OR GREATER THAN 20,000 FEET AND AS A SEPARATE CLASS "NO CEILING", VERSUS VISIBILITY IN 16 CLASSES FROM ZERO THROUGH EQUAL TO OR GREATER THAN 10 MILES.

DATA DERIVED FROM HOURLY OBSERVATIONS.

FREQUENCY DISTRIBUTION PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

#### NOTES:

BEGINNING IN 1968, METAR STATIONS REPORTED VISIBILITIES TO 6 MILES AND GREATER THAN 6 MILES. THEREFORE THE COLUMN FOR VISIBILITIES EQUAL TO OR GREATER THAN 10 MILES APPEAR BLANK.

AS A RULE, AIRWAYS STATIONS NORMALLY REPORT VISIBILITIES TO 6 MILES AND 7 OR GREATER, HOWEVER SOME STATIONS REPORT HIGHER VALUES. THEREFORE, THE 10 MILE VISIBILITY COLUMN SOMETIMES CONTAIN SMALL PERCENTAGE VALUES. HOWEVER, THESE VALUES ARE OF LITTLE MEANING AND SHOULD BE DISREGARDED.

FOR METAR CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS ABOVE 5000 FEET WERE SUPPRESSED TO 5000 FEET. THEREFORE, NO PERCENT VALUES APPEAR ABOVE 5000 FEET.

### SKY COVER SUMMARY

PRESENTS PERCENTAGES OF SKY COVER IN EITHER 10THS OF COVERAGE OR "AIRWAYS CLASSIFICATIONS".

DATA SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

ALSO PRESENTED ARE MEAN SKY COVERS.

FOR AIRWAY STATIONS, THE CONVERSION FROM THE AIRWAYS DESIGNATIONS TO 10THS FOR PRESENTATION ARE:

|           |   |       |
|-----------|---|-------|
| CLEAR     | - | 6/10  |
| SCATTERED | - | 3/10  |
| BROKEN    | - | 4/10  |
| OVERCAST  | - | 10/10 |
| OBSCUDED  | - | 10/10 |

GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(IST): 0000-0400

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 3  |
| NO CEIL  | I    |                                  | 28.2  | 30.2  | 33.3  | 34.6  | 35.1  | 35.9  | 36.6  | 37.3  | 38.4  | 38.6  | 38.7  | 38.7 | 38.8 | 39.0 | 39.2  |
| GE 20000 | I    |                                  | 29.8  | 31.9  | 35.5  | 36.8  | 37.4  | 38.1  | 38.9  | 39.5  | 40.6  | 41.0  | 41.1  | 41.1 | 41.2 | 41.4 | 41.4  |
| GE 18000 | I    |                                  | 29.8  | 31.9  | 35.8  | 37.1  | 37.6  | 38.4  | 39.1  | 39.8  | 40.8  | 41.2  | 41.3  | 41.3 | 41.4 | 41.6 | 41.6  |
| GE 16000 | I    |                                  | 29.8  | 31.9  | 35.8  | 37.1  | 37.6  | 38.4  | 39.1  | 39.8  | 40.8  | 41.2  | 41.3  | 41.3 | 41.4 | 41.6 | 41.6  |
| GE 14000 | I    |                                  | 29.8  | 31.9  | 35.6  | 37.1  | 37.6  | 38.4  | 39.1  | 39.8  | 40.6  | 41.2  | 41.3  | 41.3 | 41.4 | 41.6 | 41.6  |
| GE 12000 | I    |                                  | 29.8  | 31.9  | 35.8  | 37.1  | 37.6  | 38.4  | 39.1  | 39.8  | 40.8  | 41.2  | 41.3  | 41.3 | 41.4 | 41.6 | 41.6  |
| GE 10000 | I    |                                  | 30.6  | 32.9  | 37.1  | 38.4  | 38.9  | 39.7  | 40.4  | 41.1  | 42.1  | 42.5  | 42.6  | 42.6 | 42.7 | 42.9 | 42.9  |
| GE 9000  | I    |                                  | 30.6  | 32.9  | 37.1  | 38.4  | 38.9  | 39.7  | 40.4  | 41.1  | 42.1  | 42.5  | 42.6  | 42.6 | 42.7 | 42.9 | 42.9  |
| GE 8000  | I    |                                  | 32.7  | 35.3  | 39.9  | 41.2  | 41.7  | 42.5  | 43.6  | 44.2  | 45.3  | 45.6  | 45.7  | 45.7 | 45.8 | 46.0 | 46.0  |
| GE 7000  | I    |                                  | 33.6  | 36.2  | 40.7  | 42.0  | 42.6  | 43.3  | 44.4  | 45.1  | 46.2  | 46.5  | 46.6  | 46.6 | 46.7 | 46.9 | 46.9  |
| GE 6000  | I    |                                  | 33.6  | 36.2  | 40.7  | 42.0  | 42.6  | 43.3  | 44.4  | 45.1  | 46.2  | 46.5  | 46.6  | 46.6 | 46.7 | 46.9 | 46.9  |
| GE 5000  | I    |                                  | 34.9  | 37.7  | 42.7  | 44.0  | 44.5  | 45.8  | 46.9  | 47.6  | 48.6  | 49.0  | 49.1  | 49.1 | 49.2 | 49.4 | 49.4  |
| GE 4500  | I    |                                  | 36.0  | 38.9  | 43.9  | 45.2  | 45.7  | 47.0  | 48.1  | 48.8  | 49.8  | 50.2  | 50.3  | 50.3 | 50.4 | 50.6 | 50.6  |
| GE 4000  | I    |                                  | 40.1  | 43.2  | 49.1  | 50.5  | 51.1  | 52.8  | 53.8  | 54.5  | 55.6  | 55.9  | 56.0  | 56.0 | 56.1 | 56.3 | 56.3  |
| GE 3500  | I    |                                  | 41.2  | 44.4  | 50.8  | 52.7  | 53.3  | 55.4  | 56.4  | 57.1  | 58.2  | 58.5  | 58.6  | 58.6 | 58.7 | 58.9 | 58.9  |
| GE 3000  | I    |                                  | 46.9  | 51.2  | 58.5  | 60.9  | 61.8  | 64.5  | 65.9  | 66.5  | 67.9  | 68.3  | 68.4  | 68.4 | 68.5 | 68.7 | 68.7  |
| GE 2500  | I    |                                  | 47.6  | 51.9  | 59.9  | 62.7  | 63.6  | 66.4  | 67.8  | 68.6  | 70.0  | 70.3  | 70.4  | 70.4 | 70.5 | 70.7 | 70.7  |
| GE 2000  | I    |                                  | 50.1  | 54.9  | 63.5  | 66.7  | 67.7  | 71.2  | 72.7  | 73.5  | 75.1  | 75.3  | 75.4  | 75.4 | 75.5 | 75.7 | 75.7  |
| GE 1800  | I    |                                  | 50.3  | 55.5  | 64.1  | 67.8  | 68.8  | 72.3  | 73.8  | 74.5  | 76.2  | 76.5  | 76.6  | 76.6 | 76.7 | 76.9 | 76.9  |
| GE 1500  | I    |                                  | 51.6  | 56.9  | 66.1  | 71.5  | 72.7  | 76.2  | 78.1  | 78.9  | 80.6  | 80.9  | 81.0  | 81.0 | 81.1 | 81.4 | 81.4  |
| GE 1200  | I    |                                  | 52.1  | 57.9  | 68.1  | 74.1  | 75.3  | 78.9  | 80.8  | 81.6  | 83.3  | 83.6  | 83.7  | 83.7 | 83.9 | 84.1 | 84.1  |
| GE 1000  | I    |                                  | 52.1  | 58.2  | 69.0  | 75.4  | 77.4  | 81.4  | 83.4  | 84.2  | 85.9  | 86.2  | 86.3  | 86.3 | 86.5 | 86.7 | 86.7  |
| GE 900   | I    |                                  | 52.3  | 58.5  | 70.0  | 76.5  | 78.4  | 82.9  | 85.3  | 86.0  | 87.8  | 88.1  | 88.2  | 88.2 | 88.3 | 88.5 | 88.5  |
| GE 800   | I    |                                  | 52.4  | 58.6  | 70.2  | 76.7  | 78.7  | 83.2  | 85.7  | 86.5  | 88.2  | 88.5  | 88.6  | 88.6 | 88.7 | 88.9 | 88.9  |
| GE 700   | I    |                                  | 52.7  | 58.9  | 71.0  | 78.1  | 80.4  | 85.2  | 88.1  | 88.8  | 90.6  | 90.9  | 91.1  | 91.1 | 91.2 | 91.4 | 91.4  |
| GE 600   | I    |                                  | 52.7  | 59.0  | 71.4  | 78.9  | 81.3  | 86.1  | 89.2  | 89.9  | 91.7  | 92.0  | 92.2  | 92.2 | 92.4 | 92.6 | 92.6  |
| GE 500   | I    |                                  | 52.7  | 59.0  | 71.7  | 79.4  | 81.9  | 86.9  | 90.2  | 91.3  | 93.4  | 93.7  | 93.9  | 93.9 | 94.3 | 94.6 | 94.6  |
| GE 400   | I    |                                  | 52.7  | 59.2  | 71.8  | 79.5  | 82.1  | 87.2  | 90.8  | 91.9  | 94.1  | 94.7  | 95.1  | 95.1 | 95.7 | 96.1 | 96.1  |
| GE 300   | I    |                                  | 52.7  | 59.2  | 71.8  | 79.5  | 82.1  | 87.2  | 91.1  | 92.6  | 95.1  | 95.7  | 96.1  | 96.2 | 96.7 | 97.3 | 97.9  |
| GE 200   | I    |                                  | 52.7  | 59.2  | 71.8  | 79.5  | 82.1  | 87.2  | 91.1  | 92.6  | 95.1  | 95.7  | 96.6  | 96.7 | 97.5 | 98.0 | 98.9  |
| GE 100   | I    |                                  | 52.7  | 59.2  | 71.8  | 79.5  | 82.1  | 87.2  | 91.1  | 92.6  | 95.1  | 95.7  | 96.7  | 96.9 | 97.6 | 98.2 | 99.7  |
| GE       | C    |                                  | 52.7  | 59.2  | 71.8  | 79.5  | 82.1  | 87.2  | 91.1  | 92.6  | 95.1  | 95.7  | 96.7  | 96.9 | 97.6 | 98.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 923

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(IST): 0300-0500

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |     |
|---------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----|
| IN      | FEET | 1                                | 16   | 32   | 48   | 64   | 80   | 96   | 112  | 128  | 144  | 160  | 176  | 192  | 208  | 224   | 240 |
| GE      | 16   | 32                               | 48   | 64   | 80   | 96   | 112  | 128  | 144  | 160  | 176  | 192  | 208  | 224  | 240  | 256   | 272 |
| NO CEIL | 1    | 25.1                             | 28.2 | 30.6 | 32.8 | 32.9 | 33.9 | 34.9 | 35.5 | 36.0 | 36.1 | 36.2 | 36.2 | 36.4 | 36.9 | 36.9  |     |
| GE 2000 | 1    | 26.2                             | 29.5 | 32.5 | 34.9 | 35.0 | 36.2 | 37.2 | 37.7 | 38.3 | 38.5 | 38.6 | 38.6 | 38.8 | 39.2 | 39.2  |     |
| GE 1800 | 1    | 26.2                             | 29.5 | 32.6 | 35.1 | 35.2 | 36.4 | 37.4 | 37.9 | 38.5 | 38.7 | 38.8 | 38.8 | 39.0 | 39.5 | 39.5  |     |
| GE 1600 | 1    | 26.2                             | 29.5 | 32.6 | 35.1 | 35.2 | 36.4 | 37.4 | 37.9 | 38.5 | 38.7 | 38.8 | 38.8 | 39.0 | 39.5 | 39.5  |     |
| GE 1400 | 1    | 26.2                             | 29.5 | 32.6 | 35.1 | 35.2 | 36.4 | 37.4 | 37.9 | 38.5 | 38.7 | 38.8 | 38.8 | 39.0 | 39.5 | 39.5  |     |
| GE 1200 | 1    | 26.2                             | 29.5 | 32.6 | 35.1 | 35.2 | 36.4 | 37.4 | 37.9 | 38.5 | 38.7 | 38.8 | 38.8 | 39.0 | 39.5 | 39.5  |     |
| GE 1000 | 1    | 26.7                             | 30.4 | 33.8 | 36.2 | 36.3 | 37.5 | 38.6 | 39.1 | 39.7 | 39.9 | 40.0 | 40.0 | 40.2 | 40.6 | 40.6  |     |
| GE 900  | 1    | 26.7                             | 30.4 | 33.8 | 36.5 | 36.6 | 37.8 | 38.9 | 39.5 | 40.0 | 40.2 | 40.3 | 40.3 | 40.5 | 41.0 | 41.0  |     |
| GE 800  | 1    | 28.4                             | 32.4 | 36.2 | 38.9 | 39.0 | 40.3 | 41.6 | 42.2 | 42.7 | 42.9 | 43.0 | 43.0 | 43.2 | 43.7 | 43.7  |     |
| GE 700  | 1    | 29.1                             | 33.2 | 37.0 | 39.8 | 39.9 | 41.2 | 42.5 | 43.0 | 43.6 | 43.8 | 43.9 | 43.9 | 44.1 | 44.5 | 44.5  |     |
| GE 600  | 1    | 29.1                             | 33.2 | 37.0 | 39.8 | 39.9 | 41.2 | 42.5 | 43.0 | 43.6 | 43.8 | 43.9 | 43.9 | 44.1 | 44.5 | 44.5  |     |
| GE 500  | 1    | 30.1                             | 34.4 | 38.4 | 41.3 | 41.4 | 42.9 | 44.2 | 44.8 | 45.3 | 45.5 | 45.6 | 45.6 | 45.9 | 46.4 | 46.4  |     |
| GE 400  | 1    | 31.2                             | 35.6 | 39.6 | 42.5 | 42.6 | 44.1 | 45.4 | 45.9 | 46.5 | 46.7 | 46.8 | 46.8 | 47.1 | 47.6 | 47.6  |     |
| GE 300  | 1    | 34.4                             | 38.9 | 44.3 | 47.8 | 47.9 | 49.6 | 51.0 | 51.6 | 52.1 | 52.3 | 52.4 | 52.4 | 52.8 | 53.2 | 53.2  |     |
| GE 250  | 1    | 36.0                             | 40.6 | 46.6 | 50.4 | 50.5 | 52.3 | 53.7 | 54.3 | 54.8 | 55.0 | 55.1 | 55.1 | 55.5 | 55.9 | 55.9  |     |
| GE 200  | 1    | 42.2                             | 47.7 | 54.4 | 58.9 | 59.0 | 61.4 | 63.0 | 63.9 | 64.5 | 64.8 | 64.9 | 64.9 | 65.2 | 65.6 | 65.6  |     |
| GE 150  | 1    | 42.8                             | 48.4 | 55.8 | 60.3 | 60.4 | 62.8 | 64.4 | 65.3 | 65.9 | 66.3 | 66.4 | 66.4 | 66.7 | 67.1 | 67.1  |     |
| GE 100  | 1    | 45.2                             | 51.9 | 60.2 | 65.1 | 65.3 | 68.0 | 69.8 | 70.8 | 71.8 | 72.1 | 72.3 | 72.3 | 72.6 | 73.1 | 73.1  |     |
| GE 80   | 1    | 45.5                             | 52.3 | 60.6 | 65.8 | 66.1 | 68.8 | 70.7 | 71.7 | 72.6 | 73.0 | 73.2 | 73.2 | 73.5 | 73.9 | 73.9  |     |
| GE 60   | 1    | 47.8                             | 55.4 | 64.0 | 69.7 | 69.9 | 73.1 | 75.6 | 76.5 | 77.5 | 77.8 | 78.1 | 78.1 | 78.4 | 78.8 | 78.8  |     |
| GE 40   | 1    | 48.4                             | 56.5 | 66.3 | 72.3 | 72.9 | 76.3 | 78.8 | 79.8 | 80.8 | 81.1 | 81.3 | 81.3 | 81.6 | 82.1 | 82.1  |     |
| GE 30   | 1    | 48.6                             | 57.3 | 67.6 | 74.4 | 75.5 | 79.7 | 82.2 | 83.1 | 84.1 | 84.4 | 84.6 | 84.6 | 85.0 | 85.4 | 85.4  |     |
| GE 20   | 1    | 49.1                             | 58.1 | 68.6 | 75.5 | 76.5 | 80.8 | 83.9 | 84.9 | 85.8 | 86.2 | 86.4 | 86.4 | 86.7 | 87.1 | 87.1  |     |
| GE 10   | 1    | 49.5                             | 58.5 | 69.1 | 75.9 | 77.0 | 81.3 | 84.4 | 85.4 | 86.7 | 87.0 | 87.2 | 87.2 | 87.5 | 87.8 | 87.8  |     |
| GE 8    | 1    | 49.8                             | 58.8 | 69.6 | 77.1 | 78.2 | 82.8 | 86.3 | 87.2 | 88.5 | 88.9 | 89.1 | 89.1 | 89.3 | 89.6 | 89.6  |     |
| GE 6    | 1    | 49.8                             | 58.9 | 70.2 | 77.7 | 78.8 | 83.7 | 87.1 | 88.1 | 89.4 | 89.7 | 89.9 | 89.9 | 90.2 | 90.5 | 90.5  |     |
| GE 5    | 1    | 49.8                             | 59.1 | 70.8 | 78.6 | 79.7 | 84.9 | 88.3 | 89.4 | 91.0 | 91.4 | 91.6 | 91.6 | 92.1 | 92.5 | 92.5  |     |
| GE 4    | 1    | 50.1                             | 59.4 | 71.1 | 79.0 | 80.1 | 85.5 | 89.6 | 90.9 | 92.6 | 93.0 | 93.5 | 93.7 | 94.2 | 94.9 | 94.9  |     |
| GE 3    | 1    | 50.1                             | 59.4 | 71.1 | 79.0 | 80.2 | 85.8 | 90.5 | 92.2 | 94.3 | 94.6 | 95.1 | 95.4 | 95.8 | 96.5 | 96.9  |     |
| GE 2    | 1    | 50.1                             | 59.5 | 71.4 | 79.2 | 80.4 | 86.1 | 90.7 | 92.5 | 94.7 | 95.1 | 96.2 | 96.5 | 97.2 | 97.9 | 98.6  |     |
| GE 1    | 1    | 50.1                             | 59.5 | 71.4 | 79.5 | 80.6 | 86.3 | 90.9 | 92.8 | 95.0 | 95.5 | 96.5 | 96.9 | 97.5 | 98.3 | 99.8  |     |
| GE      | 1    | 50.1                             | 59.5 | 71.4 | 79.5 | 80.6 | 86.3 | 90.9 | 92.8 | 95.0 | 95.5 | 96.5 | 96.9 | 97.5 | 98.5 | 100.0 |     |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: JAN

HOURS(IST): 0600-0600

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|---------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN      | FEET | GE 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL | 1    |                                  | 20.6  | 22.5  | 25.7  | 27.0  | 27.1  | 28.3  | 28.9  | 29.2  | 29.8  | 29.8  | 29.9  | 29.9 | 29.9 | 30.1 | 30.2  |
| GE 2000 |      |                                  | 23.0  | 25.5  | 29.4  | 31.4  | 31.5  | 32.8  | 33.4  | 33.8  | 34.3  | 34.3  | 34.4  | 34.4 | 34.4 | 34.6 | 34.7  |
| GE 1800 |      |                                  | 23.0  | 25.5  | 29.6  | 31.5  | 31.6  | 32.9  | 33.5  | 33.9  | 34.4  | 34.4  | 34.5  | 34.5 | 34.5 | 34.7 | 34.8  |
| GE 1600 |      |                                  | 23.0  | 25.5  | 29.6  | 31.5  | 31.6  | 32.9  | 33.5  | 33.9  | 34.4  | 34.4  | 34.5  | 34.5 | 34.5 | 34.7 | 34.8  |
| GE 1400 |      |                                  | 23.0  | 25.6  | 29.7  | 31.6  | 31.7  | 33.7  | 33.7  | 34.0  | 34.5  | 34.5  | 34.6  | 34.6 | 34.6 | 34.8 | 35.0  |
| GE 1200 |      |                                  | 23.0  | 25.6  | 29.7  | 31.6  | 31.7  | 33.0  | 33.7  | 34.0  | 34.5  | 34.5  | 34.6  | 34.6 | 34.6 | 34.8 | 35.0  |
| GE 1000 |      |                                  | 23.4  | 26.1  | 30.3  | 32.5  | 32.6  | 33.9  | 34.6  | 35.0  | 35.5  | 35.5  | 35.6  | 35.6 | 35.6 | 35.8 | 35.9  |
| GE 900  |      |                                  | 23.6  | 26.4  | 30.9  | 33.1  | 33.2  | 34.6  | 35.4  | 35.7  | 36.2  | 36.2  | 36.4  | 36.4 | 36.4 | 36.6 | 36.7  |
| GE 800  |      |                                  | 26.0  | 29.3  | 34.3  | 36.6  | 36.7  | 38.4  | 39.3  | 39.7  | 40.2  | 40.2  | 40.3  | 40.3 | 40.3 | 40.6 | 40.8  |
| GE 700  |      |                                  | 26.6  | 30.0  | 35.1  | 37.3  | 37.4  | 39.2  | 40.0  | 40.5  | 41.0  | 41.0  | 41.1  | 41.1 | 41.1 | 41.3 | 41.5  |
| GE 600  |      |                                  | 26.6  | 30.0  | 35.1  | 37.3  | 37.4  | 39.2  | 40.0  | 40.5  | 41.0  | 41.0  | 41.1  | 41.1 | 41.1 | 41.3 | 41.5  |
| GE 500  |      |                                  | 27.5  | 31.2  | 36.2  | 38.7  | 38.8  | 40.7  | 41.5  | 42.0  | 42.5  | 42.5  | 42.6  | 42.6 | 42.6 | 42.9 | 43.1  |
| GE 450  |      |                                  | 28.9  | 32.7  | 37.9  | 40.3  | 40.6  | 42.4  | 43.3  | 43.7  | 44.2  | 44.2  | 44.3  | 44.3 | 44.3 | 44.7 | 44.9  |
| GE 400  |      |                                  | 32.3  | 36.4  | 42.2  | 44.9  | 45.1  | 47.1  | 48.1  | 48.5  | 49.1  | 49.1  | 49.2  | 49.2 | 49.2 | 49.5 | 49.7  |
| GE 350  |      |                                  | 34.0  | 38.1  | 44.1  | 47.4  | 47.6  | 49.8  | 50.8  | 51.2  | 51.8  | 51.8  | 51.9  | 51.9 | 51.9 | 52.2 | 52.4  |
| GE 300  |      |                                  | 41.0  | 46.0  | 53.2  | 57.1  | 57.7  | 60.4  | 61.6  | 62.6  | 63.4  | 63.5  | 63.6  | 63.8 | 63.8 | 64.1 | 64.3  |
| GE 250  |      |                                  | 42.5  | 47.6  | 55.2  | 59.2  | 59.9  | 62.7  | 63.9  | 64.9  | 65.9  | 66.1  | 66.2  | 66.3 | 66.3 | 66.7 | 66.9  |
| GE 200  |      |                                  | 45.2  | 50.9  | 59.2  | 64.6  | 64.6  | 67.6  | 69.1  | 70.2  | 71.2  | 71.4  | 71.5  | 71.6 | 71.6 | 72.0 | 72.2  |
| GE 180  |      |                                  | 45.7  | 51.5  | 59.9  | 64.8  | 65.5  | 68.5  | 70.3  | 71.4  | 72.4  | 72.6  | 72.7  | 72.8 | 72.8 | 73.1 | 73.4  |
| GE 150  |      |                                  | 48.1  | 54.5  | 63.4  | 68.7  | 69.4  | 72.7  | 74.8  | 75.8  | 76.8  | 77.0  | 77.1  | 77.2 | 77.2 | 77.6 | 77.8  |
| GE 120  |      |                                  | 49.4  | 56.5  | 66.6  | 73.1  | 73.8  | 77.1  | 79.6  | 80.8  | 81.9  | 82.1  | 82.2  | 82.3 | 82.3 | 82.6 | 82.8  |
| GE 100  |      |                                  | 49.6  | 56.7  | 67.5  | 74.3  | 75.4  | 78.9  | 81.7  | 82.8  | 84.0  | 84.3  | 84.4  | 84.6 | 84.6 | 84.9 | 85.1  |
| GE 90   |      |                                  | 49.9  | 57.4  | 68.4  | 75.3  | 76.4  | 79.9  | 83.1  | 84.3  | 85.7  | 86.0  | 86.1  | 86.3 | 86.3 | 86.6 | 86.8  |
| GE 80   |      |                                  | 49.9  | 57.4  | 68.5  | 75.7  | 76.8  | 80.5  | 83.6  | 84.8  | 86.4  | 86.4  | 86.9  | 87.2 | 87.2 | 87.5 | 87.7  |
| GE 70   |      |                                  | 50.1  | 57.5  | 69.0  | 76.6  | 77.7  | 81.6  | 84.9  | 86.2  | 87.8  | 88.2  | 88.3  | 88.6 | 88.7 | 89.0 | 89.2  |
| GE 60   |      |                                  | 50.1  | 57.5  | 69.1  | 77.0  | 78.2  | 82.3  | 85.7  | 86.9  | 88.7  | 89.2  | 89.3  | 89.5 | 89.6 | 90.0 | 90.2  |
| GE 50   |      |                                  | 50.4  | 57.8  | 69.8  | 78.2  | 79.6  | 84.0  | 87.6  | 89.2  | 90.9  | 91.8  | 92.0  | 92.3 | 92.4 | 92.8 | 93.0  |
| GE 40   |      |                                  | 50.4  | 57.8  | 69.8  | 78.3  | 79.7  | 84.3  | 88.1  | 90.2  | 92.1  | 93.0  | 93.3  | 93.6 | 93.7 | 94.7 | 94.9  |
| GE 30   |      |                                  | 50.4  | 57.8  | 69.9  | 78.4  | 79.8  | 84.8  | 89.2  | 91.4  | 93.5  | 94.4  | 94.7  | 95.1 | 95.3 | 96.4 | 96.7  |
| GE 20   |      |                                  | 50.4  | 57.8  | 69.9  | 78.5  | 79.9  | 85.0  | 89.4  | 91.8  | 94.0  | 94.9  | 95.8  | 96.2 | 96.3 | 97.8 | 98.4  |
| GE 10   |      |                                  | 50.4  | 57.8  | 69.9  | 78.6  | 80.0  | 85.1  | 89.5  | 91.9  | 94.1  | 94.1  | 96.0  | 96.5 | 97.0 | 98.7 | 99.8  |
| GE      | CI   |                                  | 50.4  | 57.8  | 69.9  | 78.6  | 80.0  | 85.1  | 89.5  | 91.9  | 94.1  | 94.1  | 96.0  | 96.5 | 97.0 | 98.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: JAN HOURS(IST): 0900-1100

| CEILING    |           | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|------------|-----------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN<br>FEET | GT<br>16" | GE<br>9C                         | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL    |           | 19.2                             | 20.5     | 23.1     | 24.5     | 24.7     | 25.0     | 26.0     | 26.1     | 26.3     | 26.3     | 26.3     | 26.4    | 26.4    | 26.4    | 26.9    |
| GE 20000   |           | 22.0                             | 23.6     | 26.8     | 28.5     | 28.9     | 29.4     | 30.4     | 30.5     | 30.7     | 30.7     | 30.7     | 30.9    | 30.9    | 31.0    | 31.4    |
| GE 18000   |           | 22.0                             | 23.8     | 27.1     | 28.9     | 29.3     | 29.9     | 30.9     | 31.0     | 31.2     | 31.2     | 31.2     | 31.3    | 31.3    | 31.4    | 31.8    |
| GE 16000   |           | 22.0                             | 23.8     | 27.1     | 28.9     | 29.3     | 29.9     | 30.9     | 31.0     | 31.2     | 31.2     | 31.2     | 31.3    | 31.3    | 31.4    | 31.8    |
| GE 14000   |           | 22.1                             | 23.9     | 27.2     | 29.0     | 29.4     | 30.0     | 31.0     | 31.1     | 31.3     | 31.3     | 31.3     | 31.4    | 31.4    | 31.5    | 31.9    |
| GE 12000   |           | 22.2                             | 24.2     | 27.5     | 29.3     | 29.8     | 30.3     | 31.3     | 31.4     | 31.6     | 31.6     | 31.6     | 31.7    | 31.7    | 31.8    | 32.3    |
| GE 10000   |           | 23.4                             | 25.4     | 28.9     | 31.2     | 31.7     | 32.3     | 33.2     | 33.3     | 33.5     | 33.5     | 33.5     | 33.7    | 33.7    | 33.8    | 34.2    |
| GE 9000    |           | 23.5                             | 25.5     | 29.0     | 31.3     | 31.8     | 32.4     | 33.5     | 33.7     | 33.9     | 33.9     | 33.9     | 34.0    | 34.0    | 34.1    | 34.5    |
| GE 8000    |           | 27.3                             | 29.4     | 34.4     | 36.8     | 37.3     | 38.0     | 39.2     | 39.3     | 39.8     | 39.9     | 39.9     | 40.0    | 40.1    | 40.2    | 40.7    |
| GE 7000    |           | 28.2                             | 30.5     | 35.5     | 37.9     | 38.4     | 39.1     | 40.2     | 40.3     | 40.9     | 41.0     | 41.0     | 41.1    | 41.2    | 41.3    | 41.7    |
| GE 6000    |           | 28.2                             | 30.5     | 35.5     | 37.9     | 38.4     | 39.1     | 40.2     | 40.3     | 40.9     | 41.0     | 41.0     | 41.1    | 41.2    | 41.3    | 41.7    |
| GE 5000    |           | 29.7                             | 32.0     | 37.2     | 40.2     | 40.8     | 41.4     | 42.6     | 42.7     | 43.3     | 43.5     | 43.5     | 43.6    | 43.7    | 43.8    | 44.2    |
| GE 4500    |           | 30.3                             | 32.7     | 38.0     | 41.0     | 41.6     | 42.3     | 43.5     | 43.6     | 44.1     | 44.3     | 44.3     | 44.4    | 44.6    | 44.7    | 45.1    |
| GE 4000    |           | 33.5                             | 36.7     | 42.9     | 46.5     | 47.1     | 47.8     | 49.0     | 49.2     | 49.7     | 49.9     | 49.9     | 50.1    | 50.2    | 50.3    | 50.7    |
| GE 3500    |           | 37.1                             | 40.6     | 47.4     | 51.9     | 52.6     | 53.4     | 54.8     | 55.0     | 55.7     | 55.9     | 55.9     | 56.0    | 56.1    | 56.2    | 56.6    |
| GE 3000    |           | 43.4                             | 47.4     | 54.6     | 60.1     | 61.1     | 61.9     | 64.0     | 64.2     | 65.4     | 65.6     | 65.6     | 65.7    | 65.9    | 66.0    | 66.5    |
| GE 2500    |           | 44.3                             | 48.3     | 55.7     | 61.8     | 62.8     | 63.6     | 65.8     | 66.0     | 67.2     | 67.4     | 67.5     | 67.6    | 67.9    | 68.0    | 68.4    |
| GE 2000    |           | 47.1                             | 51.8     | 59.8     | 66.6     | 67.5     | 68.6     | 71.1     | 71.4     | 72.8     | 73.1     | 73.2     | 73.4    | 73.7    | 73.8    | 74.2    |
| GE 1800    |           | 47.2                             | 51.9     | 60.1     | 67.1     | 68.1     | 69.1     | 71.6     | 72.0     | 73.5     | 73.8     | 73.9     | 74.0    | 74.3    | 74.4    | 74.9    |
| GE 1500    |           | 48.1                             | 52.8     | 61.4     | 68.9     | 70.0     | 71.1     | 73.8     | 74.2     | 76.1     | 76.5     | 76.6     | 76.7    | 77.0    | 77.1    | 77.6    |
| GE 1200    |           | 50.1                             | 54.9     | 63.6     | 72.1     | 73.1     | 74.6     | 77.5     | 78.4     | 80.6     | 81.1     | 81.2     | 81.3    | 81.7    | 81.8    | 82.2    |
| GE 1000    |           | 50.9                             | 55.8     | 64.6     | 73.4     | 74.9     | 76.6     | 79.5     | 80.6     | 83.4     | 84.0     | 84.3     | 84.4    | 84.8    | 84.9    | 85.3    |
| GE 900     |           | 51.0                             | 56.7     | 64.9     | 73.9     | 75.4     | 77.1     | 80.4     | 81.4     | 84.3     | 84.1     | 85.3     | 85.4    | 85.9    | 86.0    | 86.4    |
| GE 800     |           | 51.2                             | 56.3     | 65.7     | 74.8     | 76.3     | 78.0     | 81.6     | 82.7     | 85.7     | 86.7     | 86.9     | 87.1    | 87.5    | 87.6    | 88.0    |
| GE 700     |           | 51.2                             | 56.3     | 66.2     | 75.4     | 76.9     | 78.6     | 82.5     | 83.8     | 86.9     | 88.0     | 88.2     | 88.3    | 88.8    | 88.9    | 89.3    |
| GE 600     |           | 51.2                             | 56.3     | 66.3     | 75.5     | 77.1     | 78.9     | 83.2     | 84.5     | 87.9     | 89.2     | 89.5     | 89.9    | 90.4    | 90.5    | 90.9    |
| GE 500     |           | 51.2                             | 56.3     | 66.5     | 76.4     | 77.9     | 79.9     | 84.5     | 86.3     | 90.2     | 91.5     | 92.0     | 92.3    | 93.3    | 93.4    | 93.9    |
| GE 400     |           | 51.2                             | 56.3     | 66.5     | 76.4     | 78.1     | 80.4     | 85.4     | 87.5     | 91.6     | 93.1     | 93.9     | 94.3    | 95.3    | 95.6    | 96.0    |
| GE 300     |           | 51.3                             | 56.4     | 66.7     | 76.6     | 78.4     | 80.7     | 86.2     | 88.2     | 92.6     | 94.2     | 95.0     | 95.8    | 97.0    | 97.3    | 98.1    |
| GE 200     |           | 51.3                             | 56.4     | 66.7     | 76.6     | 78.4     | 80.7     | 86.2     | 88.2     | 92.7     | 94.6     | 95.5     | 96.3    | 97.6    | 98.0    | 99.0    |
| GE 100     |           | 51.3                             | 56.4     | 66.7     | 76.6     | 78.4     | 80.7     | 86.2     | 88.2     | 92.7     | 94.6     | 95.5     | 96.5    | 98.1    | 98.5    | 99.8    |
| GE 0       |           | 51.3                             | 56.4     | 66.7     | 76.6     | 78.4     | 80.7     | 86.2     | 88.2     | 92.7     | 94.6     | 95.5     | 96.5    | 98.1    | 98.5    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 9.7

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 76-87

MONTH: JAN HOURS: 1200-1400

| CEILING  |        | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|--------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN FEET  | GT 160 | GE 90                            | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  |        | 20.8                             | 21.7  | 24.9  | 25.6  | 25.8  | 27.0  | 27.1  | 27.1  | 27.2  | 27.2  | 27.2  | 27.2 | 27.2 | 27.2 | 27.8  |
| GE 20000 |        | 25.5                             | 26.6  | 30.9  | 31.9  | 32.1  | 33.3  | 33.5  | 33.5  | 33.7  | 33.7  | 33.7  | 33.7 | 33.7 | 33.7 | 34.3  |
| GE 18000 |        | 25.6                             | 26.8  | 31.0  | 32.0  | 32.3  | 33.4  | 33.7  | 33.7  | 33.8  | 33.8  | 33.8  | 33.8 | 33.8 | 33.8 | 34.4  |
| GE 16000 |        | 25.6                             | 26.8  | 31.0  | 32.0  | 32.3  | 33.4  | 33.7  | 33.7  | 33.8  | 33.8  | 33.8  | 33.8 | 33.8 | 33.8 | 34.4  |
| GE 14000 |        | 25.8                             | 27.0  | 31.2  | 32.3  | 32.5  | 33.7  | 33.9  | 33.9  | 34.0  | 34.0  | 34.0  | 34.0 | 34.0 | 34.0 | 34.6  |
| GE 12000 |        | 26.1                             | 27.3  | 31.5  | 32.6  | 32.8  | 34.0  | 34.2  | 34.2  | 34.3  | 34.3  | 34.3  | 34.3 | 34.3 | 34.3 | 35.0  |
| GE 10000 |        | 27.2                             | 28.4  | 32.7  | 33.8  | 34.0  | 35.2  | 35.4  | 35.4  | 35.5  | 35.5  | 35.5  | 35.5 | 35.5 | 35.5 | 36.1  |
| GE 9000  |        | 27.5                             | 28.7  | 33.0  | 34.2  | 34.4  | 35.6  | 35.8  | 35.8  | 35.9  | 35.9  | 35.9  | 35.9 | 35.9 | 35.9 | 36.6  |
| GE 8000  |        | 29.9                             | 31.3  | 36.4  | 37.8  | 38.0  | 39.7  | 39.9  | 39.9  | 40.1  | 40.1  | 40.1  | 40.1 | 40.2 | 40.2 | 40.9  |
| GE 7000  |        | 31.1                             | 32.6  | 37.8  | 39.2  | 39.4  | 41.1  | 41.3  | 41.3  | 41.6  | 41.6  | 41.7  | 41.7 | 41.9 | 41.9 | 42.5  |
| GE 6000  |        | 31.1                             | 32.7  | 37.9  | 39.3  | 39.5  | 41.2  | 41.4  | 41.4  | 41.7  | 41.7  | 41.9  | 41.9 | 42.0 | 42.0 | 42.6  |
| GE 5000  |        | 32.4                             | 34.1  | 39.6  | 41.2  | 41.4  | 43.1  | 43.4  | 43.4  | 43.7  | 43.7  | 43.8  | 43.8 | 43.9 | 43.9 | 44.6  |
| GE 4500  |        | 32.9                             | 34.6  | 40.1  | 41.7  | 42.0  | 43.7  | 43.9  | 43.9  | 44.2  | 44.2  | 44.3  | 44.3 | 44.4 | 44.4 | 45.1  |
| GE 4000  |        | 35.9                             | 38.6  | 45.5  | 47.5  | 47.8  | 49.5  | 49.7  | 49.7  | 50.3  | 50.3  | 50.4  | 50.4 | 50.5 | 50.5 | 51.1  |
| GE 3500  |        | 38.4                             | 41.3  | 48.7  | 51.3  | 51.8  | 53.7  | 54.2  | 54.2  | 54.9  | 54.9  | 55.1  | 55.1 | 55.3 | 55.3 | 56.0  |
| GE 3000  |        | 46.8                             | 49.9  | 57.8  | 61.7  | 62.1  | 64.4  | 65.3  | 65.4  | 66.5  | 66.5  | 66.7  | 66.7 | 66.9 | 66.9 | 67.5  |
| GE 2500  |        | 47.7                             | 51.0  | 59.1  | 63.6  | 64.2  | 66.5  | 67.4  | 67.5  | 68.6  | 68.6  | 68.8  | 68.8 | 69.0 | 69.0 | 69.7  |
| GE 2000  |        | 50.3                             | 54.0  | 63.2  | 68.0  | 68.5  | 70.8  | 72.7  | 73.0  | 74.4  | 74.4  | 74.6  | 74.9 | 75.2 | 75.2 | 75.9  |
| GE 1800  |        | 50.9                             | 54.7  | 64.0  | 68.8  | 69.4  | 71.6  | 73.8  | 74.1  | 75.6  | 75.6  | 75.8  | 76.1 | 76.4 | 76.4 | 77.1  |
| GE 1500  |        | 52.0                             | 56.0  | 65.5  | 71.3  | 72.1  | 74.5  | 76.7  | 77.0  | 78.5  | 78.5  | 78.7  | 79.0 | 79.3 | 79.3 | 80.0  |
| GE 1200  |        | 53.1                             | 57.6  | 67.7  | 75.2  | 75.9  | 78.9  | 81.3  | 82.1  | 83.8  | 83.8  | 84.0  | 84.3 | 84.6 | 84.6 | 85.3  |
| GE 1000  |        | 53.8                             | 58.4  | 68.8  | 76.7  | 77.8  | 80.9  | 83.5  | 84.5  | 86.3  | 86.4  | 86.6  | 86.8 | 87.4 | 87.4 | 88.1  |
| GE 900   |        | 53.9                             | 58.5  | 69.0  | 76.9  | 78.1  | 81.2  | 83.9  | 84.9  | 86.7  | 86.9  | 87.1  | 87.3 | 87.8 | 87.8 | 88.6  |
| GE 800   |        | 53.9                             | 58.5  | 69.4  | 77.5  | 78.7  | 82.0  | 84.8  | 85.9  | 87.7  | 87.8  | 88.1  | 88.3 | 88.9 | 88.9 | 89.6  |
| GE 700   |        | 53.9                             | 58.5  | 69.6  | 77.8  | 79.1  | 83.4  | 86.2  | 87.3  | 89.3  | 89.5  | 89.9  | 90.1 | 90.6 | 90.6 | 91.4  |
| GE 600   |        | 53.9                             | 58.5  | 69.7  | 78.3  | 79.8  | 84.5  | 87.6  | 88.7  | 90.8  | 91.0  | 91.4  | 91.6 | 92.1 | 92.1 | 92.9  |
| GE 500   |        | 53.9                             | 58.6  | 70.0  | 79.3  | 81.1  | 85.8  | 89.2  | 90.4  | 92.9  | 93.2  | 93.7  | 94.3 | 94.7 | 94.7 | 95.5  |
| GE 400   |        | 53.9                             | 58.7  | 70.1  | 79.5  | 81.3  | 86.4  | 90.2  | 91.5  | 94.1  | 94.7  | 95.4  | 95.7 | 96.7 | 96.7 | 97.5  |
| GE 300   |        | 53.9                             | 58.7  | 70.1  | 79.5  | 81.3  | 86.4  | 90.6  | 92.0  | 95.0  | 95.8  | 96.5  | 97.1 | 98.1 | 98.1 | 98.9  |
| GE 200   |        | 53.9                             | 58.7  | 70.1  | 79.5  | 81.3  | 86.5  | 90.7  | 92.1  | 95.1  | 96.0  | 96.8  | 97.3 | 98.4 | 98.4 | 99.7  |
| GE 100   |        | 53.9                             | 58.7  | 70.1  | 79.5  | 81.3  | 86.5  | 90.7  | 92.1  | 95.1  | 96.0  | 96.9  | 97.4 | 98.5 | 98.5 | 100.0 |
| GE       |        | 53.9                             | 59.7  | 70.1  | 79.5  | 81.3  | 86.5  | 90.7  | 92.1  | 95.1  | 96.0  | 96.9  | 97.4 | 98.5 | 98.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 927



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(IST): 1500-1700

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GE 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE C  |
| NO CEIL  | I    | 21.7                             | 22.5  | 25.6  | 26.2  | 26.2  | 26.9  | 27.3  | 27.4  | 27.7  | 27.7  | 27.7  | 27.7  | 27.7 | 27.7 | 27.7 | 28.0  |
| GE 20000 | I    | 24.9                             | 25.8  | 29.9  | 30.5  | 30.5  | 31.4  | 31.9  | 32.0  | 32.4  | 32.4  | 32.4  | 32.4  | 32.4 | 32.4 | 32.4 | 32.7  |
| GE 18000 | I    | 24.9                             | 25.8  | 29.9  | 30.5  | 30.5  | 31.4  | 31.9  | 32.0  | 32.4  | 32.4  | 32.4  | 32.4  | 32.4 | 32.4 | 32.4 | 32.7  |
| GE 16000 | I    | 24.9                             | 25.8  | 29.9  | 30.5  | 30.5  | 31.4  | 31.9  | 32.0  | 32.4  | 32.4  | 32.4  | 32.4  | 32.4 | 32.4 | 32.4 | 32.7  |
| GE 14000 | I    | 24.9                             | 25.8  | 29.9  | 30.5  | 30.5  | 31.4  | 31.9  | 32.0  | 32.4  | 32.4  | 32.4  | 32.4  | 32.4 | 32.4 | 32.4 | 32.7  |
| GE 12000 | I    | 25.0                             | 25.9  | 30.0  | 30.6  | 30.6  | 31.5  | 32.0  | 32.1  | 32.5  | 32.5  | 32.5  | 32.5  | 32.5 | 32.5 | 32.5 | 32.8  |
| GE 10000 | I    | 27.2                             | 28.2  | 32.6  | 33.4  | 33.5  | 34.4  | 35.0  | 35.1  | 35.4  | 35.4  | 35.4  | 35.4  | 35.4 | 35.4 | 35.4 | 35.7  |
| GE 9000  | I    | 27.6                             | 28.6  | 33.0  | 34.0  | 34.1  | 35.0  | 35.5  | 35.6  | 35.9  | 35.9  | 35.9  | 35.9  | 35.9 | 35.9 | 35.9 | 36.2  |
| GE 8000  | I    | 31.5                             | 32.6  | 37.4  | 38.6  | 38.7  | 40.1  | 40.9  | 41.0  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3 | 41.3 | 41.3 | 41.6  |
| GE 7000  | I    | 31.8                             | 33.2  | 38.3  | 39.5  | 39.6  | 41.0  | 41.7  | 41.9  | 42.2  | 42.2  | 42.2  | 42.2  | 42.2 | 42.2 | 42.2 | 42.5  |
| GE 6000  | I    | 31.8                             | 33.2  | 38.3  | 39.5  | 39.6  | 41.0  | 41.7  | 41.9  | 42.2  | 42.2  | 42.2  | 42.2  | 42.2 | 42.2 | 42.2 | 42.5  |
| GE 5000  | I    | 32.8                             | 34.2  | 39.7  | 41.0  | 41.1  | 42.5  | 43.3  | 43.4  | 43.7  | 43.7  | 43.7  | 43.7  | 43.7 | 43.7 | 43.7 | 44.0  |
| GE 4500  | I    | 32.9                             | 34.3  | 39.8  | 41.1  | 41.2  | 42.6  | 43.4  | 43.5  | 43.8  | 43.8  | 43.8  | 43.8  | 43.8 | 43.8 | 43.8 | 44.1  |
| GE 4000  | I    | 37.1                             | 39.4  | 45.6  | 47.6  | 47.8  | 49.2  | 49.9  | 50.1  | 50.5  | 50.5  | 50.5  | 50.5  | 50.5 | 50.5 | 50.5 | 50.8  |
| GE 3500  | I    | 39.7                             | 42.3  | 49.1  | 51.5  | 51.8  | 53.2  | 54.3  | 54.4  | 54.8  | 55.0  | 55.0  | 55.0  | 55.0 | 55.0 | 55.0 | 55.3  |
| GE 3000  | I    | 48.5                             | 51.2  | 58.4  | 61.9  | 62.5  | 64.0  | 65.8  | 66.3  | 66.8  | 67.0  | 67.0  | 67.0  | 67.0 | 67.0 | 67.1 | 67.4  |
| GE 2500  | I    | 49.1                             | 51.8  | 59.0  | 62.9  | 63.8  | 65.3  | 67.1  | 67.6  | 68.1  | 68.3  | 68.4  | 68.4  | 68.4 | 68.4 | 68.5 | 68.8  |
| GE 2000  | I    | 51.6                             | 54.6  | 62.7  | 67.3  | 68.2  | 69.9  | 72.0  | 72.5  | 73.1  | 73.5  | 73.6  | 73.8  | 73.8 | 73.8 | 73.9 | 74.2  |
| GE 1800  | I    | 51.8                             | 54.8  | 63.1  | 67.7  | 68.7  | 70.4  | 72.5  | 73.0  | 73.7  | 74.0  | 74.1  | 74.3  | 74.3 | 74.3 | 74.4 | 74.8  |
| GE 1500  | I    | 53.1                             | 56.2  | 64.8  | 70.6  | 71.6  | 73.7  | 76.1  | 76.7  | 77.5  | 77.8  | 77.9  | 78.2  | 78.3 | 78.3 | 78.4 | 78.7  |
| GE 1200  | I    | 54.0                             | 57.7  | 66.9  | 73.7  | 74.9  | 77.2  | 80.3  | 81.1  | 82.2  | 82.5  | 82.6  | 83.0  | 83.1 | 83.2 | 83.2 | 83.5  |
| GE 1000  | I    | 54.5                             | 58.4  | 68.7  | 76.3  | 77.7  | 81.1  | 84.3  | 85.1  | 86.7  | 87.1  | 87.2  | 87.6  | 87.7 | 87.7 | 87.8 | 88.1  |
| GE 900   | I    | 54.5                             | 58.4  | 68.8  | 76.5  | 77.9  | 81.4  | 84.6  | 85.4  | 87.1  | 87.4  | 87.5  | 87.9  | 88.0 | 88.0 | 88.1 | 88.5  |
| GE 800   | I    | 54.6                             | 58.6  | 69.3  | 77.1  | 78.7  | 82.6  | 85.8  | 86.6  | 88.2  | 88.6  | 88.7  | 89.1  | 89.2 | 89.3 | 89.3 | 89.6  |
| GE 700   | I    | 54.6                             | 58.6  | 69.4  | 77.8  | 79.4  | 83.7  | 86.8  | 87.7  | 89.3  | 89.6  | 89.8  | 90.2  | 90.3 | 90.4 | 90.7 | 91.0  |
| GE 600   | I    | 54.6                             | 58.6  | 69.6  | 78.1  | 79.8  | 84.5  | 87.8  | 88.9  | 90.6  | 91.0  | 91.2  | 91.6  | 91.7 | 91.8 | 92.1 | 92.4  |
| GE 500   | I    | 54.6                             | 58.6  | 69.8  | 79.0  | 80.6  | 85.7  | 89.0  | 90.4  | 92.7  | 93.1  | 93.2  | 93.9  | 94.2 | 94.3 | 94.6 | 94.9  |
| GE 400   | I    | 54.6                             | 58.6  | 69.8  | 79.2  | 81.0  | 86.1  | 89.8  | 91.3  | 93.7  | 94.5  | 94.7  | 95.4  | 95.8 | 95.9 | 96.5 | 96.8  |
| GE 300   | I    | 54.6                             | 58.6  | 69.8  | 79.2  | 81.0  | 86.3  | 90.3  | 92.1  | 94.7  | 95.6  | 95.8  | 96.5  | 97.1 | 97.4 | 98.1 | 98.4  |
| GE 200   | I    | 54.6                             | 58.6  | 69.8  | 79.2  | 81.0  | 86.3  | 90.3  | 92.1  | 94.9  | 95.8  | 96.1  | 97.0  | 97.5 | 98.0 | 98.9 | 99.9  |
| GE 100   | I    | 54.6                             | 58.6  | 69.8  | 79.2  | 81.0  | 86.3  | 90.3  | 92.1  | 94.9  | 95.8  | 96.1  | 97.1  | 97.7 | 98.2 | 99.0 | 100.0 |
| GE C     | I    | 54.6                             | 58.6  | 69.8  | 79.2  | 81.0  | 86.3  | 90.3  | 92.1  | 94.9  | 95.8  | 96.1  | 97.1  | 97.7 | 98.2 | 99.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(IST): 1800-2000

| CEILING<br>IN<br>FEET | 1 | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|---|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       |   | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 1 |                                  | 27.1     | 28.8     | 31.6     | 32.1     | 32.3     | 32.9     | 33.2     | 33.7     | 34.0     | 34.0     | 34.0     | 34.0    | 34.0    | 34.0    | 34.3    |
| GE 20000              | 1 |                                  | 28.7     | 30.7     | 34.4     | 35.0     | 35.1     | 35.7     | 36.1     | 36.6     | 36.9     | 36.9     | 36.9     | 36.9    | 36.9    | 36.9    | 37.2    |
| GE 18000              | 1 |                                  | 28.7     | 31.0     | 34.6     | 35.2     | 35.3     | 35.9     | 36.4     | 36.8     | 37.1     | 37.1     | 37.1     | 37.1    | 37.1    | 37.1    | 37.4    |
| GE 16000              | 1 |                                  | 28.7     | 31.0     | 34.6     | 35.2     | 35.3     | 35.9     | 36.4     | 36.8     | 37.1     | 37.1     | 37.1     | 37.1    | 37.1    | 37.1    | 37.4    |
| GE 14000              | 1 |                                  | 28.7     | 31.0     | 34.6     | 35.2     | 35.3     | 35.9     | 36.4     | 36.8     | 37.1     | 37.1     | 37.1     | 37.1    | 37.1    | 37.1    | 37.4    |
| GE 12000              | 1 |                                  | 28.7     | 31.0     | 34.6     | 35.2     | 35.3     | 35.9     | 36.4     | 36.8     | 37.1     | 37.1     | 37.1     | 37.1    | 37.1    | 37.1    | 37.4    |
| GE 10000              | 1 |                                  | 29.7     | 32.4     | 36.4     | 37.2     | 37.3     | 38.1     | 38.5     | 38.9     | 39.3     | 39.3     | 39.3     | 39.3    | 39.3    | 39.3    | 39.6    |
| GE 9000               | 1 |                                  | 29.7     | 32.4     | 36.4     | 37.2     | 37.3     | 38.1     | 38.5     | 38.9     | 39.3     | 39.3     | 39.3     | 39.3    | 39.3    | 39.3    | 39.6    |
| GE 8000               | 1 |                                  | 33.2     | 36.0     | 40.5     | 41.5     | 41.6     | 42.4     | 43.4     | 43.8     | 44.1     | 44.1     | 44.1     | 44.1    | 44.1    | 44.1    | 44.4    |
| GE 7000               | 1 |                                  | 33.5     | 36.7     | 41.1     | 42.2     | 42.3     | 43.0     | 44.0     | 44.4     | 44.8     | 44.8     | 44.8     | 44.8    | 44.8    | 44.8    | 45.1    |
| GE 6000               | 1 |                                  | 33.5     | 36.7     | 41.1     | 42.2     | 42.3     | 43.0     | 44.0     | 44.4     | 44.8     | 44.8     | 44.8     | 44.8    | 44.8    | 44.8    | 45.1    |
| GE 5000               | 1 |                                  | 35.3     | 38.4     | 42.9     | 44.2     | 44.3     | 45.4     | 46.4     | 46.8     | 47.1     | 47.1     | 47.1     | 47.1    | 47.1    | 47.1    | 47.5    |
| GE 4500               | 1 |                                  | 35.8     | 38.9     | 43.6     | 44.9     | 45.0     | 46.1     | 47.0     | 47.5     | 47.8     | 47.8     | 47.8     | 47.8    | 47.8    | 47.8    | 48.1    |
| GE 4000               | 1 |                                  | 38.8     | 42.4     | 47.6     | 49.1     | 49.3     | 50.6     | 51.6     | 52.2     | 52.5     | 52.5     | 52.5     | 52.5    | 52.5    | 52.5    | 52.9    |
| GE 3500               | 1 |                                  | 41.4     | 45.2     | 50.4     | 52.1     | 52.3     | 53.9     | 55.2     | 55.9     | 56.2     | 56.2     | 56.2     | 56.2    | 56.2    | 56.2    | 56.5    |
| GE 3000               | 1 |                                  | 48.0     | 52.4     | 58.9     | 61.6     | 61.9     | 64.1     | 65.9     | 66.8     | 67.2     | 67.2     | 67.2     | 67.2    | 67.2    | 67.3    | 67.6    |
| GE 2500               | 1 |                                  | 48.7     | 53.1     | 59.7     | 62.8     | 63.1     | 65.3     | 67.2     | 68.1     | 68.5     | 68.5     | 68.5     | 68.5    | 68.6    | 68.6    | 68.9    |
| GE 2000               | 1 |                                  | 52.6     | 57.7     | 65.0     | 69.1     | 69.6     | 72.3     | 74.5     | 75.5     | 76.1     | 76.1     | 76.2     | 76.2    | 76.3    | 76.3    | 76.6    |
| GE 1800               | 1 |                                  | 53.1     | 58.3     | 65.8     | 69.9     | 70.3     | 73.0     | 75.4     | 76.4     | 76.9     | 76.9     | 77.0     | 77.0    | 77.1    | 77.1    | 77.5    |
| GE 1600               | 1 |                                  | 53.8     | 59.0     | 67.2     | 72.4     | 72.8     | 75.6     | 79.4     | 80.5     | 81.0     | 81.0     | 81.1     | 81.4    | 81.6    | 81.6    | 81.9    |
| GE 1200               | 1 |                                  | 54.8     | 60.2     | 68.8     | 75.7     | 76.2     | 79.3     | 83.8     | 85.0     | 85.9     | 86.0     | 86.1     | 86.4    | 86.5    | 86.5    | 86.8    |
| GE 1000               | 1 |                                  | 54.8     | 60.3     | 69.0     | 76.1     | 76.6     | 79.8     | 84.6     | 85.9     | 86.7     | 86.8     | 86.9     | 87.3    | 87.4    | 87.4    | 87.7    |
| GE 900                | 1 |                                  | 54.8     | 60.3     | 69.1     | 76.3     | 76.8     | 80.2     | 84.9     | 86.2     | 87.2     | 87.4     | 87.5     | 87.8    | 87.9    | 87.9    | 88.2    |
| GE 800                | 1 |                                  | 55.1     | 60.9     | 69.9     | 77.3     | 77.9     | 81.7     | 86.6     | 87.9     | 88.9     | 89.1     | 89.2     | 89.5    | 89.6    | 89.6    | 90.0    |
| GE 700                | 1 |                                  | 55.2     | 61.1     | 70.3     | 78.1     | 78.6     | 82.5     | 88.3     | 89.6     | 90.7     | 90.9     | 91.0     | 91.4    | 91.5    | 91.5    | 91.8    |
| GE 600                | 1 |                                  | 55.3     | 61.2     | 70.9     | 78.7     | 79.4     | 84.3     | 90.1     | 91.4     | 92.4     | 92.7     | 92.8     | 93.1    | 93.2    | 93.2    | 93.5    |
| GE 500                | 1 |                                  | 55.3     | 61.2     | 71.0     | 79.2     | 80.0     | 84.9     | 90.8     | 92.6     | 93.7     | 94.0     | 94.3     | 94.7    | 94.8    | 94.8    | 95.1    |
| GE 400                | 1 |                                  | 55.3     | 61.2     | 71.0     | 79.3     | 80.4     | 85.5     | 91.5     | 93.5     | 94.8     | 95.5     | 95.8     | 96.2    | 96.4    | 96.4    | 96.8    |
| GE 300                | 1 |                                  | 55.3     | 61.2     | 71.0     | 79.3     | 80.4     | 85.7     | 91.9     | 94.1     | 95.5     | 96.1     | 96.4     | 96.9    | 97.1    | 97.2    | 97.7    |
| GE 200                | 1 |                                  | 55.3     | 61.2     | 71.0     | 79.3     | 80.4     | 85.7     | 91.9     | 94.1     | 95.7     | 96.5     | 97.2     | 97.6    | 98.0    | 98.1    | 99.1    |
| GE 100                | 1 |                                  | 55.3     | 61.2     | 71.0     | 79.3     | 80.4     | 85.7     | 91.9     | 94.1     | 95.8     | 96.7     | 97.3     | 97.7    | 98.1    | 98.2    | 100.0   |
| GE                    | 1 |                                  | 55.3     | 61.2     | 71.0     | 79.3     | 80.4     | 85.7     | 91.9     | 94.1     | 95.8     | 96.7     | 97.3     | 97.7    | 98.1    | 98.2    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS (LST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 26.2     | 27.6     | 31.5     | 32.7     | 32.9     | 34.0     | 34.5     | 34.8     | 35.4     | 35.5     | 35.5     | 35.5    | 35.5    | 35.5    | 35.8    |
| GE 20000              |                                  | 28.3     | 29.8     | 34.6     | 35.8     | 36.0     | 37.2     | 37.8     | 38.2     | 38.7     | 38.8     | 38.8     | 38.8    | 38.8    | 38.8    | 39.2    |
| GE 18000              |                                  | 28.3     | 29.8     | 34.6     | 35.8     | 36.0     | 37.2     | 37.8     | 38.2     | 38.7     | 38.8     | 38.8     | 38.8    | 38.8    | 38.8    | 39.2    |
| GE 16000              |                                  | 28.3     | 29.8     | 34.6     | 35.8     | 36.0     | 37.2     | 37.8     | 38.2     | 38.7     | 38.8     | 38.8     | 38.8    | 38.8    | 38.8    | 39.2    |
| GE 14000              |                                  | 28.3     | 29.8     | 34.6     | 35.8     | 36.0     | 37.2     | 37.8     | 38.2     | 38.7     | 38.8     | 38.8     | 38.8    | 38.8    | 38.8    | 39.2    |
| GE 12000              |                                  | 28.3     | 29.8     | 34.6     | 35.8     | 36.0     | 37.2     | 37.8     | 38.2     | 38.7     | 38.8     | 38.8     | 38.8    | 38.8    | 38.8    | 39.2    |
| GE 10000              |                                  | 28.9     | 30.7     | 35.7     | 36.9     | 37.1     | 38.3     | 38.8     | 39.3     | 39.8     | 39.9     | 39.9     | 39.9    | 39.9    | 39.9    | 40.2    |
| GE 9000               |                                  | 29.4     | 31.3     | 36.2     | 37.4     | 37.6     | 38.8     | 39.4     | 39.8     | 40.3     | 40.5     | 40.5     | 40.5    | 40.5    | 40.5    | 40.8    |
| GE 8000               |                                  | 32.7     | 34.8     | 40.9     | 42.3     | 42.5     | 43.7     | 44.9     | 45.3     | 45.8     | 46.0     | 46.0     | 46.0    | 46.0    | 46.0    | 46.3    |
| GE 7000               |                                  | 33.5     | 35.8     | 41.9     | 43.3     | 43.5     | 44.7     | 45.8     | 46.3     | 46.8     | 46.9     | 46.9     | 46.9    | 46.9    | 46.9    | 47.2    |
| GE 6000               |                                  | 33.5     | 35.8     | 41.9     | 43.3     | 43.5     | 44.7     | 45.8     | 46.3     | 46.8     | 46.9     | 46.9     | 46.9    | 46.9    | 46.9    | 47.2    |
| GE 5000               |                                  | 35.4     | 37.8     | 43.9     | 45.3     | 45.5     | 46.8     | 48.0     | 48.4     | 49.1     | 49.2     | 49.2     | 49.2    | 49.2    | 49.2    | 49.5    |
| GE 4500               |                                  | 36.4     | 38.8     | 45.1     | 46.5     | 46.7     | 48.1     | 49.3     | 49.7     | 50.4     | 50.5     | 50.5     | 50.5    | 50.5    | 50.5    | 50.8    |
| GE 4000               |                                  | 39.6     | 42.2     | 48.8     | 50.5     | 50.7     | 52.2     | 53.8     | 54.3     | 54.9     | 55.0     | 55.0     | 55.0    | 55.0    | 55.0    | 55.3    |
| GE 3500               |                                  | 42.0     | 44.8     | 51.8     | 54.0     | 54.3     | 56.1     | 57.8     | 58.3     | 58.9     | 59.0     | 59.0     | 59.0    | 59.0    | 59.0    | 59.3    |
| GE 3000               |                                  | 47.7     | 51.3     | 59.3     | 62.7     | 62.9     | 65.3     | 67.5     | 68.2     | 69.1     | 69.3     | 69.3     | 69.4    | 69.4    | 69.5    | 69.8    |
| GE 2500               |                                  | 48.9     | 52.6     | 60.8     | 64.6     | 64.8     | 67.5     | 69.8     | 70.4     | 71.4     | 71.5     | 71.5     | 71.6    | 71.6    | 71.7    | 72.1    |
| GE 2000               |                                  | 51.3     | 55.7     | 64.5     | 69.0     | 69.3     | 72.5     | 75.1     | 75.7     | 76.7     | 76.8     | 76.9     | 77.7    | 77.7    | 77.7    | 77.5    |
| GE 1800               |                                  | 51.8     | 56.1     | 65.5     | 70.3     | 70.9     | 74.2     | 76.8     | 77.5     | 78.4     | 78.5     | 78.6     | 78.7    | 78.7    | 78.9    | 79.2    |
| GE 1500               |                                  | 52.0     | 56.4     | 66.1     | 72.0     | 72.5     | 75.9     | 79.2     | 79.8     | 80.9     | 81.0     | 81.2     | 81.3    | 81.3    | 81.4    | 81.8    |
| GE 1200               |                                  | 52.8     | 57.5     | 68.1     | 74.8     | 75.3     | 78.9     | 82.6     | 83.4     | 84.4     | 84.7     | 84.9     | 85.7    | 85.7    | 85.7    | 85.4    |
| GE 1000               |                                  | 53.0     | 57.7     | 68.5     | 75.7     | 76.5     | 80.7     | 84.7     | 85.4     | 86.4     | 86.7     | 86.9     | 87.1    | 87.1    | 87.2    | 87.5    |
| GE 900                |                                  | 53.3     | 58.0     | 69.0     | 76.6     | 77.5     | 82.0     | 86.1     | 86.8     | 87.9     | 88.2     | 88.5     | 88.6    | 88.6    | 88.7    | 89.0    |
| GE 800                |                                  | 53.3     | 58.0     | 69.0     | 76.8     | 77.7     | 82.3     | 86.7     | 87.5     | 88.6     | 88.9     | 89.1     | 89.2    | 89.2    | 89.3    | 89.6    |
| GE 700                |                                  | 53.8     | 58.6     | 69.7     | 78.0     | 78.9     | 83.6     | 88.7     | 89.4     | 90.6     | 90.9     | 91.2     | 91.3    | 91.3    | 91.4    | 91.7    |
| GE 600                |                                  | 54.0     | 58.9     | 70.4     | 78.7     | 79.6     | 84.6     | 89.8     | 90.5     | 91.7     | 92.0     | 92.2     | 92.3    | 92.3    | 92.4    | 92.8    |
| GE 500                |                                  | 54.0     | 58.9     | 70.7     | 79.4     | 80.5     | 85.9     | 91.2     | 92.0     | 93.4     | 93.9     | 94.2     | 94.6    | 95.1    | 95.3    | 95.6    |
| GE 400                |                                  | 54.0     | 58.9     | 70.8     | 79.7     | 80.9     | 86.3     | 91.6     | 92.4     | 94.0     | 94.7     | 95.1     | 95.6    | 96.1    | 96.2    | 96.5    |
| GE 300                |                                  | 54.2     | 59.0     | 70.9     | 79.8     | 81.0     | 86.4     | 92.1     | 93.0     | 95.1     | 95.9     | 96.3     | 96.9    | 97.4    | 98.0    | 98.3    |
| GE 200                |                                  | 54.2     | 59.0     | 70.9     | 79.8     | 81.0     | 86.4     | 92.1     | 93.0     | 95.1     | 96.1     | 96.7     | 97.2    | 97.7    | 98.3    | 99.0    |
| GE 100                |                                  | 54.2     | 59.0     | 70.9     | 79.8     | 81.0     | 86.4     | 92.1     | 93.0     | 95.3     | 96.4     | 97.0     | 97.5    | 98.2    | 98.7    | 100.0   |
| GE 0                  |                                  | 54.2     | 59.0     | 70.9     | 79.8     | 81.0     | 86.4     | 92.1     | 93.0     | 95.3     | 96.4     | 97.0     | 97.5    | 98.2    | 98.7    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: JAN HOURS (LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 |
| NO CEIL               | 23.6                             | 25.3     | 28.3     | 29.4     | 29.6     | 30.5     | 31.1     | 31.4     | 31.8     | 31.9     | 31.9     | 31.9     | 32.0    | 32.1    | 32.4    |
| GE 20000              | 26.0                             | 27.9     | 31.8     | 33.1     | 33.3     | 34.3     | 34.9     | 35.2     | 35.7     | 35.8     | 35.8     | 35.8     | 35.9    | 36.0    | 36.3    |
| GE 18000              | 26.0                             | 28.0     | 31.9     | 33.3     | 33.5     | 34.4     | 35.1     | 35.4     | 35.9     | 35.9     | 36.0     | 36.0     | 36.0    | 36.2    | 36.4    |
| GE 16000              | 26.0                             | 28.0     | 31.9     | 33.3     | 33.5     | 34.4     | 35.1     | 35.4     | 35.9     | 35.9     | 36.0     | 36.0     | 36.0    | 36.2    | 36.4    |
| GE 14000              | 26.1                             | 28.0     | 32.0     | 33.3     | 33.5     | 34.5     | 35.1     | 35.5     | 35.9     | 36.0     | 36.0     | 36.0     | 36.1    | 36.2    | 36.5    |
| GE 12000              | 26.2                             | 28.1     | 32.1     | 33.4     | 33.6     | 34.6     | 35.2     | 35.5     | 36.0     | 36.1     | 36.1     | 36.1     | 36.2    | 36.3    | 36.6    |
| GE 10000              | 27.1                             | 29.3     | 33.4     | 34.9     | 35.2     | 36.2     | 36.8     | 37.1     | 37.6     | 37.7     | 37.7     | 37.7     | 37.8    | 37.9    | 38.2    |
| GE 9000               | 27.3                             | 29.5     | 33.7     | 35.3     | 35.5     | 36.5     | 37.2     | 37.5     | 38.0     | 38.0     | 38.1     | 38.1     | 38.1    | 38.3    | 38.5    |
| GE 8000               | 30.2                             | 32.7     | 37.5     | 39.2     | 39.4     | 40.6     | 41.6     | 41.9     | 42.4     | 42.5     | 42.6     | 42.6     | 42.6    | 42.8    | 43.0    |
| GE 7000               | 30.9                             | 33.5     | 38.4     | 40.1     | 40.4     | 41.6     | 42.5     | 42.8     | 43.4     | 43.5     | 43.5     | 43.5     | 43.5    | 43.6    | 43.7    |
| GE 6000               | 30.9                             | 33.5     | 38.4     | 40.1     | 40.4     | 41.6     | 42.5     | 42.9     | 43.4     | 43.5     | 43.5     | 43.5     | 43.5    | 43.6    | 43.7    |
| GE 5000               | 32.2                             | 35.0     | 40.1     | 42.0     | 42.2     | 43.6     | 44.5     | 44.9     | 45.4     | 45.5     | 45.6     | 45.6     | 45.7    | 45.8    | 46.1    |
| GE 4500               | 33.0                             | 35.8     | 41.0     | 42.9     | 43.2     | 44.5     | 45.5     | 45.8     | 46.4     | 46.5     | 46.5     | 46.5     | 46.6    | 46.7    | 47.0    |
| GE 4000               | 36.5                             | 39.7     | 45.7     | 48.0     | 48.4     | 49.9     | 50.9     | 51.3     | 51.8     | 51.9     | 52.0     | 52.0     | 52.1    | 52.2    | 52.5    |
| GE 3500               | 38.7                             | 42.2     | 48.6     | 51.4     | 51.8     | 53.5     | 54.7     | 55.0     | 55.7     | 55.8     | 55.9     | 55.9     | 56.0    | 56.1    | 56.4    |
| GE 3000               | 45.6                             | 49.6     | 56.9     | 60.6     | 61.1     | 63.2     | 64.9     | 65.5     | 66.4     | 66.5     | 66.6     | 66.6     | 66.7    | 66.9    | 67.2    |
| GE 2500               | 46.4                             | 50.6     | 58.2     | 62.3     | 62.8     | 65.0     | 66.7     | 67.3     | 68.2     | 68.4     | 68.5     | 68.5     | 68.6    | 68.8    | 69.1    |
| GE 2000               | 49.2                             | 53.9     | 62.3     | 67.0     | 67.6     | 70.1     | 72.1     | 72.8     | 73.9     | 74.1     | 74.2     | 74.3     | 74.5    | 74.6    | 74.9    |
| GE 1800               | 49.5                             | 54.4     | 62.9     | 67.8     | 68.5     | 71.0     | 73.1     | 73.8     | 74.9     | 75.1     | 75.2     | 75.3     | 75.5    | 75.7    | 76.0    |
| GE 1500               | 50.8                             | 55.9     | 64.8     | 70.6     | 71.4     | 74.1     | 76.7     | 77.4     | 78.6     | 78.8     | 79.0     | 79.1     | 79.3    | 79.4    | 79.7    |
| GE 1200               | 51.8                             | 57.4     | 67.0     | 73.9     | 74.7     | 77.7     | 80.6     | 81.5     | 82.8     | 83.1     | 83.3     | 83.4     | 83.6    | 83.7    | 84.0    |
| GE 1000               | 52.2                             | 57.8     | 68.0     | 75.3     | 76.5     | 79.9     | 83.0     | 84.0     | 85.5     | 85.7     | 85.9     | 86.1     | 86.3    | 86.5    | 86.7    |
| GE 900                | 52.4                             | 58.1     | 68.5     | 75.9     | 77.1     | 80.7     | 84.0     | 85.0     | 86.5     | 86.9     | 87.1     | 87.2     | 87.4    | 87.6    | 87.9    |
| GE 800                | 52.5                             | 58.4     | 68.9     | 76.5     | 77.7     | 81.4     | 84.9     | 85.9     | 87.5     | 87.9     | 88.1     | 88.3     | 88.5    | 88.7    | 89.0    |
| GE 700                | 52.7                             | 58.5     | 69.4     | 77.4     | 78.6     | 82.7     | 86.5     | 87.5     | 89.2     | 89.6     | 89.8     | 90.0     | 90.2    | 90.4    | 90.7    |
| GE 600                | 52.7                             | 58.6     | 69.7     | 77.9     | 79.2     | 83.6     | 87.5     | 88.6     | 90.4     | 90.9     | 91.1     | 91.3     | 91.5    | 91.7    | 92.0    |
| GE 500                | 52.8                             | 58.7     | 70.0     | 78.7     | 80.2     | 84.7     | 88.9     | 90.2     | 92.3     | 92.8     | 93.1     | 93.4     | 93.9    | 94.0    | 94.3    |
| GE 400                | 52.8                             | 58.7     | 70.1     | 78.9     | 80.5     | 85.2     | 89.6     | 91.1     | 93.4     | 94.1     | 94.6     | 95.0     | 95.5    | 95.8    | 96.2    |
| GE 300                | 52.8                             | 58.8     | 70.2     | 78.9     | 80.5     | 85.4     | 90.2     | 92.0     | 94.5     | 95.3     | 95.8     | 96.2     | 96.8    | 97.3    | 97.8    |
| GE 200                | 52.8                             | 58.8     | 70.2     | 79.0     | 80.6     | 85.5     | 90.3     | 92.1     | 94.7     | 95.6     | 96.4     | 96.9     | 97.5    | 98.1    | 99.0    |
| GE 100                | 52.8                             | 58.8     | 70.2     | 79.0     | 80.6     | 85.5     | 90.4     | 92.1     | 94.8     | 95.7     | 96.5     | 97.1     | 97.8    | 98.4    | 99.9    |
| GE                    | 52.8                             | 58.8     | 70.2     | 79.0     | 80.6     | 85.5     | 90.4     | 92.1     | 94.8     | 95.7     | 96.5     | 97.1     | 97.8    | 98.5    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 7410

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS (LST): 0700-0200

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|---------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN      | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL |      |                                  | 19.9  | 22.7  | 26.5  | 29.4  | 29.5  | 31.3  | 32.1  | 32.1  | 32.4  | 32.5  | 32.7  | 33.3 | 33.0 | 33.2 | 33.6  |
| GE 2000 |      |                                  | 21.8  | 24.6  | 29.4  | 32.4  | 33.6  | 35.4  | 36.7  | 36.7  | 36.9  | 37.0  | 37.3  | 37.5 | 37.5 | 37.7 | 38.3  |
| GE 1800 |      |                                  | 21.8  | 24.6  | 29.4  | 32.4  | 33.6  | 35.4  | 36.7  | 36.7  | 36.9  | 37.0  | 37.3  | 37.5 | 37.5 | 37.7 | 38.3  |
| GE 1600 |      |                                  | 21.8  | 24.6  | 29.4  | 32.4  | 33.6  | 35.4  | 36.7  | 36.7  | 36.9  | 37.0  | 37.3  | 37.5 | 37.5 | 37.7 | 38.3  |
| GE 1400 |      |                                  | 21.8  | 24.6  | 29.4  | 32.4  | 33.6  | 35.4  | 36.7  | 36.7  | 36.9  | 37.0  | 37.3  | 37.5 | 37.5 | 37.7 | 38.3  |
| GE 1200 |      |                                  | 21.8  | 24.6  | 29.4  | 32.4  | 33.6  | 35.4  | 36.7  | 36.7  | 36.9  | 37.0  | 37.3  | 37.5 | 37.5 | 37.7 | 38.3  |
| GE 1000 |      |                                  | 23.6  | 27.0  | 31.8  | 34.8  | 36.0  | 38.0  | 39.3  | 39.3  | 39.5  | 39.6  | 39.9  | 40.1 | 40.2 | 40.5 | 41.1  |
| GE 900  |      |                                  | 23.8  | 27.3  | 32.0  | 35.0  | 36.2  | 38.2  | 39.5  | 39.5  | 39.8  | 39.9  | 40.1  | 40.4 | 40.5 | 40.7 | 41.3  |
| GE 800  |      |                                  | 26.1  | 29.5  | 34.9  | 38.0  | 39.3  | 41.5  | 43.0  | 43.0  | 43.2  | 43.3  | 43.6  | 43.8 | 43.9 | 44.2 | 44.8  |
| GE 700  |      |                                  | 26.5  | 30.0  | 35.5  | 38.8  | 40.1  | 42.4  | 43.8  | 43.8  | 44.0  | 44.2  | 44.4  | 44.6 | 44.8 | 45.0 | 45.6  |
| GE 600  |      |                                  | 26.5  | 30.0  | 35.5  | 38.8  | 40.1  | 42.4  | 43.8  | 43.8  | 44.0  | 44.2  | 44.4  | 44.6 | 44.8 | 45.0 | 45.6  |
| GE 500  |      |                                  | 26.8  | 30.5  | 36.1  | 39.5  | 40.8  | 43.5  | 44.9  | 44.9  | 45.1  | 45.2  | 45.5  | 45.7 | 45.8 | 46.1 | 46.7  |
| GE 450  |      |                                  | 27.3  | 31.2  | 37.1  | 40.7  | 42.0  | 44.6  | 46.1  | 46.1  | 46.3  | 46.4  | 46.7  | 46.9 | 47.0 | 47.3 | 47.9  |
| GE 400  |      |                                  | 30.8  | 35.1  | 41.5  | 45.2  | 46.8  | 50.0  | 51.5  | 51.5  | 51.8  | 51.9  | 52.1  | 52.4 | 52.5 | 52.7 | 53.3  |
| GE 350  |      |                                  | 32.4  | 36.7  | 43.9  | 47.7  | 49.4  | 53.3  | 54.9  | 54.9  | 55.1  | 55.2  | 55.5  | 55.7 | 55.8 | 56.1 | 56.7  |
| GE 300  |      |                                  | 37.0  | 41.3  | 49.6  | 53.9  | 55.6  | 59.6  | 61.4  | 61.7  | 62.0  | 62.1  | 62.4  | 62.6 | 62.7 | 63.0 | 63.6  |
| GE 250  |      |                                  | 37.5  | 41.8  | 50.2  | 55.1  | 56.8  | 61.2  | 63.0  | 63.2  | 63.6  | 63.7  | 63.9  | 64.2 | 64.3 | 64.5 | 65.1  |
| GE 200  |      |                                  | 41.0  | 45.6  | 55.8  | 62.4  | 64.0  | 68.9  | 70.8  | 71.1  | 71.5  | 71.7  | 71.9  | 72.1 | 72.3 | 72.5 | 73.1  |
| GE 180  |      |                                  | 41.9  | 46.8  | 57.3  | 63.9  | 65.6  | 70.6  | 72.5  | 72.7  | 73.2  | 73.3  | 73.6  | 73.8 | 73.9 | 74.2 | 74.8  |
| GE 150  |      |                                  | 42.3  | 47.6  | 59.8  | 66.4  | 68.6  | 73.6  | 76.1  | 76.3  | 77.3  | 77.4  | 77.6  | 77.9 | 78.0 | 78.2 | 78.8  |
| GE 120  |      |                                  | 42.9  | 48.3  | 61.1  | 69.0  | 71.4  | 76.9  | 79.6  | 79.9  | 81.0  | 81.1  | 81.3  | 81.5 | 81.7 | 81.9 | 82.5  |
| GE 100  |      |                                  | 43.2  | 48.7  | 62.1  | 70.7  | 73.3  | 79.0  | 82.0  | 82.3  | 83.3  | 83.5  | 83.7  | 83.9 | 84.0 | 84.3 | 84.9  |
| GE 90   |      |                                  | 43.2  | 48.7  | 62.3  | 70.8  | 73.6  | 79.3  | 82.3  | 82.7  | 83.8  | 83.9  | 84.2  | 84.4 | 84.5 | 84.8 | 85.4  |
| GE 80   |      |                                  | 43.5  | 48.9  | 63.5  | 72.0  | 75.0  | 80.7  | 84.0  | 84.5  | 85.6  | 85.7  | 86.0  | 86.2 | 86.3 | 86.5 | 87.1  |
| GE 70   |      |                                  | 43.7  | 49.2  | 64.0  | 72.9  | 76.1  | 82.1  | 85.8  | 86.7  | 87.7  | 87.9  | 88.1  | 88.3 | 88.5 | 88.7 | 89.3  |
| GE 60   |      |                                  | 43.7  | 49.2  | 64.3  | 73.5  | 76.6  | 83.2  | 87.0  | 89.1  | 89.2  | 89.6  | 89.9  | 90.1 | 90.2 | 90.5 | 91.1  |
| GE 50   |      |                                  | 43.7  | 49.2  | 64.4  | 73.9  | 77.4  | 83.9  | 87.7  | 88.8  | 89.9  | 90.4  | 90.6  | 91.1 | 91.4 | 91.7 | 92.3  |
| GE 40   |      |                                  | 43.7  | 49.2  | 64.6  | 74.2  | 77.7  | 84.9  | 89.3  | 90.6  | 91.8  | 92.3  | 92.5  | 93.1 | 93.5 | 93.7 | 94.3  |
| GE 30   |      |                                  | 43.7  | 49.2  | 64.6  | 74.2  | 77.7  | 84.9  | 89.4  | 90.7  | 91.9  | 92.7  | 93.0  | 93.7 | 94.4 | 94.8 | 95.5  |
| GE 20   |      |                                  | 43.7  | 49.2  | 64.6  | 74.2  | 77.7  | 85.0  | 89.5  | 91.0  | 92.9  | 93.8  | 94.0  | 94.8 | 96.2 | 96.7 | 97.7  |
| GE 10   |      |                                  | 43.7  | 49.2  | 64.6  | 74.2  | 77.7  | 85.0  | 89.5  | 91.0  | 92.9  | 93.8  | 94.2  | 94.9 | 96.7 | 97.5 | 99.6  |
| GE 0    |      |                                  | 43.7  | 49.2  | 64.6  | 74.2  | 77.7  | 85.0  | 89.5  | 91.0  | 92.9  | 93.8  | 94.2  | 94.9 | 96.7 | 97.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 840

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS (LST): 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 |
| NO CEIL               | 16.8                             | 19.0     | 23.1     | 25.4     | 26.0     | 28.7     | 29.8     | 29.8     | 30.1     | 30.1     | 30.2     | 30.4     | 30.5    | 30.5    | 30.5    |
| GE 20000              | 18.2                             | 20.6     | 25.5     | 27.7     | 28.8     | 31.7     | 33.0     | 33.0     | 33.3     | 33.3     | 33.6     | 33.7     | 33.8    | 33.9    | 34.4    |
| GE 18000              | 18.2                             | 20.6     | 25.5     | 27.7     | 28.8     | 31.7     | 33.0     | 33.0     | 33.3     | 33.3     | 33.6     | 33.7     | 33.8    | 33.9    | 34.4    |
| GE 16000              | 18.2                             | 20.6     | 25.5     | 27.7     | 28.8     | 31.7     | 33.0     | 33.0     | 33.3     | 33.3     | 33.6     | 33.7     | 33.8    | 33.9    | 34.4    |
| GE 14000              | 18.2                             | 20.6     | 25.5     | 27.7     | 28.8     | 31.7     | 33.0     | 33.0     | 33.3     | 33.3     | 33.6     | 33.7     | 33.8    | 33.9    | 34.4    |
| GE 12000              | 18.2                             | 20.6     | 25.5     | 27.7     | 28.8     | 31.7     | 33.0     | 33.0     | 33.3     | 33.3     | 33.6     | 33.7     | 33.8    | 33.9    | 34.4    |
| GE 10000              | 19.3                             | 22.0     | 26.9     | 29.3     | 30.4     | 33.2     | 34.5     | 34.5     | 34.9     | 34.9     | 35.1     | 35.2     | 35.4    | 35.5    | 36.0    |
| GE 9000               | 19.6                             | 22.4     | 27.3     | 29.6     | 30.7     | 33.6     | 34.9     | 34.9     | 35.2     | 35.2     | 35.5     | 35.6     | 35.7    | 35.8    | 36.3    |
| GE 8000               | 22.9                             | 26.4     | 31.5     | 34.5     | 36.0     | 39.4     | 40.7     | 40.7     | 41.1     | 41.1     | 41.3     | 41.4     | 41.5    | 41.7    | 42.1    |
| GE 7000               | 23.1                             | 26.7     | 32.1     | 35.2     | 36.7     | 40.1     | 41.4     | 41.4     | 41.8     | 41.8     | 42.0     | 42.1     | 42.3    | 42.4    | 42.9    |
| GE 6000               | 23.1                             | 26.7     | 32.1     | 35.2     | 36.7     | 40.1     | 41.4     | 41.4     | 41.8     | 41.8     | 42.0     | 42.1     | 42.3    | 42.4    | 42.9    |
| GE 5000               | 23.6                             | 27.6     | 33.3     | 36.4     | 37.9     | 41.4     | 42.9     | 42.9     | 43.2     | 43.2     | 43.5     | 43.6     | 43.7    | 43.8    | 44.3    |
| GE 4500               | 24.6                             | 28.7     | 34.8     | 37.9     | 39.3     | 42.9     | 44.3     | 44.3     | 44.6     | 44.6     | 44.9     | 45.0     | 45.1    | 45.2    | 45.7    |
| GE 4000               | 28.7                             | 33.0     | 40.4     | 43.8     | 45.4     | 49.6     | 51.1     | 51.1     | 51.4     | 51.4     | 51.7     | 51.8     | 51.9    | 52.0    | 52.5    |
| GE 3500               | 30.7                             | 35.0     | 42.7     | 46.3     | 47.9     | 52.1     | 53.7     | 53.7     | 54.0     | 54.0     | 54.4     | 54.5     | 54.6    | 54.8    | 55.2    |
| GE 3000               | 36.5                             | 41.3     | 50.7     | 54.8     | 56.7     | 61.4     | 63.0     | 63.0     | 63.3     | 63.3     | 63.7     | 63.8     | 63.9    | 64.0    | 64.5    |
| GE 2500               | 36.8                             | 41.9     | 51.7     | 56.2     | 58.6     | 63.7     | 65.4     | 65.4     | 65.7     | 65.7     | 66.1     | 66.2     | 66.3    | 66.4    | 66.9    |
| GE 2000               | 41.0                             | 46.1     | 56.9     | 62.5     | 65.1     | 70.6     | 72.4     | 72.4     | 72.7     | 72.9     | 73.2     | 73.3     | 73.5    | 73.6    | 74.0    |
| GE 1800               | 41.3                             | 46.4     | 57.3     | 63.1     | 65.8     | 71.3     | 73.1     | 73.1     | 73.5     | 73.6     | 73.9     | 74.0     | 74.2    | 74.3    | 74.8    |
| GE 1500               | 42.6                             | 48.2     | 59.8     | 65.6     | 69.0     | 74.6     | 76.5     | 76.5     | 77.6     | 77.7     | 78.1     | 78.2     | 78.3    | 78.5    | 78.9    |
| GE 1200               | 42.9                             | 48.5     | 60.8     | 67.5     | 71.2     | 77.0     | 79.0     | 79.6     | 80.5     | 80.6     | 81.0     | 81.1     | 81.2    | 81.3    | 81.8    |
| GE 1000               | 43.1                             | 48.7     | 62.1     | 69.8     | 73.6     | 80.1     | 82.4     | 83.0     | 83.8     | 83.9     | 84.3     | 84.4     | 84.5    | 84.6    | 85.1    |
| GE 900                | 43.1                             | 48.9     | 62.5     | 70.4     | 74.4     | 81.1     | 83.7     | 84.3     | 85.1     | 85.2     | 85.6     | 85.7     | 85.8    | 86.0    | 86.4    |
| GE 800                | 43.1                             | 48.9     | 63.1     | 71.1     | 75.2     | 81.9     | 84.6     | 85.2     | 86.1     | 86.4     | 86.8     | 86.9     | 87.0    | 87.1    | 87.7    |
| GE 700                | 43.2                             | 49.0     | 63.8     | 71.9     | 76.1     | 83.2     | 86.2     | 86.9     | 87.9     | 88.2     | 88.6     | 88.7     | 88.8    | 88.9    | 89.5    |
| GE 600                | 43.3                             | 49.2     | 64.0     | 72.5     | 76.7     | 85.0     | 88.0     | 88.7     | 89.8     | 90.4     | 90.7     | 90.8     | 91.2    | 91.3    | 92.0    |
| GE 500                | 43.3                             | 49.4     | 64.3     | 73.3     | 77.5     | 86.1     | 89.0     | 90.0     | 91.3     | 91.9     | 92.3     | 92.5     | 92.9    | 93.0    | 93.7    |
| GE 400                | 43.3                             | 49.4     | 64.3     | 73.3     | 77.6     | 86.7     | 90.0     | 91.3     | 92.9     | 93.5     | 93.8     | 94.0     | 94.4    | 94.5    | 95.2    |
| GE 300                | 43.3                             | 49.4     | 64.3     | 73.3     | 77.6     | 86.7     | 90.1     | 91.4     | 93.1     | 93.8     | 94.2     | 94.5     | 95.4    | 96.1    | 96.8    |
| GE 200                | 43.3                             | 49.4     | 64.3     | 73.3     | 77.6     | 86.7     | 90.1     | 91.4     | 93.3     | 94.0     | 94.5     | 95.0     | 96.2    | 97.5    | 98.2    |
| GE 100                | 43.3                             | 49.4     | 64.3     | 73.3     | 77.6     | 86.7     | 90.1     | 91.4     | 93.3     | 94.0     | 94.6     | 95.1     | 96.7    | 98.1    | 99.8    |
| GE C                  | 43.3                             | 49.4     | 64.3     | 73.3     | 77.6     | 86.7     | 90.1     | 91.4     | 93.3     | 94.0     | 94.6     | 95.1     | 96.7    | 98.1    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 840

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF RENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 79-87  
MONTH: FEB HOURS(IST): C600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 14.1     | 15.8     | 19.5     | 22.3     | 23.1     | 24.8     | 25.6     | 25.6     | 26.0     | 26.0     | 26.2     | 26.3    | 26.6    | 26.7    | 26.8    |
| GE 20000              |                                  | 15.9     | 17.7     | 22.3     | 25.5     | 26.6     | 28.5     | 30.1     | 30.1     | 30.5     | 30.5     | 30.7     | 30.8    | 31.1    | 31.2    | 31.3    |
| GE 18000              |                                  | 15.9     | 17.7     | 22.3     | 25.5     | 26.6     | 28.5     | 30.1     | 30.1     | 30.5     | 30.5     | 30.7     | 30.8    | 31.1    | 31.2    | 31.3    |
| GE 16000              |                                  | 15.9     | 17.7     | 22.3     | 25.5     | 26.6     | 28.5     | 30.1     | 30.1     | 30.5     | 30.5     | 30.7     | 30.8    | 31.1    | 31.2    | 31.3    |
| GE 14000              |                                  | 15.9     | 17.7     | 22.3     | 25.5     | 26.6     | 28.5     | 30.1     | 30.1     | 30.5     | 30.5     | 30.7     | 30.8    | 31.1    | 31.2    | 31.3    |
| GE 12000              |                                  | 16.0     | 17.8     | 22.4     | 25.6     | 26.7     | 28.6     | 30.2     | 30.2     | 30.6     | 30.6     | 30.8     | 31.0    | 31.2    | 31.3    | 31.4    |
| GE 10000              |                                  | 16.3     | 18.3     | 23.0     | 26.2     | 27.3     | 29.2     | 30.8     | 30.8     | 31.2     | 31.2     | 31.4     | 31.6    | 31.8    | 31.9    | 32.0    |
| GE 9000               |                                  | 16.7     | 18.7     | 23.5     | 26.7     | 27.8     | 29.7     | 31.3     | 31.3     | 31.7     | 31.7     | 31.9     | 32.7    | 32.3    | 32.4    | 32.5    |
| GE 8000               |                                  | 19.8     | 22.3     | 27.0     | 31.7     | 32.9     | 35.2     | 37.1     | 37.1     | 37.6     | 37.6     | 37.8     | 38.0    | 38.2    | 38.3    | 38.4    |
| GE 7000               |                                  | 19.9     | 22.5     | 28.1     | 32.1     | 33.3     | 35.8     | 37.8     | 37.8     | 38.3     | 38.3     | 38.6     | 38.7    | 38.9    | 39.0    | 39.1    |
| GE 6000               |                                  | 19.9     | 22.5     | 28.1     | 32.1     | 33.3     | 35.9     | 38.0     | 38.0     | 38.4     | 38.4     | 38.7     | 38.8    | 39.0    | 39.1    | 39.3    |
| GE 5000               |                                  | 19.9     | 23.5     | 29.2     | 33.6     | 34.8     | 37.4     | 39.5     | 39.5     | 40.0     | 40.0     | 40.2     | 40.6    | 40.8    | 40.9    | 41.0    |
| GE 4500               |                                  | 20.2     | 23.7     | 29.7     | 34.3     | 35.5     | 38.1     | 40.2     | 40.2     | 40.7     | 40.7     | 40.9     | 41.3    | 41.5    | 41.6    | 41.8    |
| GE 4000               |                                  | 24.1     | 27.9     | 34.9     | 39.7     | 41.2     | 44.4     | 46.6     | 46.7     | 47.4     | 47.4     | 47.7     | 48.0    | 48.3    | 48.4    | 48.5    |
| GE 3500               |                                  | 26.3     | 30.2     | 37.8     | 43.2     | 44.7     | 48.0     | 50.5     | 50.7     | 51.4     | 51.4     | 51.6     | 52.0    | 52.2    | 52.3    | 52.4    |
| GE 3000               |                                  | 32.4     | 36.8     | 46.0     | 51.8     | 54.0     | 57.8     | 60.5     | 60.7     | 61.9     | 61.9     | 62.2     | 62.5    | 62.8    | 62.9    | 63.0    |
| GE 2500               |                                  | 33.9     | 38.4     | 48.0     | 54.1     | 56.3     | 60.3     | 63.0     | 63.2     | 64.4     | 64.4     | 64.7     | 65.0    | 65.2    | 65.4    | 65.5    |
| GE 2000               |                                  | 37.7     | 42.8     | 52.9     | 60.1     | 62.6     | 67.0     | 70.0     | 70.5     | 71.6     | 71.6     | 72.1     | 72.5    | 72.7    | 72.8    | 73.0    |
| GE 1800               |                                  | 38.2     | 43.3     | 53.5     | 60.7     | 63.5     | 67.9     | 70.8     | 71.3     | 72.5     | 72.6     | 73.1     | 73.4    | 73.7    | 73.9    | 74.0    |
| GE 1600               |                                  | 38.9     | 44.1     | 55.0     | 62.5     | 65.6     | 70.3     | 73.7     | 74.1     | 75.7     | 75.9     | 76.4     | 76.7    | 77.0    | 77.2    | 77.3    |
| GE 1400               |                                  | 39.3     | 45.0     | 57.5     | 66.1     | 69.5     | 74.5     | 78.3     | 78.8     | 80.3     | 80.5     | 81.0     | 81.4    | 81.9    | 82.1    | 82.2    |
| GE 1200               |                                  | 39.3     | 45.0     | 57.8     | 66.4     | 70.1     | 75.6     | 79.8     | 80.3     | 82.0     | 82.2     | 82.7     | 83.0    | 83.5    | 83.7    | 83.9    |
| GE 1000               |                                  | 39.3     | 45.1     | 58.0     | 67.3     | 70.9     | 76.7     | 81.1     | 81.6     | 83.3     | 83.5     | 84.0     | 84.3    | 84.8    | 85.1    | 85.2    |
| GE 900                |                                  | 39.4     | 45.2     | 58.4     | 67.7     | 71.4     | 77.7     | 82.3     | 82.9     | 84.6     | 84.8     | 85.3     | 85.6    | 86.1    | 86.4    | 86.5    |
| GE 800                |                                  | 39.5     | 45.4     | 58.8     | 68.7     | 72.4     | 78.8     | 83.7     | 84.5     | 86.2     | 86.5     | 87.0     | 87.3    | 87.8    | 88.0    | 88.1    |
| GE 700                |                                  | 39.5     | 45.4     | 59.2     | 69.0     | 72.7     | 79.7     | 84.7     | 85.4     | 87.4     | 87.7     | 88.3     | 88.6    | 89.6    | 89.8    | 89.9    |
| GE 600                |                                  | 39.5     | 45.4     | 59.4     | 69.4     | 73.1     | 80.2     | 85.6     | 86.7     | 88.8     | 89.1     | 89.7     | 90.0    | 91.0    | 91.2    | 91.3    |
| GE 500                |                                  | 39.5     | 45.4     | 59.4     | 69.5     | 73.3     | 81.0     | 86.6     | 87.7     | 89.9     | 90.2     | 90.7     | 91.1    | 92.2    | 92.4    | 92.5    |
| GE 400                |                                  | 39.5     | 45.4     | 59.4     | 69.6     | 73.5     | 81.4     | 87.3     | 88.5     | 90.7     | 91.1     | 91.8     | 92.6    | 94.2    | 94.7    | 95.1    |
| GE 300                |                                  | 39.5     | 45.4     | 59.4     | 69.6     | 73.5     | 81.4     | 87.3     | 88.5     | 91.0     | 91.7     | 92.8     | 93.8    | 96.0    | 97.0    | 98.1    |
| GE 200                |                                  | 39.5     | 45.4     | 59.4     | 69.6     | 73.5     | 81.4     | 87.3     | 88.5     | 91.0     | 91.7     | 92.8     | 93.8    | 96.1    | 97.9    | 100.0   |
| GE 100                |                                  | 39.5     | 45.4     | 59.4     | 69.6     | 73.5     | 81.4     | 87.3     | 88.5     | 91.0     | 91.7     | 92.8     | 93.8    | 96.1    | 97.9    | 100.0   |
| GE 0                  |                                  | 39.5     | 45.4     | 59.4     | 69.6     | 73.5     | 81.4     | 87.3     | 88.5     | 91.0     | 91.7     | 92.8     | 93.8    | 96.1    | 97.9    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: P43

GLOBAL CLIMATOLOGY BRANCH  
LSAFETYAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: FEB HOURS (LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>3 |
| NO CEIL               |                                  | 13.4     | 15.4     | 18.4     | 20.0     | 20.7     | 21.6     | 22.3     | 22.4     | 22.7     | 22.9     | 22.9     | 22.9    | 23.2    | 23.2    | 23.2    |
| GE 20000              |                                  | 16.9     | 19.5     | 24.0     | 26.7     | 28.0     | 29.5     | 30.4     | 30.6     | 30.9     | 31.1     | 31.1     | 31.1    | 31.5    | 31.5    | 31.5    |
| GE 18000              |                                  | 16.9     | 19.5     | 24.3     | 27.1     | 28.4     | 29.8     | 31.0     | 31.2     | 31.5     | 31.7     | 31.7     | 31.7    | 32.1    | 32.1    | 32.1    |
| GE 16000              |                                  | 16.9     | 19.5     | 24.3     | 27.1     | 28.4     | 29.8     | 31.0     | 31.2     | 31.5     | 31.7     | 31.7     | 31.7    | 32.1    | 32.1    | 32.1    |
| GE 14000              |                                  | 16.9     | 19.5     | 24.3     | 27.1     | 28.4     | 29.8     | 31.0     | 31.2     | 31.5     | 31.7     | 31.7     | 31.7    | 32.1    | 32.1    | 32.1    |
| GE 12000              |                                  | 17.1     | 19.7     | 24.6     | 27.3     | 28.6     | 30.0     | 31.2     | 31.5     | 31.7     | 31.9     | 31.9     | 31.9    | 32.3    | 32.3    | 32.3    |
| GE 10000              |                                  | 16.1     | 20.9     | 26.1     | 28.9     | 30.2     | 31.6     | 32.8     | 33.0     | 33.3     | 33.5     | 33.5     | 33.5    | 33.8    | 33.8    | 33.8    |
| GE 9000               |                                  | 18.4     | 21.3     | 26.6     | 29.3     | 30.6     | 32.1     | 33.3     | 33.5     | 33.7     | 34.0     | 34.0     | 34.0    | 34.3    | 34.3    | 34.3    |
| GE 8000               |                                  | 21.1     | 24.1     | 30.3     | 33.6     | 35.0     | 37.1     | 38.2     | 38.5     | 38.8     | 39.1     | 39.1     | 39.1    | 39.4    | 39.4    | 39.4    |
| GE 7000               |                                  | 21.5     | 24.7     | 30.9     | 34.6     | 36.0     | 38.4     | 40.0     | 40.3     | 40.6     | 40.9     | 40.9     | 40.9    | 41.2    | 41.2    | 41.2    |
| GE 6000               |                                  | 21.5     | 24.7     | 31.0     | 34.7     | 36.1     | 38.5     | 40.1     | 40.4     | 40.7     | 41.0     | 41.0     | 41.0    | 41.3    | 41.3    | 41.3    |
| GE 5000               |                                  | 22.8     | 26.0     | 32.4     | 36.2     | 37.8     | 40.5     | 42.3     | 42.5     | 42.9     | 43.1     | 43.1     | 43.2    | 43.6    | 43.6    | 43.6    |
| GE 4500               |                                  | 23.2     | 26.4     | 32.9     | 37.1     | 38.7     | 41.6     | 43.3     | 43.6     | 44.1     | 44.3     | 44.3     | 44.4    | 44.8    | 44.8    | 44.8    |
| GE 4000               |                                  | 25.7     | 29.1     | 36.8     | 41.8     | 43.6     | 47.1     | 49.0     | 49.3     | 49.9     | 50.2     | 50.2     | 50.5    | 50.8    | 50.8    | 50.8    |
| GE 3500               |                                  | 27.8     | 31.5     | 39.7     | 44.7     | 46.4     | 50.6     | 52.6     | 52.9     | 53.4     | 53.8     | 53.8     | 54.0    | 54.4    | 54.4    | 54.4    |
| GE 3000               |                                  | 30.6     | 34.8     | 44.9     | 52.4     | 52.7     | 56.9     | 59.1     | 59.6     | 60.6     | 61.0     | 61.0     | 61.3    | 61.6    | 61.6    | 61.6    |
| GE 2500               |                                  | 31.4     | 35.6     | 46.1     | 51.7     | 54.0     | 58.2     | 63.5     | 60.9     | 62.0     | 62.5     | 62.5     | 62.7    | 63.1    | 63.1    | 63.1    |
| GE 2000               |                                  | 35.7     | 40.4     | 51.9     | 58.8     | 61.2     | 65.7     | 69.3     | 68.8     | 70.0     | 70.4     | 70.5     | 70.8    | 71.1    | 71.1    | 71.1    |
| GE 1800               |                                  | 36.0     | 40.6     | 52.5     | 59.6     | 62.2     | 66.7     | 69.4     | 70.0     | 71.1     | 71.6     | 71.7     | 72.0    | 72.3    | 72.3    | 72.3    |
| GE 1500               |                                  | 36.7     | 41.3     | 53.9     | 62.7     | 65.7     | 70.7     | 74.1     | 74.7     | 76.6     | 77.2     | 77.3     | 77.6    | 77.9    | 77.9    | 77.9    |
| GE 1200               |                                  | 37.5     | 42.2     | 55.6     | 64.7     | 68.4     | 74.2     | 78.1     | 78.9     | 80.9     | 81.5     | 81.6     | 81.8    | 82.3    | 82.3    | 82.3    |
| GE 1000               |                                  | 37.9     | 42.5     | 56.3     | 65.6     | 70.0     | 76.2     | 81.1     | 81.8     | 84.0     | 84.6     | 84.8     | 85.0    | 85.5    | 85.5    | 85.6    |
| GE 900                |                                  | 37.9     | 42.5     | 56.7     | 66.0     | 70.4     | 77.0     | 81.8     | 82.5     | 84.7     | 85.3     | 85.5     | 85.7    | 86.2    | 86.2    | 86.3    |
| GE 800                |                                  | 38.4     | 43.0     | 57.2     | 66.6     | 71.0     | 77.8     | 82.9     | 83.6     | 86.0     | 86.7     | 86.9     | 87.2    | 87.6    | 87.6    | 87.8    |
| GE 700                |                                  | 38.4     | 43.0     | 57.6     | 67.5     | 71.9     | 78.7     | 84.0     | 85.0     | 87.4     | 88.1     | 88.4     | 88.6    | 89.1    | 89.1    | 89.2    |
| GE 600                |                                  | 38.4     | 43.0     | 57.6     | 67.7     | 72.2     | 79.3     | 84.7     | 85.7     | 88.1     | 88.8     | 89.2     | 89.5    | 90.3    | 90.3    | 90.4    |
| GE 500                |                                  | 38.4     | 43.0     | 57.6     | 67.9     | 72.4     | 79.7     | 85.7     | 87.2     | 89.9     | 90.6     | 91.0     | 91.3    | 92.3    | 92.3    | 92.4    |
| GE 400                |                                  | 38.4     | 43.0     | 57.6     | 67.9     | 72.6     | 79.8     | 86.1     | 87.5     | 90.7     | 91.7     | 92.0     | 92.4    | 93.3    | 93.3    | 93.5    |
| GE 300                |                                  | 38.4     | 43.0     | 57.6     | 67.9     | 72.6     | 79.8     | 86.2     | 87.6     | 91.0     | 92.3     | 92.9     | 93.6    | 94.8    | 94.8    | 95.0    |
| GE 200                |                                  | 38.4     | 43.0     | 57.6     | 67.9     | 72.6     | 79.8     | 86.2     | 87.9     | 91.3     | 92.8     | 93.3     | 94.3    | 96.7    | 97.4    | 98.3    |
| GE 100                |                                  | 38.4     | 43.0     | 57.6     | 67.9     | 72.6     | 79.8     | 86.2     | 87.9     | 91.3     | 92.8     | 93.3     | 94.3    | 96.7    | 97.7    | 99.9    |
| GE                    |                                  | 38.4     | 43.0     | 57.6     | 67.9     | 72.6     | 79.8     | 86.2     | 87.9     | 91.3     | 92.8     | 93.3     | 94.4    | 96.8    | 97.9    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 942



GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VFRSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 335963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): 1200-1400

| CEILING  |   | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|----------|---|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| IN FEET  |   | 160                              | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     |
| NO CEIL  | 1 |                                  | 15.3 | 16.0 | 18.6 | 20.5 | 20.9 | 22.2 | 22.4 | 22.4 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7  |
| GE 20000 |   |                                  | 19.4 | 20.5 | 25.1 | 27.7 | 28.3 | 31.0 | 31.5 | 31.5 | 31.7 | 31.7 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8  |
| GE 18000 |   |                                  | 19.4 | 20.5 | 25.1 | 27.8 | 28.4 | 31.1 | 31.6 | 31.6 | 31.8 | 31.8 | 31.9 | 31.9 | 31.9 | 31.9 | 31.9  |
| GE 16000 |   |                                  | 19.4 | 20.5 | 25.1 | 27.8 | 28.4 | 31.1 | 31.6 | 31.6 | 31.8 | 31.8 | 31.9 | 31.9 | 31.9 | 31.9 | 31.9  |
| GE 14000 |   |                                  | 19.6 | 20.8 | 25.3 | 28.0 | 28.6 | 31.4 | 31.8 | 31.8 | 32.1 | 32.1 | 32.2 | 32.2 | 32.2 | 32.2 | 32.2  |
| GE 12000 |   |                                  | 19.6 | 20.8 | 25.3 | 28.0 | 28.6 | 31.4 | 31.8 | 31.8 | 32.1 | 32.1 | 32.2 | 32.2 | 32.2 | 32.2 | 32.2  |
| GE 10000 |   |                                  | 21.1 | 22.4 | 27.3 | 30.3 | 30.9 | 33.6 | 34.2 | 34.2 | 34.4 | 34.4 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6  |
| GE 9000  |   |                                  | 21.5 | 22.9 | 27.8 | 30.9 | 31.5 | 34.2 | 34.8 | 34.8 | 35.0 | 35.0 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2  |
| GE 8000  |   |                                  | 24.3 | 25.8 | 32.5 | 36.3 | 37.1 | 39.9 | 40.5 | 40.5 | 40.7 | 40.7 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9  |
| GE 7000  |   |                                  | 24.7 | 26.1 | 33.5 | 37.4 | 38.1 | 41.2 | 41.8 | 41.8 | 42.0 | 42.0 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2  |
| GE 6000  |   |                                  | 24.7 | 26.1 | 33.5 | 37.4 | 38.1 | 41.2 | 41.8 | 41.8 | 42.0 | 42.0 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2  |
| GE 5000  |   |                                  | 26.1 | 27.8 | 35.4 | 39.3 | 40.3 | 43.5 | 44.1 | 44.1 | 44.3 | 44.3 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4  |
| GE 4500  |   |                                  | 27.3 | 29.0 | 36.8 | 41.0 | 41.9 | 45.1 | 45.7 | 45.7 | 46.0 | 46.0 | 46.1 | 46.1 | 46.1 | 46.1 | 46.1  |
| GE 4000  |   |                                  | 29.9 | 32.1 | 41.0 | 45.6 | 46.6 | 50.0 | 50.6 | 50.6 | 51.2 | 51.2 | 51.3 | 51.4 | 51.4 | 51.4 | 51.4  |
| GE 3500  |   |                                  | 32.7 | 34.9 | 44.3 | 49.3 | 50.2 | 54.0 | 55.0 | 55.0 | 55.6 | 55.6 | 55.7 | 55.8 | 55.8 | 55.8 | 55.8  |
| GE 3000  |   |                                  | 38.1 | 40.9 | 53.3 | 59.0 | 60.1 | 64.3 | 65.4 | 65.8 | 66.6 | 66.6 | 66.7 | 66.9 | 67.0 | 67.0 | 67.0  |
| GE 2500  |   |                                  | 38.8 | 41.6 | 54.2 | 60.0 | 61.2 | 65.3 | 66.6 | 67.0 | 67.8 | 67.8 | 67.9 | 68.1 | 68.2 | 68.2 | 68.2  |
| GE 2000  |   |                                  | 41.4 | 44.5 | 58.7 | 64.8 | 66.3 | 71.0 | 72.3 | 72.8 | 73.6 | 73.6 | 73.8 | 73.9 | 74.0 | 74.0 | 74.0  |
| GE 1800  |   |                                  | 41.6 | 44.7 | 59.0 | 65.2 | 66.6 | 71.5 | 72.8 | 73.3 | 74.1 | 74.1 | 74.2 | 74.3 | 74.5 | 74.5 | 74.5  |
| GE 1500  |   |                                  | 42.4 | 45.7 | 61.5 | 69.1 | 70.8 | 76.0 | 78.0 | 78.7 | 79.8 | 79.8 | 79.9 | 80.0 | 80.2 | 80.2 | 80.2  |
| GE 1200  |   |                                  | 43.6 | 47.3 | 64.1 | 72.6 | 74.7 | 80.4 | 82.8 | 83.8 | 85.2 | 85.2 | 85.3 | 85.4 | 85.5 | 85.5 | 85.5  |
| GE 1000  |   |                                  | 43.8 | 47.4 | 64.7 | 73.4 | 76.5 | 82.4 | 85.2 | 86.2 | 87.9 | 87.9 | 88.0 | 88.1 | 88.2 | 88.2 | 88.2  |
| GE 900   |   |                                  | 43.9 | 47.5 | 65.4 | 74.5 | 77.8 | 83.8 | 86.7 | 87.8 | 89.4 | 89.4 | 89.5 | 89.7 | 89.8 | 89.8 | 89.8  |
| GE 800   |   |                                  | 43.9 | 47.5 | 65.7 | 75.1 | 78.4 | 84.6 | 87.5 | 88.7 | 90.5 | 90.5 | 91.0 | 91.4 | 91.6 | 91.6 | 91.6  |
| GE 700   |   |                                  | 43.9 | 47.5 | 65.7 | 75.1 | 78.5 | 84.9 | 87.9 | 89.4 | 91.2 | 91.2 | 91.7 | 92.2 | 92.3 | 92.3 | 92.3  |
| GE 600   |   |                                  | 43.9 | 47.5 | 65.7 | 75.4 | 78.9 | 86.0 | 89.3 | 90.9 | 92.6 | 92.6 | 93.2 | 93.8 | 93.9 | 93.9 | 93.9  |
| GE 500   |   |                                  | 43.9 | 47.5 | 65.9 | 75.8 | 79.3 | 87.1 | 91.0 | 92.9 | 94.8 | 94.9 | 95.5 | 96.1 | 96.2 | 96.2 | 96.2  |
| GE 400   |   |                                  | 43.9 | 47.5 | 65.9 | 75.8 | 79.3 | 87.3 | 91.3 | 93.2 | 95.4 | 95.5 | 96.1 | 96.8 | 96.9 | 96.9 | 96.9  |
| GE 300   |   |                                  | 43.9 | 47.5 | 65.9 | 75.8 | 79.3 | 87.3 | 91.3 | 93.3 | 95.6 | 96.0 | 96.7 | 97.6 | 97.7 | 97.7 | 97.7  |
| GE 200   |   |                                  | 43.9 | 47.5 | 65.9 | 75.8 | 79.3 | 87.3 | 91.4 | 93.5 | 95.7 | 96.2 | 96.9 | 98.6 | 99.2 | 99.2 | 99.6  |
| GE 100   |   |                                  | 43.9 | 47.5 | 65.9 | 75.8 | 79.3 | 87.3 | 91.4 | 93.5 | 95.7 | 96.2 | 96.9 | 98.6 | 99.2 | 99.4 | 100.0 |
| GE 0     |   |                                  | 43.9 | 47.5 | 65.9 | 75.8 | 79.3 | 87.3 | 91.4 | 93.5 | 95.7 | 96.2 | 96.9 | 98.6 | 99.2 | 99.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 842

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS (LST): 1500-1700

| CEILING  |    | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |      |      |      |       |  |
|----------|----|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|--|
| IN FEET  |    | GT 160                           | GE 90 | GE 80 | GE 60 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |  |
| NO CEIL  |    |                                  | 15.0  | 17.0  | 20.6  | 22.1  | 23.0  | 24.5  | 24.6  | 24.8  | 24.8  | 24.8  | 24.8 | 24.8 | 24.8 | 24.8  |  |
| GE 20000 |    |                                  | 20.1  | 22.7  | 28.5  | 30.5  | 31.7  | 33.9  | 34.4  | 34.5  | 34.5  | 34.5  | 34.5 | 34.5 | 34.5 | 34.5  |  |
| GE 18000 |    |                                  | 20.1  | 22.7  | 28.6  | 30.6  | 31.8  | 34.0  | 34.5  | 34.6  | 34.6  | 34.6  | 34.6 | 34.6 | 34.6 | 34.6  |  |
| GE 16000 |    |                                  | 20.1  | 22.7  | 28.6  | 30.6  | 31.8  | 34.0  | 34.5  | 34.6  | 34.6  | 34.6  | 34.6 | 34.6 | 34.6 | 34.6  |  |
| GE 14000 |    |                                  | 20.1  | 22.7  | 28.6  | 30.6  | 31.8  | 34.0  | 34.5  | 34.6  | 34.6  | 34.6  | 34.6 | 34.6 | 34.6 | 34.6  |  |
| GE 12000 |    |                                  | 20.1  | 22.7  | 28.6  | 30.6  | 31.8  | 34.0  | 34.5  | 34.6  | 34.6  | 34.6  | 34.6 | 34.6 | 34.6 | 34.6  |  |
| GE 10000 |    |                                  | 21.7  | 24.3  | 30.7  | 32.7  | 33.9  | 36.3  | 36.8  | 37.0  | 37.0  | 37.0  | 37.1 | 37.1 | 37.1 | 37.1  |  |
| GE 9000  |    |                                  | 21.8  | 24.4  | 30.8  | 32.9  | 34.0  | 36.5  | 37.0  | 37.3  | 37.3  | 37.3  | 37.4 | 37.4 | 37.4 | 37.4  |  |
| GE 8000  |    |                                  | 23.6  | 26.3  | 33.9  | 36.7  | 38.2  | 40.8  | 41.4  | 41.7  | 41.7  | 41.7  | 41.8 | 41.8 | 41.8 | 41.8  |  |
| GE 7000  |    |                                  | 24.3  | 27.3  | 35.1  | 38.1  | 39.6  | 42.4  | 43.0  | 43.2  | 43.2  | 43.2  | 43.3 | 43.3 | 43.3 | 43.3  |  |
| GE 6000  |    |                                  | 24.3  | 27.3  | 35.1  | 38.1  | 39.6  | 42.4  | 43.0  | 43.2  | 43.2  | 43.2  | 43.3 | 43.3 | 43.3 | 43.3  |  |
| GE 5000  |    |                                  | 25.0  | 28.0  | 36.2  | 39.2  | 40.8  | 43.7  | 44.4  | 44.6  | 44.6  | 44.6  | 44.8 | 44.8 | 44.8 | 44.8  |  |
| GE 4500  |    |                                  | 26.3  | 29.3  | 37.6  | 40.6  | 42.4  | 45.2  | 46.0  | 46.2  | 46.2  | 46.2  | 46.3 | 46.3 | 46.3 | 46.3  |  |
| GE 4000  |    |                                  | 29.2  | 32.1  | 41.2  | 44.6  | 46.4  | 49.6  | 50.7  | 51.0  | 51.3  | 51.3  | 51.4 | 51.4 | 51.4 | 51.4  |  |
| GE 3500  |    |                                  | 31.2  | 34.4  | 44.2  | 48.1  | 49.9  | 53.7  | 54.9  | 55.1  | 55.5  | 55.5  | 55.6 | 55.6 | 55.6 | 55.6  |  |
| GE 3000  |    |                                  | 36.4  | 41.3  | 54.0  | 58.6  | 60.4  | 64.5  | 66.0  | 66.3  | 66.7  | 66.7  | 66.8 | 66.8 | 66.8 | 66.8  |  |
| GE 2500  |    |                                  | 36.7  | 41.5  | 54.8  | 59.4  | 61.2  | 65.5  | 66.9  | 67.3  | 67.6  | 67.6  | 67.7 | 67.7 | 67.7 | 67.7  |  |
| GE 2000  |    |                                  | 39.8  | 45.8  | 60.0  | 65.2  | 67.9  | 72.7  | 74.2  | 74.5  | 75.0  | 75.0  | 75.1 | 75.1 | 75.1 | 75.1  |  |
| GE 1800  |    |                                  | 39.8  | 46.0  | 60.6  | 65.8  | 68.5  | 73.6  | 75.0  | 75.4  | 75.8  | 75.8  | 76.0 | 76.0 | 76.0 | 76.0  |  |
| GE 1500  |    |                                  | 41.2  | 47.6  | 63.3  | 69.8  | 72.5  | 78.2  | 80.4  | 80.7  | 81.5  | 81.8  | 81.9 | 81.9 | 81.9 | 81.9  |  |
| GE 1200  |    |                                  | 42.0  | 48.7  | 65.4  | 72.7  | 76.0  | 82.6  | 84.8  | 85.4  | 86.3  | 86.5  | 86.7 | 86.7 | 86.7 | 86.7  |  |
| GE 1000  |    |                                  | 42.3  | 48.9  | 66.1  | 73.9  | 77.5  | 84.4  | 86.7  | 87.3  | 88.5  | 88.8  | 88.9 | 88.9 | 88.9 | 88.9  |  |
| GE 900   |    |                                  | 42.3  | 48.9  | 66.3  | 74.5  | 78.1  | 85.2  | 87.6  | 88.2  | 89.5  | 89.9  | 90.0 | 90.0 | 90.0 | 90.0  |  |
| GE 800   |    |                                  | 42.3  | 48.9  | 66.4  | 74.6  | 78.3  | 85.7  | 88.3  | 88.9  | 90.4  | 90.7  | 90.8 | 90.8 | 90.8 | 90.8  |  |
| GE 700   |    |                                  | 42.3  | 48.9  | 66.4  | 74.9  | 78.5  | 86.2  | 89.3  | 90.0  | 91.5  | 92.0  | 92.1 | 92.1 | 92.1 | 92.1  |  |
| GE 600   |    |                                  | 42.3  | 48.9  | 66.4  | 75.0  | 78.6  | 86.7  | 89.8  | 90.6  | 92.1  | 92.7  | 92.9 | 92.9 | 92.9 | 92.9  |  |
| GE 500   |    |                                  | 42.3  | 48.9  | 66.5  | 75.2  | 78.8  | 87.1  | 90.6  | 92.4  | 94.3  | 95.2  | 95.8 | 96.0 | 96.0 | 96.0  |  |
| GE 400   |    |                                  | 42.3  | 48.9  | 66.5  | 75.2  | 78.8  | 87.4  | 91.1  | 92.9  | 95.4  | 96.3  | 96.9 | 97.0 | 97.0 | 97.0  |  |
| GE 300   |    |                                  | 42.3  | 48.9  | 66.5  | 75.2  | 78.9  | 87.5  | 91.2  | 93.0  | 95.5  | 96.8  | 97.4 | 97.5 | 97.9 | 97.9  |  |
| GE 200   |    |                                  | 42.3  | 48.9  | 66.5  | 75.2  | 78.9  | 87.5  | 91.2  | 93.1  | 95.8  | 97.4  | 98.0 | 98.6 | 99.3 | 99.9  |  |
| GE 100   |    |                                  | 42.3  | 48.9  | 66.5  | 75.2  | 78.9  | 87.5  | 91.2  | 93.1  | 95.8  | 97.4  | 98.0 | 98.6 | 99.3 | 100.0 |  |
| GE       | CL |                                  | 42.3  | 48.9  | 66.5  | 75.2  | 78.9  | 87.5  | 91.2  | 93.1  | 95.8  | 97.4  | 98.0 | 98.6 | 99.3 | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 940

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1800-2000

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| IN       | FEET | GE 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 9 | GE 5 | GE 4 | GE 0 |
| NO CEIL  | 1    | 18.3                             | 21.4  | 26.3  | 29.4  | 30.2  | 31.8  | 32.1  | 32.1  | 32.3  | 32.3  | 32.3  | 32.3  | 32.4 | 32.4 | 32.4 |      |
| GE 20000 |      | 20.7                             | 24.8  | 30.4  | 34.2  | 35.2  | 36.8  | 37.6  | 37.9  | 38.0  | 38.0  | 38.0  | 38.0  | 38.1 | 38.1 | 38.1 |      |
| GE 18000 |      | 20.7                             | 24.8  | 30.5  | 34.3  | 35.4  | 36.9  | 37.7  | 38.0  | 38.1  | 38.1  | 38.1  | 38.1  | 38.1 | 38.2 | 38.2 |      |
| GE 16000 |      | 20.7                             | 24.8  | 30.5  | 34.3  | 35.4  | 36.9  | 37.7  | 38.0  | 38.1  | 38.1  | 38.1  | 38.1  | 38.1 | 38.2 | 38.2 |      |
| GE 14000 |      | 20.7                             | 24.8  | 30.5  | 34.3  | 35.4  | 36.9  | 37.7  | 38.0  | 38.1  | 38.1  | 38.1  | 38.1  | 38.1 | 38.2 | 38.2 |      |
| GE 12000 |      | 20.7                             | 24.8  | 30.5  | 34.3  | 35.4  | 36.9  | 37.7  | 38.0  | 38.1  | 38.1  | 38.1  | 38.1  | 38.1 | 38.2 | 38.2 |      |
| GE 10000 |      | 21.4                             | 25.7  | 31.5  | 35.4  | 36.4  | 38.1  | 39.0  | 39.4  | 39.5  | 39.5  | 39.5  | 39.6  | 39.6 | 39.8 | 39.8 |      |
| GE 9000  |      | 21.4                             | 25.7  | 31.5  | 35.4  | 36.4  | 38.1  | 39.0  | 39.4  | 39.5  | 39.5  | 39.5  | 39.6  | 39.6 | 39.8 | 39.8 |      |
| GE 8000  |      | 23.3                             | 27.7  | 33.9  | 38.2  | 39.6  | 41.3  | 42.4  | 42.9  | 43.2  | 43.2  | 43.2  | 43.3  | 43.3 | 43.5 | 43.5 |      |
| GE 7000  |      | 23.7                             | 28.2  | 34.6  | 38.9  | 40.4  | 42.4  | 43.5  | 43.9  | 44.3  | 44.3  | 44.3  | 44.4  | 44.4 | 44.5 | 44.5 |      |
| GE 6000  |      | 23.7                             | 28.2  | 34.6  | 38.9  | 40.4  | 42.4  | 43.5  | 43.9  | 44.3  | 44.3  | 44.3  | 44.4  | 44.4 | 44.5 | 44.5 |      |
| GE 5000  |      | 24.4                             | 28.9  | 35.7  | 40.4  | 42.0  | 44.0  | 45.1  | 45.7  | 46.1  | 46.1  | 46.2  | 46.2  | 46.3 | 46.3 | 46.3 |      |
| GE 4500  |      | 25.2                             | 29.8  | 36.8  | 41.4  | 43.1  | 45.1  | 46.2  | 46.8  | 47.1  | 47.1  | 47.3  | 47.3  | 47.4 | 47.4 | 47.4 |      |
| GE 4000  |      | 28.3                             | 33.6  | 41.7  | 47.0  | 48.8  | 51.7  | 53.0  | 53.6  | 54.0  | 54.0  | 54.2  | 54.2  | 54.4 | 54.5 | 54.5 |      |
| GE 3500  |      | 29.6                             | 34.9  | 43.8  | 49.4  | 51.2  | 54.9  | 56.4  | 57.0  | 57.5  | 57.5  | 57.6  | 57.9  | 58.0 | 58.0 | 58.0 |      |
| GE 3000  |      | 34.4                             | 40.4  | 51.4  | 58.3  | 60.1  | 64.2  | 66.1  | 66.8  | 67.3  | 67.3  | 67.4  | 67.6  | 67.7 | 67.7 | 67.7 |      |
| GE 2500  |      | 34.9                             | 40.8  | 52.4  | 59.6  | 61.4  | 66.1  | 68.0  | 68.7  | 69.2  | 69.2  | 69.3  | 69.5  | 69.6 | 69.6 | 69.6 |      |
| GE 2000  |      | 38.0                             | 44.5  | 58.2  | 66.2  | 68.1  | 73.5  | 75.7  | 76.4  | 77.0  | 77.0  | 77.1  | 77.4  | 77.5 | 77.5 | 77.5 |      |
| GE 1800  |      | 38.0                             | 44.6  | 58.6  | 67.0  | 69.0  | 74.4  | 76.7  | 77.4  | 78.0  | 78.0  | 78.1  | 78.3  | 78.5 | 78.5 | 78.5 |      |
| GE 1500  |      | 38.3                             | 45.2  | 60.0  | 68.7  | 71.2  | 77.3  | 80.1  | 80.8  | 81.8  | 81.9  | 82.0  | 82.3  | 82.4 | 82.4 | 82.4 |      |
| GE 1200  |      | 39.3                             | 46.2  | 61.4  | 71.2  | 74.2  | 80.6  | 83.5  | 84.3  | 85.2  | 85.4  | 85.5  | 85.7  | 85.8 | 85.8 | 85.8 |      |
| GE 1000  |      | 39.9                             | 46.8  | 62.6  | 72.5  | 75.8  | 82.4  | 85.6  | 86.4  | 87.6  | 87.7  | 88.0  | 88.2  | 88.3 | 88.3 | 88.3 |      |
| GE 900   |      | 39.9                             | 46.8  | 62.7  | 73.0  | 76.3  | 82.9  | 86.4  | 87.3  | 88.5  | 88.6  | 88.8  | 89.0  | 89.2 | 89.2 | 89.2 |      |
| GE 800   |      | 39.9                             | 46.8  | 62.7  | 73.0  | 76.3  | 82.9  | 86.4  | 87.6  | 88.8  | 88.9  | 89.2  | 89.4  | 89.5 | 89.5 | 89.5 |      |
| GE 700   |      | 40.0                             | 46.9  | 62.9  | 73.1  | 76.4  | 83.1  | 87.0  | 88.7  | 89.9  | 90.1  | 90.4  | 90.6  | 90.7 | 90.7 | 90.7 |      |
| GE 600   |      | 40.0                             | 46.9  | 62.9  | 73.3  | 76.7  | 83.7  | 87.7  | 89.4  | 91.0  | 91.2  | 91.4  | 91.7  | 91.8 | 91.8 | 91.8 |      |
| GE 500   |      | 40.0                             | 46.9  | 63.0  | 73.6  | 77.1  | 84.2  | 88.3  | 90.2  | 92.7  | 93.3  | 93.7  | 93.9  | 94.0 | 94.0 | 94.0 |      |
| GE 400   |      | 40.0                             | 46.9  | 63.0  | 73.8  | 77.4  | 84.9  | 89.4  | 91.7  | 94.4  | 95.4  | 95.8  | 96.2  | 96.3 | 96.3 | 96.3 |      |
| GE 300   |      | 40.0                             | 46.9  | 63.0  | 73.8  | 77.5  | 85.2  | 90.1  | 92.5  | 96.0  | 97.0  | 97.5  | 97.9  | 98.2 | 98.2 | 98.2 |      |
| GE 200   |      | 40.0                             | 46.9  | 63.0  | 73.8  | 77.5  | 85.2  | 90.1  | 92.5  | 96.2  | 97.6  | 98.2  | 98.6  | 99.5 | 99.5 | 99.5 |      |
| GE 100   |      | 40.0                             | 46.9  | 63.0  | 73.8  | 77.5  | 85.2  | 90.1  | 92.5  | 96.2  | 97.6  | 98.2  | 98.6  | 99.5 | 99.5 | 99.5 |      |
| GE 0     |      | 40.0                             | 46.9  | 63.0  | 73.8  | 77.5  | 85.2  | 90.1  | 92.5  | 96.2  | 97.6  | 98.2  | 98.6  | 99.5 | 99.5 | 99.5 |      |
| GE 0     |      | 40.0                             | 46.9  | 63.0  | 73.8  | 77.5  | 85.2  | 90.1  | 92.5  | 96.2  | 97.6  | 98.2  | 98.6  | 99.5 | 99.5 | 99.5 |      |

TOTAL NUMBER OF OBSERVATIONS: 84

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: Q35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: FEB HOURS(IST): 1100-2300

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  | 1    |                                  | 21.7  | 24.4  | 28.2  | 32.4  | 33.2  | 34.2  | 35.2  | 35.2  | 35.5  | 35.8  | 35.8  | 36.0 | 36.1 | 36.2 | 36.4  |
| GE 20000 |      |                                  | 23.7  | 26.7  | 31.5  | 36.5  | 37.7  | 39.3  | 40.8  | 40.8  | 41.1  | 41.4  | 41.4  | 41.5 | 41.7 | 42.0 | 42.3  |
| GE 18000 |      |                                  | 23.7  | 26.7  | 31.5  | 36.5  | 37.7  | 39.3  | 40.8  | 40.8  | 41.1  | 41.4  | 41.4  | 41.5 | 41.7 | 42.0 | 42.3  |
| GE 16000 |      |                                  | 23.7  | 26.7  | 31.5  | 36.5  | 37.7  | 39.3  | 40.8  | 40.8  | 41.1  | 41.4  | 41.4  | 41.5 | 41.7 | 42.0 | 42.3  |
| GE 14000 |      |                                  | 23.7  | 26.7  | 31.5  | 36.5  | 37.7  | 39.3  | 40.8  | 40.8  | 41.1  | 41.4  | 41.4  | 41.5 | 41.7 | 42.0 | 42.3  |
| GE 12000 |      |                                  | 23.7  | 26.7  | 31.5  | 36.5  | 37.7  | 39.3  | 40.8  | 40.8  | 41.1  | 41.4  | 41.4  | 41.5 | 41.7 | 42.0 | 42.3  |
| GE 10000 |      |                                  | 24.2  | 27.1  | 32.0  | 37.0  | 38.2  | 39.8  | 41.4  | 41.4  | 41.7  | 42.0  | 42.0  | 42.1 | 42.3 | 42.6 | 42.9  |
| GE 9000  |      |                                  | 24.2  | 27.1  | 32.0  | 37.0  | 38.2  | 39.8  | 41.4  | 41.4  | 41.7  | 42.0  | 42.0  | 42.1 | 42.3 | 42.6 | 42.9  |
| GE 8000  |      |                                  | 25.6  | 28.7  | 34.2  | 39.5  | 40.7  | 42.3  | 44.0  | 44.0  | 44.3  | 44.6  | 44.6  | 44.8 | 44.9 | 45.2 | 45.5  |
| GE 7000  |      |                                  | 26.3  | 29.5  | 35.0  | 40.6  | 41.8  | 43.5  | 45.2  | 45.2  | 45.5  | 45.8  | 45.8  | 46.0 | 46.1 | 46.4 | 46.7  |
| GE 6000  |      |                                  | 26.3  | 29.5  | 35.0  | 40.6  | 41.8  | 43.5  | 45.2  | 45.2  | 45.5  | 45.8  | 45.8  | 46.0 | 46.1 | 46.4 | 46.7  |
| GE 5000  |      |                                  | 26.7  | 29.9  | 35.4  | 41.3  | 42.9  | 44.5  | 46.4  | 46.4  | 46.7  | 47.0  | 47.0  | 47.1 | 47.3 | 47.6 | 47.9  |
| GE 4500  |      |                                  | 27.9  | 31.1  | 36.9  | 42.9  | 44.4  | 46.4  | 48.3  | 48.3  | 48.6  | 48.9  | 48.9  | 49.0 | 49.2 | 49.5 | 49.8  |
| GE 4000  |      |                                  | 30.5  | 34.3  | 40.5  | 47.0  | 48.8  | 51.8  | 53.7  | 53.7  | 53.9  | 54.3  | 54.3  | 54.4 | 54.6 | 55.0 | 55.2  |
| GE 3500  |      |                                  | 32.5  | 36.3  | 43.5  | 50.4  | 52.3  | 56.3  | 58.5  | 58.5  | 58.7  | 59.0  | 59.0  | 59.2 | 59.5 | 59.9 | 60.1  |
| GE 3000  |      |                                  | 36.2  | 40.1  | 48.1  | 55.5  | 57.4  | 61.4  | 63.6  | 63.7  | 64.2  | 64.5  | 64.5  | 64.6 | 65.0 | 65.4 | 65.6  |
| GE 2500  |      |                                  | 37.1  | 41.1  | 49.5  | 57.7  | 59.6  | 63.9  | 66.1  | 66.2  | 66.7  | 67.0  | 67.0  | 67.1 | 67.5 | 67.9 | 68.1  |
| GE 2000  |      |                                  | 41.2  | 45.4  | 55.7  | 65.5  | 67.4  | 72.5  | 74.9  | 75.1  | 75.6  | 76.0  | 76.0  | 76.1 | 76.4 | 76.8 | 77.0  |
| GE 1800  |      |                                  | 41.2  | 45.4  | 56.2  | 66.3  | 68.3  | 73.5  | 75.8  | 76.1  | 76.5  | 76.9  | 76.9  | 77.0 | 77.4 | 77.7 | 78.0  |
| GE 1500  |      |                                  | 41.8  | 46.0  | 58.0  | 68.7  | 71.1  | 76.2  | 78.9  | 79.2  | 80.0  | 80.4  | 80.4  | 80.5 | 80.8 | 81.2 | 81.4  |
| GE 1200  |      |                                  | 42.5  | 47.0  | 60.0  | 71.7  | 74.4  | 80.4  | 83.3  | 83.7  | 84.9  | 85.2  | 85.2  | 85.4 | 85.7 | 86.1 | 86.3  |
| GE 1000  |      |                                  | 43.2  | 47.7  | 61.0  | 73.0  | 75.8  | 82.0  | 85.1  | 85.5  | 86.7  | 87.0  | 87.0  | 87.1 | 87.5 | 87.9 | 88.1  |
| GE 900   |      |                                  | 43.2  | 47.7  | 61.0  | 73.1  | 76.1  | 82.3  | 85.4  | 86.2  | 87.4  | 87.7  | 87.7  | 87.9 | 88.2 | 88.6 | 88.8  |
| GE 800   |      |                                  | 43.3  | 47.9  | 61.4  | 73.6  | 76.6  | 83.0  | 86.3  | 87.1  | 88.3  | 88.7  | 88.7  | 88.8 | 89.2 | 89.5 | 89.8  |
| GE 700   |      |                                  | 43.6  | 48.1  | 61.7  | 73.9  | 77.4  | 83.8  | 88.1  | 89.6  | 90.8  | 91.2  | 91.2  | 91.3 | 91.7 | 92.0 | 92.3  |
| GE 600   |      |                                  | 43.6  | 48.1  | 61.7  | 74.2  | 77.7  | 84.5  | 88.9  | 90.5  | 91.8  | 92.1  | 92.1  | 92.3 | 92.6 | 93.0 | 93.2  |
| GE 500   |      |                                  | 43.6  | 48.1  | 62.0  | 75.1  | 78.7  | 85.5  | 90.0  | 91.5  | 93.2  | 93.6  | 93.6  | 93.7 | 94.0 | 94.4 | 94.6  |
| GE 400   |      |                                  | 43.6  | 48.1  | 62.1  | 75.5  | 79.0  | 86.3  | 91.4  | 93.5  | 95.4  | 96.1  | 96.1  | 96.2 | 96.7 | 97.0 | 97.3  |
| GE 300   |      |                                  | 43.6  | 48.1  | 62.1  | 75.5  | 79.0  | 86.3  | 91.4  | 93.5  | 96.1  | 96.8  | 96.8  | 96.9 | 97.4 | 97.7 | 98.2  |
| GE 200   |      |                                  | 43.6  | 48.1  | 62.1  | 75.5  | 79.0  | 86.3  | 91.4  | 93.5  | 96.4  | 97.3  | 97.3  | 97.5 | 98.2 | 98.8 | 99.4  |
| GE 100   |      |                                  | 43.6  | 48.1  | 62.1  | 75.5  | 79.0  | 86.3  | 91.4  | 93.5  | 96.4  | 97.3  | 97.3  | 97.5 | 98.2 | 98.8 | 99.6  |
| GE 0     |      |                                  | 43.6  | 48.1  | 62.1  | 75.5  | 79.0  | 86.3  | 91.4  | 93.5  | 96.4  | 97.3  | 97.3  | 97.5 | 98.2 | 98.8 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 940

GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: C35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): ALL

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|---------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| IN      | FEET | 1                                | 160  | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4     |
| GE      | FEET | 1                                | 160  | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4     |
| NO CEIL |      |                                  | 16.8 | 19.0 | 22.7 | 25.2 | 25.8 | 27.4 | 28.0 | 28.1 | 28.3 | 28.4 | 28.5 | 28.5 | 28.6 | 28.7 | 28.8  |
| GE 2000 |      |                                  | 19.6 | 22.1 | 27.1 | 30.1 | 31.2 | 33.2 | 34.3 | 34.4 | 34.6 | 34.7 | 34.8 | 34.9 | 35.0 | 35.1 | 35.3  |
| GE 1800 |      |                                  | 19.6 | 22.1 | 27.1 | 30.2 | 31.3 | 33.3 | 34.4 | 34.5 | 34.7 | 34.8 | 34.9 | 35.0 | 35.1 | 35.2 | 35.4  |
| GE 1600 |      |                                  | 19.6 | 22.1 | 27.1 | 30.2 | 31.3 | 33.3 | 34.4 | 34.5 | 34.7 | 34.8 | 34.9 | 35.0 | 35.1 | 35.2 | 35.4  |
| GE 1400 |      |                                  | 19.6 | 22.2 | 27.2 | 30.3 | 31.4 | 33.4 | 34.5 | 34.6 | 34.8 | 34.9 | 35.0 | 35.1 | 35.2 | 35.3 | 35.5  |
| GE 1200 |      |                                  | 19.7 | 22.2 | 27.2 | 30.3 | 31.4 | 33.4 | 34.5 | 34.6 | 34.8 | 34.9 | 35.0 | 35.1 | 35.2 | 35.3 | 35.5  |
| GE 1000 |      |                                  | 20.7 | 23.5 | 28.7 | 31.8 | 32.9 | 35.0 | 36.1 | 36.2 | 36.4 | 36.5 | 36.7 | 36.7 | 36.9 | 37.0 | 37.1  |
| GE 900  |      |                                  | 20.9 | 23.7 | 28.9 | 32.1 | 33.2 | 35.3 | 36.4 | 36.5 | 36.7 | 36.8 | 37.0 | 37.0 | 37.2 | 37.3 | 37.4  |
| GE 800  |      |                                  | 23.3 | 26.4 | 32.4 | 36.1 | 37.3 | 39.7 | 40.9 | 41.0 | 41.3 | 41.4 | 41.5 | 41.6 | 41.8 | 41.9 | 42.0  |
| GE 700  |      |                                  | 23.8 | 26.9 | 33.1 | 37.0 | 38.2 | 40.8 | 42.1 | 42.2 | 42.5 | 42.6 | 42.7 | 42.8 | 42.9 | 43.0 | 43.2  |
| GE 600  |      |                                  | 23.8 | 26.9 | 33.1 | 37.0 | 38.3 | 40.8 | 42.1 | 42.2 | 42.5 | 42.6 | 42.7 | 42.8 | 42.9 | 43.0 | 43.2  |
| GE 500  |      |                                  | 24.4 | 27.8 | 34.2 | 38.2 | 39.6 | 42.3 | 43.7 | 43.8 | 44.1 | 44.2 | 44.3 | 44.4 | 44.6 | 44.7 | 44.9  |
| GE 400  |      |                                  | 25.2 | 28.6 | 35.3 | 39.5 | 40.9 | 43.6 | 45.0 | 45.1 | 45.4 | 45.5 | 45.7 | 45.8 | 45.9 | 46.0 | 46.2  |
| GE 300  |      |                                  | 28.4 | 32.1 | 39.7 | 44.4 | 45.9 | 49.3 | 50.8 | 50.9 | 51.4 | 51.5 | 51.6 | 51.8 | 51.9 | 52.0 | 52.2  |
| GE 200  |      |                                  | 30.4 | 34.2 | 42.5 | 47.4 | 49.0 | 52.9 | 54.6 | 54.7 | 55.2 | 55.3 | 55.4 | 55.6 | 55.7 | 55.8 | 56.0  |
| GE 100  |      |                                  | 35.2 | 39.6 | 49.8 | 55.3 | 57.1 | 61.3 | 63.1 | 63.4 | 64.1 | 64.2 | 64.3 | 64.5 | 64.7 | 64.8 | 65.0  |
| GE 2000 |      |                                  | 35.9 | 40.3 | 50.9 | 56.7 | 58.6 | 63.0 | 64.9 | 65.2 | 65.9 | 66.0 | 66.1 | 66.3 | 66.5 | 66.6 | 66.8  |
| GE 1800 |      |                                  | 39.5 | 44.4 | 56.3 | 63.2 | 65.3 | 70.2 | 72.3 | 72.7 | 73.4 | 73.5 | 73.7 | 73.9 | 74.1 | 74.2 | 74.4  |
| GE 1600 |      |                                  | 40.7 | 44.7 | 56.9 | 64.1 | 66.2 | 71.0 | 73.3 | 73.6 | 74.3 | 74.5 | 74.7 | 74.9 | 75.0 | 75.2 | 75.3  |
| GE 1400 |      |                                  | 40.5 | 45.7 | 58.9 | 66.7 | 69.3 | 74.6 | 77.2 | 77.7 | 78.8 | 79.0 | 79.2 | 79.4 | 79.6 | 79.7 | 79.9  |
| GE 1200 |      |                                  | 41.3 | 46.6 | 60.7 | 69.4 | 72.5 | 78.3 | 81.2 | 81.8 | 83.1 | 83.2 | 83.4 | 83.6 | 83.8 | 84.0 | 84.1  |
| GE 1000 |      |                                  | 41.6 | 47.0 | 61.6 | 70.7 | 74.1 | 80.3 | 83.5 | 84.1 | 85.5 | 85.7 | 85.9 | 86.1 | 86.3 | 86.4 | 86.6  |
| GE 900  |      |                                  | 41.6 | 47.0 | 61.9 | 71.2 | 74.7 | 81.0 | 84.4 | 85.1 | 86.5 | 86.7 | 86.9 | 87.1 | 87.3 | 87.4 | 87.6  |
| GE 800  |      |                                  | 41.7 | 47.1 | 62.3 | 71.7 | 75.3 | 81.8 | 85.3 | 86.1 | 87.5 | 87.8 | 88.1 | 88.3 | 88.5 | 88.6 | 88.9  |
| GE 700  |      |                                  | 41.8 | 47.3 | 62.6 | 72.2 | 75.9 | 82.6 | 86.5 | 87.6 | 89.1 | 89.4 | 89.7 | 89.9 | 90.1 | 90.2 | 90.4  |
| GE 600  |      |                                  | 41.8 | 47.3 | 62.7 | 72.6 | 76.3 | 83.5 | 87.5 | 88.7 | 90.2 | 90.6 | 91.0 | 91.2 | 91.6 | 91.7 | 91.9  |
| GE 500  |      |                                  | 41.8 | 47.3 | 62.9 | 73.0 | 76.8 | 84.2 | 88.5 | 90.0 | 91.9 | 92.4 | 92.8 | 93.1 | 93.5 | 93.6 | 93.8  |
| GE 400  |      |                                  | 41.8 | 47.3 | 62.9 | 73.2 | 77.0 | 84.8 | 89.4 | 91.0 | 93.2 | 93.8 | 94.2 | 94.6 | 95.0 | 95.2 | 95.4  |
| GE 300  |      |                                  | 41.8 | 47.3 | 62.9 | 73.2 | 77.0 | 84.9 | 89.6 | 91.3 | 93.7 | 94.6 | 95.0 | 95.5 | 96.2 | 96.5 | 96.8  |
| GE 200  |      |                                  | 41.8 | 47.3 | 62.9 | 73.2 | 77.0 | 84.9 | 89.7 | 91.4 | 94.1 | 95.1 | 95.7 | 96.4 | 97.7 | 98.2 | 98.9  |
| GE 100  |      |                                  | 41.8 | 47.3 | 62.9 | 73.2 | 77.0 | 84.9 | 89.7 | 91.4 | 94.1 | 95.1 | 95.7 | 96.4 | 97.8 | 98.5 | 99.9  |
| GE 0    |      |                                  | 41.8 | 47.3 | 62.9 | 73.2 | 77.0 | 84.9 | 89.7 | 91.4 | 94.1 | 95.1 | 95.7 | 96.5 | 97.8 | 98.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 6727

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAR HOURS(IST): 0000-0200

| CEILING  |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|----------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| IN       | GT  | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE |
| FEET     | 160 | 90                               | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 3    | 2  |
| NO CEIL  |     | 27.3                             | 30.9 | 34.8 | 35.8 | 36.8 | 38.2 | 38.7 | 38.8 | 39.1 | 39.2 | 39.2 | 39.2 | 39.3 | 39.3 | 39.3 |    |
| GE 20000 |     | 29.9                             | 33.7 | 37.9 | 39.3 | 40.2 | 41.7 | 42.8 | 42.9 | 43.4 | 43.5 | 43.5 | 43.5 | 43.7 | 43.7 | 43.7 |    |
| GE 18000 |     | 29.9                             | 33.7 | 37.9 | 39.3 | 40.2 | 41.7 | 42.8 | 42.9 | 43.4 | 43.5 | 43.5 | 43.5 | 43.7 | 43.7 | 43.7 |    |
| GE 16000 |     | 29.9                             | 33.7 | 37.9 | 39.3 | 40.2 | 41.7 | 42.8 | 42.9 | 43.4 | 43.5 | 43.5 | 43.5 | 43.7 | 43.7 | 43.7 |    |
| GE 14000 |     | 29.9                             | 33.7 | 37.9 | 39.3 | 40.2 | 41.7 | 42.8 | 42.9 | 43.4 | 43.5 | 43.5 | 43.5 | 43.7 | 43.7 | 43.7 |    |
| GE 12000 |     | 29.9                             | 33.7 | 37.9 | 39.3 | 40.2 | 41.7 | 42.8 | 42.9 | 43.4 | 43.5 | 43.5 | 43.5 | 43.7 | 43.7 | 43.7 |    |
| GE 10000 |     | 30.4                             | 34.4 | 38.6 | 40.0 | 41.0 | 42.6 | 43.7 | 43.8 | 44.2 | 44.3 | 44.3 | 44.3 | 44.6 | 44.6 | 44.6 |    |
| GE 9000  |     | 30.4                             | 34.4 | 38.6 | 40.0 | 41.0 | 42.6 | 43.7 | 43.8 | 44.2 | 44.3 | 44.3 | 44.3 | 44.6 | 44.6 | 44.6 |    |
| GE 8000  |     | 33.1                             | 38.2 | 43.0 | 44.8 | 45.7 | 47.6 | 48.7 | 48.8 | 49.2 | 49.3 | 49.3 | 49.3 | 49.5 | 49.5 | 49.5 |    |
| GE 7000  |     | 33.7                             | 38.7 | 43.6 | 45.3 | 46.3 | 48.1 | 49.2 | 49.3 | 49.7 | 49.8 | 49.8 | 49.8 | 50.1 | 50.1 | 50.1 |    |
| GE 6000  |     | 33.9                             | 38.9 | 43.8 | 45.5 | 46.5 | 48.3 | 49.4 | 49.5 | 49.9 | 50.1 | 50.1 | 50.1 | 50.3 | 50.3 | 50.3 |    |
| GE 5000  |     | 36.0                             | 41.2 | 46.1 | 47.9 | 48.9 | 50.9 | 52.0 | 52.1 | 52.5 | 52.6 | 52.6 | 52.6 | 52.9 | 52.9 | 52.9 |    |
| GE 4500  |     | 36.4                             | 41.6 | 46.6 | 48.4 | 49.4 | 51.5 | 52.5 | 52.6 | 53.1 | 53.2 | 53.2 | 53.2 | 53.4 | 53.4 | 53.4 |    |
| GE 4000  |     | 39.8                             | 46.0 | 51.2 | 53.1 | 54.2 | 56.4 | 57.6 | 57.7 | 58.5 | 58.6 | 58.6 | 58.6 | 58.8 | 58.8 | 58.8 |    |
| GE 3500  |     | 41.7                             | 48.5 | 54.7 | 56.5 | 57.7 | 60.0 | 61.2 | 61.3 | 62.1 | 62.2 | 62.2 | 62.2 | 62.5 | 62.5 | 62.5 |    |
| GE 3000  |     | 45.4                             | 53.3 | 60.6 | 63.4 | 64.8 | 68.0 | 69.8 | 70.3 | 71.2 | 71.3 | 71.3 | 71.3 | 71.5 | 71.5 | 71.5 |    |
| GE 2500  |     | 46.1                             | 54.2 | 61.8 | 64.9 | 66.3 | 69.5 | 71.4 | 72.0 | 72.8 | 72.9 | 72.9 | 72.9 | 73.1 | 73.1 | 73.1 |    |
| GE 2000  |     | 46.3                             | 56.9 | 65.3 | 69.6 | 71.2 | 74.9 | 76.7 | 77.5 | 78.4 | 78.5 | 78.5 | 78.5 | 78.7 | 78.7 | 78.7 |    |
| GE 1800  |     | 49.2                             | 58.0 | 66.5 | 70.8 | 72.4 | 76.1 | 78.1 | 78.7 | 79.6 | 79.7 | 79.7 | 79.7 | 79.9 | 79.9 | 79.9 |    |
| GE 1500  |     | 49.7                             | 58.7 | 67.9 | 72.3 | 73.9 | 77.9 | 80.0 | 80.7 | 81.6 | 81.7 | 81.7 | 81.7 | 81.9 | 81.9 | 81.9 |    |
| GE 1200  |     | 51.3                             | 60.6 | 70.6 | 75.2 | 76.9 | 81.0 | 83.2 | 83.8 | 84.7 | 84.8 | 84.8 | 84.8 | 85.0 | 85.0 | 85.0 |    |
| GE 1000  |     | 52.1                             | 61.6 | 71.8 | 76.7 | 78.4 | 82.7 | 84.9 | 85.5 | 86.4 | 86.5 | 86.5 | 86.5 | 86.7 | 86.7 | 86.7 |    |
| GE 900   |     | 52.3                             | 61.8 | 72.3 | 77.1 | 78.9 | 83.2 | 85.3 | 86.0 | 86.6 | 86.6 | 86.6 | 86.6 | 86.9 | 86.9 | 86.9 |    |
| GE 800   |     | 52.6                             | 62.2 | 73.0 | 78.2 | 79.9 | 84.7 | 87.2 | 87.8 | 88.7 | 88.8 | 88.8 | 88.8 | 89.0 | 89.0 | 89.0 |    |
| GE 700   |     | 53.1                             | 63.0 | 74.3 | 79.9 | 81.9 | 86.7 | 89.2 | 89.9 | 90.7 | 90.8 | 90.8 | 90.8 | 91.0 | 91.0 | 91.0 |    |
| GE 600   |     | 53.3                             | 63.5 | 75.3 | 81.0 | 83.0 | 88.2 | 90.7 | 91.4 | 92.2 | 92.3 | 92.3 | 92.3 | 92.6 | 92.6 | 92.6 |    |
| GE 500   |     | 53.3                             | 63.5 | 75.6 | 81.6 | 83.5 | 89.2 | 92.1 | 93.0 | 93.9 | 94.0 | 94.0 | 94.0 | 94.2 | 94.2 | 94.2 |    |
| GE 400   |     | 53.3                             | 63.5 | 75.6 | 81.8 | 83.7 | 89.9 | 92.8 | 93.9 | 94.7 | 94.8 | 94.8 | 94.8 | 95.1 | 95.1 | 95.1 |    |
| GE 300   |     | 53.3                             | 63.5 | 75.6 | 82.0 | 83.9 | 90.3 | 93.3 | 94.6 | 95.8 | 95.9 | 95.9 | 95.9 | 96.2 | 96.2 | 96.2 |    |
| GE 200   |     | 53.3                             | 63.5 | 75.7 | 82.1 | 84.0 | 90.5 | 93.9 | 95.5 | 96.9 | 97.2 | 97.2 | 97.2 | 97.4 | 97.4 | 97.4 |    |
| GE 100   |     | 53.3                             | 63.5 | 75.7 | 82.1 | 84.0 | 90.5 | 93.9 | 95.6 | 97.0 | 97.3 | 97.3 | 97.3 | 97.5 | 97.5 | 97.5 |    |
| GE 0     |     | 53.3                             | 63.5 | 75.7 | 82.1 | 84.0 | 90.5 | 93.9 | 95.6 | 97.0 | 97.3 | 97.3 | 97.3 | 97.5 | 97.5 | 97.5 |    |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAR

HOURS(IST): 0300-0500

| CEILING    |  | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|------------|--|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN<br>FEET |  | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>9 | GE<br>5 | GE<br>4 | GE<br>C |
| NO CEIL    |  |                                  | 24.1     | 27.4     | 33.0     | 33.5     | 34.2     | 36.4     | 37.1     | 37.4     | 37.7     | 37.7     | 38.0     | 38.1    | 38.3    | 38.3    | 38.3    |
| GE 2000    |  |                                  | 26.8     | 30.2     | 35.9     | 36.6     | 37.4     | 39.5     | 40.3     | 40.5     | 40.8     | 40.8     | 41.1     | 41.3    | 41.5    | 41.5    | 41.6    |
| GE 1800    |  |                                  | 26.8     | 30.2     | 35.9     | 36.6     | 37.4     | 39.5     | 40.3     | 40.5     | 40.8     | 40.8     | 41.1     | 41.3    | 41.5    | 41.5    | 41.6    |
| GE 1600    |  |                                  | 26.8     | 30.2     | 35.9     | 36.6     | 37.4     | 39.5     | 40.3     | 40.5     | 40.8     | 40.8     | 41.1     | 41.3    | 41.5    | 41.5    | 41.6    |
| GE 1400    |  |                                  | 26.8     | 30.2     | 35.9     | 36.6     | 37.4     | 39.5     | 40.3     | 40.5     | 40.8     | 40.8     | 41.1     | 41.3    | 41.5    | 41.5    | 41.6    |
| GE 1200    |  |                                  | 26.8     | 30.2     | 35.9     | 36.6     | 37.4     | 39.6     | 40.5     | 40.7     | 41.0     | 41.0     | 41.4     | 41.5    | 41.7    | 41.7    | 41.8    |
| GE 1000    |  |                                  | 27.3     | 31.0     | 36.6     | 37.4     | 38.1     | 40.4     | 41.3     | 41.5     | 41.8     | 41.8     | 42.1     | 42.2    | 42.4    | 42.4    | 42.5    |
| GE 900     |  |                                  | 27.3     | 31.0     | 36.9     | 37.7     | 38.4     | 40.7     | 41.6     | 41.8     | 42.1     | 42.1     | 42.4     | 42.5    | 42.8    | 42.8    | 42.9    |
| GE 800     |  |                                  | 29.6     | 33.9     | 40.1     | 41.3     | 42.0     | 44.3     | 45.2     | 45.7     | 46.0     | 46.0     | 46.3     | 46.4    | 46.7    | 46.8    | 46.9    |
| GE 700     |  |                                  | 29.8     | 34.1     | 40.3     | 41.5     | 42.2     | 44.5     | 45.5     | 45.9     | 46.2     | 46.2     | 46.5     | 46.7    | 46.9    | 47.0    | 47.1    |
| GE 600     |  |                                  | 29.8     | 34.1     | 40.3     | 41.5     | 42.2     | 44.5     | 45.5     | 45.9     | 46.2     | 46.2     | 46.5     | 46.7    | 46.9    | 47.0    | 47.1    |
| GE 500     |  |                                  | 31.7     | 36.1     | 42.4     | 43.7     | 44.5     | 47.1     | 48.1     | 48.5     | 49.0     | 49.0     | 49.4     | 49.5    | 49.7    | 49.8    | 49.9    |
| GE 450     |  |                                  | 32.0     | 36.6     | 43.3     | 44.6     | 45.4     | 47.9     | 48.9     | 49.4     | 49.9     | 49.9     | 50.2     | 50.3    | 50.5    | 50.6    | 50.8    |
| GE 400     |  |                                  | 34.7     | 39.6     | 47.6     | 49.1     | 50.4     | 53.1     | 54.1     | 54.6     | 55.4     | 55.5     | 55.8     | 55.9    | 56.2    | 56.3    | 56.4    |
| GE 350     |  |                                  | 34.9     | 40.8     | 49.4     | 51.0     | 52.3     | 55.5     | 56.7     | 57.2     | 58.2     | 58.3     | 58.6     | 58.7    | 59.0    | 59.1    | 59.2    |
| GE 300     |  |                                  | 39.7     | 46.3     | 56.5     | 58.5     | 60.0     | 63.7     | 65.4     | 66.0     | 67.0     | 67.1     | 67.5     | 67.6    | 67.8    | 67.9    | 68.0    |
| GE 250     |  |                                  | 40.0     | 46.7     | 57.1     | 59.6     | 61.2     | 64.9     | 66.7     | 67.3     | 68.3     | 68.4     | 68.8     | 68.9    | 69.1    | 69.2    | 69.3    |
| GE 200     |  |                                  | 42.3     | 50.4     | 61.3     | 64.6     | 66.5     | 70.2     | 72.4     | 73.3     | 74.3     | 74.4     | 74.8     | 74.9    | 75.2    | 75.3    | 75.4    |
| GE 180     |  |                                  | 42.9     | 51.0     | 61.9     | 65.1     | 67.1     | 70.7     | 72.9     | 73.9     | 74.9     | 74.9     | 75.4     | 75.5    | 75.7    | 75.8    | 75.9    |
| GE 150     |  |                                  | 43.2     | 52.2     | 63.5     | 66.8     | 68.8     | 72.6     | 74.8     | 75.9     | 77.2     | 77.3     | 77.8     | 77.9    | 78.1    | 78.2    | 78.3    |
| GE 120     |  |                                  | 44.7     | 54.3     | 66.6     | 70.4     | 72.4     | 76.2     | 78.5     | 79.6     | 80.9     | 81.0     | 81.4     | 81.5    | 81.7    | 81.9    | 82.0    |
| GE 100     |  |                                  | 44.9     | 54.5     | 66.8     | 71.0     | 72.9     | 76.8     | 79.4     | 80.6     | 81.9     | 82.0     | 82.4     | 82.5    | 82.7    | 82.8    | 82.9    |
| GE 90      |  |                                  | 45.2     | 54.9     | 67.2     | 71.5     | 73.4     | 77.3     | 80.0     | 81.2     | 82.6     | 82.7     | 83.2     | 83.3    | 83.5    | 83.6    | 83.7    |
| GE 80      |  |                                  | 45.6     | 55.2     | 67.8     | 72.5     | 74.4     | 79.0     | 82.0     | 83.2     | 84.7     | 84.8     | 85.2     | 85.3    | 85.5    | 85.6    | 85.7    |
| GE 70      |  |                                  | 46.0     | 55.9     | 68.7     | 73.3     | 75.5     | 80.1     | 83.0     | 84.3     | 85.9     | 86.0     | 86.4     | 86.5    | 86.7    | 86.8    | 86.9    |
| GE 60      |  |                                  | 46.8     | 56.8     | 70.2     | 74.9     | 77.1     | 82.2     | 85.1     | 86.4     | 87.9     | 88.0     | 88.4     | 88.6    | 88.8    | 88.9    | 89.0    |
| GE 50      |  |                                  | 47.1     | 57.7     | 71.5     | 76.6     | 78.8     | 84.2     | 87.5     | 88.8     | 90.7     | 90.4     | 90.8     | 90.9    | 91.1    | 91.3    | 91.7    |
| GE 40      |  |                                  | 47.2     | 57.8     | 72.4     | 77.9     | 80.1     | 85.7     | 89.0     | 90.3     | 92.2     | 92.3     | 92.8     | 92.9    | 93.2    | 93.3    | 94.0    |
| GE 30      |  |                                  | 47.2     | 57.8     | 72.4     | 78.0     | 80.2     | 86.2     | 89.8     | 91.7     | 94.1     | 94.2     | 94.6     | 94.7    | 95.0    | 95.5    | 96.5    |
| GE 20      |  |                                  | 47.2     | 57.8     | 72.4     | 78.0     | 80.2     | 86.2     | 90.0     | 92.3     | 95.0     | 95.7     | 96.1     | 96.7    | 97.1    | 97.6    | 99.2    |
| GE 10      |  |                                  | 47.2     | 57.8     | 72.4     | 78.0     | 80.2     | 86.2     | 90.0     | 92.3     | 95.0     | 95.7     | 96.2     | 96.8    | 97.2    | 97.7    | 99.9    |
| GE 0       |  |                                  | 47.2     | 57.8     | 72.4     | 78.0     | 80.2     | 86.2     | 90.0     | 92.3     | 95.0     | 95.7     | 96.2     | 96.8    | 97.2    | 97.7    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 926

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAR HOURS (LST): 1600-2600

| CEILING  |    | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |
|----------|----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|
| IN       | GT | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE |
| FEET     | 1  | 160                              | 90   | 90   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 17   | 10   | 8    | 5    | 4     | C  |
| NO CEIL  |    | 14.5                             | 16.1 | 18.9 | 20.9 | 21.6 | 22.4 | 23.0 | 23.2 | 24.0 | 24.0 | 24.3 | 24.3 | 24.3 | 24.4 | 24.5  |    |
| GE 25000 |    | 18.2                             | 20.1 | 23.7 | 26.1 | 27.0 | 28.0 | 29.0 | 29.3 | 30.2 | 30.3 | 30.6 | 30.6 | 30.6 | 30.7 | 30.8  |    |
| GE 18000 |    | 18.6                             | 20.6 | 24.2 | 26.6 | 27.6 | 28.5 | 29.5 | 29.8 | 30.7 | 30.8 | 31.1 | 31.1 | 31.1 | 31.2 | 31.4  |    |
| GE 16000 |    | 18.6                             | 20.6 | 24.2 | 26.6 | 27.6 | 28.5 | 29.5 | 29.8 | 30.7 | 30.8 | 31.1 | 31.1 | 31.1 | 31.2 | 31.4  |    |
| GE 14000 |    | 18.8                             | 20.9 | 24.5 | 26.9 | 27.9 | 28.9 | 29.8 | 30.2 | 31.0 | 31.1 | 31.5 | 31.5 | 31.5 | 31.6 | 31.7  |    |
| GE 12000 |    | 18.8                             | 20.9 | 24.5 | 26.9 | 27.9 | 28.9 | 29.9 | 30.3 | 31.1 | 31.2 | 31.6 | 31.6 | 31.6 | 31.7 | 31.8  |    |
| GE 10000 |    | 19.9                             | 21.9 | 26.2 | 28.5 | 29.5 | 30.7 | 31.8 | 32.1 | 33.0 | 33.1 | 33.4 | 33.4 | 33.4 | 33.5 | 33.6  |    |
| GE 9000  |    | 20.4                             | 22.5 | 27.0 | 29.5 | 30.6 | 31.8 | 32.9 | 33.2 | 34.1 | 34.2 | 34.5 | 34.5 | 34.5 | 34.6 | 34.7  |    |
| GE 8000  |    | 23.1                             | 25.8 | 31.9 | 34.9 | 36.0 | 37.4 | 38.6 | 38.9 | 39.8 | 39.9 | 40.2 | 40.3 | 40.3 | 40.5 | 40.6  |    |
| GE 7000  |    | 24.1                             | 26.9 | 33.1 | 36.1 | 37.2 | 38.6 | 39.8 | 40.1 | 41.1 | 41.3 | 41.6 | 41.8 | 41.8 | 42.1 | 42.2  |    |
| GE 6000  |    | 24.2                             | 27.0 | 33.3 | 36.3 | 37.4 | 38.8 | 40.1 | 40.4 | 41.4 | 41.6 | 41.9 | 42.2 | 42.2 | 42.4 | 42.5  |    |
| GE 5000  |    | 25.6                             | 28.4 | 34.7 | 37.7 | 38.8 | 40.5 | 42.1 | 42.4 | 43.5 | 43.8 | 44.1 | 44.3 | 44.3 | 44.8 | 44.9  |    |
| GE 4500  |    | 26.3                             | 29.2 | 35.7 | 38.8 | 39.9 | 41.6 | 43.2 | 43.6 | 44.6 | 45.0 | 45.3 | 45.5 | 45.5 | 45.9 | 46.1  |    |
| GE 4000  |    | 30.7                             | 33.8 | 41.8 | 45.2 | 46.4 | 48.3 | 50.2 | 50.5 | 51.8 | 52.1 | 52.4 | 52.6 | 52.6 | 53.1 | 53.2  |    |
| GE 3500  |    | 32.4                             | 36.0 | 44.8 | 48.1 | 49.3 | 51.6 | 53.5 | 54.1 | 55.6 | 55.9 | 56.2 | 56.4 | 56.6 | 57.3 | 57.5  |    |
| GE 3000  |    | 36.8                             | 41.1 | 50.9 | 54.8 | 56.4 | 59.6 | 61.8 | 62.5 | 64.6 | 65.1 | 65.4 | 65.6 | 65.8 | 66.5 | 66.7  |    |
| GE 2500  |    | 37.4                             | 42.1 | 52.0 | 56.1 | 57.7 | 60.9 | 63.1 | 63.8 | 65.9 | 66.4 | 66.7 | 66.9 | 67.1 | 67.8 | 68.0  |    |
| GE 2000  |    | 38.7                             | 44.0 | 54.8 | 59.6 | 61.4 | 64.6 | 67.4 | 68.1 | 70.4 | 70.8 | 71.1 | 71.4 | 71.6 | 72.2 | 72.4  |    |
| GE 1800  |    | 38.8                             | 44.3 | 55.1 | 60.1 | 62.1 | 65.3 | 68.0 | 68.8 | 71.0 | 71.5 | 71.8 | 72.0 | 72.2 | 72.9 | 73.1  |    |
| GE 1500  |    | 39.2                             | 45.0 | 56.4 | 62.3 | 64.3 | 68.0 | 71.0 | 71.8 | 74.1 | 74.5 | 74.8 | 75.0 | 75.2 | 75.9 | 76.1  |    |
| GE 1200  |    | 40.9                             | 47.0 | 59.8 | 66.1 | 68.3 | 72.1 | 75.4 | 76.1 | 78.5 | 78.9 | 79.2 | 79.5 | 79.7 | 80.3 | 80.5  |    |
| GE 1000  |    | 41.9                             | 48.3 | 61.8 | 68.2 | 70.5 | 74.6 | 78.1 | 78.8 | 81.2 | 81.6 | 81.9 | 82.2 | 82.4 | 83.0 | 83.2  |    |
| GE 900   |    | 42.1                             | 48.4 | 61.9 | 68.6 | 70.9 | 75.1 | 78.6 | 79.4 | 81.9 | 82.4 | 82.7 | 82.9 | 83.1 | 83.8 | 84.0  |    |
| GE 800   |    | 42.4                             | 48.9 | 62.6 | 69.5 | 71.9 | 76.3 | 79.8 | 80.5 | 83.1 | 83.7 | 84.0 | 84.2 | 84.4 | 85.1 | 85.3  |    |
| GE 700   |    | 42.6                             | 49.1 | 63.0 | 70.1 | 72.5 | 77.0 | 80.4 | 81.2 | 83.9 | 84.6 | 85.0 | 85.2 | 85.4 | 86.1 | 86.3  |    |
| GE 600   |    | 42.9                             | 49.5 | 63.7 | 71.5 | 73.9 | 78.4 | 82.4 | 83.6 | 86.3 | 87.0 | 87.4 | 87.7 | 88.0 | 88.6 | 88.9  |    |
| GE 500   |    | 43.4                             | 50.2 | 64.4 | 72.9 | 75.5 | 80.2 | 84.5 | 85.7 | 88.6 | 89.7 | 90.1 | 90.4 | 90.7 | 91.4 | 92.0  |    |
| GE 400   |    | 43.5                             | 50.3 | 64.8 | 73.3 | 76.0 | 81.2 | 85.8 | 87.1 | 90.4 | 91.5 | 91.9 | 92.2 | 92.5 | 93.2 | 93.8  |    |
| GE 300   |    | 43.6                             | 50.4 | 65.0 | 73.6 | 76.4 | 81.6 | 86.5 | 87.8 | 91.1 | 92.5 | 93.0 | 93.3 | 93.7 | 94.4 | 95.9  |    |
| GE 200   |    | 43.6                             | 50.4 | 65.0 | 73.6 | 76.4 | 81.6 | 86.6 | 88.2 | 91.8 | 93.2 | 94.2 | 94.5 | 95.5 | 96.2 | 96.8  |    |
| GE 100   |    | 43.6                             | 50.4 | 65.0 | 73.6 | 76.4 | 81.6 | 86.6 | 88.2 | 91.8 | 93.2 | 94.2 | 94.5 | 95.6 | 96.8 | 100.0 |    |
| GE C     |    | 43.6                             | 50.4 | 65.0 | 73.6 | 76.4 | 81.6 | 86.6 | 88.2 | 91.8 | 93.2 | 94.2 | 94.5 | 95.6 | 96.8 | 100.0 |    |

TOTAL NUMBER OF OBSERVATIONS: 925



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(IST): 0900-1100

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|----------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN       | FEET | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL  | 1    |                                  | 14.2     | 15.4     | 16.3     | 19.7     | 20.0     | 20.6     | 21.3     | 21.6     | 22.0     | 22.0     | 22.2     | 22.2    | 22.2    | 22.2    | 22.2    |
| GE 20000 |      |                                  | 18.3     | 19.6     | 23.7     | 25.4     | 26.4     | 27.2     | 28.2     | 28.8     | 29.1     | 29.1     | 29.3     | 29.3    | 29.3    | 29.3    | 29.3    |
| GE 18000 |      |                                  | 18.6     | 20.1     | 24.0     | 25.8     | 26.7     | 27.5     | 28.6     | 29.1     | 29.4     | 29.4     | 29.7     | 29.7    | 29.7    | 29.7    | 29.7    |
| GE 16000 |      |                                  | 18.6     | 20.1     | 24.0     | 25.8     | 26.7     | 27.5     | 28.6     | 29.1     | 29.4     | 29.4     | 29.7     | 29.7    | 29.7    | 29.7    | 29.7    |
| GE 14000 |      |                                  | 18.9     | 20.5     | 24.4     | 26.1     | 27.1     | 27.8     | 28.9     | 29.4     | 29.6     | 29.6     | 30.0     | 30.0    | 30.0    | 30.0    | 30.0    |
| GE 12000 |      |                                  | 19.4     | 21.0     | 24.9     | 26.6     | 27.6     | 28.4     | 29.4     | 30.0     | 30.3     | 30.3     | 30.5     | 30.5    | 30.5    | 30.5    | 30.5    |
| GE 10000 |      |                                  | 20.6     | 22.2     | 26.4     | 28.4     | 29.4     | 30.2     | 31.3     | 31.8     | 32.1     | 32.1     | 32.4     | 32.4    | 32.4    | 32.4    | 32.4    |
| GE 9000  |      |                                  | 20.8     | 22.4     | 26.6     | 28.6     | 29.7     | 30.7     | 31.8     | 32.4     | 32.7     | 32.7     | 32.9     | 32.9    | 32.9    | 32.9    | 32.9    |
| GE 8000  |      |                                  | 24.2     | 26.5     | 31.7     | 34.0     | 35.1     | 36.5     | 37.9     | 38.5     | 38.9     | 38.9     | 39.1     | 39.1    | 39.1    | 39.1    | 39.1    |
| GE 7000  |      |                                  | 25.0     | 27.5     | 32.7     | 35.3     | 36.5     | 37.9     | 39.4     | 40.0     | 40.4     | 40.4     | 40.6     | 40.6    | 40.6    | 40.6    | 40.6    |
| GE 6000  |      |                                  | 25.1     | 27.6     | 32.8     | 35.5     | 36.7     | 38.1     | 39.8     | 40.5     | 40.8     | 40.8     | 41.0     | 41.0    | 41.0    | 41.0    | 41.0    |
| GE 5000  |      |                                  | 25.9     | 28.6     | 33.9     | 36.8     | 38.0     | 39.4     | 41.1     | 41.8     | 42.1     | 42.1     | 42.3     | 42.3    | 42.3    | 42.3    | 42.3    |
| GE 4500  |      |                                  | 26.2     | 29.1     | 34.4     | 37.6     | 38.7     | 40.3     | 42.0     | 42.6     | 43.0     | 43.0     | 43.2     | 43.2    | 43.2    | 43.2    | 43.2    |
| GE 4000  |      |                                  | 29.1     | 32.4     | 39.4     | 43.2     | 44.6     | 46.3     | 48.3     | 48.9     | 49.4     | 49.4     | 49.6     | 49.6    | 49.6    | 49.6    | 49.6    |
| GE 3500  |      |                                  | 31.8     | 35.3     | 43.0     | 47.0     | 48.6     | 50.4     | 52.5     | 53.1     | 53.7     | 53.9     | 54.1     | 54.1    | 54.1    | 54.1    | 54.1    |
| GE 3000  |      |                                  | 39.9     | 43.7     | 51.9     | 56.3     | 58.2     | 60.7     | 63.0     | 63.6     | 64.3     | 64.6     | 64.8     | 64.8    | 64.8    | 64.8    | 64.8    |
| GE 2500  |      |                                  | 41.1     | 45.1     | 53.5     | 57.9     | 59.8     | 62.3     | 64.6     | 65.3     | 65.9     | 66.2     | 66.5     | 66.5    | 66.5    | 66.5    | 66.5    |
| GE 2000  |      |                                  | 44.2     | 48.4     | 57.4     | 63.2     | 65.6     | 68.3     | 70.8     | 71.4     | 72.1     | 72.5     | 72.7     | 72.7    | 72.7    | 72.7    | 72.7    |
| GE 1800  |      |                                  | 44.9     | 49.2     | 58.2     | 64.3     | 66.8     | 69.5     | 72.0     | 72.6     | 73.3     | 73.7     | 73.9     | 73.9    | 73.9    | 73.9    | 73.9    |
| GE 1500  |      |                                  | 45.8     | 50.8     | 60.6     | 67.7     | 70.2     | 73.2     | 76.1     | 76.7     | 77.4     | 77.8     | 78.0     | 78.0    | 78.0    | 78.0    | 78.0    |
| GE 1200  |      |                                  | 47.5     | 53.6     | 64.5     | 71.8     | 74.4     | 77.6     | 80.6     | 81.3     | 82.1     | 82.6     | 82.6     | 82.8    | 82.8    | 82.8    | 82.8    |
| GE 1000  |      |                                  | 48.3     | 54.3     | 65.8     | 73.6     | 76.2     | 80.0     | 83.0     | 83.7     | 84.6     | 85.1     | 85.3     | 85.3    | 85.3    | 85.3    | 85.3    |
| GE 900   |      |                                  | 48.5     | 54.7     | 66.1     | 74.0     | 76.6     | 80.6     | 83.7     | 84.3     | 85.3     | 86.0     | 86.3     | 86.3    | 86.3    | 86.3    | 86.3    |
| GE 800   |      |                                  | 48.8     | 55.0     | 66.8     | 74.7     | 77.6     | 81.5     | 84.7     | 85.4     | 86.5     | 87.2     | 87.4     | 87.4    | 87.4    | 87.4    | 87.4    |
| GE 700   |      |                                  | 49.0     | 55.6     | 67.6     | 75.8     | 78.7     | 83.0     | 86.3     | 86.9     | 88.1     | 89.2     | 89.4     | 89.4    | 89.4    | 89.4    | 89.4    |
| GE 600   |      |                                  | 49.1     | 55.8     | 68.2     | 76.5     | 79.5     | 84.0     | 87.6     | 88.4     | 89.8     | 91.2     | 91.5     | 91.5    | 91.5    | 91.5    | 91.5    |
| GE 500   |      |                                  | 49.4     | 56.1     | 69.0     | 78.1     | 81.3     | 86.1     | 90.0     | 90.9     | 92.4     | 94.2     | 94.5     | 94.5    | 94.5    | 94.5    | 94.5    |
| GE 400   |      |                                  | 49.4     | 56.1     | 69.4     | 78.5     | 81.6     | 86.4     | 90.7     | 91.8     | 94.2     | 96.0     | 96.3     | 96.3    | 96.3    | 96.3    | 96.3    |
| GE 300   |      |                                  | 49.4     | 56.1     | 69.4     | 78.7     | 81.6     | 86.6     | 91.0     | 92.2     | 94.9     | 96.9     | 97.3     | 97.3    | 97.6    | 97.7    | 98.6    |
| GE 200   |      |                                  | 49.4     | 56.1     | 69.4     | 78.7     | 81.6     | 86.6     | 91.0     | 92.2     | 95.2     | 97.2     | 97.6     | 97.8    | 98.5    | 98.6    | 99.7    |
| GE 100   |      |                                  | 49.4     | 56.1     | 69.4     | 78.7     | 81.6     | 86.6     | 91.0     | 92.2     | 95.2     | 97.2     | 97.6     | 97.8    | 98.5    | 98.7    | 100.0   |
| GE       | 0    |                                  | 49.4     | 56.1     | 69.4     | 78.7     | 81.6     | 86.6     | 91.0     | 92.2     | 95.2     | 97.2     | 97.6     | 97.8    | 98.5    | 98.7    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 964

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-67  
MONTH: MAR HOURS(IST): 1200-1400

| CEILING    |            | VISIBILITY IN HUNDREDS OF METERS |           |           |           |           |           |           |           |           |           |           |           |          |          |          |          |
|------------|------------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|
| IN<br>FEET | GT<br>1600 | GE<br>900                        | GE<br>800 | GE<br>700 | GE<br>600 | GE<br>500 | GE<br>400 | GE<br>320 | GE<br>240 | GE<br>200 | GE<br>160 | GE<br>120 | GE<br>100 | GE<br>80 | GE<br>50 | GE<br>40 | GE<br>30 |
| NO CEIL    |            | 12.8                             | 14.3      | 15.2      | 17.4      | 18.0      | 18.4      | 19.3      | 19.3      | 19.4      | 19.4      | 19.4      | 19.4      | 19.4     | 19.4     | 19.4     | 19.4     |
| GE 20000   |            | 17.6                             | 19.4      | 21.8      | 24.5      | 25.2      | 25.8      | 26.6      | 26.6      | 26.7      | 26.7      | 26.7      | 26.7      | 26.7     | 26.7     | 26.7     | 26.7     |
| GE 18000   |            | 17.7                             | 19.5      | 21.9      | 24.6      | 25.3      | 25.9      | 26.7      | 26.7      | 26.8      | 26.8      | 26.8      | 26.8      | 26.8     | 26.8     | 26.8     | 26.8     |
| GE 16000   |            | 17.7                             | 19.5      | 21.9      | 24.6      | 25.3      | 25.9      | 26.7      | 26.7      | 26.8      | 26.8      | 26.8      | 26.8      | 26.8     | 26.8     | 26.8     | 26.8     |
| GE 14000   |            | 17.9                             | 19.7      | 22.2      | 24.9      | 25.6      | 26.2      | 27.1      | 27.1      | 27.2      | 27.2      | 27.2      | 27.2      | 27.2     | 27.2     | 27.2     | 27.2     |
| GE 12000   |            | 17.9                             | 19.8      | 22.3      | 25.0      | 25.8      | 26.3      | 27.2      | 27.2      | 27.3      | 27.3      | 27.3      | 27.3      | 27.3     | 27.3     | 27.3     | 27.3     |
| GE 10000   |            | 19.0                             | 21.0      | 23.5      | 26.2      | 26.9      | 27.5      | 28.4      | 28.4      | 28.5      | 28.5      | 28.5      | 28.5      | 28.5     | 28.5     | 28.5     | 28.5     |
| GE 9000    |            | 20.0                             | 22.2      | 24.7      | 27.4      | 28.1      | 28.7      | 29.5      | 29.5      | 29.7      | 29.7      | 29.7      | 29.7      | 29.7     | 29.7     | 29.7     | 29.7     |
| GE 8000    |            | 22.9                             | 25.5      | 28.6      | 31.8      | 32.6      | 33.1      | 34.1      | 34.1      | 34.2      | 34.2      | 34.2      | 34.2      | 34.2     | 34.2     | 34.2     | 34.2     |
| GE 7000    |            | 23.1                             | 25.8      | 28.9      | 32.3      | 33.0      | 33.7      | 34.6      | 34.6      | 34.7      | 34.7      | 34.7      | 34.7      | 34.7     | 34.7     | 34.7     | 34.7     |
| GE 6000    |            | 23.1                             | 25.8      | 29.2      | 32.6      | 33.3      | 34.0      | 35.0      | 35.0      | 35.1      | 35.1      | 35.1      | 35.1      | 35.1     | 35.1     | 35.1     | 35.1     |
| GE 5000    |            | 23.7                             | 26.5      | 30.3      | 33.7      | 34.4      | 35.1      | 36.0      | 36.0      | 36.1      | 36.1      | 36.1      | 36.1      | 36.1     | 36.1     | 36.1     | 36.1     |
| GE 4500    |            | 23.8                             | 26.6      | 30.4      | 33.8      | 34.5      | 35.2      | 36.1      | 36.1      | 36.3      | 36.3      | 36.3      | 36.3      | 36.3     | 36.3     | 36.3     | 36.3     |
| GE 4000    |            | 27.5                             | 30.8      | 35.7      | 40.0      | 40.9      | 41.7      | 42.7      | 42.7      | 42.9      | 42.9      | 42.9      | 42.9      | 42.9     | 42.9     | 42.9     | 42.9     |
| GE 3500    |            | 31.2                             | 35.0      | 40.4      | 44.7      | 45.8      | 46.8      | 47.8      | 47.8      | 47.9      | 47.9      | 47.9      | 47.9      | 47.9     | 47.9     | 47.9     | 47.9     |
| GE 3000    |            | 46.5                             | 50.8      | 57.4      | 61.8      | 63.2      | 64.3      | 65.5      | 65.5      | 65.6      | 65.6      | 65.6      | 65.6      | 65.6     | 65.6     | 65.6     | 65.6     |
| GE 2500    |            | 48.7                             | 52.9      | 59.6      | 64.1      | 65.7      | 66.8      | 68.0      | 68.0      | 68.1      | 68.1      | 68.1      | 68.1      | 68.1     | 68.1     | 68.1     | 68.1     |
| GE 2000    |            | 53.4                             | 58.0      | 66.0      | 72.6      | 74.5      | 76.1      | 77.4      | 77.5      | 77.6      | 77.7      | 77.7      | 77.7      | 77.7     | 77.7     | 77.7     | 77.7     |
| GE 1800    |            | 54.1                             | 58.9      | 67.0      | 73.8      | 75.6      | 77.4      | 78.7      | 78.8      | 78.9      | 79.0      | 79.0      | 79.0      | 79.0     | 79.0     | 79.0     | 79.0     |
| GE 1500    |            | 56.4                             | 61.8      | 70.8      | 78.4      | 80.3      | 82.1      | 83.7      | 83.8      | 83.9      | 84.0      | 84.0      | 84.0      | 84.0     | 84.0     | 84.0     | 84.0     |
| GE 1200    |            | 58.7                             | 64.7      | 74.6      | 82.6      | 84.7      | 86.7      | 88.3      | 88.5      | 88.6      | 88.7      | 88.7      | 88.7      | 88.7     | 88.7     | 88.7     | 88.7     |
| GE 1000    |            | 59.0                             | 65.2      | 75.5      | 84.0      | 86.1      | 88.4      | 90.2      | 90.7      | 90.8      | 90.9      | 90.9      | 90.9      | 90.9     | 90.9     | 90.9     | 90.9     |
| GE 900     |            | 59.4                             | 65.7      | 76.2      | 84.7      | 86.9      | 89.3      | 91.0      | 91.7      | 92.4      | 92.6      | 92.6      | 92.6      | 92.6     | 92.6     | 92.6     | 92.6     |
| GE 800     |            | 59.4                             | 65.7      | 76.3      | 85.1      | 87.2      | 89.8      | 91.6      | 92.4      | 93.2      | 93.4      | 93.4      | 93.4      | 93.4     | 93.4     | 93.4     | 93.4     |
| GE 700     |            | 60.0                             | 66.2      | 77.2      | 86.3      | 88.4      | 91.3      | 93.2      | 94.2      | 95.0      | 95.3      | 95.3      | 95.3      | 95.3     | 95.3     | 95.3     | 95.3     |
| GE 600     |            | 60.0                             | 66.5      | 77.4      | 86.6      | 88.9      | 91.9      | 93.8      | 94.8      | 95.9      | 96.4      | 96.5      | 96.5      | 96.5     | 96.5     | 96.5     | 96.5     |
| GE 500     |            | 60.1                             | 66.6      | 78.0      | 87.3      | 89.6      | 93.0      | 95.1      | 96.1      | 97.5      | 98.1      | 98.2      | 98.2      | 98.2     | 98.2     | 98.2     | 98.2     |
| GE 400     |            | 60.1                             | 66.6      | 78.0      | 87.3      | 89.6      | 93.0      | 95.7      | 96.6      | 98.1      | 98.7      | 98.8      | 98.9      | 99.1     | 99.1     | 99.1     | 99.1     |
| GE 300     |            | 60.1                             | 66.6      | 78.0      | 87.3      | 89.6      | 93.0      | 95.8      | 96.8      | 98.2      | 99.0      | 99.1      | 99.2      | 99.5     | 99.6     | 99.6     | 99.6     |
| GE 200     |            | 60.1                             | 66.6      | 78.0      | 87.3      | 89.6      | 93.0      | 95.8      | 96.8      | 98.2      | 99.0      | 99.5      | 99.6      | 99.8     | 99.9     | 99.9     | 99.9     |
| GE 100     |            | 60.1                             | 66.6      | 78.0      | 87.3      | 89.6      | 93.0      | 95.8      | 96.8      | 98.2      | 99.0      | 99.5      | 99.6      | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 0       |            | 60.1                             | 66.6      | 78.0      | 87.3      | 89.6      | 93.0      | 95.8      | 96.8      | 98.2      | 99.0      | 99.5      | 99.6      | 99.9     | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAR HOURS (LST): 1500-1700

| CEILING<br>IN<br>FEET | GT<br>160 | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |         |         |         |         |         |         |
|-----------------------|-----------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|
|                       |           | GE<br>90                         | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>3 | GE<br>2 | GE<br>1 |
| NO CEIL               |           | 15.6                             | 17.2     | 17.9     | 20.2     | 20.6     | 21.5     | 22.3     | 22.3     | 22.3     | 22.3     | 22.3    | 22.3    | 22.3    | 22.3    | 22.5    |         |
| GE 20000              |           | 21.4                             | 23.7     | 24.8     | 27.7     | 28.1     | 29.9     | 31.1     | 31.1     | 31.1     | 31.1     | 31.1    | 31.1    | 31.1    | 31.1    | 31.4    |         |
| GE 18000              |           | 21.6                             | 23.9     | 25.6     | 27.9     | 28.3     | 30.2     | 31.4     | 31.4     | 31.4     | 31.4     | 31.4    | 31.4    | 31.4    | 31.4    | 31.6    |         |
| GE 16000              |           | 21.6                             | 23.9     | 25.0     | 27.9     | 28.3     | 30.2     | 31.4     | 31.4     | 31.4     | 31.4     | 31.4    | 31.4    | 31.4    | 31.4    | 31.6    |         |
| GE 14000              |           | 21.6                             | 23.9     | 25.1     | 28.0     | 28.4     | 30.3     | 31.5     | 31.5     | 31.5     | 31.5     | 31.5    | 31.5    | 31.5    | 31.5    | 31.7    |         |
| GE 12000              |           | 21.9                             | 24.2     | 25.4     | 28.4     | 28.9     | 30.7     | 31.9     | 31.9     | 31.9     | 31.9     | 31.9    | 31.9    | 31.9    | 31.9    | 32.1    |         |
| GE 10000              |           | 22.5                             | 24.8     | 25.9     | 29.0     | 29.4     | 31.4     | 32.5     | 32.5     | 32.5     | 32.5     | 32.5    | 32.5    | 32.5    | 32.5    | 32.8    |         |
| GE 9000               |           | 22.8                             | 25.1     | 26.4     | 29.4     | 29.8     | 31.8     | 33.0     | 33.0     | 33.0     | 33.0     | 33.0    | 33.0    | 33.0    | 33.0    | 33.2    |         |
| GE 8000               |           | 27.1                             | 29.9     | 31.8     | 35.5     | 36.1     | 38.2     | 39.5     | 39.5     | 39.5     | 39.5     | 39.5    | 39.5    | 39.5    | 39.5    | 39.7    |         |
| GE 7000               |           | 28.5                             | 31.4     | 33.3     | 37.0     | 37.6     | 39.7     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0    | 41.0    | 41.0    | 41.0    | 41.2    |         |
| GE 6000               |           | 28.6                             | 31.5     | 33.4     | 37.1     | 37.7     | 39.8     | 41.1     | 41.1     | 41.1     | 41.1     | 41.1    | 41.1    | 41.1    | 41.1    | 41.3    |         |
| GE 5000               |           | 29.5                             | 32.8     | 34.8     | 38.6     | 39.2     | 41.3     | 42.6     | 42.6     | 42.6     | 42.6     | 42.6    | 42.6    | 42.6    | 42.6    | 42.8    |         |
| GE 4000               |           | 30.2                             | 33.4     | 35.8     | 39.8     | 40.5     | 42.6     | 43.9     | 43.9     | 43.9     | 43.9     | 43.9    | 43.9    | 43.9    | 43.9    | 44.1    |         |
| GE 3000               |           | 34.7                             | 38.6     | 42.1     | 46.3     | 47.2     | 49.6     | 51.0     | 51.0     | 51.0     | 51.0     | 51.0    | 51.0    | 51.0    | 51.0    | 51.2    |         |
| GE 2000               |           | 39.1                             | 43.5     | 47.4     | 51.8     | 52.6     | 55.2     | 56.6     | 56.6     | 56.6     | 56.6     | 56.6    | 56.6    | 56.6    | 56.6    | 56.9    |         |
| GE 1000               |           | 50.8                             | 55.9     | 60.5     | 65.5     | 66.7     | 69.2     | 70.6     | 70.6     | 70.6     | 70.6     | 70.6    | 70.6    | 70.6    | 70.6    | 70.8    |         |
| GE 2500               |           | 52.4                             | 57.7     | 62.7     | 67.8     | 69.0     | 71.5     | 73.1     | 73.2     | 73.2     | 73.2     | 73.2    | 73.2    | 73.2    | 73.2    | 73.4    |         |
| GE 2000               |           | 57.5                             | 62.9     | 69.1     | 75.7     | 77.0     | 79.8     | 81.4     | 81.5     | 81.5     | 81.5     | 81.5    | 81.5    | 81.5    | 81.5    | 81.7    |         |
| GE 1800               |           | 57.7                             | 63.1     | 69.4     | 76.1     | 77.4     | 80.2     | 81.8     | 81.9     | 81.9     | 81.9     | 81.9    | 81.9    | 81.9    | 81.9    | 82.2    |         |
| GE 1500               |           | 59.5                             | 65.2     | 71.9     | 78.8     | 80.2     | 83.1     | 84.8     | 84.9     | 84.9     | 84.9     | 84.9    | 84.9    | 84.9    | 84.9    | 85.1    |         |
| GE 1200               |           | 61.6                             | 68.0     | 75.2     | 82.8     | 84.9     | 88.1     | 90.4     | 90.5     | 90.5     | 90.5     | 90.5    | 90.5    | 90.5    | 90.5    | 90.7    |         |
| GE 1000               |           | 61.6                             | 68.3     | 76.1     | 84.3     | 86.4     | 90.1     | 92.3     | 92.6     | 93.0     | 93.0     | 93.0    | 93.0    | 93.0    | 93.0    | 93.2    |         |
| GE 900                |           | 61.9                             | 68.8     | 76.6     | 85.0     | 87.1     | 90.8     | 93.1     | 93.4     | 93.9     | 93.9     | 93.9    | 93.9    | 93.9    | 93.9    | 94.2    |         |
| GE 800                |           | 62.2                             | 69.0     | 77.3     | 85.8     | 88.0     | 91.7     | 94.1     | 94.4     | 94.9     | 94.9     | 94.9    | 94.9    | 94.9    | 94.9    | 95.1    |         |
| GE 700                |           | 62.6                             | 69.4     | 77.9     | 86.9     | 89.1     | 93.2     | 95.8     | 96.1     | 96.9     | 96.9     | 96.9    | 96.9    | 96.9    | 96.9    | 97.1    |         |
| GE 600                |           | 62.6                             | 69.4     | 77.9     | 87.1     | 89.3     | 93.4     | 96.1     | 96.5     | 97.3     | 97.3     | 97.3    | 97.3    | 97.3    | 97.3    | 97.6    |         |
| GE 500                |           | 62.7                             | 69.5     | 78.2     | 87.6     | 89.9     | 94.4     | 97.1     | 97.5     | 98.3     | 98.4     | 98.5    | 98.5    | 98.5    | 98.5    | 98.7    |         |
| GE 400                |           | 62.7                             | 69.5     | 78.2     | 87.6     | 89.9     | 94.4     | 97.2     | 97.6     | 98.4     | 98.7     | 98.9    | 98.9    | 98.9    | 98.9    | 99.2    |         |
| GE 300                |           | 62.7                             | 69.5     | 78.2     | 87.6     | 89.9     | 94.4     | 97.4     | 97.9     | 98.7     | 99.0     | 99.4    | 99.5    | 99.5    | 99.5    | 99.8    |         |
| GE 200                |           | 62.7                             | 69.5     | 78.2     | 87.6     | 89.9     | 94.4     | 97.4     | 97.9     | 98.9     | 99.2     | 99.6    | 99.7    | 99.7    | 99.7    | 100.0   |         |
| GE 100                |           | 62.7                             | 69.5     | 78.2     | 87.6     | 89.9     | 94.4     | 97.4     | 97.9     | 98.9     | 99.2     | 99.6    | 99.7    | 99.7    | 99.7    | 100.0   |         |
| GE 0                  |           | 62.7                             | 69.5     | 78.2     | 87.6     | 89.9     | 94.4     | 97.4     | 97.9     | 98.9     | 99.2     | 99.6    | 99.7    | 99.7    | 99.7    | 100.0   |         |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF RENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS (LST): 1800-2400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 23.7                             | 26.2     | 28.9     | 30.7     | 31.1     | 31.8     | 32.8     | 33.3     | 33.4     | 33.5     | 33.5     | 33.5     | 33.7    | 33.7    | 33.7    |         |
| GE 2000               | 27.4                             | 30.1     | 33.8     | 35.8     | 36.1     | 37.3     | 39.3     | 39.8     | 40.3     | 40.5     | 40.5     | 40.5     | 40.6    | 40.6    | 40.6    |         |
| GE 1800               | 27.4                             | 30.1     | 33.8     | 35.8     | 36.1     | 37.3     | 39.3     | 39.8     | 40.3     | 40.5     | 40.5     | 40.5     | 40.6    | 40.6    | 40.6    |         |
| GE 1600               | 27.4                             | 30.1     | 33.8     | 35.8     | 36.1     | 37.3     | 39.3     | 39.8     | 40.3     | 40.5     | 40.5     | 40.5     | 40.6    | 40.6    | 40.6    |         |
| GE 1400               | 27.4                             | 30.1     | 33.8     | 35.8     | 36.1     | 37.3     | 39.3     | 39.8     | 40.3     | 40.5     | 40.5     | 40.5     | 40.6    | 40.6    | 40.6    |         |
| GE 1200               | 27.7                             | 30.4     | 34.1     | 36.1     | 36.5     | 37.6     | 39.6     | 40.1     | 40.7     | 40.8     | 40.8     | 40.8     | 40.9    | 40.9    | 40.9    |         |
| GE 1000               | 29.0                             | 31.7     | 35.4     | 37.6     | 38.0     | 39.2     | 41.1     | 41.7     | 42.5     | 42.6     | 42.6     | 42.6     | 42.7    | 42.7    | 42.7    |         |
| GE 900                | 29.1                             | 31.8     | 35.5     | 37.8     | 38.1     | 39.3     | 41.2     | 41.9     | 42.6     | 42.7     | 42.7     | 42.7     | 42.8    | 42.8    | 42.8    |         |
| GE 800                | 32.7                             | 35.7     | 40.0     | 42.9     | 43.3     | 44.7     | 47.0     | 47.7     | 48.4     | 48.5     | 48.5     | 48.5     | 48.7    | 48.7    | 48.7    |         |
| GE 700                | 33.5                             | 36.6     | 41.0     | 43.9     | 44.2     | 45.6     | 48.0     | 48.7     | 49.4     | 49.5     | 49.5     | 49.5     | 49.6    | 49.6    | 49.6    |         |
| GE 600                | 33.7                             | 36.7     | 41.1     | 44.0     | 44.3     | 45.7     | 48.1     | 48.8     | 49.5     | 49.6     | 49.6     | 49.6     | 49.7    | 49.7    | 49.7    |         |
| GE 500                | 35.6                             | 39.1     | 43.6     | 46.5     | 46.8     | 48.2     | 50.7     | 51.3     | 52.1     | 52.2     | 52.2     | 52.2     | 52.3    | 52.3    | 52.3    |         |
| GE 400                | 36.0                             | 39.5     | 44.0     | 47.1     | 47.8     | 49.2     | 51.7     | 52.3     | 53.1     | 53.2     | 53.2     | 53.2     | 53.3    | 53.3    | 53.3    |         |
| GE 300                | 41.0                             | 45.1     | 50.7     | 54.2     | 54.8     | 56.4     | 59.1     | 59.8     | 60.5     | 60.6     | 60.6     | 60.6     | 60.7    | 60.7    | 60.7    |         |
| GE 250                | 44.0                             | 48.3     | 54.2     | 57.6     | 58.3     | 59.9     | 63.1     | 63.8     | 64.5     | 64.6     | 64.6     | 64.6     | 64.7    | 64.7    | 64.7    |         |
| GE 200                | 51.7                             | 56.6     | 64.1     | 67.9     | 68.5     | 70.2     | 74.0     | 74.9     | 75.6     | 75.7     | 75.7     | 75.7     | 75.8    | 75.8    | 75.8    |         |
| GE 150                | 52.5                             | 57.7     | 65.7     | 69.8     | 70.4     | 72.4     | 76.4     | 77.2     | 78.0     | 78.1     | 78.1     | 78.1     | 78.2    | 78.2    | 78.2    |         |
| GE 100                | 55.3                             | 61.1     | 70.3     | 75.5     | 76.7     | 78.9     | 83.3     | 84.1     | 85.0     | 85.1     | 85.1     | 85.1     | 85.2    | 85.2    | 85.2    |         |
| GE 50                 | 55.6                             | 61.4     | 70.7     | 75.9     | 77.1     | 79.3     | 83.9     | 84.8     | 85.7     | 85.8     | 85.8     | 85.8     | 85.9    | 85.9    | 85.9    |         |
| GE 0                  | 56.2                             | 62.0     | 72.3     | 77.6     | 78.7     | 80.9     | 85.8     | 86.6     | 87.5     | 87.6     | 87.6     | 87.6     | 87.7    | 87.7    | 87.7    |         |
| GE 1000               | 57.3                             | 63.5     | 74.6     | 80.4     | 81.7     | 84.1     | 89.4     | 90.3     | 91.3     | 91.4     | 91.4     | 91.4     | 91.5    | 91.5    | 91.5    |         |
| GE 1800               | 57.3                             | 63.6     | 75.3     | 81.3     | 82.6     | 85.4     | 90.8     | 91.7     | 92.7     | 92.8     | 92.8     | 92.8     | 93.0    | 93.0    | 93.0    |         |
| GE 1600               | 57.5                             | 63.9     | 75.7     | 81.8     | 83.1     | 85.9     | 91.3     | 92.1     | 93.1     | 93.2     | 93.2     | 93.2     | 93.4    | 93.4    | 93.4    |         |
| GE 1400               | 57.7                             | 64.1     | 76.1     | 82.3     | 83.6     | 87.1     | 92.6     | 93.4     | 94.4     | 94.5     | 94.5     | 94.5     | 94.7    | 94.7    | 94.7    |         |
| GE 1200               | 58.1                             | 64.6     | 76.6     | 83.4     | 84.7     | 88.5     | 94.1     | 94.9     | 95.9     | 96.0     | 96.0     | 96.0     | 96.2    | 96.2    | 96.2    |         |
| GE 1000               | 58.1                             | 64.6     | 76.6     | 83.6     | 84.9     | 88.7     | 94.3     | 95.1     | 96.1     | 96.2     | 96.2     | 96.2     | 96.4    | 96.4    | 96.4    |         |
| GE 800                | 58.1                             | 64.6     | 76.7     | 84.0     | 85.3     | 89.6     | 95.3     | 96.2     | 97.2     | 97.3     | 97.3     | 97.3     | 97.5    | 97.5    | 97.5    |         |
| GE 600                | 58.1                             | 64.6     | 76.7     | 84.0     | 85.3     | 89.6     | 95.4     | 96.3     | 97.3     | 97.4     | 97.4     | 97.4     | 97.5    | 97.7    | 97.7    |         |
| GE 400                | 58.1                             | 64.6     | 76.7     | 84.0     | 85.3     | 89.6     | 95.6     | 96.7     | 97.7     | 97.8     | 97.8     | 97.8     | 98.0    | 98.4    | 98.4    |         |
| GE 200                | 58.1                             | 64.6     | 76.7     | 84.0     | 85.3     | 89.6     | 95.6     | 96.8     | 98.2     | 98.3     | 98.5     | 98.8     | 99.4    | 99.5    | 99.8    |         |
| GE 100                | 58.1                             | 64.6     | 76.7     | 84.0     | 85.3     | 89.6     | 95.6     | 96.8     | 98.2     | 98.3     | 98.5     | 98.8     | 99.4    | 99.5    | 100.0   |         |
| GE 0                  | 58.1                             | 64.6     | 76.7     | 84.0     | 85.3     | 89.6     | 95.6     | 96.8     | 98.2     | 98.3     | 98.5     | 98.8     | 99.4    | 99.5    | 100.0   |         |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(IST): 2100-2300

| CEILING  |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |
|----------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|
| IN       | GT  | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE |
| FEET     | 160 | 90                               | 80   | 60   | 40   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     | 0  |
| NO CEIL  |     | 29.1                             | 31.4 | 34.1 | 36.8 | 37.6 | 39.5 | 40.5 | 40.5 | 40.6 | 40.6 | 40.6 | 40.7 | 40.7 | 40.8 | 40.8  |    |
| GE 20000 |     | 31.9                             | 34.3 | 37.3 | 40.3 | 41.2 | 43.3 | 44.8 | 44.8 | 45.1 | 45.4 | 45.4 | 45.5 | 45.5 | 45.6 | 45.6  |    |
| GE 18000 |     | 31.9                             | 34.3 | 37.3 | 40.3 | 41.2 | 43.3 | 44.8 | 44.8 | 45.1 | 45.4 | 45.4 | 45.5 | 45.5 | 45.6 | 45.6  |    |
| GE 16000 |     | 31.9                             | 34.3 | 37.3 | 40.3 | 41.2 | 43.3 | 44.8 | 44.8 | 45.1 | 45.4 | 45.4 | 45.5 | 45.5 | 45.6 | 45.6  |    |
| GE 14000 |     | 31.9                             | 34.3 | 37.3 | 40.3 | 41.2 | 43.3 | 44.8 | 44.8 | 45.1 | 45.4 | 45.4 | 45.5 | 45.5 | 45.6 | 45.6  |    |
| GE 12000 |     | 32.0                             | 34.4 | 37.4 | 40.5 | 41.3 | 43.4 | 44.9 | 44.9 | 45.2 | 45.5 | 45.5 | 45.6 | 45.6 | 45.7 | 45.7  |    |
| GE 10000 |     | 32.9                             | 35.4 | 38.4 | 41.4 | 42.3 | 44.3 | 45.8 | 45.8 | 46.3 | 46.6 | 46.6 | 46.7 | 46.7 | 46.8 | 46.8  |    |
| GE 9000  |     | 32.9                             | 35.4 | 38.4 | 41.4 | 42.3 | 44.3 | 45.8 | 45.8 | 46.3 | 46.6 | 46.6 | 46.7 | 46.7 | 46.8 | 46.8  |    |
| GE 8000  |     | 36.0                             | 39.3 | 43.3 | 46.4 | 47.5 | 49.5 | 51.0 | 51.0 | 51.5 | 51.8 | 51.8 | 51.9 | 51.9 | 52.0 | 52.0  |    |
| GE 7000  |     | 36.5                             | 39.9 | 43.9 | 47.0 | 48.1 | 50.2 | 51.7 | 52.0 | 52.4 | 52.8 | 52.8 | 52.9 | 52.9 | 53.0 | 53.0  |    |
| GE 6000  |     | 36.5                             | 39.9 | 43.9 | 47.0 | 48.1 | 50.2 | 51.7 | 52.0 | 52.4 | 52.8 | 52.8 | 52.9 | 52.9 | 53.0 | 53.0  |    |
| GE 5000  |     | 38.6                             | 42.2 | 46.3 | 49.5 | 50.6 | 52.6 | 54.3 | 54.6 | 55.0 | 55.3 | 55.3 | 55.4 | 55.4 | 55.6 | 55.6  |    |
| GE 4500  |     | 39.3                             | 42.8 | 46.9 | 50.2 | 51.3 | 53.4 | 55.0 | 55.3 | 55.8 | 56.1 | 56.1 | 56.2 | 56.2 | 56.3 | 56.3  |    |
| GE 4000  |     | 43.6                             | 47.7 | 52.4 | 55.6 | 57.0 | 59.0 | 60.8 | 61.2 | 61.7 | 62.0 | 62.0 | 62.1 | 62.1 | 62.2 | 62.2  |    |
| GE 3500  |     | 45.5                             | 49.6 | 55.2 | 58.6 | 59.8 | 61.8 | 64.0 | 64.3 | 64.8 | 65.2 | 65.2 | 65.3 | 65.3 | 65.4 | 65.4  |    |
| GE 3000  |     | 51.7                             | 56.9 | 63.3 | 67.0 | 68.4 | 70.8 | 73.8 | 74.2 | 74.9 | 75.2 | 75.2 | 75.3 | 75.3 | 75.4 | 75.4  |    |
| GE 2500  |     | 53.0                             | 58.1 | 64.7 | 68.8 | 70.2 | 72.6 | 75.7 | 76.2 | 76.8 | 77.1 | 77.1 | 77.2 | 77.2 | 77.3 | 77.3  |    |
| GE 2000  |     | 54.8                             | 60.6 | 68.3 | 73.9 | 75.4 | 78.7 | 82.3 | 82.7 | 83.4 | 83.7 | 83.7 | 83.8 | 83.8 | 83.9 | 83.9  |    |
| GE 1800  |     | 55.2                             | 61.1 | 68.8 | 74.4 | 75.9 | 79.3 | 82.8 | 83.3 | 83.9 | 84.3 | 84.3 | 84.4 | 84.4 | 84.5 | 84.5  |    |
| GE 1500  |     | 55.9                             | 61.9 | 71.0 | 76.9 | 78.4 | 82.0 | 85.5 | 86.0 | 86.6 | 86.9 | 86.9 | 87.1 | 87.1 | 87.2 | 87.2  |    |
| GE 1200  |     | 56.5                             | 62.9 | 73.0 | 79.2 | 80.6 | 84.9 | 88.6 | 89.0 | 89.9 | 90.2 | 90.2 | 90.3 | 90.3 | 90.4 | 90.4  |    |
| GE 1000  |     | 56.9                             | 63.3 | 73.8 | 80.0 | 81.7 | 86.2 | 89.9 | 90.3 | 91.2 | 91.5 | 91.5 | 91.6 | 91.6 | 91.7 | 91.7  |    |
| GE 900   |     | 56.9                             | 63.3 | 73.9 | 80.2 | 81.8 | 86.3 | 90.1 | 90.5 | 91.4 | 91.7 | 91.7 | 91.8 | 91.8 | 91.9 | 91.9  |    |
| GE 800   |     | 57.0                             | 63.5 | 74.1 | 80.8 | 82.4 | 87.5 | 91.5 | 92.0 | 92.9 | 93.2 | 93.2 | 93.3 | 93.3 | 93.4 | 93.4  |    |
| GE 700   |     | 57.3                             | 64.0 | 75.2 | 82.2 | 83.8 | 88.9 | 92.9 | 93.4 | 94.3 | 94.6 | 94.6 | 94.7 | 94.7 | 94.8 | 94.8  |    |
| GE 600   |     | 57.5                             | 64.2 | 75.7 | 82.7 | 84.4 | 89.5 | 93.5 | 94.1 | 94.9 | 95.3 | 95.3 | 95.4 | 95.4 | 95.5 | 95.5  |    |
| GE 500   |     | 57.6                             | 64.5 | 76.4 | 83.5 | 85.1 | 90.5 | 94.6 | 95.3 | 96.2 | 96.5 | 96.5 | 96.7 | 96.7 | 96.8 | 97.1  |    |
| GE 400   |     | 57.6                             | 64.5 | 76.4 | 83.6 | 85.2 | 90.8 | 95.3 | 95.9 | 96.9 | 97.2 | 97.2 | 97.3 | 97.3 | 97.4 | 97.7  |    |
| GE 300   |     | 57.6                             | 64.5 | 76.6 | 83.8 | 85.5 | 91.3 | 95.7 | 96.3 | 97.4 | 97.7 | 97.7 | 97.8 | 97.8 | 98.0 | 98.6  |    |
| GE 200   |     | 57.6                             | 64.5 | 76.7 | 83.9 | 85.7 | 91.5 | 95.9 | 96.9 | 98.0 | 98.3 | 98.3 | 98.6 | 98.6 | 98.8 | 99.5  |    |
| GE 100   |     | 57.6                             | 64.5 | 76.7 | 83.9 | 85.7 | 91.5 | 95.9 | 97.0 | 98.1 | 98.4 | 98.5 | 98.8 | 98.8 | 99.0 | 100.0 |    |
| GE       | CI  | 57.6                             | 64.5 | 76.7 | 83.9 | 85.7 | 91.5 | 95.9 | 97.0 | 98.1 | 98.4 | 98.5 | 98.8 | 98.8 | 99.0 | 100.0 |    |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAR

HOURS(IST):

ALL

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|---------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN      | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL |      |                                  | 20.2  | 22.4  | 25.2  | 26.9  | 27.5  | 29.6  | 29.4  | 29.6  | 29.8  | 29.8  | 29.9  | 30.0 | 30.0 | 30.0 | 30.1  |
| GE 2000 |      |                                  | 23.9  | 26.4  | 29.8  | 32.0  | 32.7  | 34.1  | 35.3  | 35.5  | 35.9  | 35.9  | 36.0  | 36.1 | 36.3 | 36.2 | 36.2  |
| GE 1800 |      |                                  | 24.1  | 26.6  | 30.0  | 32.1  | 32.9  | 34.2  | 35.4  | 35.6  | 36.0  | 36.1  | 36.2  | 36.2 | 36.3 | 36.3 | 36.4  |
| GE 1600 |      |                                  | 24.1  | 26.6  | 30.0  | 32.1  | 32.9  | 34.2  | 35.4  | 35.6  | 36.0  | 36.1  | 36.2  | 36.2 | 36.3 | 36.3 | 36.4  |
| GE 1400 |      |                                  | 24.2  | 26.7  | 30.1  | 32.2  | 33.0  | 34.4  | 35.6  | 35.8  | 36.1  | 36.2  | 36.3  | 36.4 | 36.4 | 36.4 | 36.5  |
| GE 1200 |      |                                  | 24.3  | 26.8  | 30.3  | 32.4  | 33.2  | 34.6  | 35.8  | 36.0  | 36.4  | 36.4  | 36.6  | 36.6 | 36.7 | 36.7 | 36.7  |
| GE 1000 |      |                                  | 25.2  | 27.8  | 31.4  | 33.6  | 34.3  | 35.8  | 37.0  | 37.2  | 37.6  | 37.7  | 37.8  | 37.8 | 37.9 | 37.9 | 38.0  |
| GE 900  |      |                                  | 25.5  | 28.1  | 31.6  | 34.0  | 34.6  | 36.2  | 37.4  | 37.7  | 38.1  | 38.2  | 38.3  | 38.3 | 38.4 | 38.4 | 38.4  |
| GE 800  |      |                                  | 28.6  | 31.9  | 36.3  | 38.9  | 39.8  | 41.4  | 42.8  | 43.0  | 43.4  | 43.5  | 43.6  | 43.7 | 43.7 | 43.8 | 43.8  |
| GE 700  |      |                                  | 29.3  | 32.6  | 37.1  | 39.8  | 40.6  | 42.3  | 43.6  | 44.0  | 44.4  | 44.5  | 44.6  | 44.6 | 44.7 | 44.8 | 44.8  |
| GE 600  |      |                                  | 29.4  | 32.7  | 37.2  | 39.9  | 40.8  | 42.4  | 43.8  | 44.1  | 44.6  | 44.7  | 44.8  | 44.8 | 44.9 | 44.9 | 45.0  |
| GE 500  |      |                                  | 30.8  | 34.4  | 39.0  | 41.8  | 42.7  | 44.4  | 45.9  | 46.2  | 46.6  | 46.7  | 46.8  | 46.9 | 47.0 | 47.0 | 47.1  |
| GE 400  |      |                                  | 31.3  | 34.9  | 39.6  | 42.5  | 43.5  | 45.2  | 46.7  | 47.0  | 47.5  | 47.6  | 47.7  | 47.7 | 47.8 | 47.9 | 47.9  |
| GE 300  |      |                                  | 35.1  | 39.3  | 45.1  | 48.4  | 49.4  | 51.4  | 53.0  | 53.3  | 53.9  | 54.0  | 54.1  | 54.2 | 54.2 | 54.3 | 54.4  |
| GE 200  |      |                                  | 37.6  | 42.2  | 48.6  | 51.9  | 53.1  | 55.2  | 56.9  | 57.3  | 57.9  | 58.1  | 58.2  | 58.3 | 58.4 | 58.5 | 58.5  |
| GE 100  |      |                                  | 45.3  | 50.6  | 58.2  | 61.9  | 63.3  | 65.8  | 68.0  | 68.5  | 69.2  | 69.4  | 69.5  | 69.6 | 69.7 | 69.8 | 69.8  |
| GE 2500 |      |                                  | 46.4  | 51.8  | 59.6  | 63.6  | 65.1  | 67.6  | 69.9  | 70.4  | 71.1  | 71.3  | 71.4  | 71.5 | 71.6 | 71.7 | 71.7  |
| GE 2000 |      |                                  | 49.3  | 55.3  | 64.1  | 69.3  | 71.0  | 73.9  | 76.5  | 77.0  | 77.8  | 78.0  | 78.2  | 78.2 | 78.3 | 78.4 | 78.5  |
| GE 1800 |      |                                  | 49.6  | 55.9  | 64.7  | 70.1  | 71.8  | 74.7  | 77.3  | 77.9  | 78.6  | 78.9  | 79.0  | 79.0 | 79.1 | 79.2 | 79.3  |
| GE 1600 |      |                                  | 50.7  | 57.2  | 66.6  | 72.6  | 74.4  | 77.5  | 80.2  | 80.8  | 81.6  | 81.8  | 82.0  | 82.0 | 82.1 | 82.2 | 82.3  |
| GE 1400 |      |                                  | 52.3  | 59.3  | 69.9  | 76.0  | 78.0  | 81.4  | 84.3  | 84.9  | 85.8  | 86.0  | 86.1  | 86.2 | 86.3 | 86.4 | 86.5  |
| GE 1200 |      |                                  | 52.7  | 59.9  | 70.9  | 77.4  | 79.4  | 83.0  | 86.1  | 86.7  | 87.7  | 87.9  | 88.0  | 88.1 | 88.2 | 88.3 | 88.4  |
| GE 1000 |      |                                  | 53.0  | 61.2  | 71.2  | 77.9  | 79.9  | 83.6  | 86.6  | 87.3  | 88.4  | 88.7  | 88.8  | 88.9 | 89.0 | 89.1 | 89.2  |
| GE 900  |      |                                  | 53.2  | 60.4  | 71.7  | 78.6  | 80.6  | 84.7  | 87.9  | 88.6  | 89.8  | 90.1  | 90.2  | 90.3 | 90.3 | 90.5 | 90.5  |
| GE 800  |      |                                  | 53.6  | 61.0  | 72.6  | 79.7  | 81.6  | 86.1  | 89.4  | 90.1  | 91.3  | 91.7  | 91.8  | 91.9 | 92.0 | 92.1 | 92.1  |
| GE 700  |      |                                  | 53.6  | 61.3  | 73.1  | 80.5  | 82.6  | 87.0  | 90.4  | 91.3  | 92.6  | 93.0  | 93.1  | 93.2 | 93.3 | 93.4 | 93.5  |
| GE 600  |      |                                  | 54.0  | 61.6  | 73.7  | 81.4  | 83.6  | 88.4  | 92.0  | 92.9  | 94.2  | 94.8  | 95.0  | 95.0 | 95.2 | 95.3 | 95.5  |
| GE 500  |      |                                  | 54.0  | 61.6  | 73.9  | 81.7  | 83.9  | 88.9  | 92.7  | 93.7  | 95.3  | 95.8  | 96.0  | 96.1 | 96.3 | 96.4 | 96.7  |
| GE 400  |      |                                  | 54.0  | 61.6  | 74.0  | 81.9  | 84.1  | 89.2  | 93.1  | 94.2  | 96.0  | 96.6  | 96.9  | 97.1 | 97.2 | 97.4 | 98.1  |
| GE 300  |      |                                  | 54.0  | 61.6  | 74.0  | 81.9  | 84.1  | 89.2  | 93.3  | 94.6  | 96.5  | 97.3  | 97.6  | 97.9 | 98.3 | 98.5 | 99.5  |
| GE 200  |      |                                  | 54.0  | 61.6  | 74.0  | 81.9  | 84.1  | 89.2  | 93.3  | 94.6  | 96.5  | 97.3  | 97.6  | 97.9 | 98.4 | 98.7 | 100.0 |
| GE 100  |      |                                  | 54.0  | 61.6  | 74.0  | 81.9  | 84.1  | 89.2  | 93.3  | 94.6  | 96.5  | 97.3  | 97.6  | 97.9 | 98.4 | 98.7 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 74.5

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(IST): 0000-0100

| CEILING |       | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|---------|-------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN      | FEET  | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL | 1     | 36.0                             | 38.1     | 41.9     | 43.9     | 44.1     | 45.3     | 45.9     | 46.0     | 46.4     | 46.4     | 46.4     | 46.4     | 46.4    | 46.4    | 46.7    | 47.0    |
| GE      | 20000 | 38.6                             | 41.0     | 44.8     | 46.8     | 47.0     | 47.0     | 48.3     | 48.9     | 49.3     | 49.8     | 49.8     | 49.8     | 49.8    | 49.8    | 50.0    | 50.3    |
| GE      | 18000 | 38.8                             | 41.2     | 45.0     | 47.0     | 47.2     | 47.2     | 48.6     | 49.1     | 49.6     | 50.0     | 50.0     | 50.0     | 50.0    | 50.0    | 50.2    | 50.6    |
| GE      | 16000 | 38.8                             | 41.2     | 45.0     | 47.0     | 47.2     | 47.2     | 48.6     | 49.1     | 49.6     | 50.0     | 50.0     | 50.0     | 50.0    | 50.0    | 50.2    | 50.6    |
| GE      | 14000 | 38.8                             | 41.2     | 45.0     | 47.0     | 47.2     | 47.2     | 48.6     | 49.1     | 49.6     | 50.0     | 50.0     | 50.0     | 50.0    | 50.0    | 50.2    | 50.6    |
| GE      | 12000 | 38.8                             | 41.2     | 45.0     | 47.0     | 47.2     | 47.2     | 48.6     | 49.1     | 49.6     | 50.0     | 50.0     | 50.0     | 50.0    | 50.0    | 50.2    | 50.6    |
| GE      | 10000 | 39.3                             | 42.1     | 45.9     | 48.1     | 48.3     | 49.7     | 50.2     | 50.7     | 51.1     | 51.1     | 51.1     | 51.1     | 51.1    | 51.1    | 51.3    | 51.7    |
| GE      | 9000  | 39.7                             | 42.4     | 46.2     | 48.4     | 48.7     | 50.0     | 50.6     | 51.0     | 51.4     | 51.4     | 51.4     | 51.4     | 51.4    | 51.4    | 51.7    | 52.0    |
| GE      | 8000  | 42.0                             | 44.9     | 49.4     | 51.7     | 51.9     | 53.3     | 53.9     | 54.4     | 55.0     | 55.0     | 55.0     | 55.0     | 55.0    | 55.0    | 55.2    | 55.6    |
| GE      | 7000  | 42.8                             | 45.8     | 50.6     | 52.8     | 53.2     | 54.8     | 55.3     | 55.9     | 56.4     | 56.4     | 56.4     | 56.4     | 56.4    | 56.4    | 56.7    | 57.0    |
| GE      | 6000  | 42.9                             | 45.9     | 50.7     | 52.9     | 53.3     | 54.9     | 55.4     | 56.0     | 56.6     | 56.6     | 56.6     | 56.6     | 56.6    | 56.6    | 56.8    | 57.1    |
| GE      | 5000  | 43.8                             | 47.1     | 51.9     | 54.2     | 54.7     | 56.2     | 56.8     | 57.3     | 57.9     | 57.9     | 57.9     | 57.9     | 57.9    | 57.9    | 58.1    | 58.4    |
| GE      | 4500  | 44.3                             | 48.0     | 52.9     | 55.2     | 55.7     | 57.4     | 58.0     | 58.6     | 59.1     | 59.1     | 59.1     | 59.1     | 59.1    | 59.1    | 59.3    | 59.7    |
| GE      | 4000  | 48.4                             | 53.1     | 59.3     | 62.0     | 62.9     | 65.2     | 65.8     | 66.3     | 66.9     | 66.9     | 66.9     | 66.9     | 66.9    | 66.9    | 67.1    | 67.4    |
| GE      | 3500  | 50.9                             | 55.6     | 62.0     | 65.0     | 65.9     | 68.6     | 69.6     | 70.1     | 70.7     | 70.7     | 70.7     | 70.7     | 70.7    | 70.7    | 70.9    | 71.2    |
| GE      | 3000  | 55.9                             | 60.9     | 69.2     | 72.8     | 73.7     | 76.7     | 77.9     | 78.4     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3    | 79.3    | 79.6    | 79.9    |
| GE      | 2500  | 56.3                             | 61.4     | 69.8     | 73.3     | 74.2     | 77.2     | 78.6     | 79.1     | 80.1     | 80.1     | 80.1     | 80.1     | 80.1    | 80.1    | 80.3    | 80.7    |
| GE      | 2000  | 60.2                             | 65.7     | 74.6     | 78.2     | 79.1     | 82.6     | 83.9     | 84.8     | 85.9     | 85.9     | 85.9     | 85.9     | 85.9    | 85.9    | 86.1    | 86.4    |
| GE      | 1800  | 60.3                             | 65.8     | 74.7     | 78.3     | 79.2     | 82.8     | 84.1     | 85.0     | 86.1     | 86.1     | 86.1     | 86.1     | 86.1    | 86.1    | 86.3    | 86.7    |
| GE      | 1500  | 61.1                             | 66.7     | 75.7     | 79.7     | 80.6     | 84.2     | 85.6     | 86.4     | 87.6     | 87.6     | 87.6     | 87.6     | 87.6    | 87.6    | 87.8    | 88.1    |
| GE      | 1200  | 63.0                             | 68.8     | 78.1     | 82.3     | 83.2     | 87.8     | 89.1     | 90.0     | 91.1     | 91.1     | 91.1     | 91.1     | 91.1    | 91.1    | 91.3    | 91.7    |
| GE      | 1000  | 63.7                             | 69.6     | 79.0     | 83.3     | 84.2     | 88.8     | 90.2     | 91.1     | 92.2     | 92.2     | 92.2     | 92.2     | 92.2    | 92.2    | 92.4    | 92.8    |
| GE      | 900   | 63.8                             | 69.7     | 79.1     | 83.4     | 84.3     | 88.9     | 90.3     | 91.2     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3    | 92.3    | 92.6    | 92.9    |
| GE      | 800   | 63.9                             | 69.8     | 79.2     | 83.6     | 84.4     | 89.4     | 90.9     | 91.8     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9    | 92.9    | 93.1    | 93.4    |
| GE      | 700   | 63.9                             | 69.8     | 79.6     | 84.4     | 85.3     | 90.6     | 92.0     | 93.2     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6    | 94.6    | 94.8    | 95.1    |
| GE      | 600   | 63.9                             | 70.2     | 80.0     | 84.9     | 85.8     | 91.3     | 93.1     | 94.3     | 95.7     | 95.7     | 95.7     | 95.7     | 95.7    | 95.7    | 95.9    | 96.2    |
| GE      | 500   | 63.9                             | 70.2     | 80.1     | 85.2     | 86.2     | 92.2     | 94.0     | 95.7     | 97.0     | 97.0     | 97.0     | 97.0     | 97.0    | 97.0    | 97.2    | 97.6    |
| GE      | 400   | 63.9                             | 70.2     | 80.2     | 85.3     | 86.3     | 92.3     | 94.1     | 95.8     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4    | 97.4    | 97.7    | 98.0    |
| GE      | 300   | 63.9                             | 70.2     | 80.2     | 85.4     | 86.4     | 92.9     | 94.8     | 96.4     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1    | 98.1    | 98.3    | 98.7    |
| GE      | 200   | 63.9                             | 70.2     | 80.2     | 85.4     | 86.4     | 92.9     | 94.8     | 96.4     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1    | 98.1    | 98.3    | 98.7    |
| GE      | 100   | 63.9                             | 70.2     | 80.2     | 85.4     | 86.4     | 92.9     | 94.8     | 96.4     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1    | 98.1    | 98.3    | 98.7    |
| GE      | 0     | 63.9                             | 70.2     | 80.2     | 85.4     | 86.4     | 92.9     | 94.8     | 96.4     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1    | 98.1    | 98.3    | 98.7    |

TOTAL NUMBER OF OBSERVATIONS: 920

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(IST): 0300-0500

| CEILING  |  | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |
|----------|--|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|
| IN FEET  |  | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4  | GE 0 |
| NO CEIL  |  | 23.1                             | 26.2  | 31.1  | 33.1  | 34.0  | 35.2  | 37.0  | 37.3  | 37.8  | 37.9  | 37.9  | 38.1  | 38.3 | 38.3 | 38.4  |      |
| GE 20000 |  | 26.6                             | 30.2  | 35.8  | 38.2  | 39.1  | 40.6  | 42.4  | 43.1  | 43.8  | 43.9  | 43.9  | 44.1  | 44.3 | 44.3 | 44.4  |      |
| GE 18000 |  | 26.8                             | 30.2  | 35.8  | 38.2  | 39.1  | 40.6  | 42.4  | 43.1  | 43.8  | 43.9  | 43.9  | 44.1  | 44.3 | 44.3 | 44.4  |      |
| GE 16000 |  | 26.8                             | 30.2  | 35.8  | 38.2  | 39.1  | 40.6  | 42.4  | 43.1  | 43.8  | 43.9  | 43.9  | 44.1  | 44.3 | 44.3 | 44.4  |      |
| GE 14000 |  | 26.8                             | 30.2  | 35.8  | 38.2  | 39.1  | 40.6  | 42.4  | 43.1  | 43.8  | 43.9  | 43.9  | 44.1  | 44.3 | 44.3 | 44.4  |      |
| GE 12000 |  | 26.8                             | 30.2  | 35.8  | 38.2  | 39.1  | 40.6  | 42.4  | 43.1  | 43.8  | 43.9  | 43.9  | 44.1  | 44.3 | 44.3 | 44.4  |      |
| GE 10000 |  | 27.4                             | 31.1  | 36.7  | 39.1  | 40.0  | 41.4  | 43.3  | 44.0  | 44.7  | 44.8  | 44.8  | 45.0  | 45.2 | 45.2 | 45.3  |      |
| GE 9000  |  | 28.0                             | 31.7  | 37.2  | 39.7  | 40.6  | 42.0  | 43.9  | 44.6  | 45.2  | 45.3  | 45.3  | 45.6  | 45.8 | 45.8 | 45.9  |      |
| GE 8000  |  | 31.7                             | 35.4  | 41.3  | 44.7  | 45.7  | 47.2  | 49.1  | 49.8  | 50.6  | 50.7  | 50.8  | 51.0  | 51.2 | 51.2 | 51.3  |      |
| GE 7000  |  | 32.9                             | 36.8  | 43.2  | 46.8  | 47.6  | 49.3  | 51.3  | 52.0  | 52.8  | 52.9  | 53.0  | 53.2  | 53.4 | 53.4 | 53.6  |      |
| GE 6000  |  | 33.1                             | 37.1  | 43.6  | 47.1  | 48.1  | 49.7  | 51.7  | 52.3  | 53.1  | 53.2  | 53.3  | 53.6  | 53.8 | 53.8 | 53.9  |      |
| GE 5000  |  | 35.0                             | 39.2  | 46.0  | 49.7  | 50.8  | 52.3  | 54.3  | 55.0  | 55.8  | 55.9  | 56.0  | 56.2  | 56.4 | 56.4 | 56.6  |      |
| GE 4500  |  | 35.9                             | 40.2  | 47.2  | 50.9  | 52.0  | 53.6  | 55.7  | 56.3  | 57.3  | 57.4  | 57.6  | 57.8  | 58.0 | 58.0 | 58.1  |      |
| GE 4000  |  | 40.3                             | 45.0  | 52.9  | 57.0  | 58.3  | 61.2  | 63.8  | 64.4  | 65.6  | 65.7  | 65.8  | 66.0  | 66.2 | 66.2 | 66.3  |      |
| GE 3500  |  | 42.4                             | 47.2  | 55.2  | 59.6  | 61.0  | 63.9  | 66.6  | 67.2  | 68.3  | 68.4  | 68.6  | 68.8  | 69.0 | 69.0 | 69.1  |      |
| GE 3000  |  | 47.8                             | 53.0  | 61.4  | 66.4  | 67.9  | 70.9  | 73.6  | 74.2  | 75.3  | 75.4  | 75.6  | 75.8  | 76.0 | 76.0 | 76.1  |      |
| GE 2500  |  | 48.7                             | 54.0  | 62.4  | 67.6  | 69.0  | 72.0  | 74.7  | 75.3  | 76.4  | 76.6  | 76.7  | 76.9  | 77.1 | 77.1 | 77.2  |      |
| GE 2000  |  | 52.3                             | 58.1  | 66.7  | 71.8  | 73.2  | 76.4  | 79.3  | 80.1  | 81.3  | 81.4  | 81.6  | 81.8  | 82.0 | 82.0 | 82.1  |      |
| GE 1800  |  | 52.3                             | 58.1  | 66.7  | 71.9  | 73.3  | 76.6  | 79.4  | 80.2  | 81.4  | 81.6  | 81.7  | 81.9  | 82.1 | 82.1 | 82.2  |      |
| GE 1500  |  | 53.4                             | 59.4  | 68.2  | 74.1  | 75.7  | 79.7  | 81.9  | 82.7  | 83.9  | 84.0  | 84.1  | 84.3  | 84.6 | 84.6 | 84.7  |      |
| GE 1200  |  | 55.0                             | 61.0  | 70.6  | 76.4  | 78.0  | 82.7  | 85.0  | 85.8  | 87.0  | 87.1  | 87.3  | 87.6  | 87.8 | 87.8 | 87.9  |      |
| GE 1000  |  | 56.2                             | 62.2  | 72.2  | 78.2  | 79.9  | 83.9  | 87.2  | 88.0  | 89.2  | 89.3  | 89.6  | 89.8  | 90.0 | 90.0 | 90.1  |      |
| GE 900   |  | 56.0                             | 62.2  | 72.2  | 78.2  | 79.9  | 83.9  | 87.2  | 88.0  | 89.2  | 89.3  | 89.6  | 89.8  | 90.0 | 90.0 | 90.1  |      |
| GE 800   |  | 56.1                             | 62.3  | 72.7  | 78.8  | 80.4  | 84.8  | 88.1  | 88.9  | 90.1  | 90.2  | 90.4  | 90.8  | 91.0 | 91.0 | 91.1  |      |
| GE 700   |  | 56.1                             | 62.6  | 72.9  | 79.1  | 80.6  | 85.2  | 89.8  | 89.7  | 90.9  | 91.0  | 91.2  | 91.6  | 91.8 | 91.8 | 91.9  |      |
| GE 600   |  | 56.2                             | 63.0  | 73.8  | 80.0  | 81.7  | 86.1  | 89.8  | 90.8  | 92.1  | 92.2  | 92.4  | 92.8  | 93.2 | 93.2 | 93.3  |      |
| GE 500   |  | 56.3                             | 63.1  | 74.0  | 80.3  | 82.1  | 86.9  | 91.1  | 92.6  | 94.0  | 94.1  | 94.3  | 94.7  | 95.2 | 95.2 | 95.3  |      |
| GE 400   |  | 56.3                             | 63.1  | 74.0  | 80.3  | 82.1  | 87.2  | 91.4  | 93.1  | 94.8  | 95.0  | 95.2  | 95.6  | 96.2 | 96.2 | 96.3  |      |
| GE 300   |  | 56.3                             | 63.1  | 74.0  | 80.6  | 82.3  | 87.4  | 91.8  | 93.9  | 95.8  | 96.0  | 96.2  | 96.6  | 97.2 | 97.3 | 97.4  |      |
| GE 200   |  | 56.3                             | 63.1  | 74.0  | 80.6  | 82.3  | 87.6  | 91.9  | 94.1  | 96.1  | 96.3  | 96.9  | 97.4  | 98.1 | 98.6 | 98.7  |      |
| GE 100   |  | 56.3                             | 63.1  | 74.0  | 80.6  | 82.3  | 87.6  | 91.9  | 94.1  | 96.1  | 96.3  | 96.9  | 97.6  | 98.3 | 99.2 | 100.0 |      |
| GE 0     |  | 56.3                             | 63.1  | 74.0  | 80.6  | 82.3  | 87.6  | 91.9  | 94.1  | 96.1  | 96.3  | 96.9  | 97.6  | 98.3 | 99.2 | 100.0 |      |

TOTAL NUMBER OF OBSERVATIONS: 900



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LEST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>6 | GE<br>4 |
| NO CEIL               | 19.6                             | 21.2     | 25.8     | 28.0     | 28.9     | 30.4     | 31.7     | 32.4     | 32.6     | 32.8     | 32.9     | 33.7     | 33.2    | 33.2    | 33.6    |
| GE 20000              | 21.6                             | 23.9     | 29.8     | 32.2     | 33.1     | 34.9     | 36.2     | 37.0     | 37.4     | 37.6     | 37.8     | 37.9     | 38.1    | 38.1    | 38.4    |
| GE 18000              | 21.6                             | 23.9     | 30.1     | 32.6     | 33.4     | 35.3     | 36.7     | 37.4     | 37.9     | 38.7     | 38.2     | 38.3     | 38.6    | 38.6    | 38.9    |
| GE 16000              | 21.7                             | 24.0     | 30.2     | 32.7     | 33.6     | 35.4     | 36.8     | 37.6     | 38.0     | 38.1     | 38.3     | 38.4     | 38.7    | 38.7    | 39.0    |
| GE 14000              | 21.7                             | 24.0     | 30.2     | 32.7     | 33.6     | 35.4     | 36.8     | 37.6     | 38.0     | 38.1     | 38.3     | 38.4     | 38.7    | 38.7    | 39.0    |
| GE 12000              | 21.8                             | 24.1     | 30.3     | 32.8     | 33.7     | 35.6     | 36.9     | 37.7     | 38.1     | 38.2     | 38.4     | 38.6     | 38.8    | 38.8    | 39.1    |
| GE 10000              | 23.1                             | 25.6     | 31.8     | 34.7     | 35.6     | 37.4     | 38.9     | 39.7     | 40.1     | 40.2     | 40.4     | 40.6     | 40.8    | 40.8    | 41.1    |
| GE 9000               | 23.7                             | 26.2     | 32.6     | 35.4     | 36.3     | 38.2     | 39.7     | 40.4     | 40.9     | 41.0     | 41.2     | 41.3     | 41.6    | 41.6    | 41.9    |
| GE 8000               | 27.4                             | 30.3     | 37.3     | 41.0     | 41.9     | 43.9     | 45.3     | 46.1     | 46.6     | 46.7     | 46.9     | 47.0     | 47.2    | 47.3    | 47.7    |
| GE 7000               | 28.3                             | 31.6     | 39.1     | 43.2     | 44.1     | 46.2     | 47.7     | 48.4     | 49.0     | 49.1     | 49.3     | 49.4     | 49.7    | 49.8    | 50.1    |
| GE 6000               | 28.3                             | 31.6     | 39.1     | 43.2     | 44.1     | 46.2     | 47.7     | 48.4     | 49.0     | 49.1     | 49.3     | 49.4     | 49.7    | 49.8    | 50.1    |
| GE 5000               | 30.8                             | 34.1     | 42.7     | 47.4     | 48.4     | 50.6     | 52.0     | 52.8     | 53.3     | 53.4     | 53.7     | 53.8     | 54.0    | 54.1    | 54.4    |
| GE 4500               | 30.9                             | 34.2     | 43.1     | 48.0     | 49.2     | 51.7     | 53.2     | 54.1     | 54.6     | 54.9     | 55.1     | 55.2     | 55.4    | 55.6    | 55.9    |
| GE 4000               | 35.9                             | 39.8     | 49.7     | 55.3     | 56.7     | 59.7     | 61.4     | 62.6     | 63.8     | 64.7     | 64.2     | 64.3     | 64.7    | 64.8    | 65.2    |
| GE 3500               | 37.9                             | 42.7     | 52.5     | 58.4     | 59.8     | 63.2     | 65.0     | 66.1     | 67.3     | 67.6     | 67.8     | 67.9     | 68.2    | 68.3    | 68.8    |
| GE 3000               | 42.7                             | 46.8     | 58.2     | 64.9     | 66.2     | 69.7     | 71.4     | 72.6     | 74.1     | 74.3     | 74.6     | 74.7     | 75.0    | 75.1    | 75.6    |
| GE 2500               | 43.3                             | 47.6     | 59.1     | 65.8     | 67.1     | 70.6     | 72.3     | 73.4     | 75.0     | 75.2     | 75.4     | 75.6     | 75.9    | 76.0    | 76.4    |
| GE 2000               | 46.2                             | 50.9     | 62.7     | 69.4     | 70.8     | 74.3     | 76.2     | 77.3     | 78.9     | 79.7     | 79.6     | 79.7     | 80.0    | 80.1    | 80.6    |
| GE 1800               | 46.6                             | 51.2     | 63.0     | 69.9     | 71.2     | 74.8     | 76.7     | 77.8     | 79.3     | 79.7     | 80.0     | 80.1     | 80.4    | 80.6    | 81.0    |
| GE 1600               | 47.6                             | 52.3     | 64.8     | 71.8     | 73.1     | 76.7     | 78.6     | 79.7     | 81.2     | 81.6     | 82.0     | 82.1     | 82.4    | 82.6    | 83.0    |
| GE 1400               | 49.0                             | 54.4     | 68.3     | 75.4     | 76.9     | 80.9     | 83.0     | 84.1     | 85.7     | 86.0     | 86.6     | 86.7     | 87.0    | 87.1    | 87.6    |
| GE 1200               | 49.1                             | 54.6     | 68.9     | 76.1     | 77.8     | 81.8     | 83.9     | 85.0     | 86.7     | 87.0     | 87.7     | 87.8     | 88.1    | 88.2    | 88.7    |
| GE 900                | 49.3                             | 54.8     | 69.2     | 76.6     | 78.2     | 82.3     | 84.4     | 85.6     | 87.2     | 87.6     | 88.2     | 88.3     | 88.7    | 88.8    | 89.2    |
| GE 800                | 49.6                             | 55.0     | 69.8     | 77.4     | 79.1     | 83.2     | 85.3     | 86.4     | 88.2     | 88.6     | 89.2     | 89.3     | 89.7    | 89.8    | 90.2    |
| GE 700                | 49.6                             | 55.0     | 69.8     | 77.6     | 79.3     | 83.6     | 86.0     | 87.1     | 88.9     | 89.2     | 89.9     | 90.0     | 90.4    | 90.6    | 91.0    |
| GE 600                | 49.7                             | 55.1     | 70.2     | 78.2     | 80.0     | 84.3     | 87.0     | 88.1     | 90.1     | 90.6     | 91.3     | 91.4     | 91.9    | 92.0    | 92.4    |
| GE 500                | 49.8                             | 55.2     | 70.6     | 78.9     | 80.7     | 85.2     | 88.3     | 89.4     | 91.6     | 92.2     | 93.0     | 93.1     | 93.6    | 93.7    | 94.1    |
| GE 400                | 49.8                             | 55.2     | 70.6     | 78.9     | 80.7     | 85.3     | 88.6     | 90.0     | 92.7     | 93.9     | 94.8     | 95.1     | 95.6    | 95.7    | 96.1    |
| GE 300                | 49.8                             | 55.2     | 70.6     | 78.9     | 80.7     | 85.3     | 88.6     | 90.1     | 92.8     | 94.1     | 95.1     | 95.8     | 96.6    | 96.8    | 97.2    |
| GE 200                | 49.6                             | 55.2     | 70.6     | 78.9     | 80.7     | 85.4     | 89.7     | 90.2     | 92.9     | 94.7     | 95.9     | 96.6     | 97.8    | 98.4    | 99.2    |
| GE 100                | 49.6                             | 55.2     | 70.6     | 78.9     | 80.7     | 85.4     | 88.7     | 90.2     | 93.0     | 94.8     | 96.0     | 96.7     | 97.9    | 98.6    | 100.0   |
| GE 0                  | 49.8                             | 55.2     | 70.6     | 78.9     | 80.7     | 85.4     | 88.7     | 90.2     | 93.0     | 94.8     | 96.0     | 96.7     | 97.9    | 98.6    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: APR HOURS(IST): 0900-1100

| CEILING  |        | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
|----------|--------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| IN FEET  | GT 160 | GE 90                            | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5  | GE 4  | GE 0  |
| NO CEIL  |        | 21.9                             | 24.8  | 27.1  | 28.4  | 28.9  | 29.8  | 33.1  | 30.2  | 30.2  | 30.2  | 30.2  | 30.2 | 30.3  | 30.3  | 30.3  |
| GE 20000 |        | 24.9                             | 28.3  | 31.4  | 33.2  | 33.7  | 35.3  | 36.0  | 36.1  | 36.1  | 36.1  | 36.1  | 36.1 | 36.2  | 36.2  | 36.2  |
| GE 18000 |        | 25.3                             | 28.9  | 32.0  | 33.8  | 34.2  | 35.9  | 36.6  | 36.7  | 36.7  | 36.7  | 36.7  | 36.7 | 36.8  | 36.8  | 36.8  |
| GE 16000 |        | 25.3                             | 28.9  | 32.0  | 33.6  | 34.2  | 35.9  | 36.6  | 36.7  | 36.7  | 36.7  | 36.7  | 36.7 | 36.8  | 36.8  | 36.8  |
| GE 14000 |        | 25.3                             | 28.9  | 32.0  | 33.8  | 34.2  | 35.9  | 36.6  | 36.7  | 36.7  | 36.7  | 36.7  | 36.7 | 36.8  | 36.8  | 36.8  |
| GE 12000 |        | 25.6                             | 29.1  | 32.2  | 34.0  | 34.4  | 36.1  | 36.8  | 36.9  | 36.9  | 36.9  | 36.9  | 36.9 | 37.0  | 37.0  | 37.0  |
| GE 10000 |        | 26.2                             | 30.1  | 33.6  | 35.7  | 36.1  | 37.9  | 39.6  | 38.7  | 38.7  | 38.7  | 38.7  | 38.7 | 38.8  | 38.8  | 38.8  |
| GE 9000  |        | 26.8                             | 30.7  | 34.2  | 36.3  | 36.8  | 38.6  | 39.2  | 39.3  | 39.3  | 39.3  | 39.3  | 39.3 | 39.4  | 39.4  | 39.4  |
| GE 8000  |        | 29.1                             | 33.6  | 37.8  | 40.4  | 41.1  | 43.1  | 43.8  | 43.9  | 43.9  | 43.9  | 43.9  | 43.9 | 44.0  | 44.0  | 44.0  |
| GE 7000  |        | 30.0                             | 34.6  | 38.8  | 41.4  | 42.1  | 44.1  | 44.8  | 44.9  | 44.9  | 44.9  | 44.9  | 44.9 | 45.0  | 45.0  | 45.0  |
| GE 6000  |        | 30.0                             | 34.7  | 39.0  | 41.7  | 42.3  | 44.3  | 45.0  | 45.1  | 45.1  | 45.1  | 45.1  | 45.1 | 45.2  | 45.2  | 45.2  |
| GE 5000  |        | 31.3                             | 36.2  | 41.2  | 44.0  | 44.7  | 46.9  | 47.6  | 47.7  | 47.7  | 47.7  | 47.7  | 47.7 | 47.8  | 47.8  | 47.8  |
| GE 4500  |        | 31.9                             | 36.8  | 41.9  | 44.7  | 45.3  | 47.6  | 48.2  | 48.3  | 48.4  | 48.4  | 48.4  | 48.4 | 48.6  | 48.6  | 48.6  |
| GE 4000  |        | 34.4                             | 40.9  | 47.1  | 50.4  | 51.1  | 53.7  | 54.4  | 54.6  | 54.7  | 54.7  | 54.7  | 54.7 | 54.8  | 54.8  | 54.8  |
| GE 3500  |        | 39.8                             | 45.1  | 51.4  | 55.0  | 55.8  | 58.6  | 59.4  | 59.6  | 59.8  | 59.8  | 59.8  | 59.8 | 59.9  | 59.9  | 59.9  |
| GE 3000  |        | 51.0                             | 57.1  | 64.3  | 68.0  | 68.8  | 71.9  | 72.8  | 72.9  | 73.1  | 73.1  | 73.1  | 73.1 | 73.2  | 73.2  | 73.2  |
| GE 2500  |        | 52.9                             | 59.6  | 67.0  | 70.7  | 71.4  | 74.6  | 75.4  | 75.6  | 75.8  | 75.8  | 75.8  | 75.8 | 75.9  | 75.9  | 75.9  |
| GE 2000  |        | 58.3                             | 65.3  | 73.2  | 77.0  | 77.9  | 81.1  | 82.1  | 82.2  | 82.7  | 82.7  | 82.7  | 82.7 | 82.8  | 82.8  | 82.8  |
| GE 1800  |        | 58.4                             | 65.4  | 73.6  | 77.3  | 78.2  | 81.4  | 82.4  | 82.7  | 83.1  | 83.1  | 83.1  | 83.1 | 83.2  | 83.2  | 83.2  |
| GE 1600  |        | 60.1                             | 67.2  | 76.0  | 79.8  | 80.7  | 84.0  | 85.0  | 85.2  | 85.7  | 85.7  | 85.7  | 85.7 | 85.8  | 85.8  | 85.8  |
| GE 1400  |        | 62.2                             | 69.9  | 79.3  | 83.8  | 84.8  | 88.1  | 89.1  | 89.7  | 89.8  | 89.8  | 89.8  | 89.8 | 89.9  | 89.9  | 89.9  |
| GE 1200  |        | 63.1                             | 70.8  | 80.7  | 85.6  | 86.6  | 90.2  | 91.2  | 91.4  | 91.9  | 91.9  | 91.9  | 91.9 | 92.0  | 92.0  | 92.0  |
| GE 1000  |        | 63.4                             | 71.2  | 81.2  | 86.8  | 87.8  | 91.3  | 92.3  | 92.6  | 93.0  | 93.0  | 93.0  | 93.0 | 93.1  | 93.1  | 93.1  |
| GE 900   |        | 63.9                             | 71.7  | 81.7  | 87.2  | 88.2  | 91.9  | 92.9  | 93.1  | 93.6  | 93.6  | 93.6  | 93.6 | 93.7  | 93.7  | 93.7  |
| GE 800   |        | 63.9                             | 71.7  | 81.8  | 87.6  | 88.6  | 92.4  | 93.8  | 94.0  | 94.7  | 94.7  | 94.7  | 94.7 | 94.8  | 94.8  | 94.8  |
| GE 600   |        | 63.9                             | 71.8  | 82.1  | 87.9  | 89.0  | 93.2  | 94.6  | 94.8  | 95.6  | 95.8  | 95.8  | 95.8 | 95.9  | 95.9  | 95.9  |
| GE 500   |        | 64.1                             | 72.0  | 82.3  | 88.2  | 89.4  | 93.8  | 95.4  | 95.7  | 96.4  | 96.7  | 96.7  | 96.7 | 96.9  | 96.9  | 96.9  |
| GE 400   |        | 64.1                             | 72.0  | 82.3  | 88.2  | 89.4  | 93.8  | 95.7  | 96.1  | 97.3  | 97.9  | 97.9  | 97.9 | 98.1  | 98.1  | 98.1  |
| GE 300   |        | 64.1                             | 72.0  | 82.3  | 88.2  | 89.4  | 93.8  | 95.8  | 96.2  | 98.1  | 98.8  | 98.9  | 99.4 | 99.8  | 99.8  | 99.8  |
| GE 200   |        | 64.1                             | 72.0  | 82.3  | 88.2  | 89.4  | 93.8  | 95.8  | 96.2  | 98.1  | 98.8  | 98.9  | 99.6 | 99.9  | 99.9  | 99.9  |
| GE 100   |        | 64.1                             | 72.0  | 82.3  | 88.2  | 89.4  | 93.8  | 95.8  | 96.2  | 98.1  | 98.8  | 98.9  | 99.6 | 100.0 | 100.0 | 100.0 |
| GE 0     |        | 64.1                             | 72.0  | 82.3  | 88.2  | 89.4  | 93.8  | 95.8  | 96.2  | 98.1  | 98.8  | 98.9  | 99.6 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAF/AFAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: J35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(IST): 1200-1400

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |      |      |      |      |  |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|--|
| IN       | FEET | GE 160                           | GE 90 | GE 80 | GE 60 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0 |  |
| NO CEIL  | 1    | 72.8                             | 24.7  | 26.6  | 27.8  | 27.9  | 28.8  | 28.8  | 28.8  | 28.8  | 28.8  | 28.8  | 28.8 | 28.8 | 28.8 | 28.8 |  |
| GE 20000 | 1    | 28.6                             | 30.7  | 34.0  | 36.0  | 36.1  | 37.0  | 37.0  | 37.0  | 37.0  | 37.0  | 37.0  | 37.0 | 37.0 | 37.0 | 37.0 |  |
| GE 18000 | 1    | 28.8                             | 30.9  | 34.2  | 36.2  | 36.3  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2 | 37.2 | 37.2 | 37.2 |  |
| GE 16000 | 1    | 28.8                             | 30.9  | 34.2  | 36.2  | 36.3  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2 | 37.2 | 37.2 | 37.2 |  |
| GE 14000 | 1    | 28.8                             | 30.9  | 34.2  | 36.2  | 36.3  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2  | 37.2 | 37.2 | 37.2 | 37.2 |  |
| GE 12000 | 1    | 28.9                             | 31.0  | 34.3  | 36.3  | 36.4  | 37.3  | 37.3  | 37.3  | 37.3  | 37.3  | 37.3  | 37.3 | 37.3 | 37.3 | 37.3 |  |
| GE 10000 | 1    | 29.8                             | 31.9  | 35.4  | 37.4  | 37.6  | 38.4  | 38.6  | 38.6  | 38.6  | 38.6  | 38.6  | 38.6 | 38.6 | 38.6 | 38.6 |  |
| GE 9000  | 1    | 30.2                             | 32.7  | 36.3  | 38.4  | 38.6  | 39.4  | 39.6  | 39.6  | 39.6  | 39.6  | 39.6  | 39.6 | 39.6 | 39.6 | 39.6 |  |
| GE 8000  | 1    | 33.9                             | 36.7  | 41.1  | 44.1  | 44.2  | 45.2  | 45.3  | 45.3  | 45.3  | 45.3  | 45.3  | 45.3 | 45.3 | 45.3 | 45.3 |  |
| GE 7000  | 1    | 34.6                             | 37.6  | 42.1  | 45.1  | 45.2  | 46.3  | 46.4  | 46.4  | 46.4  | 46.4  | 46.4  | 46.4 | 46.4 | 46.4 | 46.4 |  |
| GE 6000  | 1    | 34.6                             | 37.6  | 42.1  | 45.1  | 45.2  | 46.3  | 46.4  | 46.4  | 46.4  | 46.4  | 46.4  | 46.4 | 46.4 | 46.4 | 46.4 |  |
| GE 5000  | 1    | 35.8                             | 39.1  | 43.7  | 46.9  | 47.0  | 48.1  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2 | 48.2 | 48.2 | 48.2 |  |
| GE 4500  | 1    | 36.7                             | 40.0  | 44.7  | 47.9  | 48.0  | 49.1  | 49.3  | 49.3  | 49.3  | 49.3  | 49.3  | 49.3 | 49.3 | 49.3 | 49.3 |  |
| GE 4000  | 1    | 41.6                             | 45.0  | 50.4  | 53.9  | 54.1  | 55.2  | 55.6  | 55.6  | 55.6  | 55.6  | 55.6  | 55.6 | 55.6 | 55.6 | 55.6 |  |
| GE 3500  | 1    | 48.7                             | 52.7  | 58.9  | 62.4  | 62.8  | 64.3  | 64.7  | 64.7  | 64.7  | 64.7  | 64.7  | 64.7 | 64.7 | 64.7 | 64.7 |  |
| GE 3000  | 1    | 60.8                             | 65.4  | 72.1  | 76.3  | 76.8  | 78.6  | 78.9  | 78.9  | 79.0  | 79.0  | 79.0  | 79.0 | 79.0 | 79.0 | 79.0 |  |
| GE 2500  | 1    | 62.6                             | 67.4  | 74.2  | 78.4  | 78.9  | 80.7  | 81.0  | 81.0  | 81.1  | 81.1  | 81.1  | 81.1 | 81.1 | 81.1 | 81.1 |  |
| GE 2000  | 1    | 67.9                             | 72.9  | 80.8  | 85.2  | 85.7  | 87.7  | 88.0  | 88.0  | 88.2  | 88.2  | 88.2  | 88.2 | 88.2 | 88.2 | 88.2 |  |
| GE 1800  | 1    | 68.3                             | 73.3  | 81.2  | 85.8  | 86.2  | 88.2  | 88.6  | 88.6  | 88.8  | 88.8  | 88.8  | 88.8 | 88.8 | 88.8 | 88.8 |  |
| GE 1600  | 1    | 68.8                             | 73.9  | 82.4  | 87.2  | 87.7  | 89.7  | 90.0  | 90.0  | 90.2  | 90.2  | 90.2  | 90.2 | 90.2 | 90.2 | 90.2 |  |
| GE 1200  | 1    | 70.7                             | 76.0  | 84.9  | 90.0  | 90.4  | 92.6  | 93.1  | 93.1  | 93.3  | 93.3  | 93.3  | 93.3 | 93.3 | 93.3 | 93.3 |  |
| GE 1000  | 1    | 71.0                             | 76.6  | 86.0  | 91.3  | 91.8  | 94.1  | 94.8  | 94.8  | 95.0  | 95.0  | 95.0  | 95.0 | 95.0 | 95.0 | 95.0 |  |
| GE 900   | 1    | 71.1                             | 76.7  | 86.1  | 91.9  | 92.4  | 94.9  | 95.7  | 95.7  | 96.0  | 96.0  | 96.0  | 96.0 | 96.0 | 96.0 | 96.0 |  |
| GE 800   | 1    | 71.1                             | 76.7  | 86.1  | 92.2  | 92.8  | 95.2  | 96.0  | 96.0  | 96.3  | 96.3  | 96.3  | 96.3 | 96.3 | 96.3 | 96.3 |  |
| GE 700   | 1    | 71.1                             | 76.7  | 86.3  | 92.7  | 93.2  | 96.1  | 97.0  | 97.0  | 97.3  | 97.3  | 97.3  | 97.3 | 97.3 | 97.3 | 97.3 |  |
| GE 600   | 1    | 71.1                             | 76.7  | 86.3  | 92.8  | 93.3  | 96.2  | 97.2  | 97.2  | 97.6  | 97.6  | 97.6  | 97.6 | 97.6 | 97.6 | 97.6 |  |
| GE 500   | 1    | 71.1                             | 76.8  | 86.4  | 93.0  | 93.7  | 96.9  | 97.9  | 97.9  | 98.2  | 98.3  | 98.3  | 98.3 | 98.4 | 98.4 | 98.4 |  |
| GE 400   | 1    | 71.1                             | 76.8  | 86.4  | 93.0  | 93.7  | 96.9  | 98.2  | 98.2  | 98.5  | 98.5  | 98.5  | 98.5 | 98.5 | 98.5 | 98.5 |  |
| GE 300   | 1    | 71.1                             | 76.8  | 86.4  | 93.0  | 93.7  | 97.0  | 98.4  | 98.4  | 98.6  | 98.6  | 98.6  | 98.6 | 98.6 | 98.6 | 98.6 |  |
| GE 200   | 1    | 71.1                             | 76.8  | 86.4  | 93.0  | 93.7  | 97.0  | 98.4  | 98.4  | 98.6  | 98.6  | 98.6  | 98.6 | 98.6 | 98.6 | 98.6 |  |
| GE 100   | 1    | 71.1                             | 76.8  | 86.4  | 93.0  | 93.7  | 97.0  | 98.4  | 98.4  | 98.6  | 98.6  | 98.6  | 98.6 | 98.6 | 98.6 | 98.6 |  |
| GE 0     | 1    | 71.1                             | 76.8  | 86.4  | 93.0  | 93.7  | 97.0  | 98.4  | 98.4  | 98.6  | 98.6  | 98.6  | 98.6 | 98.6 | 98.6 | 98.6 |  |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: G35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: APR HOURS(LST): 1500-1700

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|----------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN       | FEET | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL  | I    | 25.9                             | 28.0     | 30.2     | 31.9     | 32.1     | 32.2     | 32.6     | 32.6     | 32.6     | 32.6     | 32.6     | 32.6     | 32.6    | 32.6    | 32.6    | 32.6    |
| GE 20000 | I    | 33.0                             | 35.3     | 38.8     | 41.3     | 41.9     | 42.4     | 43.0     | 43.0     | 43.0     | 43.0     | 43.0     | 43.0     | 43.0    | 43.0    | 43.0    | 43.0    |
| GE 18000 | I    | 33.8                             | 36.1     | 39.6     | 42.1     | 42.7     | 43.2     | 43.8     | 43.8     | 43.8     | 43.8     | 43.8     | 43.8     | 43.8    | 43.8    | 43.8    | 43.8    |
| GE 16000 | I    | 33.8                             | 36.1     | 39.6     | 42.1     | 42.7     | 43.4     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0    | 44.0    | 44.0    | 44.0    |
| GE 14000 | I    | 33.8                             | 36.1     | 39.6     | 42.1     | 42.7     | 43.4     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0    | 44.0    | 44.0    | 44.0    |
| GE 12000 | I    | 34.3                             | 36.7     | 40.1     | 42.7     | 43.2     | 44.0     | 44.6     | 44.6     | 44.6     | 44.6     | 44.6     | 44.6     | 44.6    | 44.6    | 44.6    | 44.6    |
| GE 10000 | I    | 35.0                             | 37.4     | 41.0     | 43.6     | 44.1     | 44.9     | 45.4     | 45.4     | 45.4     | 45.4     | 45.4     | 45.4     | 45.4    | 45.4    | 45.4    | 45.4    |
| GE 9000  | I    | 35.3                             | 37.8     | 41.3     | 44.1     | 44.7     | 45.4     | 46.0     | 46.0     | 46.0     | 46.0     | 46.0     | 46.0     | 46.0    | 46.0    | 46.0    | 46.0    |
| GE 8000  | I    | 39.0                             | 41.8     | 45.4     | 48.7     | 49.3     | 50.1     | 50.7     | 50.7     | 50.7     | 50.7     | 50.7     | 50.7     | 50.7    | 50.7    | 50.7    | 50.7    |
| GE 7000  | I    | 40.1                             | 42.9     | 46.7     | 49.9     | 50.6     | 51.3     | 51.9     | 51.9     | 51.9     | 51.9     | 51.9     | 51.9     | 51.9    | 51.9    | 51.9    | 51.9    |
| GE 6000  | I    | 40.1                             | 42.9     | 46.7     | 49.9     | 50.6     | 51.3     | 51.9     | 51.9     | 51.9     | 51.9     | 51.9     | 51.9     | 51.9    | 51.9    | 51.9    | 51.9    |
| GE 5000  | I    | 42.1                             | 45.1     | 49.0     | 52.2     | 52.9     | 53.7     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2    | 54.2    | 54.2    | 54.2    |
| GE 4500  | I    | 42.9                             | 46.1     | 50.2     | 53.4     | 54.2     | 55.0     | 55.6     | 55.6     | 55.6     | 55.6     | 55.6     | 55.6     | 55.6    | 55.6    | 55.6    | 55.6    |
| GE 4000  | I    | 49.6                             | 52.8     | 57.3     | 60.8     | 61.7     | 62.4     | 63.0     | 63.0     | 63.0     | 63.0     | 63.0     | 63.0     | 63.0    | 63.0    | 63.0    | 63.0    |
| GE 3500  | I    | 55.6                             | 58.8     | 63.7     | 67.6     | 68.4     | 69.6     | 70.2     | 70.2     | 70.2     | 70.2     | 70.2     | 70.2     | 70.2    | 70.2    | 70.2    | 70.2    |
| GE 3000  | I    | 65.3                             | 69.1     | 75.0     | 79.3     | 80.3     | 81.7     | 82.6     | 82.6     | 82.6     | 83.0     | 83.0     | 83.0     | 83.0    | 83.0    | 83.0    | 83.0    |
| GE 2500  | I    | 66.9                             | 70.7     | 76.9     | 81.2     | 82.6     | 83.9     | 84.8     | 84.8     | 84.8     | 85.2     | 85.2     | 85.2     | 85.2    | 85.2    | 85.2    | 85.2    |
| GE 2000  | I    | 70.4                             | 74.8     | 81.3     | 86.1     | 87.6     | 88.9     | 89.8     | 89.8     | 89.8     | 90.6     | 90.6     | 90.6     | 90.6    | 90.6    | 90.6    | 90.6    |
| GE 1800  | I    | 70.6                             | 74.9     | 81.4     | 86.2     | 87.7     | 89.0     | 89.9     | 89.9     | 89.9     | 90.7     | 90.7     | 90.7     | 90.7    | 90.7    | 90.7    | 90.7    |
| GE 1500  | I    | 71.0                             | 75.6     | 82.4     | 87.3     | 88.9     | 90.4     | 91.3     | 91.3     | 91.3     | 92.1     | 92.1     | 92.1     | 92.1    | 92.1    | 92.1    | 92.1    |
| GE 1200  | I    | 72.0                             | 76.9     | 84.3     | 90.2     | 91.9     | 93.9     | 94.8     | 94.8     | 94.8     | 95.6     | 95.6     | 95.6     | 95.6    | 95.6    | 95.6    | 95.6    |
| GE 1000  | I    | 72.2                             | 77.3     | 85.2     | 91.2     | 92.9     | 95.0     | 95.9     | 95.9     | 95.9     | 96.7     | 96.7     | 96.7     | 96.7    | 96.7    | 96.7    | 96.7    |
| GE 900   | I    | 72.2                             | 77.3     | 85.2     | 91.2     | 92.9     | 95.0     | 95.9     | 95.9     | 95.9     | 96.7     | 96.7     | 96.7     | 96.7    | 96.7    | 96.7    | 96.7    |
| GE 800   | I    | 72.2                             | 77.3     | 85.3     | 91.4     | 93.1     | 95.2     | 96.1     | 96.1     | 96.1     | 97.0     | 97.0     | 97.0     | 97.0    | 97.0    | 97.0    | 97.0    |
| GE 700   | I    | 72.2                             | 77.3     | 85.6     | 91.8     | 93.6     | 95.8     | 96.7     | 96.7     | 96.7     | 97.6     | 97.6     | 97.6     | 97.6    | 97.6    | 97.6    | 97.6    |
| GE 600   | I    | 72.2                             | 77.3     | 85.6     | 91.8     | 93.6     | 95.8     | 96.9     | 96.9     | 96.9     | 97.9     | 97.9     | 97.9     | 97.9    | 97.9    | 97.9    | 97.9    |
| GE 500   | I    | 72.2                             | 77.3     | 85.6     | 92.0     | 93.8     | 96.3     | 98.3     | 98.3     | 98.3     | 99.3     | 99.3     | 99.3     | 99.3    | 99.3    | 99.3    | 99.3    |
| GE 400   | I    | 72.2                             | 77.3     | 85.6     | 92.0     | 93.8     | 96.3     | 98.3     | 98.3     | 98.3     | 99.7     | 99.7     | 99.7     | 99.7    | 99.7    | 99.7    | 99.7    |
| GE 300   | I    | 72.2                             | 77.3     | 85.6     | 92.0     | 93.8     | 96.3     | 98.3     | 98.3     | 98.3     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 200   | I    | 72.2                             | 77.3     | 85.6     | 92.0     | 93.8     | 96.3     | 98.3     | 98.3     | 98.3     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 100   | I    | 72.2                             | 77.3     | 85.6     | 92.0     | 93.8     | 96.3     | 98.3     | 98.3     | 98.3     | 99.9     | 99.9     | 99.9     | 99.9    | 100.0   | 100.0   | 100.0   |
| GE 0     | I    | 72.2                             | 77.3     | 85.6     | 92.0     | 93.8     | 96.3     | 98.3     | 98.3     | 98.3     | 99.9     | 99.9     | 99.9     | 99.9    | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS (LST): 1800-2000

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| IN       | FEET | GE 160                           | GE 90 | GE 90 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0 |
| NO CEIL  |      | 31.7                             | 33.1  | 35.9  | 38.0  | 38.7  | 39.2  | 39.6  | 39.8  | 39.8  | 39.9  | 39.9  | 39.9  | 39.9 | 39.9 | 39.9 | 39.9 |
| GE 20000 |      | 37.4                             | 39.3  | 42.3  | 45.2  | 46.1  | 47.6  | 48.0  | 48.2  | 48.2  | 48.3  | 48.3  | 48.3  | 48.3 | 48.3 | 48.3 | 48.3 |
| GE 18000 |      | 37.6                             | 39.4  | 42.4  | 45.3  | 46.2  | 47.7  | 48.1  | 48.3  | 48.3  | 48.4  | 48.4  | 48.4  | 48.4 | 48.4 | 48.4 | 48.4 |
| GE 16000 |      | 37.6                             | 39.4  | 42.4  | 45.3  | 46.2  | 47.8  | 48.2  | 48.4  | 48.4  | 48.6  | 48.6  | 48.6  | 48.6 | 48.6 | 48.6 | 48.6 |
| GE 14000 |      | 37.6                             | 39.4  | 42.4  | 45.3  | 46.2  | 47.8  | 48.2  | 48.4  | 48.4  | 48.6  | 48.6  | 48.6  | 48.6 | 48.6 | 48.6 | 48.6 |
| GE 12000 |      | 38.4                             | 40.3  | 43.3  | 46.2  | 47.1  | 48.7  | 49.1  | 49.3  | 49.3  | 49.4  | 49.4  | 49.4  | 49.4 | 49.4 | 49.4 | 49.4 |
| GE 10000 |      | 38.7                             | 40.6  | 43.6  | 46.4  | 47.3  | 48.9  | 49.3  | 49.6  | 49.6  | 49.7  | 49.7  | 49.7  | 49.7 | 49.7 | 49.7 | 49.7 |
| GE 9000  |      | 39.2                             | 41.1  | 44.1  | 47.0  | 47.9  | 49.4  | 49.9  | 50.1  | 50.1  | 50.2  | 50.2  | 50.2  | 50.2 | 50.2 | 50.2 | 50.2 |
| GE 8000  |      | 43.3                             | 45.3  | 48.9  | 52.0  | 52.9  | 54.8  | 55.4  | 55.7  | 55.7  | 55.8  | 55.8  | 55.8  | 55.8 | 55.8 | 55.8 | 55.8 |
| GE 7000  |      | 44.8                             | 46.9  | 51.1  | 54.4  | 55.3  | 57.2  | 57.9  | 58.1  | 58.1  | 58.2  | 58.2  | 58.2  | 58.2 | 58.2 | 58.2 | 58.2 |
| GE 6000  |      | 44.8                             | 46.9  | 51.1  | 54.4  | 55.3  | 57.2  | 57.9  | 58.1  | 58.1  | 58.2  | 58.2  | 58.2  | 58.2 | 58.2 | 58.2 | 58.2 |
| GE 5000  |      | 46.4                             | 48.6  | 52.8  | 56.1  | 57.0  | 58.9  | 59.6  | 59.8  | 59.8  | 59.9  | 59.9  | 59.9  | 59.9 | 59.9 | 59.9 | 59.9 |
| GE 4500  |      | 46.9                             | 49.0  | 53.2  | 56.6  | 57.4  | 59.3  | 60.0  | 60.2  | 60.2  | 60.3  | 60.3  | 60.3  | 60.3 | 60.3 | 60.3 | 60.3 |
| GE 4000  |      | 52.9                             | 55.1  | 59.9  | 63.8  | 65.0  | 66.9  | 67.6  | 68.0  | 68.0  | 68.1  | 68.1  | 68.1  | 68.1 | 68.1 | 68.1 | 68.1 |
| GE 3500  |      | 56.1                             | 58.4  | 63.4  | 67.6  | 68.9  | 70.9  | 72.0  | 72.4  | 72.4  | 72.6  | 72.6  | 72.6  | 72.6 | 72.6 | 72.6 | 72.6 |
| GE 3000  |      | 64.3                             | 67.4  | 73.8  | 78.1  | 79.4  | 81.6  | 83.1  | 83.9  | 83.9  | 84.0  | 84.0  | 84.0  | 84.0 | 84.0 | 84.0 | 84.0 |
| GE 2500  |      | 65.0                             | 68.1  | 74.4  | 78.8  | 80.1  | 82.2  | 83.8  | 84.6  | 84.6  | 84.7  | 84.7  | 84.7  | 84.7 | 84.7 | 84.7 | 84.7 |
| GE 2000  |      | 67.0                             | 70.3  | 77.6  | 82.8  | 84.1  | 86.8  | 88.3  | 89.1  | 89.2  | 89.3  | 89.3  | 89.3  | 89.3 | 89.3 | 89.3 | 89.3 |
| GE 1800  |      | 67.0                             | 70.3  | 77.6  | 82.8  | 84.1  | 86.8  | 88.3  | 89.1  | 89.2  | 89.3  | 89.3  | 89.3  | 89.3 | 89.3 | 89.3 | 89.3 |
| GE 1500  |      | 67.6                             | 70.9  | 78.2  | 83.9  | 85.3  | 88.0  | 89.6  | 90.4  | 90.6  | 90.7  | 90.7  | 90.7  | 90.7 | 90.7 | 90.7 | 90.7 |
| GE 1200  |      | 67.8                             | 71.3  | 79.3  | 85.4  | 86.9  | 90.4  | 92.0  | 92.9  | 93.0  | 93.1  | 93.1  | 93.1  | 93.1 | 93.1 | 93.1 | 93.1 |
| GE 1000  |      | 68.2                             | 71.8  | 79.8  | 86.1  | 87.6  | 91.6  | 93.3  | 94.2  | 94.3  | 94.4  | 94.4  | 94.4  | 94.4 | 94.4 | 94.4 | 94.4 |
| GE 900   |      | 68.2                             | 71.8  | 79.9  | 86.6  | 88.0  | 92.0  | 93.8  | 94.7  | 94.9  | 95.0  | 95.0  | 95.0  | 95.0 | 95.0 | 95.0 | 95.0 |
| GE 800   |      | 68.2                             | 71.8  | 80.1  | 87.0  | 88.4  | 92.4  | 94.2  | 95.2  | 95.4  | 95.6  | 95.6  | 95.6  | 95.6 | 95.6 | 95.6 | 95.6 |
| GE 700   |      | 68.3                             | 71.9  | 80.4  | 87.6  | 89.0  | 93.0  | 94.9  | 95.9  | 96.3  | 96.4  | 96.4  | 96.4  | 96.4 | 96.4 | 96.4 | 96.4 |
| GE 600   |      | 68.3                             | 71.9  | 80.4  | 87.6  | 89.1  | 93.2  | 95.2  | 96.2  | 96.8  | 96.9  | 96.9  | 96.9  | 96.9 | 96.9 | 96.9 | 96.9 |
| GE 500   |      | 68.3                             | 72.0  | 80.8  | 87.9  | 89.4  | 94.0  | 96.1  | 97.3  | 98.0  | 98.1  | 98.1  | 98.2  | 98.2 | 98.2 | 98.2 | 98.2 |
| GE 400   |      | 68.3                             | 72.0  | 80.8  | 87.9  | 89.4  | 94.1  | 96.2  | 97.4  | 98.1  | 98.2  | 98.2  | 98.3  | 98.3 | 98.3 | 98.3 | 98.3 |
| GE 300   |      | 68.3                             | 72.0  | 80.8  | 87.9  | 89.4  | 94.1  | 96.2  | 97.6  | 98.4  | 98.6  | 98.6  | 98.7  | 98.8 | 98.8 | 98.8 | 98.8 |
| GE 200   |      | 68.3                             | 72.0  | 80.8  | 87.9  | 89.4  | 94.1  | 96.2  | 97.7  | 98.6  | 98.7  | 98.8  | 98.8  | 98.9 | 98.9 | 98.9 | 98.9 |
| GE 100   |      | 68.3                             | 72.0  | 80.8  | 87.9  | 89.4  | 94.1  | 96.2  | 97.7  | 98.6  | 98.8  | 98.8  | 98.9  | 98.9 | 98.9 | 98.9 | 98.9 |
| GE 0     |      | 68.3                             | 72.0  | 80.8  | 87.9  | 89.4  | 94.1  | 96.2  | 97.7  | 98.6  | 98.8  | 98.9  | 98.9  | 99.0 | 99.0 | 99.0 | 99.0 |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(IST): 2100-2300

| CEILING  |   | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |      |      |      |      |  |
|----------|---|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|--|
| IN FEET  |   | GE 160                           | GE 90 | GE 80 | GE 60 | GE 40 | GE 30 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0 |  |
| NO CEIL  | 1 | 36.7                             | 38.3  | 41.2  | 43.1  | 43.4  | 44.4  | 44.6  | 45.0  | 45.2  | 45.2  | 45.2  | 45.2 | 45.2 | 45.2 | 45.4 |  |
| GE 20000 | 1 | 39.1                             | 41.2  | 44.1  | 46.6  | 47.1  | 49.0  | 49.1  | 49.6  | 49.8  | 49.8  | 49.8  | 49.8 | 49.8 | 49.8 | 50.0 |  |
| GE 18000 | 1 | 39.2                             | 41.3  | 44.2  | 46.9  | 47.2  | 49.1  | 49.2  | 49.7  | 49.9  | 49.9  | 49.9  | 49.9 | 49.9 | 49.9 | 50.1 |  |
| GE 16000 | 1 | 39.2                             | 41.3  | 44.2  | 46.9  | 47.2  | 49.1  | 49.2  | 49.7  | 49.9  | 49.9  | 49.9  | 49.9 | 49.9 | 49.9 | 50.1 |  |
| GE 14000 | 1 | 39.2                             | 41.3  | 44.2  | 46.9  | 47.2  | 49.1  | 49.2  | 49.7  | 49.9  | 49.9  | 49.9  | 49.9 | 49.9 | 49.9 | 50.1 |  |
| GE 12000 | 1 | 39.4                             | 41.6  | 44.4  | 47.1  | 47.4  | 49.3  | 49.4  | 49.9  | 50.1  | 50.1  | 50.1  | 50.1 | 50.1 | 50.1 | 50.3 |  |
| GE 10000 | 1 | 40.1                             | 42.2  | 45.1  | 47.8  | 48.1  | 50.0  | 50.1  | 50.6  | 50.8  | 50.8  | 50.8  | 50.8 | 50.8 | 50.8 | 51.0 |  |
| GE 9000  | 1 | 40.3                             | 42.4  | 45.3  | 48.0  | 48.3  | 50.2  | 50.3  | 50.8  | 51.0  | 51.0  | 51.0  | 51.0 | 51.0 | 51.0 | 51.2 |  |
| GE 8000  | 1 | 43.2                             | 45.6  | 48.7  | 51.4  | 51.8  | 53.9  | 54.4  | 55.2  | 55.4  | 55.4  | 55.4  | 55.4 | 55.4 | 55.4 | 55.7 |  |
| GE 7000  | 1 | 44.3                             | 46.8  | 50.4  | 53.4  | 53.8  | 55.9  | 56.4  | 57.2  | 57.4  | 57.4  | 57.4  | 57.4 | 57.4 | 57.4 | 57.7 |  |
| GE 6000  | 1 | 44.3                             | 46.8  | 50.4  | 53.4  | 53.8  | 55.9  | 56.4  | 57.2  | 57.4  | 57.4  | 57.4  | 57.4 | 57.4 | 57.4 | 57.7 |  |
| GE 5000  | 1 | 46.2                             | 48.8  | 52.6  | 55.6  | 55.9  | 58.0  | 58.6  | 59.3  | 59.6  | 59.6  | 59.6  | 59.6 | 59.6 | 59.6 | 59.8 |  |
| GE 4500  | 1 | 46.9                             | 49.6  | 53.3  | 56.3  | 56.7  | 59.0  | 59.6  | 60.3  | 60.6  | 60.6  | 60.6  | 60.6 | 60.6 | 60.6 | 60.8 |  |
| GE 4000  | 1 | 51.9                             | 55.0  | 59.4  | 62.7  | 63.3  | 65.8  | 66.4  | 67.3  | 67.6  | 67.6  | 67.6  | 67.6 | 67.6 | 67.6 | 67.8 |  |
| GE 3500  | 1 | 53.2                             | 56.4  | 61.6  | 64.9  | 65.6  | 68.1  | 69.0  | 69.9  | 70.1  | 70.1  | 70.1  | 70.1 | 70.1 | 70.1 | 70.3 |  |
| GE 3000  | 1 | 60.0                             | 63.8  | 69.8  | 73.4  | 74.1  | 76.7  | 77.8  | 79.0  | 79.2  | 79.2  | 79.2  | 79.2 | 79.2 | 79.2 | 79.4 |  |
| GE 2500  | 1 | 61.0                             | 64.8  | 71.1  | 74.9  | 75.6  | 78.1  | 79.3  | 80.6  | 80.8  | 80.8  | 80.8  | 80.8 | 80.8 | 80.8 | 81.0 |  |
| GE 2000  | 1 | 63.9                             | 68.0  | 75.2  | 79.3  | 80.0  | 83.0  | 84.4  | 85.7  | 86.0  | 86.0  | 86.0  | 86.0 | 86.0 | 86.0 | 86.2 |  |
| GE 1800  | 1 | 64.0                             | 68.1  | 75.3  | 79.4  | 80.1  | 83.1  | 84.6  | 85.9  | 86.1  | 86.1  | 86.1  | 86.1 | 86.1 | 86.1 | 86.3 |  |
| GE 1500  | 1 | 64.2                             | 68.4  | 76.0  | 81.0  | 81.7  | 84.7  | 86.1  | 87.4  | 87.6  | 87.8  | 87.8  | 87.8 | 87.8 | 87.8 | 88.0 |  |
| GE 1200  | 1 | 65.6                             | 70.1  | 77.8  | 83.2  | 83.9  | 87.6  | 89.1  | 90.4  | 90.8  | 90.8  | 90.8  | 90.8 | 90.8 | 90.8 | 91.0 |  |
| GE 1000  | 1 | 66.4                             | 71.0  | 78.9  | 84.6  | 85.2  | 89.2  | 91.0  | 92.3  | 92.7  | 92.7  | 92.7  | 92.7 | 92.7 | 92.7 | 92.9 |  |
| GE 900   | 1 | 66.4                             | 71.0  | 78.9  | 84.6  | 85.6  | 89.6  | 91.3  | 92.7  | 93.0  | 93.0  | 93.0  | 93.0 | 93.0 | 93.0 | 93.2 |  |
| GE 800   | 1 | 66.4                             | 71.2  | 79.3  | 85.6  | 86.2  | 90.2  | 92.4  | 93.8  | 94.1  | 94.1  | 94.1  | 94.1 | 94.1 | 94.1 | 94.3 |  |
| GE 700   | 1 | 66.4                             | 71.2  | 79.4  | 86.1  | 86.8  | 90.9  | 93.1  | 94.4  | 95.3  | 95.4  | 95.4  | 95.4 | 95.4 | 95.4 | 95.7 |  |
| GE 600   | 1 | 66.4                             | 71.2  | 79.4  | 86.1  | 86.8  | 90.9  | 93.1  | 94.7  | 95.7  | 95.8  | 95.8  | 95.8 | 95.8 | 95.8 | 96.0 |  |
| GE 500   | 1 | 66.4                             | 71.3  | 79.7  | 86.4  | 87.1  | 92.2  | 94.7  | 96.3  | 97.3  | 97.4  | 97.4  | 97.4 | 97.4 | 97.4 | 97.7 |  |
| GE 400   | 1 | 66.4                             | 71.3  | 79.7  | 86.4  | 87.2  | 92.4  | 94.9  | 96.6  | 97.8  | 97.9  | 97.9  | 97.9 | 97.9 | 97.9 | 98.1 |  |
| GE 300   | 1 | 66.4                             | 71.3  | 79.7  | 86.4  | 87.2  | 92.6  | 95.0  | 96.9  | 98.2  | 98.3  | 98.3  | 98.3 | 98.3 | 98.3 | 98.7 |  |
| GE 200   | 1 | 66.4                             | 71.3  | 79.7  | 86.4  | 87.2  | 92.6  | 95.0  | 97.0  | 98.4  | 98.6  | 98.6  | 98.6 | 98.6 | 98.6 | 99.0 |  |
| GE 100   | 1 | 66.4                             | 71.3  | 79.7  | 86.4  | 87.2  | 92.6  | 95.0  | 97.0  | 98.4  | 98.6  | 98.6  | 98.6 | 98.6 | 98.6 | 99.0 |  |
| GE 0     | 1 | 66.4                             | 71.3  | 79.7  | 86.4  | 87.2  | 92.6  | 95.0  | 97.0  | 98.4  | 98.6  | 98.6  | 98.6 | 98.6 | 98.6 | 99.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: APR HOURS (LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 |
| NO CEIL               |                                  | 27.2     | 29.3     | 32.5     | 34.3     | 34.8     | 35.7     | 36.3     | 36.5     | 36.7     | 36.7     | 36.7     | 36.8    | 36.8    | 36.9    |
| GE 20000              |                                  | 31.2     | 33.8     | 37.6     | 40.0     | 40.5     | 41.9     | 42.6     | 42.9     | 43.1     | 43.2     | 43.2     | 43.3    | 43.3    | 43.3    |
| GE 18000              |                                  | 31.5     | 34.0     | 37.9     | 40.3     | 40.8     | 42.2     | 42.9     | 43.2     | 43.4     | 43.5     | 43.5     | 43.6    | 43.6    | 43.7    |
| GE 16000              |                                  | 31.5     | 34.0     | 37.9     | 40.3     | 40.8     | 42.3     | 42.9     | 43.3     | 43.5     | 43.5     | 43.6     | 43.6    | 43.7    | 43.7    |
| GE 14000              |                                  | 31.5     | 34.0     | 37.9     | 40.3     | 40.8     | 42.3     | 42.9     | 43.3     | 43.5     | 43.5     | 43.6     | 43.6    | 43.7    | 43.7    |
| GE 12000              |                                  | 31.6     | 34.3     | 38.2     | 40.5     | 41.1     | 42.5     | 43.2     | 43.5     | 43.8     | 43.8     | 43.8     | 43.9    | 43.9    | 44.1    |
| GE 10000              |                                  | 32.5     | 35.1     | 39.1     | 41.6     | 42.1     | 43.6     | 44.3     | 44.6     | 44.9     | 44.9     | 44.9     | 45.0    | 45.0    | 45.1    |
| GE 9000               |                                  | 32.9     | 35.6     | 39.7     | 42.2     | 42.7     | 44.2     | 44.9     | 45.2     | 45.4     | 45.5     | 45.5     | 45.6    | 45.6    | 45.7    |
| GE 8000               |                                  | 36.2     | 39.2     | 43.8     | 46.8     | 47.3     | 48.9     | 49.8     | 50.1     | 50.4     | 50.4     | 50.4     | 50.5    | 50.5    | 50.6    |
| GE 7000               |                                  | 37.2     | 40.3     | 45.3     | 48.4     | 49.0     | 50.7     | 51.5     | 51.9     | 52.1     | 52.2     | 52.2     | 52.3    | 52.3    | 52.4    |
| GE 6000               |                                  | 37.3     | 40.4     | 45.3     | 48.5     | 49.1     | 50.7     | 51.6     | 51.9     | 52.2     | 52.3     | 52.3     | 52.3    | 52.4    | 52.4    |
| GE 5000               |                                  | 38.9     | 42.3     | 47.5     | 50.8     | 51.4     | 53.1     | 53.9     | 54.3     | 54.6     | 54.6     | 54.7     | 54.7    | 54.8    | 54.8    |
| GE 4500               |                                  | 39.5     | 43.0     | 48.3     | 51.6     | 52.3     | 54.1     | 54.9     | 55.3     | 55.7     | 55.7     | 55.8     | 55.8    | 55.9    | 55.9    |
| GE 4000               |                                  | 44.5     | 48.3     | 54.5     | 58.2     | 59.1     | 61.3     | 62.3     | 62.7     | 63.1     | 63.2     | 63.2     | 63.3    | 63.4    | 63.4    |
| GE 3500               |                                  | 48.1     | 52.0     | 58.6     | 62.6     | 63.5     | 65.9     | 67.1     | 67.5     | 68.0     | 68.0     | 68.1     | 68.1    | 68.2    | 68.2    |
| GE 3000               |                                  | 56.0     | 60.4     | 68.0     | 72.4     | 73.4     | 75.9     | 77.3     | 77.8     | 78.4     | 78.4     | 78.5     | 78.5    | 78.6    | 78.6    |
| GE 2500               |                                  | 57.1     | 61.7     | 69.4     | 73.8     | 74.9     | 77.4     | 78.7     | 79.3     | 79.9     | 79.9     | 80.0     | 80.0    | 80.1    | 80.1    |
| GE 2000               |                                  | 60.8     | 65.8     | 74.0     | 78.7     | 79.8     | 82.6     | 84.0     | 84.6     | 85.3     | 85.4     | 85.5     | 85.5    | 85.6    | 85.6    |
| GE 1800               |                                  | 60.9     | 65.9     | 74.2     | 79.0     | 80.0     | 82.8     | 84.3     | 84.9     | 85.6     | 85.7     | 85.7     | 85.8    | 85.8    | 85.9    |
| GE 1500               |                                  | 61.7     | 66.8     | 75.5     | 80.6     | 81.7     | 84.6     | 86.0     | 86.7     | 87.4     | 87.4     | 87.5     | 87.6    | 87.6    | 87.7    |
| GE 1200               |                                  | 63.2     | 68.6     | 77.8     | 83.4     | 84.5     | 87.9     | 89.4     | 90.1     | 90.8     | 90.8     | 90.9     | 91.0    | 91.1    | 91.1    |
| GE 1000               |                                  | 63.7     | 69.2     | 78.8     | 84.6     | 85.8     | 89.3     | 90.9     | 91.6     | 92.3     | 92.4     | 92.5     | 92.6    | 92.6    | 92.7    |
| GE 900                |                                  | 63.8     | 69.3     | 79.0     | 84.9     | 86.1     | 89.7     | 91.4     | 92.0     | 92.8     | 92.8     | 93.0     | 93.0    | 93.1    | 93.1    |
| GE 800                |                                  | 63.9     | 69.5     | 79.3     | 85.4     | 86.6     | 90.3     | 92.0     | 92.7     | 93.5     | 93.5     | 93.6     | 93.7    | 93.8    | 93.8    |
| GE 700                |                                  | 63.9     | 69.5     | 79.5     | 85.6     | 87.1     | 90.9     | 92.8     | 93.5     | 94.4     | 94.5     | 94.7     | 94.7    | 94.8    | 94.8    |
| GE 600                |                                  | 64.0     | 69.7     | 79.7     | 86.2     | 87.4     | 91.4     | 93.4     | 94.1     | 95.2     | 95.3     | 95.4     | 95.5    | 95.6    | 95.6    |
| GE 500                |                                  | 64.0     | 69.8     | 79.9     | 86.5     | 87.8     | 92.2     | 94.5     | 95.4     | 96.5     | 96.7     | 96.8     | 96.8    | 97.0    | 97.1    |
| GE 400                |                                  | 64.0     | 69.8     | 79.9     | 86.5     | 87.8     | 92.3     | 94.7     | 95.7     | 97.1     | 97.4     | 97.5     | 97.6    | 97.8    | 97.9    |
| GE 300                |                                  | 64.0     | 69.8     | 79.9     | 86.6     | 87.9     | 92.4     | 94.9     | 96.0     | 97.6     | 97.9     | 98.1     | 98.3    | 98.6    | 98.8    |
| GE 200                |                                  | 64.0     | 69.8     | 79.9     | 86.6     | 87.9     | 92.5     | 94.9     | 96.1     | 97.7     | 98.1     | 98.4     | 98.7    | 99.1    | 99.3    |
| GE 100                |                                  | 64.0     | 69.8     | 79.9     | 86.6     | 87.9     | 92.5     | 94.9     | 96.1     | 97.7     | 98.1     | 98.4     | 98.8    | 99.3    | 99.5    |
| GE 0                  |                                  | 64.0     | 69.8     | 79.9     | 86.6     | 87.9     | 92.5     | 94.9     | 96.1     | 97.7     | 98.1     | 98.4     | 98.8    | 99.3    | 99.5    |

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87

MONTH: MAY HOURS(LST): 0000-0100

| CEILING<br>IN<br>FEET |   | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|---|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       |   | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 1 | 35.9                             | 38.3     | 43.4     | 44.6     | 44.6     | 47.1     | 48.3     | 48.3     | 48.3     | 48.3     | 48.4     | 48.4     | 48.5    | 48.5    | 48.5    | 48.5    |
| GE 20000              |   | 38.7                             | 42.2     | 47.7     | 49.6     | 49.8     | 52.2     | 53.4     | 53.4     | 53.4     | 53.4     | 53.5     | 53.5     | 53.6    | 53.6    | 53.6    | 53.6    |
| GE 18000              |   | 38.7                             | 42.2     | 47.7     | 49.6     | 49.8     | 52.2     | 53.4     | 53.4     | 53.4     | 53.4     | 53.5     | 53.5     | 53.6    | 53.6    | 53.6    | 53.6    |
| GE 16000              |   | 38.7                             | 42.2     | 47.7     | 49.6     | 49.8     | 52.2     | 53.4     | 53.4     | 53.4     | 53.4     | 53.5     | 53.5     | 53.6    | 53.6    | 53.6    | 53.6    |
| GE 14000              |   | 38.7                             | 42.2     | 47.7     | 49.6     | 49.8     | 52.2     | 53.4     | 53.4     | 53.4     | 53.4     | 53.5     | 53.5     | 53.6    | 53.6    | 53.6    | 53.6    |
| GE 12000              |   | 38.7                             | 42.2     | 47.7     | 49.6     | 49.8     | 52.2     | 53.4     | 53.4     | 53.4     | 53.4     | 53.5     | 53.5     | 53.6    | 53.6    | 53.6    | 53.6    |
| GE 10000              |   | 39.2                             | 42.8     | 48.7     | 50.6     | 50.8     | 53.2     | 54.4     | 54.4     | 54.4     | 54.4     | 54.5     | 54.5     | 54.6    | 54.6    | 54.6    | 54.6    |
| GE 9000               |   | 39.2                             | 42.8     | 48.7     | 50.6     | 50.8     | 53.2     | 54.4     | 54.4     | 54.4     | 54.4     | 54.5     | 54.5     | 54.6    | 54.6    | 54.6    | 54.6    |
| GE 8000               |   | 41.9                             | 46.2     | 53.6     | 55.9     | 56.1     | 58.7     | 59.9     | 59.9     | 59.9     | 60.0     | 60.1     | 60.1     | 60.2    | 60.2    | 60.2    | 60.2    |
| GE 7000               |   | 42.6                             | 46.9     | 54.4     | 56.7     | 57.1     | 59.7     | 60.8     | 60.8     | 60.8     | 60.9     | 61.1     | 61.1     | 61.2    | 61.2    | 61.2    | 61.2    |
| GE 6000               |   | 42.6                             | 46.9     | 54.5     | 56.9     | 57.2     | 59.8     | 60.9     | 60.9     | 60.9     | 61.1     | 61.2     | 61.2     | 61.3    | 61.3    | 61.3    | 61.3    |
| GE 5000               |   | 43.4                             | 48.4     | 56.2     | 58.7     | 59.0     | 61.7     | 62.9     | 62.9     | 63.0     | 63.1     | 63.1     | 63.1     | 63.2    | 63.2    | 63.2    | 63.2    |
| GE 4500               |   | 44.3                             | 49.4     | 57.3     | 59.8     | 60.1     | 62.8     | 64.1     | 64.1     | 64.1     | 64.2     | 64.3     | 64.3     | 64.4    | 64.4    | 64.4    | 64.4    |
| GE 4000               |   | 44.3                             | 49.4     | 57.3     | 59.8     | 60.1     | 62.8     | 64.1     | 64.1     | 64.1     | 64.2     | 64.3     | 64.3     | 64.4    | 64.4    | 64.4    | 64.4    |
| GE 3500               |   | 49.0                             | 55.1     | 64.2     | 67.2     | 67.6     | 70.7     | 72.3     | 72.3     | 72.3     | 72.4     | 72.5     | 72.5     | 72.6    | 72.6    | 72.6    | 72.6    |
| GE 3000               |   | 50.9                             | 57.3     | 66.6     | 69.7     | 70.4     | 73.7     | 75.3     | 75.3     | 75.3     | 75.4     | 75.5     | 75.5     | 75.6    | 75.6    | 75.6    | 75.6    |
| GE 2500               |   | 54.6                             | 61.7     | 72.3     | 75.6     | 76.4     | 79.6     | 81.6     | 81.6     | 81.9     | 82.0     | 82.1     | 82.1     | 82.2    | 82.2    | 82.2    | 82.2    |
| GE 2000               |   | 54.7                             | 61.8     | 72.9     | 76.3     | 77.0     | 80.4     | 82.3     | 82.6     | 82.6     | 82.7     | 82.8     | 82.8     | 83.0    | 83.0    | 83.0    | 83.0    |
| GE 1800               |   | 55.4                             | 62.8     | 73.9     | 77.3     | 78.1     | 81.7     | 83.6     | 83.9     | 84.0     | 84.0     | 84.1     | 84.1     | 84.3    | 84.3    | 84.3    | 84.3    |
| GE 1600               |   | 55.4                             | 62.8     | 73.9     | 77.3     | 78.1     | 81.7     | 83.6     | 83.9     | 84.0     | 84.0     | 84.1     | 84.1     | 84.3    | 84.3    | 84.3    | 84.3    |
| GE 1400               |   | 55.4                             | 62.8     | 73.9     | 77.3     | 78.1     | 81.7     | 83.6     | 83.9     | 84.0     | 84.0     | 84.1     | 84.1     | 84.3    | 84.3    | 84.3    | 84.3    |
| GE 1200               |   | 55.6                             | 63.1     | 75.4     | 78.9     | 79.6     | 83.2     | 85.2     | 85.7     | 85.8     | 85.9     | 85.9     | 86.0     | 86.0    | 86.0    | 86.0    | 86.0    |
| GE 1000               |   | 56.0                             | 63.8     | 76.4     | 79.9     | 80.7     | 84.3     | 86.3     | 86.7     | 86.8     | 86.9     | 86.9     | 87.1     | 87.1    | 87.1    | 87.1    | 87.1    |
| GE 900                |   | 56.4                             | 64.3     | 77.1     | 81.1     | 81.9     | 85.8     | 87.8     | 88.2     | 88.3     | 88.5     | 88.5     | 88.6     | 88.6    | 88.6    | 88.6    | 88.6    |
| GE 800                |   | 56.5                             | 64.4     | 77.2     | 81.2     | 82.1     | 86.2     | 88.2     | 88.7     | 88.8     | 88.9     | 88.9     | 89.0     | 89.0    | 89.0    | 89.0    | 89.0    |
| GE 700                |   | 56.5                             | 64.5     | 77.8     | 81.9     | 82.7     | 86.9     | 89.4     | 89.9     | 90.0     | 90.1     | 90.1     | 90.2     | 90.2    | 90.2    | 90.2    | 90.2    |
| GE 600                |   | 57.4                             | 65.7     | 79.6     | 84.1     | 85.0     | 91.1     | 92.6     | 93.0     | 93.1     | 93.2     | 93.2     | 93.3     | 93.3    | 93.3    | 93.3    | 93.3    |
| GE 500                |   | 57.5                             | 66.3     | 82.4     | 85.6     | 85.9     | 91.0     | 93.5     | 94.0     | 94.1     | 94.2     | 94.2     | 94.3     | 94.3    | 94.3    | 94.3    | 94.3    |
| GE 400                |   | 57.5                             | 66.3     | 82.4     | 85.6     | 85.9     | 91.0     | 93.5     | 94.0     | 94.1     | 94.2     | 94.2     | 94.3     | 94.3    | 94.3    | 94.3    | 94.3    |
| GE 300                |   | 57.5                             | 66.3     | 82.4     | 85.6     | 85.9     | 91.0     | 93.5     | 94.0     | 94.1     | 94.2     | 94.2     | 94.3     | 94.3    | 94.3    | 94.3    | 94.3    |
| GE 200                |   | 57.5                             | 66.3     | 82.4     | 85.6     | 85.9     | 91.0     | 93.5     | 94.0     | 94.1     | 94.2     | 94.2     | 94.3     | 94.3    | 94.3    | 94.3    | 94.3    |
| GE 100                |   | 57.5                             | 66.3     | 82.4     | 85.6     | 85.9     | 91.0     | 93.5     | 94.0     | 94.1     | 94.2     | 94.2     | 94.3     | 94.3    | 94.3    | 94.3    | 94.3    |
| GE                    | 0 | 57.5                             | 66.3     | 82.4     | 85.6     | 85.9     | 91.0     | 93.5     | 94.0     | 94.1     | 94.2     | 94.2     | 94.3     | 94.3    | 94.3    | 94.3    | 94.3    |

TOTAL NUMBER OF OBSERVATIONS: 927



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAY

HOURS(IST): 0300-0500

| CEILING  |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |
|----------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|
| IN       | GT  | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE |
| FEET     | 160 | 90                               | 80   | 60   | 40   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     | 0  |
| NO CEIL  |     | 24.2                             | 27.2 | 31.6 | 33.4 | 33.9 | 36.0 | 37.5 | 38.1 | 38.6 | 38.6 | 38.6 | 38.8 | 39.2 | 39.5 | 39.7  |    |
| GE 20000 |     | 26.3                             | 30.1 | 34.7 | 37.5 | 38.3 | 40.9 | 42.5 | 43.0 | 43.6 | 43.6 | 43.6 | 43.8 | 44.1 | 44.4 | 44.7  |    |
| GE 18000 |     | 26.4                             | 30.2 | 34.8 | 37.6 | 38.4 | 41.0 | 42.6 | 43.1 | 43.7 | 43.7 | 43.7 | 43.9 | 44.2 | 44.6 | 44.8  |    |
| GE 16000 |     | 26.4                             | 30.2 | 34.8 | 37.6 | 38.4 | 41.0 | 42.6 | 43.1 | 43.7 | 43.7 | 43.7 | 43.9 | 44.2 | 44.6 | 44.8  |    |
| GE 14000 |     | 26.4                             | 30.2 | 34.8 | 37.6 | 38.4 | 41.0 | 42.6 | 43.1 | 43.7 | 43.7 | 43.7 | 43.9 | 44.2 | 44.6 | 44.8  |    |
| GE 12000 |     | 26.4                             | 30.2 | 34.8 | 37.6 | 38.4 | 41.0 | 42.7 | 43.3 | 43.8 | 43.8 | 43.8 | 44.0 | 44.3 | 44.7 | 44.9  |    |
| GE 10000 |     | 27.0                             | 31.0 | 35.7 | 38.7 | 39.6 | 42.2 | 44.0 | 44.6 | 45.1 | 45.1 | 45.1 | 45.3 | 45.6 | 46.0 | 46.2  |    |
| GE 9000  |     | 27.2                             | 31.2 | 35.9 | 38.9 | 39.8 | 42.4 | 44.2 | 44.9 | 45.4 | 45.4 | 45.4 | 45.6 | 46.0 | 46.3 | 46.5  |    |
| GE 8000  |     | 29.6                             | 33.9 | 40.0 | 43.3 | 44.3 | 47.2 | 49.7 | 50.4 | 51.0 | 51.0 | 51.0 | 51.2 | 51.6 | 51.9 | 52.1  |    |
| GE 7000  |     | 30.3                             | 34.8 | 41.0 | 44.3 | 45.4 | 48.3 | 50.8 | 51.5 | 52.1 | 52.1 | 52.1 | 52.3 | 52.6 | 53.0 | 53.2  |    |
| GE 6000  |     | 30.3                             | 34.8 | 41.0 | 44.3 | 45.4 | 48.3 | 50.8 | 51.5 | 52.1 | 52.1 | 52.1 | 52.3 | 52.6 | 53.0 | 53.2  |    |
| GE 5000  |     | 31.2                             | 36.2 | 42.6 | 46.1 | 47.2 | 50.4 | 52.9 | 53.5 | 54.4 | 54.4 | 54.4 | 54.7 | 55.1 | 55.4 | 55.7  |    |
| GE 4500  |     | 31.8                             | 36.9 | 43.4 | 47.0 | 48.2 | 51.3 | 53.8 | 54.5 | 55.3 | 55.3 | 55.3 | 55.7 | 56.1 | 56.4 | 56.6  |    |
| GE 4000  |     | 35.8                             | 41.2 | 49.0 | 53.3 | 54.7 | 58.8 | 61.6 | 62.2 | 63.3 | 63.3 | 63.3 | 63.6 | 64.1 | 64.4 | 64.6  |    |
| GE 3500  |     | 38.2                             | 43.6 | 51.6 | 56.2 | 57.7 | 62.4 | 65.5 | 66.1 | 67.3 | 67.3 | 67.3 | 67.6 | 68.1 | 68.4 | 68.6  |    |
| GE 3000  |     | 42.5                             | 48.1 | 56.9 | 61.7 | 63.4 | 68.2 | 71.3 | 72.1 | 73.4 | 73.4 | 73.4 | 73.7 | 74.1 | 74.4 | 74.6  |    |
| GE 2500  |     | 42.6                             | 48.2 | 57.0 | 61.8 | 63.5 | 68.4 | 71.5 | 72.3 | 73.6 | 73.6 | 73.6 | 73.9 | 74.3 | 74.6 | 74.9  |    |
| GE 2000  |     | 44.0                             | 50.1 | 58.9 | 63.9 | 65.6 | 70.4 | 73.7 | 74.4 | 75.8 | 75.8 | 75.8 | 76.2 | 76.6 | 76.9 | 77.1  |    |
| GE 1800  |     | 44.3                             | 50.5 | 59.4 | 64.4 | 66.1 | 71.7 | 74.3 | 75.2 | 76.6 | 76.6 | 76.6 | 76.9 | 77.3 | 77.7 | 77.9  |    |
| GE 1500  |     | 44.9                             | 51.6 | 61.1 | 66.0 | 67.7 | 72.8 | 76.3 | 77.1 | 78.5 | 78.5 | 78.5 | 78.9 | 79.3 | 79.6 | 79.8  |    |
| GE 1200  |     | 45.4                             | 52.3 | 62.5 | 67.5 | 69.4 | 74.6 | 78.1 | 79.2 | 80.8 | 80.8 | 80.8 | 81.1 | 81.6 | 81.9 | 82.1  |    |
| GE 1000  |     | 45.8                             | 53.0 | 63.9 | 69.7 | 72.0 | 77.3 | 81.0 | 82.1 | 83.7 | 83.7 | 83.7 | 84.0 | 84.5 | 84.8 | 85.0  |    |
| GE 900   |     | 46.0                             | 53.2 | 64.3 | 70.6 | 72.8 | 78.3 | 82.0 | 83.1 | 84.7 | 84.7 | 84.7 | 85.0 | 85.4 | 85.8 | 86.0  |    |
| GE 800   |     | 46.4                             | 53.6 | 64.7 | 71.3 | 73.7 | 79.3 | 83.3 | 84.4 | 86.0 | 86.0 | 86.0 | 86.3 | 86.7 | 87.1 | 87.3  |    |
| GE 700   |     | 46.9                             | 54.4 | 66.5 | 74.1 | 76.7 | 82.5 | 86.7 | 87.8 | 89.4 | 89.4 | 89.4 | 89.8 | 90.2 | 90.5 | 90.7  |    |
| GE 600   |     | 47.1                             | 54.7 | 67.3 | 75.1 | 77.8 | 84.0 | 88.3 | 89.4 | 91.7 | 91.7 | 91.7 | 91.9 | 92.1 | 92.1 | 92.3  |    |
| GE 500   |     | 47.1                             | 54.7 | 67.4 | 75.6 | 78.6 | 85.1 | 89.9 | 90.9 | 92.9 | 92.9 | 92.9 | 93.2 | 93.6 | 94.0 | 94.2  |    |
| GE 400   |     | 47.2                             | 54.8 | 68.0 | 76.5 | 79.5 | 86.9 | 91.9 | 93.0 | 95.0 | 95.0 | 95.0 | 95.4 | 95.8 | 96.1 | 96.3  |    |
| GE 300   |     | 47.2                             | 54.8 | 68.0 | 76.6 | 79.7 | 87.3 | 92.6 | 94.0 | 96.2 | 96.2 | 96.3 | 96.7 | 97.3 | 97.6 | 98.1  |    |
| GE 200   |     | 47.2                             | 54.8 | 68.0 | 76.6 | 79.7 | 87.3 | 92.9 | 94.4 | 96.9 | 96.9 | 97.2 | 97.5 | 98.3 | 98.6 | 99.1  |    |
| GE 100   |     | 47.2                             | 54.8 | 68.0 | 76.6 | 79.7 | 87.3 | 92.9 | 94.4 | 96.9 | 96.9 | 97.2 | 97.5 | 98.6 | 98.9 | 99.7  |    |
| GE       | 0   | 47.2                             | 54.8 | 68.0 | 76.6 | 79.7 | 87.3 | 92.9 | 94.4 | 96.9 | 96.9 | 97.2 | 97.5 | 98.6 | 98.9 | 100.0 |    |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAY HOURS(LST): 0600-0800

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  | I    | 20.0                             | 21.8  | 25.7  | 27.6  | 28.2  | 29.0  | 29.9  | 30.2  | 30.3  | 30.5  | 30.5  | 30.6  | 30.6 | 30.6 | 30.6 | 30.8  |
| GE 20000 | I    | 25.3                             | 27.6  | 32.3  | 34.9  | 35.6  | 36.6  | 38.3  | 38.6  | 38.7  | 38.9  | 38.9  | 39.0  | 39.0 | 39.0 | 39.0 | 39.2  |
| GE 18000 | I    | 25.4                             | 27.7  | 32.4  | 35.0  | 35.7  | 36.8  | 38.4  | 38.7  | 38.8  | 39.0  | 39.0  | 39.1  | 39.1 | 39.1 | 39.1 | 39.4  |
| GE 16000 | I    | 25.4                             | 27.7  | 32.4  | 35.0  | 35.7  | 36.8  | 38.4  | 38.7  | 38.8  | 39.0  | 39.0  | 39.1  | 39.1 | 39.1 | 39.1 | 39.4  |
| GE 14000 | I    | 25.4                             | 27.7  | 32.4  | 35.0  | 35.7  | 36.8  | 38.4  | 38.7  | 38.8  | 39.0  | 39.0  | 39.1  | 39.1 | 39.1 | 39.1 | 39.4  |
| GE 12000 | I    | 25.4                             | 27.7  | 32.5  | 35.2  | 35.9  | 37.0  | 38.7  | 39.0  | 39.1  | 39.4  | 39.4  | 39.5  | 39.5 | 39.5 | 39.5 | 39.7  |
| GE 10000 | I    | 26.5                             | 29.2  | 34.4  | 37.5  | 38.2  | 39.4  | 41.2  | 41.6  | 41.7  | 41.9  | 41.9  | 42.1  | 42.1 | 42.1 | 42.1 | 42.3  |
| GE 9000  | I    | 26.7                             | 29.4  | 34.6  | 37.7  | 38.5  | 39.7  | 41.5  | 41.9  | 42.1  | 42.3  | 42.3  | 42.4  | 42.4 | 42.4 | 42.4 | 42.6  |
| GE 8000  | I    | 29.9                             | 33.1  | 39.2  | 42.6  | 43.6  | 45.2  | 47.5  | 47.9  | 48.0  | 48.2  | 48.2  | 48.3  | 48.3 | 48.3 | 48.4 | 48.6  |
| GE 7000  | I    | 31.0                             | 34.4  | 40.5  | 44.1  | 44.9  | 46.6  | 48.9  | 49.4  | 49.5  | 49.7  | 49.7  | 49.8  | 49.8 | 49.8 | 49.9 | 50.2  |
| GE 6000  | I    | 31.0                             | 34.4  | 40.5  | 44.1  | 44.9  | 46.6  | 48.9  | 49.4  | 49.5  | 49.7  | 49.7  | 49.8  | 49.8 | 49.8 | 49.9 | 50.2  |
| GE 5000  | I    | 31.8                             | 35.5  | 41.9  | 45.5  | 46.3  | 48.0  | 50.3  | 50.9  | 51.0  | 51.5  | 51.5  | 51.6  | 51.6 | 51.6 | 51.7 | 51.9  |
| GE 4500  | I    | 32.6                             | 36.3  | 42.8  | 46.7  | 47.5  | 49.3  | 51.6  | 52.2  | 52.3  | 52.8  | 52.8  | 52.9  | 52.9 | 52.9 | 53.0 | 53.2  |
| GE 4000  | I    | 36.6                             | 41.2  | 49.1  | 53.6  | 54.6  | 56.5  | 58.8  | 59.6  | 59.8  | 60.2  | 60.2  | 60.3  | 60.3 | 60.3 | 60.4 | 60.6  |
| GE 3500  | I    | 39.1                             | 43.7  | 52.0  | 56.8  | 57.8  | 60.0  | 62.6  | 63.5  | 63.8  | 64.2  | 64.3  | 64.4  | 64.4 | 64.4 | 64.6 | 64.9  |
| GE 3000  | I    | 43.1                             | 47.8  | 57.2  | 62.3  | 63.4  | 65.8  | 68.6  | 69.6  | 70.1  | 70.5  | 70.6  | 70.7  | 70.7 | 70.7 | 70.9 | 71.1  |
| GE 2500  | I    | 43.9                             | 48.6  | 58.2  | 63.2  | 64.3  | 66.8  | 69.6  | 70.6  | 71.0  | 71.5  | 71.6  | 71.7  | 71.7 | 71.7 | 71.9 | 72.1  |
| GE 2000  | I    | 46.5                             | 51.2  | 61.0  | 66.5  | 67.6  | 70.1  | 73.0  | 73.9  | 74.6  | 75.0  | 75.1  | 75.2  | 75.2 | 75.2 | 75.5 | 75.7  |
| GE 1800  | I    | 46.8                             | 51.6  | 61.3  | 66.9  | 68.0  | 70.5  | 73.4  | 74.4  | 75.0  | 75.5  | 75.6  | 75.7  | 75.7 | 75.7 | 75.9 | 76.1  |
| GE 1500  | I    | 48.4                             | 53.6  | 63.6  | 69.4  | 70.5  | 73.1  | 76.1  | 77.1  | 77.8  | 78.3  | 78.4  | 78.5  | 78.5 | 78.5 | 78.7 | 78.9  |
| GE 1200  | I    | 50.2                             | 55.5  | 65.9  | 72.4  | 73.5  | 76.2  | 79.4  | 80.4  | 81.2  | 81.6  | 81.7  | 81.8  | 81.8 | 81.8 | 82.1 | 82.3  |
| GE 1000  | I    | 51.9                             | 57.4  | 68.6  | 76.1  | 77.3  | 80.1  | 83.4  | 84.5  | 85.3  | 85.7  | 85.8  | 85.9  | 85.9 | 85.9 | 86.2 | 86.4  |
| GE 900   | I    | 52.1                             | 57.6  | 69.4  | 77.6  | 78.6  | 81.9  | 85.2  | 86.4  | 87.1  | 87.6  | 87.7  | 87.8  | 87.8 | 87.8 | 88.0 | 88.2  |
| GE 800   | I    | 52.2                             | 57.8  | 69.9  | 78.5  | 79.7  | 82.9  | 86.3  | 87.5  | 88.2  | 88.6  | 88.8  | 88.9  | 88.9 | 88.9 | 89.1 | 89.3  |
| GE 700   | I    | 52.3                             | 58.1  | 70.8  | 79.5  | 81.0  | 84.6  | 88.8  | 90.1  | 90.9  | 91.4  | 91.5  | 91.6  | 91.6 | 91.6 | 91.8 | 92.0  |
| GE 600   | I    | 52.6                             | 58.4  | 71.5  | 80.1  | 81.8  | 86.4  | 90.7  | 92.0  | 92.9  | 93.3  | 93.4  | 93.5  | 93.5 | 93.5 | 93.7 | 93.9  |
| GE 500   | I    | 52.6                             | 58.5  | 71.8  | 81.0  | 82.6  | 88.0  | 92.9  | 94.3  | 95.2  | 95.7  | 95.8  | 95.9  | 95.9 | 95.9 | 96.1 | 96.3  |
| GE 400   | I    | 52.6                             | 58.5  | 72.0  | 81.3  | 83.4  | 88.5  | 93.8  | 95.2  | 96.2  | 96.6  | 96.9  | 97.2  | 97.2 | 97.2 | 97.4 | 97.6  |
| GE 300   | I    | 52.6                             | 58.5  | 72.0  | 81.3  | 83.4  | 88.5  | 93.9  | 95.5  | 96.9  | 97.5  | 97.8  | 98.2  | 98.2 | 98.2 | 98.4 | 98.8  |
| GE 200   | I    | 52.6                             | 58.5  | 72.0  | 81.3  | 83.4  | 88.5  | 94.2  | 95.7  | 97.2  | 97.9  | 98.3  | 98.7  | 99.1 | 99.1 | 99.4 | 99.8  |
| GE 100   | I    | 52.6                             | 58.5  | 72.0  | 81.3  | 83.4  | 88.5  | 94.2  | 95.7  | 97.2  | 97.9  | 98.3  | 98.7  | 99.1 | 99.2 | 99.5 | 100.0 |
| GE       | CI   | 52.6                             | 58.5  | 72.0  | 81.3  | 83.4  | 88.5  | 94.2  | 95.7  | 97.2  | 97.9  | 98.3  | 98.7  | 99.1 | 99.2 | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: G35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAY HOURS(EST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 |
| NO CEIL               |                                  | 22.6     | 24.0     | 27.5     | 28.2     | 28.2     | 28.9     | 28.9     | 28.9     | 28.9     | 28.9     | 28.9     | 28.9    | 28.9    | 28.9    |
| GE 20000              |                                  | 28.0     | 30.1     | 35.3     | 36.5     | 36.6     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4    |
| GE 18000              |                                  | 28.0     | 30.1     | 35.3     | 36.5     | 36.6     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4    |
| GE 16000              |                                  | 28.0     | 30.1     | 35.3     | 36.5     | 36.6     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4    |
| GE 14000              |                                  | 28.0     | 30.1     | 35.3     | 36.5     | 36.6     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4    |
| GE 12000              |                                  | 28.0     | 30.1     | 35.3     | 36.5     | 36.6     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4    |
| GE 10000              |                                  | 29.2     | 31.3     | 36.7     | 38.4     | 38.6     | 39.5     | 39.5     | 39.5     | 39.5     | 39.5     | 39.5     | 39.5    | 39.5    | 39.5    |
| GE 9000               |                                  | 30.0     | 32.1     | 37.6     | 39.3     | 39.5     | 40.4     | 40.4     | 40.4     | 40.4     | 40.4     | 40.4     | 40.4    | 40.4    | 40.4    |
| GE 8000               |                                  | 33.5     | 36.0     | 42.3     | 44.3     | 44.6     | 45.7     | 45.7     | 45.7     | 45.7     | 45.7     | 45.7     | 45.7    | 45.7    | 45.7    |
| GE 7000               |                                  | 35.3     | 37.8     | 44.3     | 46.4     | 46.8     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9    | 47.9    | 47.9    |
| GE 6000               |                                  | 35.3     | 37.8     | 44.3     | 46.4     | 46.8     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9    | 47.9    | 47.9    |
| GE 5000               |                                  | 37.3     | 40.4     | 47.2     | 49.6     | 49.9     | 51.1     | 51.1     | 51.1     | 51.1     | 51.1     | 51.1     | 51.1    | 51.1    | 51.1    |
| GE 4500               |                                  | 37.4     | 40.5     | 47.3     | 49.7     | 50.0     | 51.3     | 51.3     | 51.3     | 51.3     | 51.3     | 51.3     | 51.3    | 51.3    | 51.3    |
| GE 4000               |                                  | 41.2     | 44.5     | 52.1     | 54.7     | 55.0     | 56.5     | 56.5     | 56.5     | 56.5     | 56.5     | 56.5     | 56.5    | 56.5    | 56.5    |
| GE 3500               |                                  | 43.9     | 47.3     | 55.2     | 57.8     | 58.2     | 59.7     | 59.7     | 59.7     | 59.7     | 59.7     | 59.7     | 59.7    | 59.7    | 59.7    |
| GE 3000               |                                  | 55.3     | 59.3     | 68.3     | 72.0     | 72.4     | 74.7     | 74.0     | 74.0     | 74.0     | 74.0     | 74.0     | 74.0    | 74.0    | 74.0    |
| GE 2500               |                                  | 58.7     | 62.7     | 71.6     | 75.3     | 75.8     | 77.5     | 77.5     | 77.5     | 77.5     | 77.5     | 77.5     | 77.5    | 77.5    | 77.5    |
| GE 2000               |                                  | 62.1     | 66.6     | 75.6     | 79.8     | 80.2     | 82.4     | 82.1     | 82.1     | 82.1     | 82.1     | 82.1     | 82.1    | 82.1    | 82.1    |
| GE 1800               |                                  | 62.3     | 66.8     | 75.9     | 80.0     | 80.4     | 82.3     | 82.4     | 82.4     | 82.4     | 82.4     | 82.4     | 82.4    | 82.4    | 82.4    |
| GE 1500               |                                  | 63.6     | 68.8     | 78.6     | 83.2     | 83.7     | 85.5     | 85.6     | 85.6     | 85.6     | 85.6     | 85.6     | 85.6    | 85.6    | 85.6    |
| GE 1200               |                                  | 66.1     | 72.1     | 83.1     | 88.5     | 89.0     | 90.9     | 91.2     | 91.2     | 91.2     | 91.2     | 91.2     | 91.2    | 91.2    | 91.2    |
| GE 1000               |                                  | 66.3     | 72.5     | 83.9     | 90.0     | 90.6     | 92.6     | 93.1     | 93.1     | 93.1     | 93.1     | 93.1     | 93.1    | 93.1    | 93.1    |
| GE 900                |                                  | 66.3     | 72.5     | 83.9     | 90.4     | 91.0     | 93.4     | 93.8     | 93.8     | 93.8     | 93.8     | 93.8     | 93.8    | 93.8    | 93.8    |
| GE 800                |                                  | 66.3     | 72.5     | 84.1     | 91.0     | 91.8     | 94.4     | 94.8     | 94.8     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8    |
| GE 700                |                                  | 66.6     | 72.7     | 85.1     | 92.1     | 93.1     | 95.9     | 96.4     | 96.4     | 96.5     | 96.5     | 96.5     | 96.5    | 96.5    | 96.5    |
| GE 600                |                                  | 66.6     | 72.7     | 85.1     | 92.3     | 93.3     | 96.3     | 97.2     | 97.4     | 97.7     | 97.7     | 97.7     | 97.7    | 97.7    | 97.7    |
| GE 500                |                                  | 66.6     | 72.7     | 85.1     | 92.3     | 93.3     | 96.6     | 97.6     | 97.9     | 98.4     | 98.4     | 98.4     | 98.4    | 98.4    | 98.4    |
| GE 400                |                                  | 66.6     | 72.7     | 85.1     | 92.3     | 93.4     | 96.9     | 97.8     | 98.2     | 98.9     | 99.2     | 99.1     | 99.1    | 99.1    | 99.1    |
| GE 300                |                                  | 66.6     | 72.7     | 85.1     | 92.3     | 93.4     | 97.7     | 97.9     | 98.3     | 99.0     | 99.4     | 99.5     | 99.5    | 99.7    | 99.9    |
| GE 200                |                                  | 66.6     | 72.7     | 85.1     | 92.3     | 93.4     | 97.7     | 97.9     | 98.3     | 99.1     | 99.5     | 99.6     | 99.6    | 99.8    | 100.0   |
| GE 100                |                                  | 66.6     | 72.7     | 85.1     | 92.3     | 93.4     | 97.0     | 97.9     | 98.3     | 99.1     | 99.5     | 99.6     | 99.6    | 99.8    | 100.0   |
| GE 0                  |                                  | 66.6     | 72.7     | 85.1     | 92.3     | 93.4     | 97.7     | 97.9     | 98.3     | 99.1     | 99.5     | 99.6     | 99.6    | 99.8    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS (LST): 1200-1400

| CEILING  |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |       |       |       |       |
|----------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| IN       | GT  | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE    | GE    | GE    |
| FEET     | 160 | 90                               | 80   | 60   | 40   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8     | 5     | 4     | 0     |
| NO CEIL  |     | 23.6                             | 25.1 | 28.4 | 29.3 | 29.3 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6  | 29.6  | 29.6  | 29.6  |
| GE 20000 |     | 28.5                             | 30.9 | 35.7 | 36.8 | 36.8 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1  | 37.1  | 37.1  | 37.1  |
| GE 18000 |     | 28.5                             | 30.9 | 35.7 | 36.8 | 36.8 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1  | 37.1  | 37.1  | 37.1  |
| GE 16000 |     | 28.5                             | 30.9 | 35.7 | 36.8 | 36.8 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1  | 37.1  | 37.1  | 37.1  |
| GE 14000 |     | 28.5                             | 30.9 | 35.7 | 36.8 | 36.8 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1  | 37.1  | 37.1  | 37.1  |
| GE 12000 |     | 28.9                             | 31.2 | 36.0 | 37.4 | 37.4 | 37.7 | 37.8 | 37.8 | 37.9 | 37.9 | 37.9 | 37.9  | 37.9  | 37.9  | 37.9  |
| GE 10000 |     | 29.8                             | 32.2 | 37.2 | 38.8 | 38.8 | 39.2 | 39.4 | 39.4 | 39.5 | 39.5 | 39.5 | 39.5  | 39.5  | 39.5  | 39.5  |
| GE 9000  |     | 30.3                             | 32.6 | 37.6 | 39.2 | 39.2 | 39.7 | 39.8 | 39.8 | 39.9 | 39.9 | 39.9 | 39.9  | 39.9  | 39.9  | 39.9  |
| GE 8000  |     | 35.0                             | 38.2 | 43.6 | 45.6 | 45.6 | 46.5 | 46.6 | 46.6 | 46.7 | 46.7 | 46.7 | 46.7  | 46.7  | 46.7  | 46.7  |
| GE 7000  |     | 36.5                             | 39.7 | 45.1 | 47.1 | 47.1 | 48.0 | 48.1 | 48.1 | 48.2 | 48.2 | 48.2 | 48.2  | 48.2  | 48.2  | 48.2  |
| GE 6000  |     | 36.6                             | 39.8 | 45.2 | 47.2 | 47.2 | 48.1 | 48.2 | 48.2 | 48.3 | 48.3 | 48.3 | 48.3  | 48.3  | 48.3  | 48.3  |
| GE 5000  |     | 38.3                             | 41.7 | 47.1 | 49.2 | 49.2 | 50.1 | 50.2 | 50.2 | 50.3 | 50.3 | 50.3 | 50.3  | 50.3  | 50.3  | 50.3  |
| GE 4500  |     | 38.6                             | 42.1 | 47.5 | 49.5 | 49.5 | 50.4 | 50.6 | 50.6 | 50.7 | 50.7 | 50.7 | 50.7  | 50.7  | 50.7  | 50.7  |
| GE 4000  |     | 44.4                             | 47.9 | 54.2 | 56.6 | 56.6 | 57.7 | 57.9 | 57.9 | 58.1 | 58.2 | 58.2 | 58.2  | 58.2  | 58.2  | 58.2  |
| GE 3500  |     | 50.6                             | 54.2 | 60.6 | 63.1 | 63.1 | 64.2 | 64.5 | 64.5 | 64.6 | 64.8 | 64.8 | 64.8  | 64.8  | 64.8  | 64.8  |
| GE 3000  |     | 64.0                             | 68.0 | 75.6 | 78.4 | 78.5 | 79.6 | 79.9 | 79.9 | 80.0 | 80.1 | 80.1 | 80.1  | 80.1  | 80.1  | 80.1  |
| GE 2500  |     | 66.4                             | 70.4 | 78.1 | 81.1 | 81.2 | 82.3 | 82.6 | 82.6 | 82.7 | 82.8 | 82.8 | 82.8  | 82.8  | 82.8  | 82.8  |
| GE 2000  |     | 69.9                             | 74.2 | 81.9 | 85.2 | 85.4 | 86.7 | 87.0 | 87.0 | 87.1 | 87.2 | 87.2 | 87.2  | 87.2  | 87.2  | 87.2  |
| GE 1800  |     | 69.9                             | 74.2 | 81.9 | 85.3 | 85.5 | 86.8 | 87.1 | 87.1 | 87.2 | 87.4 | 87.4 | 87.4  | 87.4  | 87.4  | 87.4  |
| GE 1500  |     | 71.1                             | 76.5 | 85.3 | 88.6 | 89.0 | 90.4 | 90.8 | 90.8 | 91.0 | 91.1 | 91.1 | 91.1  | 91.1  | 91.1  | 91.1  |
| GE 1200  |     | 72.5                             | 78.2 | 87.5 | 91.7 | 92.0 | 93.4 | 93.8 | 93.8 | 94.2 | 94.3 | 94.3 | 94.3  | 94.3  | 94.3  | 94.3  |
| GE 1000  |     | 73.0                             | 78.7 | 88.5 | 93.3 | 93.6 | 95.0 | 95.5 | 95.5 | 95.8 | 95.9 | 95.9 | 95.9  | 95.9  | 95.9  | 95.9  |
| GE 900   |     | 73.1                             | 78.8 | 88.6 | 93.6 | 93.9 | 95.4 | 95.8 | 95.8 | 96.2 | 96.3 | 96.3 | 96.3  | 96.3  | 96.3  | 96.3  |
| GE 800   |     | 73.1                             | 78.9 | 89.0 | 94.1 | 94.4 | 95.9 | 96.3 | 96.3 | 96.8 | 96.9 | 96.9 | 96.9  | 96.9  | 96.9  | 96.9  |
| GE 700   |     | 73.2                             | 79.0 | 89.4 | 94.7 | 95.0 | 96.8 | 97.5 | 97.5 | 97.9 | 98.1 | 98.1 | 98.1  | 98.1  | 98.1  | 98.1  |
| GE 600   |     | 73.2                             | 79.0 | 89.4 | 94.7 | 95.0 | 97.0 | 97.9 | 97.9 | 98.4 | 98.5 | 98.5 | 98.5  | 98.5  | 98.5  | 98.5  |
| GE 500   |     | 73.2                             | 79.0 | 89.4 | 94.8 | 95.1 | 97.3 | 98.3 | 98.3 | 98.7 | 98.8 | 98.8 | 98.8  | 98.8  | 98.8  | 98.8  |
| GE 400   |     | 73.2                             | 79.0 | 89.4 | 94.9 | 95.2 | 97.5 | 98.6 | 98.6 | 99.2 | 99.4 | 99.4 | 99.5  | 99.5  | 99.5  | 99.5  |
| GE 300   |     | 73.2                             | 79.0 | 89.4 | 94.9 | 95.4 | 97.6 | 98.7 | 98.7 | 99.4 | 99.6 | 99.6 | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 200   |     | 73.2                             | 79.0 | 89.4 | 94.9 | 95.4 | 97.6 | 98.7 | 98.7 | 99.4 | 99.6 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   |     | 73.2                             | 79.0 | 89.4 | 94.9 | 95.4 | 97.6 | 98.7 | 98.7 | 99.4 | 99.6 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 0     |     | 73.2                             | 79.0 | 89.4 | 94.9 | 95.4 | 97.6 | 98.7 | 98.7 | 99.4 | 99.6 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(IST): 1500-1700

| CEILING<br>IN<br>FEET | GT<br>160 | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>G |
|-----------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| NO CEIL               |           | 29.2     | 30.4     | 33.3     | 34.3     | 34.3     | 34.6     | 34.6     | 34.6     | 34.6     | 34.6     | 34.6     | 34.6    | 34.6    | 34.6    | 34.6    |
| GE 2000               |           | 35.6     | 37.3     | 41.2     | 42.4     | 42.4     | 42.7     | 42.7     | 42.7     | 42.7     | 42.7     | 42.7     | 42.7    | 42.7    | 42.7    | 42.7    |
| GE 1800               |           | 35.9     | 37.8     | 41.8     | 43.6     | 43.0     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3    | 43.3    | 43.3    | 43.3    |
| GE 1600               |           | 35.9     | 37.8     | 41.8     | 43.0     | 43.0     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3    | 43.3    | 43.3    | 43.3    |
| GE 1400               |           | 35.9     | 37.8     | 41.8     | 43.0     | 43.0     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3    | 43.3    | 43.3    | 43.3    |
| GE 1200               |           | 36.0     | 37.9     | 41.9     | 43.1     | 43.1     | 43.4     | 43.4     | 43.4     | 43.4     | 43.4     | 43.4     | 43.4    | 43.4    | 43.4    | 43.4    |
| GE 1000               |           | 36.7     | 38.7     | 43.0     | 44.3     | 44.3     | 44.6     | 44.6     | 44.6     | 44.6     | 44.6     | 44.6     | 44.6    | 44.6    | 44.6    | 44.6    |
| GE 900                |           | 37.1     | 39.3     | 43.5     | 45.2     | 45.2     | 45.6     | 45.6     | 45.6     | 45.6     | 45.6     | 45.6     | 45.6    | 45.6    | 45.6    | 45.6    |
| GE 800                |           | 41.6     | 44.6     | 49.6     | 51.7     | 51.7     | 52.3     | 52.3     | 52.4     | 52.5     | 52.5     | 52.5     | 52.5    | 52.5    | 52.5    | 52.5    |
| GE 700                |           | 43.4     | 45.9     | 51.4     | 53.6     | 53.6     | 54.1     | 54.1     | 54.2     | 54.3     | 54.3     | 54.3     | 54.3    | 54.3    | 54.3    | 54.3    |
| GE 600                |           | 43.4     | 45.9     | 51.4     | 53.6     | 53.6     | 54.1     | 54.1     | 54.2     | 54.3     | 54.3     | 54.3     | 54.3    | 54.3    | 54.3    | 54.3    |
| GE 500                |           | 45.6     | 48.3     | 53.8     | 56.1     | 56.1     | 56.6     | 56.6     | 56.7     | 56.8     | 56.8     | 56.8     | 56.8    | 56.8    | 56.8    | 56.8    |
| GE 450                |           | 46.2     | 48.9     | 54.5     | 56.8     | 56.8     | 57.4     | 57.4     | 57.5     | 57.6     | 57.6     | 57.6     | 57.6    | 57.6    | 57.6    | 57.6    |
| GE 400                |           | 51.9     | 55.2     | 61.5     | 63.9     | 64.0     | 64.5     | 64.5     | 64.7     | 64.8     | 64.8     | 64.8     | 64.8    | 64.8    | 64.8    | 64.8    |
| GE 350                |           | 56.7     | 60.6     | 66.6     | 69.2     | 69.3     | 69.9     | 69.9     | 70.1     | 70.2     | 70.2     | 70.2     | 70.2    | 70.2    | 70.2    | 70.2    |
| GE 300                |           | 67.6     | 71.3     | 79.0     | 82.1     | 82.3     | 82.9     | 83.2     | 83.5     | 83.8     | 83.8     | 83.8     | 83.8    | 83.8    | 83.8    | 83.8    |
| GE 250                |           | 68.8     | 72.6     | 80.4     | 83.7     | 83.8     | 84.4     | 84.7     | 85.1     | 85.3     | 85.3     | 85.3     | 85.3    | 85.3    | 85.3    | 85.3    |
| GE 200                |           | 71.0     | 75.1     | 83.3     | 86.9     | 87.2     | 88.0     | 88.4     | 88.7     | 89.0     | 89.0     | 89.0     | 89.0    | 89.0    | 89.0    | 89.0    |
| GE 180                |           | 71.0     | 75.1     | 83.5     | 87.1     | 87.4     | 88.2     | 88.6     | 89.0     | 89.2     | 89.2     | 89.2     | 89.2    | 89.2    | 89.2    | 89.2    |
| GE 160                |           | 72.3     | 76.8     | 86.1     | 89.7     | 90.2     | 91.0     | 91.5     | 91.8     | 92.0     | 92.0     | 92.0     | 92.0    | 92.0    | 92.0    | 92.0    |
| GE 120                |           | 73.1     | 78.0     | 88.1     | 91.8     | 92.3     | 93.3     | 93.7     | 94.0     | 94.4     | 94.4     | 94.4     | 94.4    | 94.4    | 94.4    | 94.4    |
| GE 100                |           | 73.8     | 78.9     | 89.5     | 93.8     | 94.4     | 95.5     | 96.0     | 96.4     | 96.8     | 96.8     | 96.8     | 96.8    | 96.8    | 96.8    | 96.8    |
| GE 90                 |           | 73.9     | 79.2     | 89.6     | 94.4     | 94.9     | 96.0     | 96.6     | 97.1     | 97.4     | 97.4     | 97.4     | 97.4    | 97.4    | 97.4    | 97.4    |
| GE 80                 |           | 74.0     | 79.1     | 89.7     | 94.6     | 95.1     | 96.4     | 97.1     | 97.5     | 97.8     | 97.8     | 97.9     | 97.9    | 98.1    | 98.1    | 98.1    |
| GE 70                 |           | 74.1     | 79.3     | 89.9     | 95.0     | 95.6     | 97.0     | 97.6     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6    | 98.7    | 98.7    | 98.7    |
| GE 60                 |           | 74.1     | 79.3     | 89.9     | 95.1     | 95.7     | 97.3     | 98.1     | 98.5     | 99.0     | 99.0     | 99.1     | 99.1    | 99.2    | 99.2    | 99.2    |
| GE 50                 |           | 74.1     | 79.3     | 89.9     | 95.1     | 95.7     | 97.3     | 98.1     | 98.5     | 99.2     | 99.2     | 99.4     | 99.4    | 99.5    | 99.5    | 99.5    |
| GE 40                 |           | 74.1     | 79.3     | 89.9     | 95.1     | 95.7     | 97.3     | 98.1     | 98.6     | 99.5     | 99.5     | 99.6     | 99.7    | 99.8    | 99.8    | 99.8    |
| GE 30                 |           | 74.1     | 79.3     | 89.9     | 95.1     | 95.7     | 97.3     | 98.1     | 98.6     | 99.5     | 99.5     | 99.6     | 99.7    | 99.9    | 99.9    | 99.9    |
| GE 20                 |           | 74.1     | 79.3     | 89.9     | 95.1     | 95.7     | 97.3     | 98.1     | 98.6     | 99.5     | 99.5     | 99.6     | 99.7    | 100.0   | 100.0   | 100.0   |
| GE 10                 |           | 74.1     | 79.3     | 89.9     | 95.1     | 95.7     | 97.3     | 98.1     | 98.6     | 99.5     | 99.5     | 99.6     | 99.7    | 100.0   | 100.0   | 100.0   |
| GE 0                  |           | 74.1     | 79.3     | 89.9     | 95.1     | 95.7     | 97.3     | 98.1     | 98.6     | 99.5     | 99.5     | 99.6     | 99.7    | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAY

HOURS(IST): 1800-2000

| CEILING  |   | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |      |      |      |       |  |
|----------|---|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|--|
| IN FEET  |   | GT 160                           | GE 90 | GE 80 | GE 60 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |  |
| NO CEIL  | 1 |                                  | 34.8  | 36.5  | 41.1  | 42.4  | 42.6  | 43.2  | 43.4  | 43.5  | 43.5  | 43.5  | 43.5 | 43.5 | 43.5 | 43.5  |  |
| GE 20000 |   |                                  | 41.5  | 43.4  | 49.4  | 51.0  | 51.3  | 51.9  | 52.2  | 52.3  | 52.3  | 52.3  | 52.3 | 52.3 | 52.3 | 52.3  |  |
| GE 18000 |   |                                  | 41.5  | 43.4  | 49.4  | 51.0  | 51.3  | 51.9  | 52.2  | 52.3  | 52.3  | 52.3  | 52.3 | 52.3 | 52.3 | 52.3  |  |
| GE 16000 |   |                                  | 41.5  | 43.4  | 49.4  | 51.0  | 51.3  | 51.9  | 52.2  | 52.3  | 52.3  | 52.3  | 52.3 | 52.3 | 52.3 | 52.3  |  |
| GE 14000 |   |                                  | 41.5  | 43.4  | 49.4  | 51.0  | 51.3  | 51.9  | 52.2  | 52.3  | 52.3  | 52.3  | 52.3 | 52.3 | 52.3 | 52.3  |  |
| GE 12000 |   |                                  | 41.5  | 43.4  | 49.4  | 51.0  | 51.3  | 51.9  | 52.2  | 52.3  | 52.3  | 52.3  | 52.3 | 52.3 | 52.3 | 52.3  |  |
| GE 10000 |   |                                  | 41.6  | 43.7  | 49.8  | 51.4  | 51.7  | 52.4  | 52.6  | 52.7  | 52.7  | 52.7  | 52.7 | 52.7 | 52.7 | 52.7  |  |
| GE 9000  |   |                                  | 41.8  | 43.9  | 50.1  | 51.7  | 52.1  | 52.7  | 52.9  | 53.0  | 53.0  | 53.0  | 53.0 | 53.0 | 53.0 | 53.0  |  |
| GE 8000  |   |                                  | 46.8  | 49.2  | 57.3  | 59.4  | 59.8  | 60.5  | 60.8  | 60.9  | 60.9  | 60.9  | 60.9 | 60.9 | 60.9 | 60.9  |  |
| GE 7000  |   |                                  | 47.9  | 50.8  | 59.2  | 61.5  | 61.9  | 62.7  | 63.0  | 63.1  | 63.1  | 63.1  | 63.1 | 63.1 | 63.1 | 63.1  |  |
| GE 6000  |   |                                  | 47.9  | 50.8  | 59.2  | 61.5  | 61.9  | 62.7  | 63.0  | 63.1  | 63.1  | 63.1  | 63.1 | 63.1 | 63.1 | 63.1  |  |
| GE 5000  |   |                                  | 49.5  | 52.7  | 61.1  | 63.4  | 63.9  | 64.6  | 64.9  | 65.0  | 65.0  | 65.0  | 65.0 | 65.0 | 65.0 | 65.0  |  |
| GE 4500  |   |                                  | 49.7  | 53.1  | 61.6  | 63.9  | 64.3  | 65.0  | 65.4  | 65.5  | 65.5  | 65.5  | 65.5 | 65.5 | 65.5 | 65.5  |  |
| GE 4000  |   |                                  | 53.7  | 57.8  | 67.5  | 70.0  | 70.5  | 71.4  | 71.8  | 71.9  | 72.0  | 72.0  | 72.0 | 72.0 | 72.0 | 72.0  |  |
| GE 3500  |   |                                  | 56.2  | 60.3  | 70.2  | 72.8  | 73.3  | 74.2  | 74.6  | 74.7  | 74.8  | 74.8  | 74.8 | 74.8 | 74.8 | 74.8  |  |
| GE 3000  |   |                                  | 63.9  | 68.7  | 79.8  | 83.1  | 83.5  | 84.6  | 85.1  | 85.2  | 85.3  | 85.4  | 85.4 | 85.4 | 85.4 | 85.4  |  |
| GE 2500  |   |                                  | 64.1  | 69.2  | 80.5  | 84.1  | 84.5  | 85.6  | 86.0  | 86.1  | 86.3  | 86.4  | 86.4 | 86.4 | 86.4 | 86.4  |  |
| GE 2000  |   |                                  | 65.5  | 71.1  | 83.0  | 86.7  | 87.2  | 88.4  | 88.9  | 89.0  | 89.1  | 89.2  | 89.2 | 89.2 | 89.2 | 89.2  |  |
| GE 1800  |   |                                  | 65.6  | 71.2  | 83.2  | 86.9  | 87.4  | 88.6  | 89.1  | 89.2  | 89.3  | 89.4  | 89.4 | 89.4 | 89.4 | 89.4  |  |
| GE 1600  |   |                                  | 66.0  | 71.9  | 84.5  | 88.3  | 89.0  | 90.2  | 90.6  | 90.7  | 90.8  | 90.9  | 90.9 | 90.9 | 90.9 | 90.9  |  |
| GE 1400  |   |                                  | 66.3  | 72.5  | 86.0  | 90.6  | 91.3  | 92.6  | 93.2  | 93.3  | 93.4  | 93.5  | 93.5 | 93.5 | 93.5 | 93.5  |  |
| GE 1200  |   |                                  | 67.0  | 73.2  | 86.9  | 91.5  | 92.3  | 93.8  | 94.6  | 94.7  | 94.8  | 94.9  | 94.9 | 94.9 | 94.9 | 94.9  |  |
| GE 900   |   |                                  | 67.0  | 73.2  | 87.1  | 91.7  | 92.6  | 94.3  | 95.2  | 95.3  | 95.5  | 95.6  | 95.6 | 95.6 | 95.6 | 95.6  |  |
| GE 800   |   |                                  | 67.0  | 73.2  | 87.2  | 92.3  | 93.3  | 94.9  | 95.9  | 96.0  | 96.1  | 96.2  | 96.2 | 96.2 | 96.2 | 96.2  |  |
| GE 700   |   |                                  | 67.0  | 73.3  | 87.4  | 92.9  | 93.8  | 96.1  | 97.2  | 97.3  | 97.4  | 97.5  | 97.5 | 97.5 | 97.5 | 97.5  |  |
| GE 600   |   |                                  | 67.0  | 73.4  | 87.6  | 93.0  | 93.9  | 96.2  | 97.4  | 97.5  | 97.6  | 97.7  | 97.7 | 97.7 | 97.7 | 97.7  |  |
| GE 500   |   |                                  | 67.0  | 73.4  | 87.6  | 93.1  | 94.0  | 96.8  | 97.9  | 98.1  | 98.2  | 98.3  | 98.3 | 98.3 | 98.3 | 98.3  |  |
| GE 400   |   |                                  | 67.0  | 73.4  | 87.6  | 93.1  | 94.0  | 97.0  | 98.3  | 98.6  | 98.9  | 99.0  | 99.0 | 99.0 | 99.1 | 99.1  |  |
| GE 300   |   |                                  | 67.0  | 73.4  | 87.6  | 93.1  | 94.0  | 97.0  | 98.3  | 98.6  | 99.0  | 99.1  | 99.1 | 99.1 | 99.4 | 99.6  |  |
| GE 200   |   |                                  | 67.0  | 73.4  | 87.6  | 93.1  | 94.0  | 97.0  | 98.3  | 98.6  | 99.0  | 99.1  | 99.4 | 99.4 | 99.6 | 99.9  |  |
| GE 100   |   |                                  | 67.0  | 73.4  | 87.6  | 93.1  | 94.0  | 97.0  | 98.3  | 98.6  | 99.0  | 99.1  | 99.4 | 99.4 | 99.6 | 100.0 |  |
| GE 0     |   |                                  | 67.0  | 73.4  | 87.6  | 93.1  | 94.0  | 97.0  | 98.3  | 98.6  | 99.0  | 99.1  | 99.4 | 99.4 | 99.6 | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: MAY HOURS(IST): 2100-2300

| CEILING    |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|------------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| IN<br>FEET | 160 | 90                               | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0    |  |
| NO CEIL    |     | 36.1                             | 38.0 | 43.7 | 45.0 | 45.1 | 45.8 | 46.6 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 |  |
| GE 2000    |     | 40.3                             | 42.9 | 49.8 | 51.8 | 51.9 | 53.0 | 53.9 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 |  |
| GE 1800    |     | 40.3                             | 42.9 | 49.8 | 51.8 | 51.9 | 53.0 | 53.9 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 |  |
| GE 1600    |     | 40.3                             | 42.9 | 49.8 | 51.8 | 51.9 | 53.0 | 53.9 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 |  |
| GE 1400    |     | 40.3                             | 42.9 | 49.8 | 51.8 | 51.9 | 53.0 | 53.9 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 |  |
| GE 1200    |     | 40.3                             | 42.9 | 49.8 | 51.8 | 51.9 | 53.0 | 53.9 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 |  |
| GE 1000    |     | 41.1                             | 43.7 | 50.9 | 52.9 | 53.0 | 54.0 | 55.0 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 |  |
| GE 900     |     | 41.4                             | 44.0 | 51.3 | 53.3 | 53.4 | 54.5 | 55.4 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 |  |
| GE 800     |     | 45.6                             | 48.4 | 56.7 | 59.3 | 59.5 | 60.7 | 61.7 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 |  |
| GE 700     |     | 46.5                             | 49.5 | 58.0 | 60.7 | 60.9 | 62.1 | 63.1 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 |  |
| GE 600     |     | 46.5                             | 49.5 | 58.0 | 60.7 | 60.9 | 62.1 | 63.1 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 |  |
| GE 500     |     | 47.5                             | 50.9 | 59.5 | 62.2 | 62.5 | 63.6 | 64.6 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 |  |
| GE 450     |     | 47.8                             | 51.3 | 60.1 | 62.8 | 63.0 | 64.2 | 65.2 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 |  |
| GE 400     |     | 52.5                             | 56.7 | 66.3 | 69.5 | 69.7 | 71.1 | 72.1 | 72.2 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 |  |
| GE 350     |     | 54.3                             | 58.6 | 68.4 | 71.5 | 71.7 | 73.1 | 74.1 | 74.2 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 |  |
| GE 300     |     | 59.5                             | 64.2 | 75.3 | 78.7 | 79.0 | 80.8 | 82.0 | 82.1 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 |  |
| GE 250     |     | 59.5                             | 64.3 | 75.7 | 79.2 | 79.4 | 81.2 | 82.4 | 82.5 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 |  |
| GE 200     |     | 60.6                             | 65.7 | 78.1 | 81.7 | 82.0 | 83.9 | 85.1 | 85.2 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 |  |
| GE 180     |     | 60.6                             | 65.7 | 78.2 | 81.8 | 82.1 | 84.0 | 85.4 | 85.5 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 |  |
| GE 150     |     | 61.5                             | 66.6 | 79.8 | 83.4 | 83.7 | 85.7 | 87.1 | 87.2 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 |  |
| GE 120     |     | 62.1                             | 67.3 | 81.1 | 85.3 | 85.7 | 87.6 | 89.1 | 89.2 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 |  |
| GE 100     |     | 62.7                             | 67.9 | 82.0 | 86.4 | 86.7 | 89.0 | 90.7 | 90.8 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 |  |
| GE 90      |     | 63.0                             | 68.2 | 82.3 | 86.7 | 87.1 | 89.3 | 91.0 | 91.3 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 |  |
| GE 80      |     | 63.0                             | 68.2 | 82.5 | 87.1 | 87.5 | 90.7 | 91.8 | 92.0 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 |  |
| GE 70      |     | 63.1                             | 68.3 | 83.0 | 88.1 | 88.6 | 91.9 | 94.0 | 94.2 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 |  |
| GE 60      |     | 63.2                             | 68.7 | 83.5 | 88.8 | 89.2 | 92.6 | 94.6 | 94.8 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 |  |
| GE 50      |     | 63.4                             | 68.9 | 83.8 | 89.3 | 89.8 | 93.3 | 95.4 | 95.6 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 |  |
| GE 40      |     | 63.4                             | 68.9 | 83.8 | 89.4 | 90.0 | 93.9 | 96.1 | 96.4 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 |  |
| GE 30      |     | 63.4                             | 68.9 | 83.8 | 89.5 | 90.1 | 94.5 | 96.8 | 97.5 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 |  |
| GE 20      |     | 63.4                             | 68.9 | 83.8 | 89.5 | 90.1 | 94.5 | 96.8 | 97.5 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 |  |
| GE 10      |     | 63.4                             | 68.9 | 83.8 | 89.5 | 90.1 | 94.5 | 96.8 | 97.5 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 |  |
| GE 0       |     | 63.4                             | 68.9 | 83.8 | 89.5 | 90.1 | 94.5 | 96.8 | 97.5 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 |  |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(IST): ALL

| CEILING  |        | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|--------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN FEET  | GT 160 | GE 90                            | GE 90 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  |        | 28.3                             | 30.2  | 34.3  | 35.6  | 35.8  | 36.8  | 37.4  | 37.5  | 37.6  | 37.6  | 37.6  | 37.7 | 37.7 | 37.8 | 37.8  |
| GE 20000 |        | 33.0                             | 35.6  | 40.8  | 42.6  | 42.8  | 44.0  | 44.7  | 44.8  | 44.9  | 45.0  | 45.0  | 45.0 | 45.0 | 45.1 | 45.1  |
| GE 18000 |        | 33.1                             | 35.6  | 40.9  | 42.7  | 42.9  | 44.1  | 44.8  | 44.9  | 45.0  | 45.0  | 45.0  | 45.1 | 45.1 | 45.2 | 45.2  |
| GE 16000 |        | 33.1                             | 35.6  | 40.9  | 42.7  | 42.9  | 44.1  | 44.8  | 44.9  | 45.0  | 45.0  | 45.0  | 45.1 | 45.1 | 45.2 | 45.2  |
| GE 14000 |        | 33.1                             | 35.6  | 40.9  | 42.7  | 42.9  | 44.1  | 44.8  | 44.9  | 45.0  | 45.0  | 45.0  | 45.1 | 45.1 | 45.2 | 45.2  |
| GE 12000 |        | 33.2                             | 35.7  | 40.9  | 42.8  | 43.1  | 44.3  | 45.0  | 45.2  | 45.3  | 45.3  | 45.3  | 45.3 | 45.4 | 45.4 | 45.5  |
| GE 10000 |        | 33.9                             | 36.6  | 42.0  | 44.1  | 44.4  | 45.6  | 46.3  | 46.5  | 46.6  | 46.6  | 46.6  | 46.7 | 46.7 | 46.8 | 46.8  |
| GE 9000  |        | 34.2                             | 36.9  | 42.4  | 44.5  | 44.8  | 46.0  | 46.8  | 46.9  | 47.0  | 47.1  | 47.1  | 47.1 | 47.2 | 47.2 | 47.3  |
| GE 8000  |        | 38.0                             | 41.1  | 47.8  | 50.3  | 50.7  | 52.1  | 53.0  | 53.2  | 53.3  | 53.4  | 53.4  | 53.4 | 53.5 | 53.5 | 53.6  |
| GE 7000  |        | 39.2                             | 42.5  | 49.2  | 51.8  | 52.2  | 53.7  | 54.6  | 54.8  | 54.9  | 55.0  | 55.0  | 55.0 | 55.1 | 55.1 | 55.2  |
| GE 6000  |        | 39.2                             | 42.5  | 49.3  | 51.8  | 52.2  | 53.7  | 54.6  | 54.8  | 55.0  | 55.0  | 55.0  | 55.0 | 55.1 | 55.1 | 55.2  |
| GE 5000  |        | 40.6                             | 44.3  | 51.2  | 53.8  | 54.2  | 55.8  | 56.7  | 56.9  | 57.0  | 57.1  | 57.1  | 57.2 | 57.2 | 57.3 | 57.3  |
| GE 4500  |        | 41.1                             | 44.8  | 51.8  | 54.5  | 54.9  | 56.5  | 57.4  | 57.6  | 57.8  | 57.8  | 57.8  | 57.9 | 58.0 | 58.0 | 58.1  |
| GE 4000  |        | 45.7                             | 50.0  | 58.0  | 61.1  | 61.6  | 63.4  | 64.4  | 64.7  | 64.9  | 65.0  | 65.0  | 65.1 | 65.1 | 65.2 | 65.2  |
| GE 3500  |        | 48.7                             | 53.1  | 61.4  | 64.6  | 65.2  | 67.2  | 68.3  | 68.5  | 68.8  | 68.9  | 68.9  | 69.0 | 69.0 | 69.1 | 69.1  |
| GE 3000  |        | 56.3                             | 61.1  | 70.5  | 74.2  | 74.8  | 76.9  | 78.2  | 78.5  | 78.8  | 78.9  | 79.0  | 79.0 | 79.1 | 79.1 | 79.2  |
| GE 2500  |        | 57.3                             | 62.2  | 71.8  | 75.6  | 76.2  | 78.3  | 79.6  | 79.9  | 80.2  | 80.3  | 80.3  | 80.4 | 80.5 | 80.5 | 80.6  |
| GE 2000  |        | 59.4                             | 64.6  | 74.5  | 78.5  | 79.2  | 81.4  | 82.7  | 83.0  | 83.4  | 83.5  | 83.5  | 83.6 | 83.6 | 83.7 | 83.7  |
| GE 1800  |        | 59.5                             | 64.7  | 74.7  | 78.7  | 79.4  | 81.7  | 83.0  | 83.4  | 83.7  | 83.8  | 83.8  | 83.9 | 84.0 | 84.0 | 84.1  |
| GE 1500  |        | 60.4                             | 66.1  | 76.8  | 80.9  | 81.7  | 84.0  | 85.4  | 85.7  | 86.1  | 86.2  | 86.2  | 86.3 | 86.3 | 86.4 | 86.5  |
| GE 1200  |        | 61.5                             | 67.4  | 78.8  | 83.5  | 84.2  | 86.6  | 88.1  | 88.5  | 88.9  | 89.0  | 89.0  | 89.1 | 89.2 | 89.2 | 89.3  |
| GE 1000  |        | 62.1                             | 68.2  | 80.0  | 85.2  | 86.1  | 88.6  | 90.2  | 90.7  | 91.1  | 91.2  | 91.2  | 91.3 | 91.3 | 91.4 | 91.4  |
| GE 900   |        | 62.2                             | 68.4  | 80.3  | 85.8  | 86.7  | 89.3  | 91.0  | 91.4  | 91.9  | 92.0  | 92.0  | 92.0 | 92.1 | 92.2 | 92.2  |
| GE 800   |        | 62.3                             | 68.5  | 80.6  | 86.3  | 87.3  | 90.1  | 91.9  | 92.3  | 92.7  | 92.9  | 92.9  | 92.9 | 93.0 | 93.1 | 93.1  |
| GE 700   |        | 62.6                             | 68.8  | 81.5  | 87.6  | 88.6  | 91.9  | 93.8  | 94.3  | 94.8  | 94.9  | 94.9  | 95.0 | 95.0 | 95.1 | 95.2  |
| GE 600   |        | 62.7                             | 69.1  | 81.8  | 88.0  | 89.1  | 92.6  | 94.7  | 95.2  | 95.7  | 95.8  | 95.8  | 95.9 | 96.0 | 96.0 | 96.1  |
| GE 500   |        | 62.7                             | 69.1  | 81.9  | 88.3  | 89.5  | 93.3  | 95.6  | 96.1  | 96.7  | 96.8  | 96.9  | 96.9 | 97.0 | 97.1 | 97.1  |
| GE 400   |        | 62.7                             | 69.1  | 82.0  | 88.6  | 89.7  | 93.9  | 96.3  | 96.8  | 97.6  | 97.7  | 97.8  | 97.9 | 98.0 | 98.0 | 98.1  |
| GE 300   |        | 62.7                             | 69.1  | 82.0  | 88.6  | 89.8  | 94.1  | 96.6  | 97.3  | 98.2  | 98.4  | 98.5  | 98.6 | 98.8 | 98.9 | 99.1  |
| GE 200   |        | 62.7                             | 69.1  | 82.0  | 88.6  | 89.8  | 94.1  | 96.7  | 97.4  | 98.4  | 98.6  | 98.9  | 99.1 | 99.3 | 99.5 | 99.7  |
| GE 100   |        | 62.7                             | 69.1  | 82.0  | 88.6  | 89.8  | 94.1  | 96.7  | 97.4  | 98.4  | 98.6  | 98.9  | 99.2 | 99.4 | 99.6 | 99.9  |
| GE       |        | 62.7                             | 69.1  | 82.0  | 88.6  | 89.8  | 94.1  | 96.7  | 97.4  | 98.4  | 98.6  | 98.9  | 99.2 | 99.4 | 99.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 7403



AD-A190 781

RAF BENTWATERS UNITED KINGDOM REVISED UNIFORM SUMMARY  
OF SURFACE WEATHER (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A.. JAN 88  
USAFETAC/DS-88/019

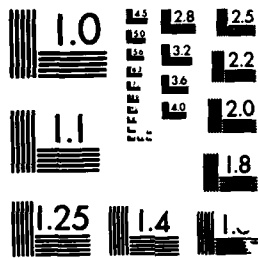
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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(IST): 0000-0200

| CEILING<br>IN<br>FEET | GT<br>160 | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
|-----------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| NO CEIL               |           | 30.1     | 32.6     | 37.9     | 39.8     | 40.7     | 43.4     | 43.6     | 43.8     | 44.0     | 44.1     | 44.3     | 44.3    | 44.3    | 44.3    | 44.4    |
| GE 20000              |           | 32.0     | 34.8     | 41.1     | 43.4     | 44.4     | 47.0     | 47.4     | 47.6     | 47.9     | 48.0     | 48.2     | 48.2    | 48.2    | 48.2    | 48.3    |
| GE 18000              |           | 32.0     | 34.8     | 41.1     | 43.4     | 44.4     | 47.0     | 47.4     | 47.6     | 47.9     | 48.0     | 48.2     | 48.2    | 48.2    | 48.2    | 48.3    |
| GE 16000              |           | 32.0     | 34.8     | 41.1     | 43.4     | 44.4     | 47.0     | 47.4     | 47.6     | 47.9     | 48.0     | 48.2     | 48.2    | 48.2    | 48.2    | 48.3    |
| GE 14000              |           | 32.0     | 34.8     | 41.1     | 43.4     | 44.4     | 47.0     | 47.4     | 47.6     | 47.9     | 48.0     | 48.2     | 48.2    | 48.2    | 48.2    | 48.3    |
| GE 12000              |           | 32.2     | 35.1     | 41.5     | 43.7     | 44.7     | 47.4     | 47.7     | 47.9     | 48.3     | 48.4     | 48.5     | 48.5    | 48.5    | 48.5    | 48.6    |
| GE 10000              |           | 33.6     | 36.7     | 43.3     | 45.6     | 46.6     | 49.3     | 49.6     | 49.8     | 50.2     | 50.3     | 50.4     | 50.4    | 50.4    | 50.4    | 50.5    |
| GE 9000               |           | 33.7     | 36.8     | 43.4     | 45.7     | 46.9     | 49.6     | 49.9     | 50.2     | 50.5     | 50.6     | 50.7     | 50.7    | 50.7    | 50.7    | 50.8    |
| GE 8000               |           | 39.1     | 42.8     | 49.9     | 52.6     | 53.8     | 56.9     | 57.4     | 57.6     | 58.2     | 58.3     | 58.4     | 58.4    | 58.4    | 58.4    | 58.5    |
| GE 7000               |           | 39.2     | 43.0     | 50.4     | 53.3     | 54.6     | 57.7     | 58.4     | 58.6     | 59.2     | 59.3     | 59.4     | 59.4    | 59.4    | 59.4    | 59.5    |
| GE 6000               |           | 39.2     | 43.0     | 50.4     | 53.3     | 54.6     | 57.7     | 58.4     | 58.6     | 59.3     | 59.4     | 59.5     | 59.5    | 59.5    | 59.5    | 59.6    |
| GE 5000               |           | 42.5     | 46.6     | 54.5     | 57.6     | 59.0     | 62.2     | 62.9     | 63.1     | 63.9     | 64.0     | 64.1     | 64.1    | 64.1    | 64.1    | 64.2    |
| GE 4500               |           | 43.1     | 47.3     | 55.2     | 58.5     | 59.9     | 63.1     | 63.8     | 64.0     | 64.8     | 64.9     | 65.0     | 65.0    | 65.0    | 65.0    | 65.1    |
| GE 4000               |           | 48.0     | 52.8     | 61.4     | 65.4     | 66.8     | 70.2     | 70.9     | 71.1     | 71.9     | 72.0     | 72.1     | 72.1    | 72.1    | 72.1    | 72.2    |
| GE 3500               |           | 49.4     | 54.3     | 63.3     | 67.3     | 68.7     | 72.2     | 72.9     | 73.1     | 73.9     | 74.0     | 74.1     | 74.1    | 74.1    | 74.1    | 74.2    |
| GE 3000               |           | 54.5     | 60.1     | 70.8     | 76.3     | 77.7     | 81.7     | 82.4     | 82.6     | 83.4     | 83.5     | 83.6     | 83.6    | 83.6    | 83.6    | 83.7    |
| GE 2500               |           | 55.0     | 60.6     | 71.3     | 76.8     | 78.4     | 82.5     | 83.2     | 83.4     | 84.2     | 84.3     | 84.4     | 84.4    | 84.4    | 84.4    | 84.5    |
| GE 2000               |           | 55.7     | 61.9     | 73.4     | 78.9     | 80.6     | 84.8     | 85.6     | 85.8     | 86.6     | 86.7     | 86.8     | 86.8    | 86.8    | 86.8    | 87.0    |
| GE 1800               |           | 55.7     | 61.9     | 73.4     | 78.9     | 80.6     | 84.8     | 85.6     | 85.8     | 86.6     | 86.7     | 86.8     | 86.8    | 86.8    | 86.8    | 87.0    |
| GE 1600               |           | 56.0     | 62.2     | 73.9     | 79.7     | 81.6     | 85.8     | 86.6     | 86.8     | 87.6     | 87.7     | 87.8     | 87.8    | 87.8    | 87.8    | 88.0    |
| GE 1400               |           | 57.7     | 64.7     | 76.7     | 82.5     | 84.4     | 88.6     | 89.4     | 89.6     | 90.4     | 90.5     | 90.6     | 90.6    | 90.6    | 90.6    | 90.7    |
| GE 1200               |           | 58.0     | 64.9     | 77.6     | 83.5     | 85.4     | 89.7     | 90.5     | 90.7     | 91.5     | 91.6     | 91.8     | 91.8    | 91.8    | 91.8    | 91.9    |
| GE 900                |           | 58.0     | 64.9     | 77.6     | 83.7     | 85.6     | 90.0     | 90.7     | 91.0     | 91.8     | 91.9     | 92.0     | 92.0    | 92.0    | 92.0    | 92.1    |
| GE 800                |           | 58.2     | 65.3     | 78.3     | 84.2     | 86.1     | 90.4     | 91.2     | 91.4     | 92.2     | 92.3     | 92.4     | 92.4    | 92.4    | 92.4    | 92.5    |
| GE 700                |           | 58.3     | 65.4     | 78.6     | 84.5     | 86.4     | 90.7     | 91.6     | 91.9     | 92.6     | 92.7     | 92.9     | 92.9    | 92.9    | 92.9    | 93.0    |
| GE 600                |           | 58.5     | 65.8     | 79.0     | 85.4     | 87.3     | 91.9     | 92.9     | 93.1     | 93.9     | 94.0     | 94.1     | 94.1    | 94.1    | 94.1    | 94.2    |
| GE 500                |           | 59.1     | 66.4     | 80.3     | 86.6     | 88.5     | 93.9     | 95.1     | 95.4     | 96.2     | 96.3     | 96.4     | 96.4    | 96.4    | 96.4    | 96.5    |
| GE 400                |           | 59.1     | 66.4     | 80.6     | 87.0     | 88.9     | 94.6     | 95.9     | 96.2     | 97.0     | 97.1     | 97.5     | 97.5    | 97.5    | 97.5    | 97.7    |
| GE 300                |           | 59.1     | 66.6     | 80.8     | 87.5     | 89.4     | 95.2     | 96.4     | 97.1     | 97.9     | 98.0     | 98.4     | 98.6    | 98.6    | 98.6    | 98.9    |
| GE 200                |           | 59.1     | 66.6     | 80.8     | 87.6     | 89.5     | 95.3     | 96.5     | 97.2     | 98.0     | 98.1     | 98.6     | 98.7    | 98.8    | 98.8    | 99.1    |
| GE 100                |           | 59.1     | 66.6     | 80.8     | 87.6     | 89.5     | 95.3     | 96.5     | 97.3     | 98.1     | 98.2     | 98.7     | 98.8    | 98.9    | 99.2    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 997

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: JUN

HOURS(IST): 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 19.0     | 20.9     | 25.8     | 28.9     | 30.0     | 31.1     | 33.0     | 33.8     | 34.7     | 35.0     | 35.0     | 35.7    | 35.4    | 35.4    | 35.7    |
| GE 20000              |                                  | 21.1     | 23.4     | 28.7     | 32.3     | 33.7     | 35.0     | 37.0     | 37.8     | 38.7     | 39.0     | 39.0     | 39.0    | 39.4    | 39.4    | 39.7    |
| GE 18000              |                                  | 21.4     | 23.6     | 28.9     | 32.5     | 33.9     | 35.3     | 37.3     | 38.0     | 38.9     | 39.3     | 39.3     | 39.3    | 39.6    | 39.6    | 39.9    |
| GE 16000              |                                  | 21.4     | 23.6     | 28.9     | 32.5     | 33.9     | 35.3     | 37.3     | 38.0     | 38.9     | 39.3     | 39.3     | 39.3    | 39.6    | 39.6    | 39.9    |
| GE 14000              |                                  | 21.4     | 23.6     | 28.9     | 32.5     | 33.9     | 35.3     | 37.3     | 38.0     | 38.9     | 39.3     | 39.3     | 39.3    | 39.6    | 39.6    | 39.9    |
| GE 12000              |                                  | 21.5     | 23.7     | 29.0     | 32.6     | 34.0     | 35.4     | 37.4     | 38.2     | 39.0     | 39.4     | 39.4     | 39.4    | 39.7    | 39.7    | 40.0    |
| GE 10000              |                                  | 21.9     | 24.4     | 29.9     | 34.1     | 35.6     | 37.0     | 39.0     | 39.8     | 40.7     | 41.0     | 41.0     | 41.0    | 41.4    | 41.4    | 41.7    |
| GE 9000               |                                  | 21.9     | 24.5     | 30.0     | 34.3     | 35.7     | 37.3     | 39.4     | 40.2     | 41.0     | 41.4     | 41.4     | 41.4    | 41.7    | 41.7    | 42.0    |
| GE 8000               |                                  | 26.5     | 29.6     | 36.7     | 41.6     | 43.2     | 45.4     | 47.7     | 48.5     | 49.8     | 50.2     | 50.2     | 50.2    | 50.5    | 50.5    | 50.8    |
| GE 7000               |                                  | 27.4     | 30.7     | 37.8     | 42.9     | 44.6     | 46.8     | 49.2     | 50.1     | 51.6     | 51.9     | 51.9     | 51.9    | 52.3    | 52.3    | 52.6    |
| GE 6000               |                                  | 27.4     | 30.7     | 37.8     | 42.9     | 44.6     | 46.8     | 49.2     | 50.1     | 51.6     | 51.9     | 51.9     | 51.9    | 52.3    | 52.3    | 52.6    |
| GE 5000               |                                  | 30.3     | 34.0     | 41.5     | 47.1     | 48.7     | 51.3     | 53.6     | 54.5     | 56.1     | 56.4     | 56.4     | 56.5    | 56.8    | 56.8    | 57.2    |
| GE 4500               |                                  | 30.8     | 34.7     | 42.8     | 48.5     | 50.2     | 52.8     | 55.2     | 56.1     | 57.6     | 58.0     | 58.0     | 58.1    | 58.4    | 58.4    | 58.7    |
| GE 4000               |                                  | 34.5     | 39.2     | 48.5     | 54.6     | 56.4     | 59.5     | 62.2     | 63.2     | 64.7     | 65.1     | 65.1     | 65.2    | 65.5    | 65.5    | 65.9    |
| GE 3500               |                                  | 36.5     | 41.4     | 51.6     | 57.7     | 59.5     | 62.7     | 65.4     | 66.4     | 68.0     | 68.3     | 68.3     | 68.4    | 68.7    | 68.7    | 69.1    |
| GE 3000               |                                  | 41.4     | 46.8     | 58.2     | 64.7     | 67.0     | 70.4     | 73.5     | 74.6     | 76.2     | 76.5     | 76.5     | 76.6    | 77.0    | 77.0    | 77.3    |
| GE 2500               |                                  | 41.5     | 46.9     | 58.5     | 65.2     | 67.4     | 71.0     | 74.2     | 75.3     | 76.9     | 77.2     | 77.3     | 77.4    | 77.8    | 77.8    | 78.1    |
| GE 2000               |                                  | 42.8     | 48.7     | 60.7     | 67.4     | 70.0     | 73.5     | 77.0     | 78.1     | 79.6     | 80.0     | 80.1     | 80.2    | 80.5    | 80.5    | 80.9    |
| GE 1800               |                                  | 42.9     | 48.8     | 60.8     | 67.6     | 70.2     | 73.7     | 77.2     | 78.3     | 79.9     | 80.2     | 80.3     | 80.4    | 80.8    | 80.8    | 81.1    |
| GE 1500               |                                  | 43.5     | 49.7     | 61.8     | 69.0     | 71.9     | 75.4     | 78.9     | 80.0     | 81.5     | 81.9     | 82.0     | 82.1    | 82.4    | 82.4    | 82.8    |
| GE 1200               |                                  | 45.5     | 51.9     | 64.6     | 72.0     | 74.9     | 78.5     | 82.0     | 83.3     | 84.9     | 85.2     | 85.3     | 85.4    | 85.8    | 85.8    | 86.1    |
| GE 1000               |                                  | 46.1     | 52.7     | 66.0     | 73.4     | 76.3     | 80.1     | 83.9     | 85.2     | 86.9     | 87.2     | 87.3     | 87.4    | 87.8    | 87.8    | 88.1    |
| GE 900                |                                  | 46.2     | 52.8     | 66.6     | 74.4     | 77.3     | 81.2     | 85.0     | 86.7     | 88.3     | 88.7     | 88.8     | 88.9    | 89.2    | 89.2    | 89.5    |
| GE 800                |                                  | 46.2     | 52.8     | 66.9     | 75.1     | 78.1     | 82.0     | 85.8     | 87.4     | 89.2     | 89.5     | 89.7     | 89.8    | 90.1    | 90.1    | 90.4    |
| GE 700                |                                  | 46.5     | 53.4     | 67.5     | 76.1     | 79.2     | 83.2     | 87.1     | 88.8     | 90.5     | 90.9     | 91.0     | 91.1    | 91.5    | 91.5    | 91.9    |
| GE 600                |                                  | 47.1     | 54.2     | 68.4     | 77.1     | 80.4     | 84.6     | 88.7     | 90.3     | 92.1     | 92.4     | 92.5     | 92.7    | 93.1    | 93.1    | 93.4    |
| GE 500                |                                  | 47.1     | 54.3     | 68.9     | 77.9     | 81.5     | 86.3     | 90.4     | 92.2     | 94.0     | 94.3     | 94.4     | 94.5    | 95.0    | 95.0    | 95.3    |
| GE 400                |                                  | 47.1     | 54.3     | 68.9     | 78.1     | 82.0     | 87.1     | 91.4     | 93.2     | 95.0     | 95.3     | 95.6     | 95.7    | 96.3    | 96.3    | 96.7    |
| GE 300                |                                  | 47.1     | 54.3     | 68.9     | 78.2     | 82.1     | 87.4     | 92.5     | 94.4     | 96.2     | 96.6     | 96.8     | 96.9    | 97.6    | 97.7    | 98.2    |
| GE 200                |                                  | 47.1     | 54.3     | 68.9     | 78.2     | 82.1     | 87.4     | 92.5     | 94.4     | 96.2     | 96.6     | 97.1     | 97.3    | 98.2    | 98.4    | 99.2    |
| GE 100                |                                  | 47.1     | 54.3     | 68.9     | 78.2     | 82.1     | 87.4     | 92.5     | 94.4     | 96.2     | 96.6     | 97.2     | 97.4    | 98.6    | 98.8    | 100.0   |
| GE 0                  |                                  | 47.1     | 54.3     | 68.9     | 78.2     | 82.1     | 87.4     | 92.5     | 94.4     | 96.2     | 96.6     | 97.2     | 97.4    | 98.6    | 98.8    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 |
| NO CEIL               |                                  | 21.0     | 23.0     | 25.9     | 28.6     | 29.0     | 31.0     | 32.4     | 32.5     | 32.7     | 32.7     | 32.7     | 32.7    | 32.7    | 32.8    |
| GE 20000              |                                  | 25.9     | 28.5     | 32.3     | 35.4     | 36.0     | 38.2     | 39.5     | 39.6     | 39.8     | 39.8     | 39.8     | 39.8    | 39.9    | 40.0    |
| GE 18000              |                                  | 26.0     | 28.6     | 32.4     | 35.5     | 36.2     | 38.3     | 39.6     | 39.7     | 39.9     | 39.9     | 39.9     | 39.9    | 40.0    | 40.2    |
| GE 16000              |                                  | 26.0     | 28.6     | 32.4     | 35.5     | 36.2     | 38.3     | 39.6     | 39.7     | 39.9     | 39.9     | 39.9     | 39.9    | 40.0    | 40.2    |
| GE 14000              |                                  | 26.0     | 28.6     | 32.4     | 35.5     | 36.2     | 38.3     | 39.6     | 39.7     | 39.9     | 39.9     | 39.9     | 39.9    | 40.0    | 40.2    |
| GE 12000              |                                  | 26.4     | 28.9     | 32.7     | 35.8     | 36.5     | 38.6     | 39.9     | 40.0     | 40.3     | 40.3     | 40.3     | 40.3    | 40.4    | 40.5    |
| GE 10000              |                                  | 27.4     | 30.3     | 34.1     | 37.6     | 38.3     | 40.5     | 41.9     | 42.0     | 42.3     | 42.3     | 42.3     | 42.3    | 42.4    | 42.5    |
| GE 9000               |                                  | 27.7     | 30.6     | 34.5     | 38.0     | 38.7     | 40.9     | 42.4     | 42.5     | 42.7     | 42.7     | 42.7     | 42.7    | 42.8    | 42.9    |
| GE 8000               |                                  | 31.0     | 34.5     | 38.9     | 43.4     | 44.4     | 46.7     | 48.3     | 48.4     | 48.9     | 49.1     | 49.1     | 49.1    | 49.2    | 49.3    |
| GE 7000               |                                  | 32.3     | 35.8     | 40.5     | 45.1     | 46.1     | 48.4     | 49.9     | 50.1     | 50.6     | 50.7     | 50.7     | 50.7    | 50.8    | 50.9    |
| GE 6000               |                                  | 32.3     | 35.9     | 40.6     | 45.2     | 46.2     | 48.5     | 50.1     | 50.2     | 50.7     | 50.8     | 50.8     | 50.8    | 50.9    | 51.1    |
| GE 5000               |                                  | 34.9     | 38.7     | 43.8     | 48.5     | 49.5     | 51.8     | 53.4     | 53.5     | 54.1     | 54.2     | 54.2     | 54.2    | 54.3    | 54.4    |
| GE 4500               |                                  | 35.7     | 39.6     | 44.8     | 49.6     | 50.6     | 52.9     | 54.5     | 54.6     | 55.2     | 55.3     | 55.3     | 55.3    | 55.4    | 55.5    |
| GE 4000               |                                  | 38.8     | 43.4     | 49.7     | 54.6     | 55.8     | 58.5     | 60.3     | 60.6     | 61.3     | 61.4     | 61.4     | 61.4    | 61.5    | 61.6    |
| GE 3500               |                                  | 42.0     | 46.8     | 53.6     | 58.8     | 60.2     | 63.1     | 64.8     | 65.2     | 65.9     | 66.0     | 66.0     | 66.0    | 66.1    | 66.2    |
| GE 3000               |                                  | 46.4     | 51.6     | 58.8     | 64.7     | 66.3     | 69.2     | 71.3     | 71.7     | 72.6     | 72.7     | 72.7     | 72.7    | 72.9    | 73.0    |
| GE 2500               |                                  | 47.2     | 52.4     | 60.0     | 65.9     | 67.4     | 70.3     | 72.4     | 72.9     | 73.7     | 73.9     | 73.9     | 73.9    | 74.0    | 74.1    |
| GE 2000               |                                  | 49.5     | 55.2     | 63.6     | 70.0     | 71.5     | 74.4     | 76.6     | 77.1     | 78.0     | 78.2     | 78.2     | 78.2    | 78.3    | 78.4    |
| GE 1800               |                                  | 49.7     | 55.4     | 63.8     | 70.2     | 71.7     | 74.6     | 76.9     | 77.3     | 78.2     | 78.4     | 78.4     | 78.4    | 78.5    | 78.6    |
| GE 1500               |                                  | 51.1     | 57.0     | 65.7     | 72.2     | 73.9     | 77.1     | 79.3     | 79.8     | 80.6     | 80.9     | 80.9     | 80.9    | 81.0    | 81.1    |
| GE 1200               |                                  | 53.8     | 60.1     | 69.4     | 76.2     | 77.9     | 81.5     | 84.3     | 84.8     | 85.7     | 85.9     | 85.9     | 85.9    | 86.0    | 86.1    |
| GE 1000               |                                  | 54.9     | 61.4     | 71.1     | 77.9     | 79.5     | 83.5     | 86.7     | 87.1     | 88.0     | 88.2     | 88.2     | 88.2    | 88.3    | 88.4    |
| GE 900                |                                  | 55.1     | 61.5     | 71.6     | 78.9     | 80.6     | 84.8     | 87.9     | 88.4     | 89.3     | 89.5     | 89.5     | 89.5    | 89.7    | 89.8    |
| GE 800                |                                  | 55.5     | 62.2     | 73.0     | 80.3     | 82.1     | 86.5     | 89.7     | 90.2     | 91.1     | 91.3     | 91.3     | 91.3    | 91.4    | 91.5    |
| GE 700                |                                  | 55.6     | 62.3     | 73.1     | 81.2     | 83.1     | 87.9     | 91.2     | 91.8     | 92.7     | 92.9     | 92.9     | 92.9    | 93.1    | 93.2    |
| GE 600                |                                  | 55.6     | 62.3     | 73.5     | 82.0     | 84.1     | 89.0     | 92.4     | 93.0     | 93.9     | 94.2     | 94.3     | 94.3    | 94.5    | 94.7    |
| GE 500                |                                  | 55.6     | 62.3     | 73.6     | 82.4     | 84.8     | 90.0     | 93.7     | 94.4     | 95.7     | 96.4     | 96.7     | 96.7    | 96.9    | 97.0    |
| GE 400                |                                  | 55.6     | 62.3     | 73.6     | 82.5     | 84.9     | 90.3     | 94.2     | 95.2     | 96.4     | 97.3     | 97.7     | 97.7    | 97.9    | 98.0    |
| GE 300                |                                  | 55.6     | 62.3     | 73.6     | 82.5     | 84.9     | 90.4     | 94.7     | 95.9     | 97.3     | 98.2     | 98.6     | 98.6    | 98.9    | 99.3    |
| GE 200                |                                  | 55.6     | 62.3     | 73.6     | 82.5     | 84.9     | 90.4     | 94.7     | 96.0     | 97.4     | 98.3     | 98.7     | 98.7    | 99.1    | 99.6    |
| GE 100                |                                  | 55.6     | 62.3     | 73.6     | 82.5     | 84.9     | 90.4     | 94.7     | 96.0     | 97.4     | 98.3     | 98.7     | 98.7    | 99.1    | 99.6    |
| GE 0                  |                                  | 55.6     | 62.3     | 73.6     | 82.5     | 84.9     | 90.4     | 94.7     | 96.0     | 97.4     | 98.3     | 98.7     | 98.7    | 99.1    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: Q35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: JUN HOURS(IST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 18.6                             | 20.5     | 22.9     | 25.3     | 25.4     | 25.8     | 26.1     | 26.1     | 26.1     | 26.1     | 26.1     | 26.1     | 26.1    | 26.1    | 26.1    | 26.1    |
| GE 20000              | 24.6                             | 27.1     | 30.1     | 32.6     | 32.9     | 33.4     | 33.7     | 33.7     | 33.7     | 33.7     | 33.7     | 33.7     | 33.7    | 33.7    | 33.7    | 33.7    |
| GE 18000              | 24.7                             | 27.3     | 30.3     | 32.7     | 33.0     | 33.5     | 33.8     | 33.8     | 33.8     | 33.8     | 33.8     | 33.8     | 33.8    | 33.8    | 33.8    | 33.8    |
| GE 16000              | 24.8                             | 27.4     | 30.4     | 32.8     | 33.1     | 33.6     | 33.9     | 33.9     | 33.9     | 33.9     | 33.9     | 33.9     | 33.9    | 33.9    | 33.9    | 33.9    |
| GE 14000              | 24.8                             | 27.4     | 30.4     | 32.8     | 33.1     | 33.6     | 33.9     | 33.9     | 33.9     | 33.9     | 33.9     | 33.9     | 33.9    | 33.9    | 33.9    | 33.9    |
| GE 12000              | 25.3                             | 27.8     | 30.8     | 33.3     | 33.6     | 34.0     | 34.4     | 34.4     | 34.4     | 34.4     | 34.4     | 34.4     | 34.4    | 34.4    | 34.4    | 34.4    |
| GE 10000              | 27.9                             | 30.9     | 34.3     | 36.9     | 37.3     | 37.7     | 38.0     | 38.0     | 38.0     | 38.0     | 38.0     | 38.0     | 38.0    | 38.0    | 38.0    | 38.0    |
| GE 9000               | 28.3                             | 31.3     | 34.6     | 37.3     | 37.6     | 38.0     | 38.4     | 38.4     | 38.4     | 38.4     | 38.4     | 38.4     | 38.4    | 38.4    | 38.4    | 38.4    |
| GE 8000               | 31.3                             | 34.8     | 38.9     | 42.0     | 42.4     | 42.8     | 43.2     | 43.2     | 43.2     | 43.2     | 43.2     | 43.3     | 43.3    | 43.3    | 43.3    | 43.3    |
| GE 7000               | 32.1                             | 35.7     | 39.8     | 42.9     | 43.3     | 43.7     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0     | 44.2     | 44.2    | 44.2    | 44.2    | 44.2    |
| GE 6000               | 32.1                             | 35.8     | 40.0     | 43.2     | 43.5     | 43.9     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3     | 44.4     | 44.4    | 44.4    | 44.4    | 44.4    |
| GE 5000               | 34.0                             | 37.8     | 42.0     | 45.2     | 45.5     | 45.9     | 46.3     | 46.3     | 46.3     | 46.3     | 46.3     | 46.4     | 46.4    | 46.4    | 46.4    | 46.4    |
| GE 4500               | 35.3                             | 39.0     | 43.3     | 46.4     | 46.7     | 47.2     | 47.6     | 47.6     | 47.6     | 47.6     | 47.6     | 47.9     | 47.9    | 47.9    | 47.9    | 47.9    |
| GE 4000               | 40.7                             | 44.7     | 49.3     | 52.4     | 52.7     | 53.3     | 53.7     | 53.7     | 53.7     | 53.9     | 53.9     | 54.1     | 54.1    | 54.1    | 54.1    | 54.1    |
| GE 3500               | 45.4                             | 49.4     | 54.2     | 57.3     | 57.6     | 58.2     | 58.6     | 58.6     | 58.6     | 58.8     | 58.8     | 59.0     | 59.0    | 59.0    | 59.0    | 59.0    |
| GE 3000               | 58.2                             | 63.1     | 69.0     | 72.1     | 72.5     | 73.2     | 73.6     | 73.7     | 74.0     | 74.0     | 74.0     | 74.1     | 74.1    | 74.1    | 74.1    | 74.1    |
| GE 2500               | 61.3                             | 66.3     | 72.3     | 75.4     | 75.9     | 76.5     | 77.0     | 77.1     | 77.3     | 77.3     | 77.3     | 77.4     | 77.4    | 77.4    | 77.4    | 77.4    |
| GE 2000               | 66.9                             | 72.3     | 79.2     | 82.4     | 82.9     | 83.5     | 84.0     | 84.1     | 84.3     | 84.3     | 84.3     | 84.4     | 84.4    | 84.4    | 84.4    | 84.4    |
| GE 1800               | 67.0                             | 72.4     | 79.4     | 82.6     | 83.1     | 83.8     | 84.2     | 84.3     | 84.5     | 84.5     | 84.5     | 84.6     | 84.6    | 84.6    | 84.6    | 84.6    |
| GE 1500               | 69.2                             | 75.1     | 82.9     | 87.2     | 87.8     | 88.5     | 89.0     | 89.1     | 89.4     | 89.4     | 89.4     | 89.5     | 89.5    | 89.5    | 89.5    | 89.5    |
| GE 1200               | 71.4                             | 77.5     | 86.0     | 90.7     | 91.4     | 92.5     | 93.0     | 93.1     | 93.5     | 93.5     | 93.5     | 93.7     | 93.7    | 93.7    | 93.7    | 93.7    |
| GE 1000               | 71.7                             | 77.9     | 86.9     | 92.1     | 93.0     | 94.5     | 95.2     | 95.3     | 95.8     | 95.8     | 95.8     | 95.9     | 95.9    | 95.9    | 95.9    | 95.9    |
| GE 900                | 71.7                             | 77.9     | 86.9     | 92.1     | 93.0     | 94.8     | 95.4     | 95.6     | 96.0     | 96.0     | 96.0     | 96.1     | 96.1    | 96.1    | 96.1    | 96.1    |
| GE 800                | 71.9                             | 78.0     | 87.3     | 92.7     | 93.5     | 95.4     | 96.1     | 96.2     | 96.7     | 96.7     | 96.7     | 96.8     | 96.8    | 96.8    | 96.8    | 96.8    |
| GE 700                | 71.9                             | 78.3     | 87.9     | 93.4     | 94.3     | 96.4     | 97.1     | 97.2     | 97.7     | 97.7     | 97.7     | 97.9     | 97.9    | 97.9    | 97.9    | 97.9    |
| GE 600                | 72.0                             | 78.4     | 88.0     | 93.5     | 94.5     | 96.8     | 97.7     | 97.8     | 98.2     | 98.2     | 98.2     | 98.6     | 98.6    | 98.6    | 98.6    | 98.6    |
| GE 500                | 72.1                             | 78.5     | 88.2     | 93.8     | 94.9     | 97.2     | 98.2     | 98.3     | 98.9     | 99.0     | 99.4     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    |
| GE 400                | 72.1                             | 78.5     | 88.2     | 93.8     | 94.9     | 97.2     | 98.4     | 98.6     | 99.1     | 99.2     | 99.7     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    |
| GE 300                | 72.1                             | 78.5     | 88.2     | 93.8     | 94.9     | 97.2     | 98.4     | 98.7     | 99.3     | 99.4     | 99.9     | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 200                | 72.1                             | 78.5     | 88.2     | 93.8     | 94.9     | 97.2     | 98.4     | 98.7     | 99.3     | 99.4     | 99.9     | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 100                | 72.1                             | 78.5     | 88.2     | 93.8     | 94.9     | 97.2     | 98.4     | 98.7     | 99.3     | 99.4     | 99.9     | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 0                  | 72.1                             | 78.5     | 88.2     | 93.8     | 94.9     | 97.2     | 98.4     | 98.7     | 99.3     | 99.4     | 99.9     | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(IST): 1200-1400

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8  | GE 5  | GE 4  | GE 0  |
| NO CEIL  | I    |                                  | 19.6  | 21.2  | 24.4  | 25.2  | 25.8  | 26.3  | 26.3  | 26.3  | 26.3  | 26.3  | 26.3  | 26.3  | 26.3  | 26.3  | 26.3  |
| GE 20000 | I    |                                  | 27.2  | 29.1  | 32.4  | 33.3  | 34.1  | 34.7  | 34.7  | 34.7  | 34.7  | 34.7  | 34.7  | 34.7  | 34.7  | 34.7  | 34.7  |
| GE 18000 | I    |                                  | 27.3  | 29.2  | 32.6  | 33.4  | 34.2  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  |
| GE 16000 | I    |                                  | 27.3  | 29.2  | 32.6  | 33.4  | 34.2  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  |
| GE 14000 | I    |                                  | 27.3  | 29.2  | 32.6  | 33.4  | 34.2  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  |
| GE 12000 | I    |                                  | 28.0  | 29.9  | 33.2  | 34.1  | 34.9  | 35.4  | 35.4  | 35.4  | 35.4  | 35.4  | 35.4  | 35.4  | 35.4  | 35.4  | 35.4  |
| GE 10000 | I    |                                  | 30.1  | 32.1  | 35.8  | 36.7  | 37.4  | 38.0  | 38.0  | 38.0  | 38.0  | 38.0  | 38.0  | 38.0  | 38.0  | 38.0  | 38.0  |
| GE 9000  | I    |                                  | 31.0  | 33.0  | 36.7  | 37.7  | 38.4  | 39.0  | 39.0  | 39.0  | 39.0  | 39.0  | 39.0  | 39.0  | 39.0  | 39.0  | 39.0  |
| GE 8000  | I    |                                  | 35.3  | 37.6  | 41.9  | 43.0  | 43.8  | 44.4  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  |
| GE 7000  | I    |                                  | 35.9  | 38.2  | 42.6  | 43.7  | 44.4  | 45.1  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  |
| GE 6000  | I    |                                  | 36.1  | 38.6  | 43.0  | 44.2  | 45.0  | 45.7  | 45.8  | 45.8  | 45.8  | 45.8  | 45.8  | 45.8  | 45.8  | 45.8  | 45.8  |
| GE 5000  | I    |                                  | 39.1  | 41.6  | 46.0  | 47.2  | 48.0  | 48.7  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  |
| GE 4500  | I    |                                  | 40.0  | 42.4  | 46.9  | 48.1  | 48.9  | 49.6  | 49.7  | 49.7  | 49.7  | 49.7  | 49.7  | 49.7  | 49.7  | 49.7  | 49.7  |
| GE 4000  | I    |                                  | 49.0  | 51.6  | 56.2  | 57.7  | 58.4  | 59.2  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  | 59.3  |
| GE 3500  | I    |                                  | 57.0  | 59.8  | 64.7  | 66.1  | 66.9  | 67.7  | 67.8  | 67.8  | 67.8  | 67.8  | 67.8  | 67.8  | 67.8  | 67.8  | 67.8  |
| GE 3000  | I    |                                  | 70.8  | 73.8  | 78.8  | 80.3  | 81.2  | 82.3  | 82.4  | 82.4  | 82.4  | 82.4  | 82.4  | 82.4  | 82.4  | 82.4  | 82.4  |
| GE 2500  | I    |                                  | 73.0  | 76.4  | 81.4  | 83.0  | 83.9  | 85.0  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  |
| GE 2000  | I    |                                  | 76.9  | 80.9  | 86.4  | 88.8  | 89.7  | 90.9  | 91.0  | 91.0  | 91.0  | 91.0  | 91.0  | 91.0  | 91.0  | 91.0  | 91.0  |
| GE 1800  | I    |                                  | 77.1  | 81.1  | 86.8  | 89.1  | 90.0  | 91.3  | 91.4  | 91.4  | 91.4  | 91.4  | 91.4  | 91.4  | 91.4  | 91.4  | 91.4  |
| GE 1500  | I    |                                  | 79.0  | 83.3  | 89.6  | 92.2  | 93.1  | 94.4  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  |
| GE 1200  | I    |                                  | 79.7  | 84.1  | 90.6  | 93.6  | 94.6  | 96.1  | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  |
| GE 1000  | I    |                                  | 80.1  | 84.7  | 91.4  | 94.6  | 95.6  | 97.3  | 97.7  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  |
| GE 900   | I    |                                  | 80.1  | 84.7  | 91.6  | 94.8  | 95.8  | 97.9  | 98.2  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  |
| GE 800   | I    |                                  | 80.1  | 84.7  | 91.6  | 94.9  | 95.9  | 98.3  | 98.7  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  |
| GE 700   | I    |                                  | 80.2  | 84.8  | 91.8  | 95.2  | 96.2  | 98.8  | 99.1  | 99.3  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  |
| GE 600   | I    |                                  | 80.2  | 84.8  | 91.8  | 95.2  | 96.2  | 98.8  | 99.1  | 99.3  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  |
| GE 500   | I    |                                  | 80.2  | 84.8  | 91.8  | 95.2  | 96.2  | 98.9  | 99.2  | 99.4  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| GE 400   | I    |                                  | 80.2  | 84.8  | 91.8  | 95.2  | 96.2  | 98.9  | 99.3  | 99.6  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 300   | I    |                                  | 80.2  | 84.8  | 91.8  | 95.2  | 96.2  | 98.9  | 99.4  | 99.7  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   | I    |                                  | 80.2  | 84.8  | 91.8  | 95.2  | 96.2  | 98.9  | 99.4  | 99.7  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   | I    |                                  | 80.2  | 84.8  | 91.8  | 95.2  | 96.2  | 98.9  | 99.4  | 99.7  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 0     | I    |                                  | 80.2  | 84.8  | 91.8  | 95.2  | 96.2  | 98.9  | 99.4  | 99.7  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 960

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: JUN HOURS(LST): 1500-1700

| CEILING |       | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |       |       |       |
|---------|-------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| IN      | FEET  | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5  | GE 4  | GE 0  |
| NO CEIL | 1     |                                  | 21.6  | 22.9  | 25.8  | 26.7  | 27.3  | 27.4  | 27.4  | 27.4  | 27.4  | 27.4  | 27.4  | 27.4 | 27.4  | 27.4  | 27.4  |
| GE      | 20000 |                                  | 29.6  | 31.3  | 34.8  | 36.6  | 37.2  | 37.4  | 37.4  | 37.4  | 37.4  | 37.4  | 37.4  | 37.4 | 37.4  | 37.4  | 37.4  |
| GE      | 18000 |                                  | 29.8  | 31.5  | 35.0  | 36.8  | 37.4  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6 | 37.6  | 37.6  | 37.6  |
| GE      | 16000 |                                  | 29.8  | 31.5  | 35.0  | 36.8  | 37.4  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6 | 37.6  | 37.6  | 37.6  |
| GE      | 14000 |                                  | 29.8  | 31.5  | 35.0  | 36.8  | 37.4  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6 | 37.6  | 37.6  | 37.6  |
| GE      | 12000 |                                  | 29.8  | 31.5  | 35.2  | 36.9  | 37.5  | 37.7  | 37.7  | 37.7  | 37.7  | 37.7  | 37.7  | 37.7 | 37.7  | 37.7  | 37.7  |
| GE      | 10000 |                                  | 32.6  | 34.3  | 38.0  | 39.8  | 40.4  | 40.6  | 40.6  | 40.6  | 40.6  | 40.6  | 40.6  | 40.6 | 40.6  | 40.6  | 40.6  |
| GE      | 9000  |                                  | 33.6  | 35.3  | 39.0  | 40.8  | 41.4  | 41.6  | 41.6  | 41.6  | 41.6  | 41.6  | 41.6  | 41.6 | 41.6  | 41.6  | 41.6  |
| GE      | 8000  |                                  | 38.5  | 40.4  | 44.3  | 46.3  | 46.9  | 47.2  | 47.2  | 47.3  | 47.4  | 47.4  | 47.4  | 47.4 | 47.4  | 47.4  | 47.4  |
| GE      | 7000  |                                  | 39.5  | 41.4  | 45.3  | 47.3  | 47.9  | 48.2  | 48.2  | 48.3  | 48.4  | 48.4  | 48.4  | 48.4 | 48.4  | 48.4  | 48.4  |
| GE      | 6000  |                                  | 39.5  | 41.4  | 45.3  | 47.3  | 47.9  | 48.2  | 48.2  | 48.3  | 48.4  | 48.4  | 48.4  | 48.4 | 48.4  | 48.4  | 48.4  |
| GE      | 5000  |                                  | 44.2  | 46.5  | 50.6  | 52.7  | 53.4  | 53.6  | 53.6  | 53.7  | 53.8  | 53.8  | 53.8  | 53.8 | 53.8  | 53.8  | 53.8  |
| GE      | 4500  |                                  | 45.6  | 47.9  | 52.1  | 54.2  | 54.8  | 55.1  | 55.1  | 55.2  | 55.3  | 55.3  | 55.3  | 55.3 | 55.3  | 55.3  | 55.3  |
| GE      | 4000  |                                  | 54.8  | 57.6  | 62.5  | 64.7  | 65.4  | 65.7  | 65.7  | 65.9  | 66.0  | 66.0  | 66.0  | 66.0 | 66.0  | 66.0  | 66.0  |
| GE      | 3500  |                                  | 63.4  | 66.4  | 71.5  | 74.0  | 74.7  | 75.2  | 75.2  | 75.3  | 75.4  | 75.4  | 75.4  | 75.4 | 75.4  | 75.4  | 75.4  |
| GE      | 3000  |                                  | 75.5  | 79.2  | 84.9  | 87.7  | 88.4  | 88.9  | 89.1  | 89.2  | 89.3  | 89.3  | 89.3  | 89.3 | 89.3  | 89.3  | 89.3  |
| GE      | 2500  |                                  | 76.9  | 80.9  | 86.7  | 89.4  | 90.2  | 90.7  | 90.9  | 91.0  | 91.1  | 91.1  | 91.1  | 91.1 | 91.1  | 91.1  | 91.1  |
| GE      | 2000  |                                  | 79.8  | 83.8  | 89.8  | 93.0  | 93.9  | 94.3  | 94.5  | 94.7  | 94.8  | 94.8  | 94.8  | 94.8 | 94.8  | 94.8  | 94.8  |
| GE      | 1800  |                                  | 80.1  | 84.1  | 90.1  | 93.3  | 94.2  | 94.7  | 94.9  | 95.0  | 95.1  | 95.1  | 95.1  | 95.1 | 95.1  | 95.1  | 95.1  |
| GE      | 1500  |                                  | 80.8  | 84.9  | 91.0  | 94.5  | 95.4  | 95.9  | 96.1  | 96.2  | 96.3  | 96.3  | 96.3  | 96.3 | 96.3  | 96.3  | 96.3  |
| GE      | 1200  |                                  | 81.1  | 85.2  | 91.7  | 95.6  | 96.6  | 97.1  | 97.3  | 97.4  | 97.6  | 97.6  | 97.6  | 97.6 | 97.6  | 97.6  | 97.6  |
| GE      | 1000  |                                  | 81.1  | 85.2  | 91.8  | 95.7  | 96.7  | 97.2  | 97.4  | 97.6  | 97.7  | 97.7  | 97.7  | 97.7 | 97.7  | 97.7  | 97.7  |
| GE      | 900   |                                  | 81.1  | 85.2  | 91.8  | 95.7  | 96.7  | 97.2  | 97.4  | 97.6  | 97.7  | 97.7  | 97.7  | 97.7 | 97.7  | 97.7  | 97.7  |
| GE      | 800   |                                  | 81.1  | 85.2  | 91.8  | 95.7  | 96.7  | 97.3  | 97.6  | 97.7  | 97.9  | 97.9  | 97.9  | 97.9 | 97.9  | 97.9  | 97.9  |
| GE      | 700   |                                  | 81.2  | 85.4  | 92.0  | 96.1  | 97.1  | 98.1  | 98.3  | 98.4  | 98.7  | 98.7  | 98.7  | 98.7 | 98.7  | 98.7  | 98.7  |
| GE      | 600   |                                  | 81.3  | 85.7  | 92.2  | 96.3  | 97.3  | 98.3  | 98.7  | 98.8  | 99.0  | 99.0  | 99.1  | 99.2 | 99.2  | 99.2  | 99.2  |
| GE      | 500   |                                  | 81.3  | 85.7  | 92.3  | 96.4  | 97.4  | 98.4  | 99.0  | 99.2  | 99.4  | 99.4  | 99.6  | 99.7 | 99.7  | 99.7  | 99.7  |
| GE      | 400   |                                  | 81.3  | 85.7  | 92.3  | 96.4  | 97.4  | 98.4  | 99.0  | 99.2  | 99.4  | 99.4  | 99.6  | 99.7 | 99.8  | 99.8  | 99.8  |
| GE      | 300   |                                  | 81.3  | 85.7  | 92.3  | 96.4  | 97.4  | 98.4  | 99.0  | 99.2  | 99.4  | 99.4  | 99.7  | 99.8 | 99.9  | 99.9  | 99.9  |
| GE      | 200   |                                  | 81.3  | 85.7  | 92.3  | 96.4  | 97.4  | 98.4  | 99.0  | 99.2  | 99.4  | 99.4  | 99.7  | 99.8 | 99.9  | 99.9  | 99.9  |
| GE      | 100   |                                  | 81.3  | 85.7  | 92.3  | 96.4  | 97.4  | 98.4  | 99.0  | 99.2  | 99.4  | 99.4  | 99.7  | 99.8 | 99.9  | 99.9  | 99.9  |
| GE      | 0     |                                  | 81.3  | 85.7  | 92.3  | 96.6  | 97.6  | 98.6  | 99.1  | 99.3  | 99.6  | 99.6  | 99.8  | 99.9 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 899



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(LST): 1800-2400

| CEILING<br>IN<br>FEET |       | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|-------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       |       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>C |
| NO                    | CEIL  |                                  | 23.2     | 24.4     | 26.4     | 27.8     | 28.4     | 28.8     | 28.8     | 28.8     | 28.8     | 28.8     | 28.8     | 28.8    | 28.8    | 28.8    | 28.8    |
| GE                    | 20000 |                                  | 30.8     | 32.6     | 34.8     | 36.7     | 37.4     | 38.0     | 38.0     | 38.0     | 38.0     | 38.0     | 38.0     | 38.0    | 38.0    | 38.0    | 38.0    |
| GE                    | 18000 |                                  | 31.3     | 33.0     | 35.3     | 37.2     | 37.8     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5    | 38.5    | 38.5    | 38.5    |
| GE                    | 16000 |                                  | 31.3     | 33.0     | 35.3     | 37.2     | 37.8     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5    | 38.5    | 38.5    | 38.5    |
| GE                    | 14000 |                                  | 31.3     | 33.0     | 35.3     | 37.2     | 37.8     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5    | 38.5    | 38.5    | 38.5    |
| GE                    | 12000 |                                  | 31.5     | 33.3     | 35.6     | 37.5     | 38.2     | 38.8     | 38.8     | 38.8     | 38.8     | 38.8     | 38.8     | 38.8    | 38.8    | 38.8    | 38.8    |
| GE                    | 10000 |                                  | 33.5     | 35.4     | 37.8     | 39.7     | 40.4     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0    | 41.0    | 41.0    | 41.0    |
| GE                    | 9000  |                                  | 33.6     | 35.5     | 37.9     | 39.8     | 40.5     | 41.2     | 41.2     | 41.2     | 41.2     | 41.2     | 41.2     | 41.2    | 41.2    | 41.2    | 41.2    |
| GE                    | 8000  |                                  | 40.2     | 42.6     | 45.7     | 47.7     | 48.9     | 49.7     | 49.7     | 49.7     | 49.7     | 49.7     | 49.7     | 49.7    | 49.7    | 49.7    | 49.7    |
| GE                    | 7000  |                                  | 43.0     | 45.5     | 48.7     | 50.7     | 51.9     | 52.8     | 52.8     | 52.8     | 52.8     | 52.8     | 52.8     | 52.8    | 52.8    | 52.8    | 52.8    |
| GE                    | 6000  |                                  | 43.0     | 45.5     | 48.7     | 50.7     | 51.9     | 52.8     | 52.8     | 52.8     | 52.8     | 52.8     | 52.8     | 52.8    | 52.8    | 52.8    | 52.8    |
| GE                    | 5000  |                                  | 49.1     | 51.9     | 55.4     | 57.5     | 58.7     | 59.6     | 59.6     | 59.6     | 59.6     | 59.6     | 59.6     | 59.6    | 59.6    | 59.6    | 59.6    |
| GE                    | 4500  |                                  | 50.7     | 53.7     | 57.2     | 59.3     | 60.6     | 61.5     | 61.5     | 61.5     | 61.5     | 61.5     | 61.5     | 61.5    | 61.5    | 61.5    | 61.5    |
| GE                    | 4000  |                                  | 60.7     | 64.0     | 67.9     | 70.6     | 72.2     | 73.1     | 73.1     | 73.1     | 73.1     | 73.1     | 73.1     | 73.1    | 73.1    | 73.1    | 73.1    |
| GE                    | 3500  |                                  | 66.5     | 70.1     | 74.7     | 77.6     | 79.2     | 80.2     | 80.4     | 80.4     | 80.4     | 80.4     | 80.4     | 80.4    | 80.4    | 80.4    | 80.4    |
| GE                    | 3000  |                                  | 73.7     | 78.2     | 83.6     | 86.9     | 88.5     | 89.7     | 90.0     | 90.0     | 90.0     | 90.0     | 90.0     | 90.0    | 90.0    | 90.0    | 90.0    |
| GE                    | 2500  |                                  | 74.2     | 79.3     | 84.8     | 88.0     | 89.7     | 90.8     | 91.1     | 91.1     | 91.1     | 91.1     | 91.1     | 91.1    | 91.1    | 91.1    | 91.1    |
| GE                    | 2000  |                                  | 74.7     | 80.0     | 85.8     | 89.4     | 91.1     | 92.5     | 93.0     | 93.0     | 93.1     | 93.1     | 93.1     | 93.1    | 93.1    | 93.1    | 93.1    |
| GE                    | 1800  |                                  | 74.9     | 80.1     | 85.9     | 89.5     | 91.2     | 92.7     | 93.1     | 93.1     | 93.2     | 93.2     | 93.2     | 93.2    | 93.2    | 93.2    | 93.2    |
| GE                    | 1500  |                                  | 76.0     | 81.2     | 87.3     | 91.0     | 92.7     | 94.1     | 94.5     | 94.5     | 94.7     | 94.7     | 94.7     | 94.7    | 94.7    | 94.7    | 94.7    |
| GE                    | 1200  |                                  | 76.4     | 81.6     | 88.2     | 92.0     | 93.7     | 95.6     | 96.1     | 96.1     | 96.2     | 96.2     | 96.2     | 96.2    | 96.2    | 96.2    | 96.2    |
| GE                    | 1000  |                                  | 76.9     | 82.1     | 89.0     | 92.9     | 94.5     | 96.6     | 97.2     | 97.3     | 97.4     | 97.4     | 97.4     | 97.4    | 97.6    | 97.6    | 97.6    |
| GE                    | 900   |                                  | 76.9     | 82.2     | 89.1     | 93.0     | 94.7     | 96.7     | 97.4     | 97.6     | 97.7     | 97.7     | 97.7     | 97.7    | 97.8    | 97.8    | 97.8    |
| GE                    | 800   |                                  | 76.9     | 82.2     | 89.1     | 93.0     | 94.7     | 96.7     | 97.4     | 97.6     | 97.7     | 97.7     | 97.7     | 97.7    | 97.8    | 97.8    | 97.8    |
| GE                    | 700   |                                  | 76.9     | 82.2     | 89.2     | 93.1     | 94.8     | 96.9     | 97.7     | 97.8     | 97.9     | 97.9     | 97.9     | 97.9    | 98.0    | 98.0    | 98.0    |
| GE                    | 600   |                                  | 76.9     | 82.2     | 89.2     | 93.1     | 95.2     | 97.3     | 98.2     | 98.3     | 98.6     | 98.6     | 98.8     | 98.9    | 99.0    | 99.0    | 99.0    |
| GE                    | 500   |                                  | 76.9     | 82.2     | 89.3     | 93.2     | 95.3     | 97.8     | 98.7     | 98.9     | 99.2     | 99.2     | 99.4     | 99.6    | 99.7    | 99.7    | 99.7    |
| GE                    | 400   |                                  | 76.9     | 82.2     | 89.3     | 93.2     | 95.3     | 97.9     | 98.8     | 99.0     | 99.3     | 99.3     | 99.6     | 99.7    | 99.8    | 99.8    | 99.8    |
| GE                    | 300   |                                  | 76.9     | 82.2     | 89.3     | 93.2     | 95.3     | 98.0     | 98.9     | 99.1     | 99.4     | 99.4     | 99.7     | 99.8    | 99.9    | 99.9    | 99.9    |
| GE                    | 200   |                                  | 76.9     | 82.2     | 89.3     | 93.2     | 95.3     | 98.0     | 98.9     | 99.1     | 99.4     | 99.4     | 99.7     | 99.8    | 100.0   | 100.0   | 100.0   |
| GE                    | 100   |                                  | 76.9     | 82.2     | 89.3     | 93.2     | 95.3     | 98.0     | 98.9     | 99.1     | 99.4     | 99.4     | 99.7     | 99.8    | 100.0   | 100.0   | 100.0   |
| GE                    | C     |                                  | 76.9     | 82.2     | 89.3     | 93.2     | 95.3     | 98.0     | 98.9     | 99.1     | 99.4     | 99.4     | 99.7     | 99.8    | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(IST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 30.1     | 31.8     | 35.4     | 37.7     | 38.5     | 39.7     | 39.8     | 40.0     | 40.2     | 40.2     | 40.2     | 40.2    | 40.2    | 40.2    | 40.2    |
| GE 20000              |                                  | 34.7     | 36.7     | 40.7     | 43.0     | 43.8     | 45.2     | 45.3     | 45.5     | 45.8     | 45.8     | 45.8     | 45.8    | 45.8    | 45.8    | 45.8    |
| GE 18000              |                                  | 35.0     | 37.0     | 41.0     | 43.4     | 44.2     | 45.5     | 45.6     | 45.8     | 46.2     | 46.2     | 46.2     | 46.2    | 46.2    | 46.2    | 46.2    |
| GE 16000              |                                  | 35.0     | 37.2     | 41.2     | 43.5     | 44.3     | 45.6     | 45.7     | 45.9     | 46.3     | 46.3     | 46.3     | 46.3    | 46.3    | 46.3    | 46.3    |
| GE 14000              |                                  | 35.0     | 37.2     | 41.2     | 43.5     | 44.3     | 45.6     | 45.7     | 45.9     | 46.3     | 46.3     | 46.3     | 46.3    | 46.3    | 46.3    | 46.3    |
| GE 12000              |                                  | 35.3     | 37.4     | 41.4     | 43.7     | 44.5     | 45.8     | 45.9     | 46.2     | 46.5     | 46.5     | 46.5     | 46.5    | 46.5    | 46.5    | 46.5    |
| GE 10000              |                                  | 35.9     | 38.2     | 42.2     | 44.6     | 45.4     | 46.7     | 46.8     | 47.1     | 47.4     | 47.4     | 47.4     | 47.4    | 47.4    | 47.4    | 47.4    |
| GE 9000               |                                  | 36.2     | 38.4     | 42.4     | 44.8     | 45.6     | 46.9     | 47.1     | 47.3     | 47.6     | 47.6     | 47.6     | 47.6    | 47.6    | 47.6    | 47.6    |
| GE 8000               |                                  | 40.9     | 44.3     | 49.1     | 51.7     | 52.5     | 54.2     | 54.4     | 54.6     | 54.9     | 54.9     | 54.9     | 54.9    | 54.9    | 54.9    | 54.9    |
| GE 7000               |                                  | 41.9     | 45.4     | 50.8     | 53.7     | 54.5     | 56.2     | 56.4     | 56.6     | 57.0     | 57.0     | 57.0     | 57.0    | 57.0    | 57.0    | 57.0    |
| GE 6000               |                                  | 41.9     | 45.4     | 50.8     | 53.7     | 54.5     | 56.2     | 56.4     | 56.6     | 57.0     | 57.0     | 57.0     | 57.0    | 57.0    | 57.0    | 57.0    |
| GE 5000               |                                  | 46.1     | 50.4     | 56.2     | 59.2     | 60.0     | 61.6     | 61.8     | 62.1     | 62.4     | 62.4     | 62.4     | 62.4    | 62.4    | 62.4    | 62.4    |
| GE 4500               |                                  | 46.7     | 51.3     | 57.1     | 60.1     | 61.1     | 62.7     | 63.0     | 63.2     | 63.5     | 63.5     | 63.5     | 63.5    | 63.5    | 63.5    | 63.5    |
| GE 4000               |                                  | 54.7     | 60.2     | 66.5     | 69.7     | 71.0     | 72.7     | 73.0     | 73.2     | 73.5     | 73.5     | 73.5     | 73.5    | 73.5    | 73.5    | 73.5    |
| GE 3500               |                                  | 57.8     | 63.6     | 70.6     | 74.3     | 75.5     | 77.3     | 77.6     | 77.9     | 78.2     | 78.2     | 78.2     | 78.2    | 78.2    | 78.2    | 78.2    |
| GE 3000               |                                  | 61.8     | 68.6     | 77.2     | 82.1     | 83.4     | 85.3     | 86.1     | 86.3     | 86.7     | 86.7     | 86.7     | 86.7    | 86.7    | 86.7    | 86.7    |
| GE 2500               |                                  | 62.2     | 69.1     | 77.8     | 82.9     | 84.2     | 86.2     | 87.0     | 87.2     | 87.5     | 87.5     | 87.5     | 87.5    | 87.5    | 87.5    | 87.5    |
| GE 2000               |                                  | 63.0     | 70.2     | 79.2     | 84.3     | 85.7     | 88.0     | 88.8     | 89.0     | 89.3     | 89.3     | 89.3     | 89.3    | 89.3    | 89.3    | 89.3    |
| GE 1800               |                                  | 63.0     | 70.2     | 79.2     | 84.3     | 85.7     | 88.0     | 88.8     | 89.0     | 89.3     | 89.3     | 89.3     | 89.3    | 89.3    | 89.3    | 89.3    |
| GE 1500               |                                  | 63.0     | 70.2     | 79.5     | 84.8     | 86.1     | 88.4     | 89.2     | 89.7     | 90.0     | 90.0     | 90.0     | 90.0    | 90.0    | 90.0    | 90.0    |
| GE 1200               |                                  | 63.7     | 71.4     | 81.4     | 86.8     | 88.1     | 90.7     | 91.5     | 92.0     | 92.3     | 92.3     | 92.3     | 92.3    | 92.3    | 92.3    | 92.3    |
| GE 1000               |                                  | 64.5     | 72.2     | 83.0     | 88.4     | 89.8     | 92.5     | 93.4     | 93.9     | 94.2     | 94.2     | 94.2     | 94.2    | 94.5    | 94.5    | 94.5    |
| GE 900                |                                  | 64.8     | 72.5     | 83.3     | 88.9     | 90.2     | 93.0     | 93.9     | 94.3     | 94.7     | 94.7     | 94.7     | 94.7    | 95.0    | 95.0    | 95.0    |
| GE 800                |                                  | 65.0     | 72.7     | 83.6     | 89.3     | 90.7     | 93.4     | 94.3     | 94.8     | 95.1     | 95.1     | 95.1     | 95.1    | 95.4    | 95.4    | 95.4    |
| GE 700                |                                  | 65.1     | 72.9     | 83.9     | 89.8     | 91.2     | 94.0     | 95.0     | 95.4     | 95.8     | 95.8     | 95.8     | 95.8    | 96.2    | 96.2    | 96.2    |
| GE 600                |                                  | 65.3     | 73.1     | 84.4     | 90.5     | 92.2     | 95.2     | 96.4     | 96.9     | 97.2     | 97.2     | 97.4     | 97.4    | 97.9    | 97.9    | 97.9    |
| GE 500                |                                  | 65.3     | 73.1     | 84.5     | 90.8     | 92.4     | 95.4     | 96.9     | 97.4     | 97.8     | 97.8     | 98.0     | 98.0    | 98.4    | 98.4    | 98.4    |
| GE 400                |                                  | 65.3     | 73.1     | 84.5     | 90.9     | 92.5     | 95.9     | 97.6     | 98.1     | 98.4     | 98.4     | 98.8     | 98.8    | 99.2    | 99.2    | 99.2    |
| GE 300                |                                  | 65.3     | 73.1     | 84.5     | 90.9     | 92.5     | 95.9     | 97.6     | 98.1     | 98.4     | 98.6     | 98.9     | 98.9    | 99.4    | 99.6    | 99.6    |
| GE 200                |                                  | 65.3     | 73.1     | 84.5     | 90.9     | 92.5     | 95.9     | 97.6     | 98.1     | 98.6     | 98.6     | 98.9     | 98.9    | 99.4    | 99.8    | 100.0   |
| GE 0                  |                                  | 65.3     | 73.1     | 84.5     | 90.9     | 92.5     | 95.9     | 97.6     | 98.1     | 98.6     | 98.6     | 98.9     | 98.9    | 99.4    | 99.8    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(IST): ALL

| CEILING<br>IN<br>FEET | GT<br>160 | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |       | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
|-----------------------|-----------|----------|----------|----------|----------|----------|----------------------------------|------|------|------|------|------|------|------|------|-------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| NO CEIL               |           | 22.9     | 24.7     | 28.1     | 30.0     | 30.6     | 31.7                             | 32.2 | 32.3 | 32.5 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.7  | 32.7     |          |          |          |          |          |         |         |         |         |
| GE 20000              |           | 28.2     | 30.4     | 34.4     | 36.7     | 37.4     | 38.6                             | 39.1 | 39.3 | 39.5 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6  | 39.7     |          |          |          |          |          |         |         |         |         |
| GE 18000              |           | 28.4     | 30.6     | 34.6     | 36.9     | 37.6     | 38.8                             | 39.3 | 39.5 | 39.7 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8  | 39.9     |          |          |          |          |          |         |         |         |         |
| GE 16000              |           | 28.5     | 30.6     | 34.6     | 36.9     | 37.7     | 38.8                             | 39.3 | 39.5 | 39.7 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.9  | 39.9     |          |          |          |          |          |         |         |         |         |
| GE 14000              |           | 28.5     | 30.6     | 34.6     | 36.9     | 37.7     | 38.8                             | 39.3 | 39.5 | 39.7 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.9  | 39.9     |          |          |          |          |          |         |         |         |         |
| GE 12000              |           | 28.7     | 30.9     | 34.9     | 37.2     | 38.0     | 39.1                             | 39.7 | 39.8 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.2 | 40.2  | 40.2     |          |          |          |          |          |         |         |         |         |
| GE 10000              |           | 30.4     | 32.8     | 36.9     | 39.4     | 40.2     | 41.4                             | 41.9 | 42.1 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.4 | 42.4  | 42.5     |          |          |          |          |          |         |         |         |         |
| GE 9000               |           | 30.7     | 33.2     | 37.3     | 39.8     | 40.6     | 41.8                             | 42.4 | 42.5 | 42.7 | 42.8 | 42.8 | 42.8 | 42.8 | 42.9 | 42.9  | 42.9     |          |          |          |          |          |         |         |         |         |
| GE 8000               |           | 35.3     | 38.3     | 43.2     | 46.0     | 47.0     | 48.4                             | 49.0 | 49.2 | 49.6 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.8  | 49.8     |          |          |          |          |          |         |         |         |         |
| GE 7000               |           | 36.4     | 39.5     | 44.5     | 47.4     | 48.4     | 49.9                             | 50.5 | 50.7 | 51.1 | 51.2 | 51.2 | 51.2 | 51.2 | 51.3 | 51.3  | 51.3     |          |          |          |          |          |         |         |         |         |
| GE 6000               |           | 36.4     | 39.5     | 44.6     | 47.6     | 48.5     | 50.0                             | 50.6 | 50.8 | 51.2 | 51.3 | 51.3 | 51.3 | 51.3 | 51.4 | 51.4  | 51.5     |          |          |          |          |          |         |         |         |         |
| GE 5000               |           | 40.0     | 43.4     | 48.8     | 51.9     | 52.8     | 54.3                             | 55.0 | 55.2 | 55.6 | 55.7 | 55.7 | 55.7 | 55.7 | 55.8 | 55.8  | 55.8     |          |          |          |          |          |         |         |         |         |
| GE 4500               |           | 41.0     | 44.5     | 49.9     | 53.1     | 54.1     | 55.6                             | 56.3 | 56.5 | 56.9 | 57.0 | 57.0 | 57.0 | 57.0 | 57.1 | 57.1  | 57.2     |          |          |          |          |          |         |         |         |         |
| GE 4000               |           | 47.7     | 51.7     | 57.8     | 61.2     | 62.3     | 64.0                             | 64.8 | 65.0 | 65.5 | 65.5 | 65.6 | 65.6 | 65.6 | 65.6 | 65.7  | 65.7     |          |          |          |          |          |         |         |         |         |
| GE 3500               |           | 52.3     | 56.5     | 63.0     | 66.7     | 67.8     | 69.6                             | 70.4 | 70.6 | 71.0 | 71.1 | 71.1 | 71.2 | 71.2 | 71.2 | 71.2  | 71.3     |          |          |          |          |          |         |         |         |         |
| GE 3000               |           | 60.3     | 65.2     | 72.7     | 76.8     | 78.1     | 80.1                             | 81.1 | 81.3 | 81.8 | 81.9 | 81.9 | 81.9 | 81.9 | 82.0 | 82.0  | 82.1     |          |          |          |          |          |         |         |         |         |
| GE 2500               |           | 61.4     | 66.5     | 74.1     | 78.3     | 79.6     | 81.6                             | 82.6 | 82.9 | 83.4 | 83.4 | 83.5 | 83.5 | 83.5 | 83.5 | 83.6  | 83.6     |          |          |          |          |          |         |         |         |         |
| GE 2000               |           | 63.7     | 69.1     | 77.3     | 81.8     | 83.2     | 85.3                             | 86.3 | 86.6 | 87.1 | 87.2 | 87.2 | 87.2 | 87.3 | 87.3 | 87.4  | 87.4     |          |          |          |          |          |         |         |         |         |
| GE 1800               |           | 63.8     | 69.3     | 77.4     | 82.0     | 83.3     | 85.5                             | 86.5 | 86.8 | 87.3 | 87.4 | 87.4 | 87.4 | 87.5 | 87.5 | 87.5  | 87.6     |          |          |          |          |          |         |         |         |         |
| GE 1500               |           | 64.8     | 70.4     | 79.0     | 83.8     | 85.3     | 87.5                             | 88.5 | 88.8 | 89.3 | 89.4 | 89.5 | 89.5 | 89.5 | 89.5 | 89.6  | 89.6     |          |          |          |          |          |         |         |         |         |
| GE 1200               |           | 66.2     | 72.1     | 81.1     | 86.1     | 87.7     | 90.1                             | 91.3 | 91.6 | 92.1 | 92.2 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3  | 92.4     |          |          |          |          |          |         |         |         |         |
| GE 1000               |           | 66.7     | 72.6     | 82.1     | 87.3     | 88.8     | 91.4                             | 92.8 | 93.1 | 93.7 | 93.8 | 93.8 | 93.8 | 93.8 | 93.9 | 93.9  | 94.0     |          |          |          |          |          |         |         |         |         |
| GE 900                |           | 66.7     | 72.7     | 82.3     | 87.7     | 89.2     | 91.9                             | 93.3 | 93.7 | 94.2 | 94.3 | 94.4 | 94.4 | 94.4 | 94.5 | 94.5  | 94.5     |          |          |          |          |          |         |         |         |         |
| GE 800                |           | 66.8     | 72.9     | 82.7     | 88.1     | 89.7     | 92.5                             | 93.8 | 94.3 | 94.8 | 94.9 | 95.0 | 95.0 | 95.0 | 95.1 | 95.1  | 95.2     |          |          |          |          |          |         |         |         |         |
| GE 700                |           | 67.0     | 73.1     | 83.0     | 88.7     | 90.3     | 93.3                             | 94.6 | 95.1 | 95.7 | 95.7 | 95.8 | 95.8 | 95.8 | 96.0 | 96.0  | 96.0     |          |          |          |          |          |         |         |         |         |
| GE 600                |           | 67.1     | 73.3     | 83.3     | 89.2     | 90.9     | 94.0                             | 95.5 | 95.9 | 96.5 | 96.6 | 96.6 | 96.6 | 96.6 | 96.8 | 97.0  | 97.1     |          |          |          |          |          |         |         |         |         |
| GE 500                |           | 67.2     | 73.4     | 83.6     | 89.5     | 91.4     | 94.7                             | 96.4 | 96.9 | 97.6 | 97.8 | 97.9 | 98.0 | 98.0 | 98.2 | 98.2  | 98.2     |          |          |          |          |          |         |         |         |         |
| GE 400                |           | 67.2     | 73.4     | 83.7     | 89.6     | 91.5     | 95.0                             | 96.8 | 97.4 | 98.1 | 98.2 | 98.5 | 98.6 | 98.6 | 98.7 | 98.8  | 98.8     |          |          |          |          |          |         |         |         |         |
| GE 300                |           | 67.2     | 73.4     | 83.7     | 89.7     | 91.6     | 95.2                             | 97.1 | 97.8 | 98.5 | 98.7 | 99.0 | 99.0 | 99.2 | 99.3 | 99.4  | 99.4     |          |          |          |          |          |         |         |         |         |
| GE 200                |           | 67.2     | 73.4     | 83.7     | 89.7     | 91.6     | 95.2                             | 97.1 | 97.8 | 98.5 | 98.7 | 99.1 | 99.1 | 99.4 | 99.5 | 99.7  | 99.7     |          |          |          |          |          |         |         |         |         |
| GE 100                |           | 67.2     | 73.4     | 83.7     | 89.7     | 91.6     | 95.2                             | 97.1 | 97.8 | 98.6 | 98.7 | 99.1 | 99.2 | 99.5 | 99.7 | 100.0 | 100.0    |          |          |          |          |          |         |         |         |         |
| GE CL                 |           | 67.2     | 73.4     | 83.7     | 89.8     | 91.6     | 95.2                             | 97.1 | 97.8 | 98.6 | 98.8 | 99.1 | 99.2 | 99.5 | 99.7 | 100.0 | 100.0    |          |          |          |          |          |         |         |         |         |

TOTAL NUMBER OF OBSERVATIONS: 7191

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(LST): 0700-0200

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 40 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  | 1    |                                  | 25.6  | 31.1  | 38.4  | 41.3  | 42.0  | 43.5  | 44.9  | 45.0  | 45.2  | 45.4  | 45.5  | 45.6 | 45.6 | 45.6 | 45.6  |
| GE 20000 |      |                                  | 26.9  | 32.9  | 40.3  | 43.3  | 43.9  | 46.0  | 47.4  | 47.5  | 47.8  | 47.9  | 48.0  | 48.1 | 48.3 | 48.3 | 48.3  |
| GE 18000 |      |                                  | 26.9  | 33.0  | 40.5  | 43.5  | 44.2  | 46.2  | 47.7  | 47.8  | 48.1  | 48.2  | 48.3  | 48.4 | 48.6 | 48.6 | 48.6  |
| GE 16000 |      |                                  | 26.9  | 33.0  | 40.5  | 43.5  | 44.2  | 46.2  | 47.7  | 47.8  | 48.1  | 48.2  | 48.3  | 48.4 | 48.6 | 48.6 | 48.6  |
| GE 14000 |      |                                  | 26.9  | 33.0  | 40.5  | 43.5  | 44.2  | 46.2  | 47.7  | 47.8  | 48.1  | 48.2  | 48.3  | 48.4 | 48.6 | 48.6 | 48.6  |
| GE 12000 |      |                                  | 26.9  | 33.2  | 40.9  | 43.8  | 44.5  | 46.6  | 48.0  | 48.1  | 48.4  | 48.5  | 48.6  | 48.7 | 49.0 | 49.0 | 49.0  |
| GE 10000 |      |                                  | 28.4  | 34.9  | 42.7  | 45.7  | 46.3  | 48.4  | 49.8  | 49.9  | 50.5  | 50.6  | 50.7  | 50.9 | 51.0 | 51.0 | 51.0  |
| GE 9000  |      |                                  | 29.5  | 36.1  | 43.9  | 46.9  | 47.5  | 49.6  | 51.0  | 51.1  | 51.7  | 51.8  | 51.9  | 52.0 | 52.2 | 52.2 | 52.2  |
| GE 8000  |      |                                  | 33.9  | 40.8  | 49.5  | 52.8  | 53.4  | 55.6  | 57.0  | 57.2  | 57.7  | 57.9  | 58.0  | 58.1 | 58.4 | 58.4 | 58.4  |
| GE 7000  |      |                                  | 34.9  | 42.0  | 50.8  | 54.1  | 54.8  | 56.9  | 58.4  | 58.5  | 59.0  | 59.2  | 59.3  | 59.5 | 59.7 | 59.7 | 59.7  |
| GE 6000  |      |                                  | 34.9  | 42.0  | 50.8  | 54.1  | 54.8  | 56.9  | 58.4  | 58.5  | 59.0  | 59.2  | 59.3  | 59.5 | 59.7 | 59.7 | 59.7  |
| GE 5000  |      |                                  | 37.0  | 44.8  | 54.0  | 57.6  | 58.3  | 60.4  | 61.9  | 62.0  | 62.5  | 62.7  | 62.8  | 63.0 | 63.2 | 63.2 | 63.2  |
| GE 4500  |      |                                  | 38.5  | 46.2  | 55.4  | 59.1  | 59.8  | 62.0  | 63.4  | 63.5  | 64.0  | 64.3  | 64.4  | 64.5 | 64.7 | 64.7 | 64.7  |
| GE 4000  |      |                                  | 48.1  | 56.8  | 66.4  | 70.4  | 71.0  | 73.4  | 74.9  | 75.0  | 75.5  | 75.7  | 75.8  | 76.0 | 76.2 | 76.2 | 76.2  |
| GE 3500  |      |                                  | 50.8  | 59.6  | 69.9  | 74.0  | 74.6  | 77.3  | 78.7  | 78.8  | 79.3  | 79.6  | 79.7  | 79.8 | 80.0 | 80.0 | 80.0  |
| GE 3000  |      |                                  | 54.3  | 63.9  | 74.9  | 79.1  | 79.8  | 82.5  | 83.9  | 84.0  | 84.6  | 84.8  | 84.9  | 85.0 | 85.2 | 85.2 | 85.2  |
| GE 2500  |      |                                  | 54.8  | 64.6  | 75.8  | 80.1  | 80.8  | 83.5  | 84.9  | 85.0  | 85.6  | 85.8  | 85.9  | 86.0 | 86.2 | 86.2 | 86.2  |
| GE 2000  |      |                                  | 55.5  | 65.7  | 77.2  | 81.4  | 82.1  | 84.8  | 86.2  | 86.3  | 86.9  | 87.1  | 87.2  | 87.3 | 87.5 | 87.5 | 87.5  |
| GE 1800  |      |                                  | 55.7  | 65.9  | 77.4  | 81.6  | 82.3  | 85.2  | 86.7  | 86.8  | 87.3  | 87.5  | 87.7  | 87.8 | 88.0 | 88.0 | 88.0  |
| GE 1500  |      |                                  | 56.9  | 67.2  | 79.0  | 83.3  | 83.9  | 87.0  | 88.4  | 88.5  | 89.1  | 89.3  | 89.4  | 89.5 | 89.7 | 89.7 | 89.7  |
| GE 1200  |      |                                  | 57.9  | 68.3  | 80.4  | 84.8  | 85.5  | 88.5  | 89.9  | 90.1  | 90.6  | 90.8  | 90.9  | 91.0 | 91.3 | 91.3 | 91.3  |
| GE 1000  |      |                                  | 58.4  | 69.0  | 81.5  | 86.0  | 86.7  | 89.8  | 91.3  | 91.6  | 92.2  | 92.5  | 92.6  | 92.7 | 92.9 | 92.9 | 92.9  |
| GE 900   |      |                                  | 58.4  | 69.0  | 81.7  | 86.3  | 87.0  | 90.4  | 91.9  | 92.2  | 92.9  | 93.1  | 93.2  | 93.3 | 93.6 | 93.6 | 93.6  |
| GE 800   |      |                                  | 58.6  | 69.2  | 82.1  | 87.0  | 87.7  | 91.0  | 92.8  | 93.1  | 93.8  | 94.0  | 94.1  | 94.2 | 94.4 | 94.4 | 94.4  |
| GE 700   |      |                                  | 58.6  | 69.2  | 82.7  | 88.0  | 89.0  | 92.5  | 94.2  | 94.5  | 95.2  | 95.4  | 95.5  | 95.6 | 95.8 | 95.8 | 95.8  |
| GE 600   |      |                                  | 58.8  | 69.4  | 83.0  | 89.2  | 90.2  | 93.7  | 95.4  | 95.7  | 96.4  | 96.6  | 96.7  | 96.8 | 97.0 | 97.0 | 97.0  |
| GE 500   |      |                                  | 58.8  | 69.4  | 83.1  | 89.4  | 90.4  | 94.0  | 95.7  | 96.1  | 96.7  | 96.9  | 97.0  | 97.2 | 97.4 | 97.4 | 97.4  |
| GE 400   |      |                                  | 58.8  | 69.4  | 83.1  | 89.5  | 90.5  | 94.1  | 96.2  | 96.5  | 97.2  | 97.5  | 97.6  | 97.7 | 97.9 | 97.9 | 97.9  |
| GE 300   |      |                                  | 58.8  | 69.4  | 83.1  | 89.5  | 90.6  | 94.2  | 96.4  | 96.9  | 97.7  | 98.0  | 98.1  | 98.3 | 98.5 | 98.5 | 98.5  |
| GE 200   |      |                                  | 58.8  | 69.4  | 83.1  | 89.5  | 90.6  | 94.2  | 96.4  | 96.9  | 97.7  | 98.0  | 98.1  | 98.4 | 98.8 | 98.8 | 99.0  |
| GE 100   |      |                                  | 58.8  | 69.4  | 83.1  | 89.5  | 90.6  | 94.2  | 96.4  | 96.9  | 97.7  | 98.0  | 98.1  | 98.4 | 98.9 | 99.0 | 100.0 |
| GE       | 01   |                                  | 58.8  | 69.4  | 83.1  | 89.5  | 90.6  | 94.2  | 96.4  | 96.9  | 97.7  | 98.0  | 98.1  | 98.4 | 98.9 | 99.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 915

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: JUL HOURS(IST): 0300-0500

| CEILING<br>IN<br>FEET | GT<br>160 | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |
|-----------------------|-----------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|
|                       |           | GE<br>90                         | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>30 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |
| NO CEIL               |           | 16.8                             | 21.6     | 26.4     | 29.6     | 30.5     | 33.3     | 34.5     | 35.6     | 36.5     | 36.7     | 37.0    | 37.2    | 37.5    | 37.6    | 38.1  |  |
| GE 20000              |           | 17.6                             | 22.7     | 28.1     | 31.6     | 32.7     | 36.2     | 37.8     | 39.0     | 40.1     | 40.3     | 40.7    | 40.8    | 41.1    | 41.2    | 41.9  |  |
| GE 18000              |           | 17.6                             | 22.7     | 28.1     | 31.6     | 32.7     | 36.2     | 37.8     | 39.1     | 40.2     | 40.4     | 40.8    | 40.9    | 41.2    | 41.3    | 42.0  |  |
| GE 16000              |           | 17.6                             | 22.7     | 28.1     | 31.6     | 32.7     | 36.2     | 37.8     | 39.1     | 40.2     | 40.4     | 40.8    | 40.9    | 41.2    | 41.3    | 42.0  |  |
| GE 14000              |           | 17.6                             | 22.7     | 28.1     | 31.6     | 32.7     | 36.2     | 37.8     | 39.1     | 40.2     | 40.4     | 40.8    | 40.9    | 41.2    | 41.3    | 42.0  |  |
| GE 12000              |           | 17.7                             | 22.8     | 28.2     | 31.7     | 32.8     | 36.3     | 38.1     | 39.5     | 40.5     | 40.8     | 41.1    | 41.2    | 41.5    | 41.6    | 42.3  |  |
| GE 10000              |           | 18.6                             | 24.0     | 29.6     | 33.1     | 34.2     | 37.8     | 39.7     | 41.0     | 42.1     | 42.3     | 42.6    | 42.7    | 43.2    | 43.3    | 44.0  |  |
| GE 9000               |           | 19.0                             | 24.5     | 30.2     | 33.9     | 35.0     | 38.7     | 40.5     | 41.9     | 43.0     | 43.2     | 43.5    | 43.7    | 44.2    | 44.3    | 45.1  |  |
| GE 8000               |           | 22.1                             | 28.6     | 35.1     | 39.9     | 41.0     | 45.1     | 47.1     | 48.4     | 49.5     | 49.7     | 50.1    | 50.3    | 50.7    | 50.9    | 51.8  |  |
| GE 7000               |           | 22.6                             | 29.2     | 35.6     | 40.5     | 41.6     | 45.8     | 47.8     | 49.1     | 50.2     | 50.4     | 50.7    | 50.9    | 51.4    | 51.6    | 52.5  |  |
| GE 6000               |           | 22.6                             | 29.2     | 35.6     | 40.5     | 41.6     | 45.8     | 47.8     | 49.1     | 50.2     | 50.4     | 50.7    | 50.9    | 51.4    | 51.6    | 52.5  |  |
| GE 5000               |           | 26.7                             | 33.4     | 40.5     | 45.8     | 47.0     | 51.1     | 53.2     | 54.5     | 55.6     | 55.8     | 56.2    | 56.4    | 56.8    | 57.0    | 57.9  |  |
| GE 4500               |           | 28.0                             | 34.9     | 42.0     | 47.2     | 48.4     | 52.6     | 54.6     | 56.0     | 57.2     | 57.4     | 57.7    | 57.9    | 58.4    | 58.6    | 59.5  |  |
| GE 4000               |           | 36.9                             | 44.6     | 52.1     | 58.0     | 59.2     | 64.0     | 66.1     | 67.4     | 68.6     | 68.9     | 69.2    | 69.4    | 69.8    | 70.1    | 70.9  |  |
| GE 3500               |           | 38.7                             | 46.6     | 54.5     | 60.7     | 62.0     | 66.9     | 69.1     | 70.4     | 71.6     | 71.8     | 72.1    | 72.3    | 72.8    | 73.0    | 73.9  |  |
| GE 3000               |           | 42.8                             | 51.3     | 59.9     | 66.2     | 67.7     | 72.8     | 75.2     | 76.7     | 77.9     | 78.1     | 78.5    | 78.7    | 79.1    | 79.3    | 80.2  |  |
| GE 2500               |           | 43.5                             | 51.9     | 60.7     | 67.1     | 68.5     | 73.7     | 76.3     | 77.8     | 79.0     | 79.2     | 79.6    | 79.8    | 80.2    | 80.4    | 81.3  |  |
| GE 2000               |           | 44.5                             | 53.2     | 62.5     | 69.0     | 70.6     | 75.8     | 78.5     | 80.0     | 81.3     | 81.5     | 81.9    | 82.1    | 82.5    | 82.7    | 83.6  |  |
| GE 1800               |           | 44.6                             | 53.3     | 62.7     | 69.2     | 70.8     | 76.1     | 78.7     | 80.2     | 81.5     | 81.7     | 82.1    | 82.3    | 82.7    | 83.0    | 83.8  |  |
| GE 1500               |           | 45.6                             | 54.4     | 64.3     | 71.4     | 73.0     | 78.3     | 80.9     | 82.4     | 83.7     | 83.9     | 84.3    | 84.5    | 84.9    | 85.1    | 86.0  |  |
| GE 1200               |           | 46.9                             | 55.7     | 66.0     | 73.6     | 75.3     | 80.7     | 83.5     | 85.0     | 86.3     | 86.6     | 86.9    | 87.1    | 87.5    | 87.8    | 88.6  |  |
| GE 1000               |           | 47.7                             | 56.7     | 67.3     | 74.9     | 76.7     | 82.4     | 85.4     | 86.9     | 88.2     | 88.4     | 88.7    | 89.0    | 89.4    | 89.6    | 90.5  |  |
| GE 900                |           | 47.7                             | 56.7     | 67.4     | 75.1     | 76.9     | 83.0     | 86.2     | 87.8     | 89.1     | 89.3     | 89.6    | 89.8    | 90.3    | 90.5    | 91.4  |  |
| GE 800                |           | 47.7                             | 56.7     | 67.5     | 75.2     | 77.2     | 83.3     | 86.6     | 88.1     | 89.4     | 89.6     | 89.9    | 90.2    | 90.6    | 90.8    | 91.7  |  |
| GE 700                |           | 47.7                             | 56.8     | 68.7     | 76.5     | 78.5     | 84.6     | 88.0     | 89.5     | 90.8     | 91.0     | 91.4    | 91.6    | 92.0    | 92.2    | 93.1  |  |
| GE 600                |           | 47.7                             | 56.8     | 68.7     | 77.2     | 79.1     | 85.5     | 88.9     | 90.4     | 91.8     | 92.0     | 92.3    | 92.6    | 93.0    | 93.2    | 94.1  |  |
| GE 500                |           | 47.7                             | 56.8     | 69.0     | 77.7     | 79.9     | 86.4     | 90.2     | 91.8     | 93.4     | 93.7     | 94.0    | 94.2    | 94.6    | 94.9    | 95.7  |  |
| GE 400                |           | 47.7                             | 56.8     | 69.2     | 78.0     | 80.3     | 86.9     | 91.4     | 93.0     | 94.9     | 95.1     | 95.4    | 95.6    | 96.1    | 96.3    | 97.2  |  |
| GE 300                |           | 47.7                             | 56.8     | 69.2     | 78.0     | 80.3     | 86.9     | 91.4     | 93.0     | 95.0     | 95.4     | 95.7    | 96.0    | 96.6    | 96.9    | 97.8  |  |
| GE 200                |           | 47.7                             | 56.8     | 69.2     | 78.0     | 80.3     | 86.9     | 91.4     | 93.1     | 95.1     | 95.5     | 96.0    | 96.3    | 97.2    | 97.5    | 98.9  |  |
| GE 100                |           | 47.7                             | 56.8     | 69.2     | 78.0     | 80.3     | 86.9     | 91.4     | 93.1     | 95.1     | 95.5     | 96.0    | 96.3    | 97.5    | 97.8    | 100.0 |  |
| GE 0                  |           | 47.7                             | 56.8     | 69.2     | 78.0     | 80.3     | 86.9     | 91.4     | 93.1     | 95.1     | 95.5     | 96.0    | 96.3    | 97.5    | 97.8    | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 915

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(LST): 0600-0800

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|----------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN       | FEET | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL  | I    | 18.5                             | 23.1     | 27.0     | 30.0     | 30.6     | 32.2     | 33.2     | 33.4     | 33.8     | 33.8     | 33.8     | 33.8     | 33.8    | 33.8    | 33.8    | 33.9    |
| GE 20000 | I    | 20.8                             | 26.0     | 30.9     | 34.6     | 35.6     | 37.6     | 38.7     | 39.1     | 39.7     | 39.7     | 39.7     | 39.7     | 39.7    | 39.7    | 39.7    | 39.8    |
| GE 18000 | I    | 20.9                             | 26.3     | 31.1     | 34.8     | 35.8     | 37.9     | 38.9     | 39.3     | 39.9     | 39.9     | 39.9     | 39.9     | 39.9    | 39.9    | 39.9    | 40.0    |
| GE 16000 | I    | 20.9                             | 26.3     | 31.1     | 34.8     | 35.8     | 37.9     | 38.9     | 39.3     | 39.9     | 39.9     | 39.9     | 39.9     | 39.9    | 39.9    | 39.9    | 40.0    |
| GE 14000 | I    | 20.9                             | 26.3     | 31.1     | 34.8     | 35.8     | 37.9     | 38.9     | 39.3     | 39.9     | 39.9     | 39.9     | 39.9     | 39.9    | 39.9    | 39.9    | 40.0    |
| GE 12000 | I    | 21.0                             | 26.7     | 31.6     | 35.3     | 36.3     | 38.5     | 39.7     | 40.0     | 40.7     | 40.7     | 40.7     | 40.7     | 40.7    | 40.7    | 40.7    | 40.8    |
| GE 10000 | I    | 23.0                             | 28.8     | 33.9     | 37.9     | 38.8     | 41.7     | 42.2     | 42.6     | 43.2     | 43.2     | 43.2     | 43.2     | 43.2    | 43.2    | 43.2    | 43.3    |
| GE 9000  | I    | 24.0                             | 29.9     | 35.0     | 38.9     | 39.9     | 42.1     | 43.3     | 43.7     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3    | 44.3    | 44.3    | 44.6    |
| GE 8000  | I    | 28.1                             | 34.4     | 40.7     | 45.2     | 46.3     | 48.8     | 50.1     | 50.4     | 51.1     | 51.1     | 51.1     | 51.1     | 51.1    | 51.3    | 51.3    | 51.4    |
| GE 7000  | I    | 29.1                             | 35.3     | 41.7     | 46.3     | 47.4     | 49.9     | 51.2     | 51.5     | 52.2     | 52.2     | 52.2     | 52.2     | 52.3    | 52.5    | 52.5    | 52.6    |
| GE 6000  | I    | 29.0                             | 35.3     | 41.7     | 46.3     | 47.4     | 49.9     | 51.2     | 51.5     | 52.2     | 52.2     | 52.2     | 52.2     | 52.3    | 52.5    | 52.5    | 52.6    |
| GE 5000  | I    | 32.1                             | 38.7     | 45.4     | 50.3     | 51.4     | 54.0     | 55.5     | 55.8     | 56.6     | 56.6     | 56.6     | 56.6     | 56.7    | 56.9    | 56.9    | 57.0    |
| GE 4500  | I    | 33.6                             | 40.3     | 46.9     | 52.0     | 53.2     | 55.8     | 57.4     | 57.8     | 58.5     | 58.5     | 58.5     | 58.5     | 58.6    | 58.9    | 58.9    | 59.0    |
| GE 4000  | I    | 39.3                             | 46.5     | 53.8     | 59.2     | 60.6     | 63.2     | 64.9     | 65.2     | 66.2     | 66.2     | 66.2     | 66.2     | 66.3    | 66.5    | 66.5    | 66.6    |
| GE 3500  | I    | 41.2                             | 49.0     | 57.1     | 62.8     | 64.2     | 67.0     | 68.7     | 69.0     | 70.0     | 70.0     | 70.0     | 70.0     | 70.1    | 70.4    | 70.4    | 70.5    |
| GE 3000  | I    | 46.1                             | 54.3     | 63.1     | 69.7     | 71.4     | 74.3     | 76.1     | 76.7     | 77.7     | 77.7     | 77.7     | 77.7     | 77.8    | 78.0    | 78.0    | 78.1    |
| GE 2500  | I    | 46.4                             | 54.9     | 63.8     | 70.4     | 72.1     | 74.9     | 76.8     | 77.4     | 78.6     | 78.6     | 78.6     | 78.6     | 78.7    | 78.9    | 78.9    | 79.0    |
| GE 2000  | I    | 47.8                             | 56.7     | 65.9     | 72.6     | 74.4     | 77.4     | 79.2     | 79.8     | 81.0     | 81.0     | 81.0     | 81.0     | 81.1    | 81.3    | 81.3    | 81.4    |
| GE 1800  | I    | 48.0                             | 57.0     | 66.2     | 73.1     | 74.8     | 77.9     | 79.8     | 80.3     | 81.5     | 81.5     | 81.5     | 81.5     | 81.6    | 81.8    | 81.8    | 81.9    |
| GE 1600  | I    | 50.0                             | 59.5     | 68.9     | 76.0     | 77.9     | 81.1     | 82.9     | 83.5     | 84.7     | 84.7     | 84.7     | 84.7     | 84.8    | 85.0    | 85.0    | 85.1    |
| GE 1400  | I    | 51.3                             | 61.3     | 71.0     | 78.4     | 80.4     | 83.7     | 85.6     | 86.1     | 87.3     | 87.3     | 87.3     | 87.3     | 87.4    | 87.6    | 87.6    | 87.7    |
| GE 1000  | I    | 51.8                             | 62.0     | 72.5     | 80.7     | 82.8     | 86.4     | 88.4     | 88.9     | 90.2     | 90.2     | 90.2     | 90.2     | 90.3    | 90.5    | 90.5    | 90.6    |
| GE 900   | I    | 51.8                             | 62.1     | 72.8     | 81.1     | 83.3     | 86.9     | 88.9     | 89.5     | 90.7     | 90.7     | 90.7     | 90.7     | 90.8    | 91.0    | 91.0    | 91.1    |
| GE 800   | I    | 52.0                             | 62.5     | 73.6     | 82.4     | 84.6     | 88.2     | 90.5     | 91.0     | 92.3     | 92.3     | 92.3     | 92.3     | 92.6    | 92.8    | 92.8    | 92.9    |
| GE 700   | I    | 52.1                             | 62.6     | 74.2     | 83.7     | 85.9     | 89.6     | 92.1     | 92.7     | 94.0     | 94.0     | 94.0     | 94.1     | 94.2    | 94.4    | 94.4    | 94.5    |
| GE 600   | I    | 52.2                             | 62.8     | 74.6     | 84.5     | 86.7     | 90.5     | 93.0     | 93.5     | 94.9     | 94.9     | 94.9     | 95.0     | 95.1    | 95.3    | 95.3    | 95.4    |
| GE 500   | I    | 52.2                             | 62.9     | 74.8     | 84.8     | 87.1     | 91.5     | 94.4     | 95.0     | 96.3     | 96.4     | 96.4     | 96.5     | 96.7    | 96.9    | 96.9    | 97.0    |
| GE 400   | I    | 52.2                             | 62.9     | 74.8     | 84.8     | 87.2     | 91.6     | 94.7     | 95.3     | 96.9     | 97.3     | 97.3     | 97.4     | 97.6    | 97.8    | 97.8    | 97.9    |
| GE 300   | I    | 52.2                             | 62.9     | 74.8     | 84.9     | 87.3     | 91.7     | 94.9     | 95.4     | 97.2     | 97.7     | 97.7     | 97.8     | 98.0    | 98.6    | 98.7    | 99.0    |
| GE 200   | I    | 52.2                             | 62.9     | 74.8     | 84.9     | 87.3     | 91.7     | 94.9     | 95.4     | 97.3     | 97.8     | 97.8     | 97.9     | 98.1    | 98.8    | 99.0    | 99.7    |
| GE 100   | I    | 52.2                             | 62.9     | 74.8     | 84.9     | 87.3     | 91.7     | 94.9     | 95.4     | 97.3     | 97.8     | 97.8     | 97.9     | 98.1    | 98.9    | 99.1    | 100.0   |
| GE 0     | I    | 52.2                             | 62.9     | 74.8     | 84.9     | 87.3     | 91.7     | 94.9     | 95.4     | 97.3     | 97.8     | 97.8     | 97.9     | 98.1    | 98.9    | 99.1    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 94

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 |
| NO CEIL               |                                  | 20.9     | 23.4     | 26.6     | 28.3     | 28.4     | 28.9     | 29.1     | 29.1     | 29.1     | 29.1     | 29.1     | 29.1    | 29.1    | 29.1    |
| GE 20000              |                                  | 24.9     | 27.9     | 32.6     | 35.2     | 35.4     | 36.1     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2    | 36.2    | 36.2    |
| GE 18000              |                                  | 24.9     | 28.0     | 32.7     | 35.3     | 35.5     | 36.2     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.3    |
| GE 16000              |                                  | 24.9     | 28.0     | 32.7     | 35.3     | 35.5     | 36.2     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.3    |
| GE 14000              |                                  | 24.9     | 28.0     | 32.7     | 35.3     | 35.5     | 36.2     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.3    |
| GE 12000              |                                  | 25.1     | 28.2     | 32.9     | 35.5     | 35.7     | 36.4     | 36.5     | 36.5     | 36.5     | 36.5     | 36.5     | 36.5    | 36.5    | 36.5    |
| GE 10000              |                                  | 27.9     | 31.3     | 36.3     | 38.9     | 39.1     | 39.9     | 40.0     | 40.0     | 40.0     | 40.0     | 40.0     | 40.0    | 40.0    | 40.0    |
| GE 9000               |                                  | 28.2     | 31.6     | 36.6     | 39.3     | 39.5     | 40.4     | 40.6     | 40.6     | 40.6     | 40.6     | 40.6     | 40.6    | 40.6    | 40.6    |
| GE 8000               |                                  | 33.0     | 37.1     | 42.4     | 45.2     | 45.4     | 46.3     | 46.5     | 46.5     | 46.5     | 46.5     | 46.5     | 46.5    | 46.5    | 46.5    |
| GE 7000               |                                  | 34.1     | 38.2     | 43.8     | 46.5     | 46.7     | 47.6     | 47.8     | 47.8     | 47.8     | 47.8     | 47.8     | 47.8    | 47.8    | 47.8    |
| GE 6000               |                                  | 34.2     | 38.3     | 43.9     | 46.6     | 46.8     | 47.7     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9    | 47.9    | 47.9    |
| GE 5000               |                                  | 36.5     | 40.8     | 47.3     | 50.3     | 50.7     | 51.5     | 51.8     | 51.8     | 51.8     | 51.8     | 51.8     | 51.8    | 51.8    | 51.8    |
| GE 4500               |                                  | 37.9     | 42.3     | 49.0     | 52.1     | 52.4     | 53.3     | 53.5     | 53.5     | 53.5     | 53.5     | 53.5     | 53.5    | 53.5    | 53.5    |
| GE 4000               |                                  | 46.6     | 51.3     | 58.8     | 62.1     | 62.4     | 63.5     | 63.7     | 63.7     | 63.8     | 63.8     | 63.8     | 63.8    | 63.8    | 63.8    |
| GE 3500               |                                  | 50.5     | 55.6     | 63.6     | 66.4     | 66.8     | 67.9     | 68.1     | 68.1     | 68.2     | 68.2     | 68.2     | 68.2    | 68.2    | 68.2    |
| GE 3000               |                                  | 60.4     | 66.1     | 74.2     | 77.9     | 78.3     | 79.5     | 79.8     | 79.8     | 79.9     | 79.9     | 79.9     | 79.9    | 79.9    | 79.9    |
| GE 2500               |                                  | 61.6     | 67.4     | 75.8     | 79.4     | 79.6     | 81.0     | 81.4     | 81.4     | 81.5     | 81.5     | 81.5     | 81.5    | 81.5    | 81.5    |
| GE 2000               |                                  | 66.0     | 72.3     | 80.9     | 84.8     | 85.3     | 86.5     | 87.0     | 87.0     | 87.1     | 87.1     | 87.1     | 87.1    | 87.1    | 87.1    |
| GE 1800               |                                  | 66.4     | 72.7     | 81.4     | 85.3     | 85.9     | 87.1     | 87.5     | 87.5     | 87.7     | 87.7     | 87.7     | 87.7    | 87.7    | 87.7    |
| GE 1500               |                                  | 68.3     | 74.8     | 83.9     | 87.9     | 88.5     | 89.7     | 90.1     | 90.4     | 90.6     | 90.6     | 90.6     | 90.6    | 90.6    | 90.6    |
| GE 1200               |                                  | 69.1     | 75.9     | 85.4     | 89.9     | 90.5     | 91.8     | 92.2     | 92.4     | 92.7     | 92.7     | 92.7     | 92.7    | 92.7    | 92.7    |
| GE 1000               |                                  | 69.1     | 76.1     | 86.8     | 91.9     | 92.5     | 94.0     | 94.4     | 94.6     | 95.0     | 95.0     | 95.0     | 95.0    | 95.0    | 95.0    |
| GE 900                |                                  | 69.3     | 76.3     | 87.3     | 92.3     | 93.1     | 94.8     | 95.3     | 95.5     | 95.8     | 95.8     | 95.8     | 95.8    | 95.8    | 95.8    |
| GE 800                |                                  | 69.5     | 76.5     | 87.7     | 93.1     | 93.9     | 95.9     | 96.5     | 96.7     | 97.0     | 97.0     | 97.0     | 97.0    | 97.0    | 97.0    |
| GE 700                |                                  | 69.5     | 76.5     | 87.7     | 93.3     | 94.1     | 96.4     | 96.9     | 97.1     | 97.5     | 97.5     | 97.5     | 97.5    | 97.5    | 97.5    |
| GE 600                |                                  | 69.5     | 76.5     | 87.8     | 93.6     | 94.5     | 96.9     | 97.5     | 97.7     | 98.1     | 98.1     | 98.1     | 98.1    | 98.1    | 98.1    |
| GE 500                |                                  | 69.5     | 76.5     | 87.8     | 93.8     | 94.7     | 97.3     | 97.9     | 98.1     | 98.7     | 98.7     | 98.7     | 98.7    | 98.7    | 98.7    |
| GE 400                |                                  | 69.5     | 76.5     | 87.8     | 93.8     | 94.7     | 97.4     | 98.7     | 99.0     | 99.6     | 99.6     | 99.6     | 99.6    | 99.6    | 99.6    |
| GE 300                |                                  | 69.5     | 76.5     | 87.8     | 93.8     | 94.7     | 97.4     | 98.7     | 99.0     | 99.7     | 99.8     | 99.8     | 99.9    | 99.9    | 99.9    |
| GE 200                |                                  | 69.5     | 76.5     | 87.8     | 93.8     | 94.7     | 97.4     | 98.7     | 99.0     | 99.7     | 99.9     | 99.9     | 100.0   | 100.0   | 100.0   |
| GE 100                |                                  | 69.5     | 76.5     | 87.8     | 93.8     | 94.7     | 97.4     | 98.7     | 99.0     | 99.7     | 99.9     | 99.9     | 100.0   | 100.0   | 100.0   |
| GE 0                  |                                  | 69.5     | 76.5     | 87.8     | 93.8     | 94.7     | 97.4     | 98.7     | 99.0     | 99.7     | 99.9     | 99.9     | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 912

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: Q35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(IST): 1230-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 |
| NO CEIL               | 23.4                             | 24.3     | 27.1     | 28.1     | 28.2     | 28.3     | 28.3     | 28.3     | 28.3     | 28.3     | 28.3     | 28.3     | 28.3    | 28.3    | 28.3    |
| GE 20000              | 28.7                             | 37.6     | 34.5     | 36.2     | 36.4     | 36.7     | 36.7     | 36.7     | 36.7     | 36.7     | 36.7     | 36.7     | 36.7    | 36.7    | 36.7    |
| GE 18000              | 28.8                             | 30.7     | 34.6     | 36.3     | 36.5     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8    | 36.8    | 36.8    |
| GE 16000              | 28.8                             | 30.7     | 34.6     | 36.3     | 36.5     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8    | 36.8    | 36.8    |
| GE 14000              | 28.8                             | 30.7     | 34.6     | 36.3     | 36.5     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8     | 36.8    | 36.8    | 36.8    |
| GE 12000              | 29.1                             | 31.0     | 35.0     | 36.6     | 36.8     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2    | 37.2    | 37.2    |
| GE 10000              | 30.6                             | 32.8     | 37.1     | 38.9     | 39.1     | 39.5     | 39.5     | 39.5     | 39.5     | 39.5     | 39.5     | 39.5     | 39.5    | 39.5    | 39.5    |
| GE 9000               | 30.9                             | 33.1     | 37.6     | 39.5     | 39.7     | 40.0     | 40.0     | 40.0     | 40.0     | 40.0     | 40.0     | 40.0     | 40.0    | 40.0    | 40.0    |
| GE 8000               | 34.8                             | 37.2     | 41.7     | 43.5     | 43.8     | 44.1     | 44.2     | 44.2     | 44.2     | 44.2     | 44.2     | 44.2     | 44.2    | 44.2    | 44.2    |
| GE 7000               | 35.7                             | 38.3     | 42.8     | 44.6     | 44.8     | 45.2     | 45.3     | 45.3     | 45.3     | 45.3     | 45.3     | 45.3     | 45.3    | 45.3    | 45.3    |
| GE 6000               | 35.7                             | 38.3     | 42.8     | 44.6     | 44.8     | 45.2     | 45.3     | 45.3     | 45.3     | 45.3     | 45.3     | 45.3     | 45.3    | 45.3    | 45.3    |
| GE 5000               | 38.7                             | 41.2     | 45.9     | 47.8     | 48.0     | 48.6     | 48.7     | 48.7     | 48.7     | 48.7     | 48.7     | 48.7     | 48.7    | 48.7    | 48.7    |
| GE 4500               | 41.2                             | 44.1     | 48.8     | 50.7     | 50.9     | 51.4     | 51.5     | 51.5     | 51.5     | 51.5     | 51.5     | 51.5     | 51.5    | 51.5    | 51.5    |
| GE 4000               | 52.1                             | 54.9     | 59.9     | 61.8     | 62.1     | 62.6     | 62.7     | 62.7     | 62.7     | 62.9     | 62.9     | 62.9     | 62.9    | 62.9    | 62.9    |
| GE 3500               | 56.6                             | 59.6     | 65.1     | 67.2     | 67.4     | 68.1     | 68.2     | 68.2     | 68.4     | 68.4     | 68.4     | 68.4     | 68.4    | 68.4    | 68.4    |
| GE 3000               | 69.8                             | 73.8     | 80.0     | 82.5     | 82.7     | 83.6     | 83.8     | 83.8     | 84.0     | 84.0     | 84.0     | 84.0     | 84.0    | 84.0    | 84.0    |
| GE 2500               | 71.5                             | 75.7     | 82.1     | 84.5     | 84.8     | 85.6     | 85.9     | 85.9     | 86.1     | 86.1     | 86.1     | 86.1     | 86.1    | 86.1    | 86.1    |
| GE 2000               | 75.8                             | 80.3     | 87.6     | 90.2     | 90.5     | 91.3     | 91.6     | 91.6     | 91.8     | 91.8     | 91.8     | 91.8     | 91.8    | 91.8    | 91.8    |
| GE 1800               | 75.8                             | 80.3     | 87.7     | 90.4     | 90.6     | 91.4     | 91.7     | 91.7     | 91.9     | 91.9     | 91.9     | 91.9     | 91.9    | 91.9    | 91.9    |
| GE 1500               | 77.3                             | 82.0     | 89.9     | 93.2     | 93.4     | 94.3     | 94.5     | 94.5     | 94.7     | 94.7     | 94.7     | 94.7     | 94.7    | 94.7    | 94.7    |
| GE 1200               | 77.9                             | 83.1     | 91.4     | 95.2     | 95.5     | 96.6     | 96.8     | 96.8     | 97.0     | 97.0     | 97.0     | 97.0     | 97.0    | 97.0    | 97.0    |
| GE 1000               | 78.1                             | 83.7     | 92.1     | 95.9     | 96.3     | 97.4     | 97.6     | 97.6     | 97.8     | 97.8     | 97.8     | 97.8     | 97.8    | 97.8    | 97.8    |
| GE 900                | 78.1                             | 83.7     | 92.2     | 96.1     | 96.4     | 97.5     | 97.7     | 97.7     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9    | 97.9    | 97.9    |
| GE 800                | 78.2                             | 83.8     | 92.5     | 96.6     | 96.9     | 98.1     | 98.4     | 98.4     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6    | 98.6    | 98.6    |
| GE 700                | 78.2                             | 83.8     | 92.9     | 97.5     | 97.8     | 99.1     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7    | 99.7    | 99.7    |
| GE 600                | 78.2                             | 83.8     | 93.0     | 97.7     | 98.0     | 99.3     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    |
| GE 500                | 78.2                             | 83.8     | 93.0     | 97.7     | 98.0     | 99.3     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    |
| GE 400                | 78.2                             | 83.8     | 93.0     | 97.7     | 98.0     | 99.3     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    |
| GE 300                | 78.2                             | 83.8     | 93.0     | 97.7     | 98.0     | 99.3     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    |
| GE 200                | 78.2                             | 83.8     | 93.0     | 97.7     | 98.0     | 99.3     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    |
| GE 100                | 78.2                             | 83.8     | 93.0     | 97.7     | 98.0     | 99.3     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    |
| GE 0                  | 78.2                             | 83.8     | 93.0     | 97.8     | 98.1     | 99.5     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 912



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS (LST): 1507-1700

| CEILING<br>IN<br>FEET | GT<br>160 | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
|-----------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| NO CEIL               |           | 23.5     | 26.2     | 28.7     | 29.7     | 29.9     | 30.3     | 30.3     | 30.3     | 30.3     | 30.3     | 30.3     | 30.3    | 30.3    | 30.3    | 30.3    |
| GE 20000              |           | 30.4     | 34.5     | 37.5     | 39.6     | 39.2     | 39.6     | 39.6     | 39.6     | 39.7     | 39.7     | 39.7     | 39.7    | 39.7    | 39.7    | 39.7    |
| GE 18000              |           | 30.8     | 35.0     | 37.9     | 39.5     | 39.7     | 40.0     | 40.0     | 40.0     | 40.1     | 40.1     | 40.1     | 40.1    | 40.1    | 40.1    | 40.1    |
| GE 16000              |           | 30.8     | 35.0     | 37.9     | 39.5     | 39.7     | 40.0     | 40.0     | 40.0     | 40.1     | 40.1     | 40.1     | 40.1    | 40.1    | 40.1    | 40.1    |
| GE 14000              |           | 30.9     | 35.1     | 38.0     | 39.6     | 39.8     | 40.1     | 40.1     | 40.1     | 40.2     | 40.2     | 40.2     | 40.2    | 40.2    | 40.2    | 40.2    |
| GE 12000              |           | 31.6     | 36.1     | 39.0     | 40.5     | 40.6     | 41.1     | 41.1     | 41.1     | 41.2     | 41.2     | 41.2     | 41.2    | 41.2    | 41.2    | 41.2    |
| GE 10000              |           | 34.6     | 39.2     | 42.4     | 44.3     | 44.5     | 44.8     | 44.8     | 44.8     | 44.9     | 44.9     | 44.9     | 44.9    | 44.9    | 44.9    | 44.9    |
| GE 9000               |           | 35.8     | 40.4     | 43.6     | 45.5     | 45.7     | 46.0     | 46.0     | 46.0     | 46.1     | 46.1     | 46.1     | 46.1    | 46.1    | 46.1    | 46.1    |
| GE 8000               |           | 41.1     | 45.8     | 49.4     | 51.3     | 51.5     | 52.0     | 52.0     | 52.0     | 52.1     | 52.1     | 52.1     | 52.1    | 52.1    | 52.1    | 52.1    |
| GE 7000               |           | 42.1     | 46.8     | 50.6     | 52.5     | 52.7     | 53.2     | 53.2     | 53.2     | 53.3     | 53.3     | 53.3     | 53.3    | 53.3    | 53.3    | 53.3    |
| GE 6000               |           | 42.1     | 46.8     | 50.6     | 52.5     | 52.7     | 53.2     | 53.2     | 53.2     | 53.3     | 53.3     | 53.3     | 53.3    | 53.3    | 53.3    | 53.3    |
| GE 5000               |           | 44.8     | 49.5     | 53.3     | 55.2     | 55.4     | 56.1     | 56.1     | 56.1     | 56.2     | 56.2     | 56.2     | 56.2    | 56.2    | 56.2    | 56.2    |
| GE 4500               |           | 46.7     | 51.4     | 55.2     | 57.0     | 57.3     | 57.9     | 57.9     | 57.9     | 58.0     | 58.0     | 58.0     | 58.0    | 58.0    | 58.0    | 58.0    |
| GE 4000               |           | 56.9     | 62.6     | 66.8     | 68.7     | 69.0     | 69.8     | 69.8     | 69.8     | 69.9     | 69.9     | 69.9     | 69.9    | 69.9    | 69.9    | 69.9    |
| GE 3500               |           | 61.9     | 67.9     | 72.3     | 74.4     | 74.6     | 75.5     | 75.5     | 75.5     | 75.6     | 75.6     | 75.6     | 75.6    | 75.6    | 75.6    | 75.6    |
| GE 3000               |           | 71.4     | 78.7     | 83.7     | 86.2     | 86.6     | 88.0     | 88.0     | 88.0     | 88.2     | 88.3     | 88.3     | 88.3    | 88.3    | 88.3    | 88.3    |
| GE 2500               |           | 72.1     | 79.6     | 84.7     | 87.2     | 87.6     | 89.0     | 89.1     | 89.1     | 89.3     | 89.4     | 89.4     | 89.4    | 89.4    | 89.4    | 89.4    |
| GE 2000               |           | 75.2     | 82.6     | 88.3     | 90.9     | 91.5     | 92.8     | 92.9     | 92.9     | 93.1     | 93.2     | 93.2     | 93.2    | 93.2    | 93.2    | 93.2    |
| GE 1800               |           | 75.2     | 82.6     | 88.3     | 91.0     | 91.6     | 92.9     | 93.0     | 93.0     | 93.2     | 93.3     | 93.3     | 93.3    | 93.3    | 93.3    | 93.3    |
| GE 1500               |           | 77.0     | 84.6     | 90.7     | 93.7     | 94.3     | 95.8     | 96.0     | 96.0     | 96.2     | 96.3     | 96.3     | 96.3    | 96.3    | 96.3    | 96.3    |
| GE 1200               |           | 77.6     | 85.1     | 91.6     | 94.6     | 95.3     | 96.8     | 96.9     | 96.9     | 97.2     | 97.4     | 97.4     | 97.4    | 97.4    | 97.4    | 97.4    |
| GE 1000               |           | 78.0     | 85.7     | 92.7     | 95.8     | 96.5     | 98.0     | 98.1     | 98.1     | 98.4     | 98.6     | 98.6     | 98.6    | 98.6    | 98.6    | 98.6    |
| GE 900                |           | 78.0     | 85.7     | 92.8     | 96.0     | 96.6     | 98.1     | 98.3     | 98.3     | 98.5     | 98.7     | 98.7     | 98.7    | 98.7    | 98.7    | 98.7    |
| GE 800                |           | 78.0     | 85.7     | 93.0     | 96.2     | 96.8     | 98.5     | 98.6     | 98.6     | 98.8     | 99.0     | 99.0     | 99.0    | 99.0    | 99.0    | 99.0    |
| GE 700                |           | 78.0     | 85.7     | 93.1     | 96.3     | 96.9     | 98.6     | 98.7     | 98.7     | 98.9     | 99.1     | 99.1     | 99.1    | 99.1    | 99.1    | 99.1    |
| GE 600                |           | 78.0     | 85.7     | 93.3     | 96.6     | 97.3     | 98.9     | 99.1     | 99.1     | 99.3     | 99.6     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    |
| GE 500                |           | 78.0     | 85.7     | 93.3     | 96.6     | 97.4     | 99.0     | 99.2     | 99.2     | 99.5     | 99.7     | 99.7     | 99.8    | 99.8    | 99.8    | 99.8    |
| GE 400                |           | 78.0     | 85.7     | 93.3     | 96.6     | 97.4     | 99.0     | 99.2     | 99.2     | 99.5     | 99.7     | 99.7     | 99.8    | 99.8    | 99.8    | 99.8    |
| GE 300                |           | 78.0     | 85.7     | 93.3     | 96.6     | 97.4     | 99.0     | 99.2     | 99.2     | 99.6     | 99.9     | 99.9     | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 200                |           | 78.0     | 85.7     | 93.3     | 96.6     | 97.4     | 99.0     | 99.2     | 99.2     | 99.6     | 99.9     | 99.9     | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 100                |           | 78.0     | 85.7     | 93.3     | 96.6     | 97.4     | 99.0     | 99.2     | 99.2     | 99.6     | 99.9     | 99.9     | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 0                  |           | 78.0     | 85.7     | 93.3     | 96.6     | 97.4     | 99.0     | 99.2     | 99.2     | 99.6     | 99.9     | 99.9     | 100.0   | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 915

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(LST): 1800-2400

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|----------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN       | FEET | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL  |      | 26.3                             | 30.8     | 34.5     | 35.3     | 35.6     | 36.4     | 36.4     | 36.4     | 36.4     | 36.4     | 36.4     | 36.4     | 36.4    | 36.4    | 36.4    | 36.4    |
| GE 20000 |      | 34.3                             | 39.8     | 44.4     | 45.6     | 46.0     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9    | 46.9    | 46.9    | 46.9    |
| GE 18000 |      | 34.7                             | 40.2     | 44.8     | 46.0     | 46.4     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3    | 47.3    | 47.3    | 47.3    |
| GE 16000 |      | 34.7                             | 40.2     | 44.8     | 46.0     | 46.4     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3    | 47.3    | 47.3    | 47.3    |
| GE 14000 |      | 34.7                             | 40.2     | 44.8     | 46.0     | 46.4     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3     | 47.3    | 47.3    | 47.3    | 47.3    |
| GE 12000 |      | 35.7                             | 41.3     | 45.9     | 47.1     | 47.5     | 48.4     | 48.4     | 48.4     | 48.4     | 48.4     | 48.4     | 48.4     | 48.4    | 48.4    | 48.4    | 48.4    |
| GE 10000 |      | 39.3                             | 45.3     | 50.6     | 51.8     | 52.4     | 53.3     | 53.3     | 53.3     | 53.3     | 53.3     | 53.3     | 53.3     | 53.3    | 53.3    | 53.3    | 53.3    |
| GE 9000  |      | 40.3                             | 46.4     | 51.7     | 52.9     | 53.5     | 54.4     | 54.4     | 54.5     | 54.5     | 54.5     | 54.5     | 54.5     | 54.5    | 54.5    | 54.5    | 54.5    |
| GE 8000  |      | 46.0                             | 52.9     | 59.8     | 61.0     | 61.6     | 62.7     | 62.8     | 63.0     | 63.0     | 63.0     | 63.0     | 63.0     | 63.0    | 63.0    | 63.0    | 63.0    |
| GE 7000  |      | 47.4                             | 54.3     | 61.3     | 62.5     | 63.1     | 64.2     | 64.3     | 64.5     | 64.5     | 64.5     | 64.5     | 64.5     | 64.5    | 64.5    | 64.5    | 64.5    |
| GE 6000  |      | 47.4                             | 54.3     | 61.3     | 62.5     | 63.1     | 64.2     | 64.3     | 64.5     | 64.5     | 64.5     | 64.5     | 64.5     | 64.5    | 64.5    | 64.5    | 64.5    |
| GE 5000  |      | 50.8                             | 57.9     | 65.4     | 67.0     | 67.6     | 68.7     | 68.9     | 69.1     | 69.1     | 69.1     | 69.1     | 69.1     | 69.1    | 69.1    | 69.1    | 69.1    |
| GE 4500  |      | 52.4                             | 59.7     | 67.1     | 68.8     | 69.3     | 70.4     | 70.6     | 70.9     | 70.9     | 70.9     | 70.9     | 70.9     | 70.9    | 70.9    | 70.9    | 70.9    |
| GE 4000  |      | 60.0                             | 68.1     | 76.3     | 78.1     | 78.6     | 79.8     | 80.4     | 80.6     | 80.8     | 80.9     | 80.9     | 80.9     | 80.9    | 80.9    | 80.9    | 80.9    |
| GE 3500  |      | 62.4                             | 71.0     | 79.6     | 81.4     | 82.1     | 83.5     | 84.0     | 84.3     | 84.6     | 84.7     | 84.7     | 84.7     | 84.7    | 84.7    | 84.7    | 84.7    |
| GE 3000  |      | 66.9                             | 75.6     | 85.7     | 87.7     | 88.6     | 90.0     | 90.6     | 90.9     | 91.2     | 91.3     | 91.3     | 91.3     | 91.3    | 91.3    | 91.3    | 91.3    |
| GE 2500  |      | 67.7                             | 76.3     | 86.4     | 88.5     | 89.4     | 90.9     | 91.5     | 91.8     | 92.1     | 92.2     | 92.2     | 92.2     | 92.2    | 92.2    | 92.2    | 92.2    |
| GE 2000  |      | 68.8                             | 77.4     | 87.5     | 89.7     | 90.6     | 92.1     | 92.7     | 93.0     | 93.3     | 93.4     | 93.4     | 93.4     | 93.4    | 93.4    | 93.4    | 93.4    |
| GE 1800  |      | 68.9                             | 77.5     | 87.6     | 89.8     | 90.7     | 92.2     | 92.8     | 93.1     | 93.4     | 93.5     | 93.5     | 93.5     | 93.5    | 93.5    | 93.5    | 93.5    |
| GE 1500  |      | 69.8                             | 78.5     | 88.8     | 91.1     | 92.0     | 93.5     | 94.4     | 94.7     | 95.1     | 95.2     | 95.2     | 95.2     | 95.2    | 95.2    | 95.2    | 95.2    |
| GE 1200  |      | 70.2                             | 79.0     | 89.4     | 92.0     | 92.9     | 94.4     | 95.3     | 95.6     | 95.9     | 96.1     | 96.1     | 96.1     | 96.1    | 96.1    | 96.1    | 96.1    |
| GE 1000  |      | 70.4                             | 79.2     | 89.7     | 92.7     | 93.6     | 95.2     | 96.1     | 96.4     | 96.7     | 96.8     | 96.8     | 96.8     | 96.8    | 96.8    | 96.8    | 96.8    |
| GE 900   |      | 70.4                             | 79.2     | 89.7     | 92.7     | 93.6     | 95.2     | 96.1     | 96.4     | 96.7     | 96.8     | 96.8     | 96.8     | 96.8    | 96.8    | 96.8    | 96.8    |
| GE 800   |      | 70.5                             | 79.3     | 90.0     | 93.0     | 94.0     | 95.5     | 96.4     | 96.7     | 97.0     | 97.2     | 97.2     | 97.2     | 97.2    | 97.2    | 97.2    | 97.2    |
| GE 700   |      | 70.5                             | 79.3     | 90.4     | 93.3     | 94.3     | 96.2     | 97.0     | 97.4     | 97.7     | 97.8     | 97.8     | 97.8     | 97.8    | 97.8    | 97.8    | 97.8    |
| GE 600   |      | 70.8                             | 79.6     | 90.9     | 94.1     | 95.1     | 96.9     | 97.8     | 98.1     | 98.5     | 98.6     | 98.6     | 98.6     | 98.6    | 98.6    | 98.6    | 98.6    |
| GE 500   |      | 70.9                             | 79.8     | 91.5     | 94.6     | 95.6     | 97.7     | 98.6     | 98.9     | 99.2     | 99.3     | 99.5     | 99.8     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 400   |      | 70.9                             | 79.8     | 91.5     | 94.6     | 95.6     | 97.7     | 98.6     | 98.9     | 99.2     | 99.3     | 99.5     | 99.8     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 300   |      | 70.9                             | 79.8     | 91.5     | 94.6     | 95.6     | 97.7     | 98.6     | 98.9     | 99.2     | 99.3     | 99.5     | 99.8     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 200   |      | 70.9                             | 79.8     | 91.5     | 94.6     | 95.6     | 97.7     | 98.6     | 98.9     | 99.2     | 99.3     | 99.5     | 99.8     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 100   |      | 70.9                             | 79.8     | 91.5     | 94.6     | 95.6     | 97.7     | 98.6     | 98.9     | 99.2     | 99.3     | 99.5     | 99.8     | 99.9    | 99.9    | 99.9    | 100.0   |
| GE       | C    | 70.9                             | 79.8     | 91.5     | 94.6     | 95.6     | 97.7     | 98.6     | 98.9     | 99.2     | 99.3     | 99.5     | 99.8     | 99.9    | 99.9    | 99.9    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 912

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: JUL HOURS(LST): 2100-2300

| CEILING<br>IN<br>FEET | GT<br>160 | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
|-----------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| NO CEIL               |           | 28.6     | 32.2     | 38.3     | 40.3     | 40.6     | 41.7     | 42.6     | 42.7     | 42.9     | 42.9     | 42.9     | 42.9    | 42.9    | 42.9    | 42.9    |
| GE 20000              |           | 31.5     | 35.6     | 42.8     | 45.2     | 45.7     | 47.3     | 48.4     | 48.5     | 48.7     | 48.7     | 48.7     | 48.7    | 48.8    | 48.8    | 48.8    |
| GE 18000              |           | 32.0     | 36.0     | 43.3     | 45.7     | 46.1     | 47.8     | 48.8     | 49.0     | 49.2     | 49.2     | 49.2     | 49.2    | 49.3    | 49.3    | 49.3    |
| GE 16000              |           | 32.0     | 36.0     | 43.3     | 45.7     | 46.1     | 47.8     | 48.8     | 49.0     | 49.2     | 49.2     | 49.2     | 49.2    | 49.3    | 49.3    | 49.3    |
| GE 14000              |           | 32.0     | 36.0     | 43.3     | 45.7     | 46.1     | 47.8     | 48.8     | 49.0     | 49.2     | 49.2     | 49.2     | 49.2    | 49.3    | 49.3    | 49.3    |
| GE 12000              |           | 32.2     | 36.3     | 43.5     | 45.9     | 46.3     | 48.0     | 49.1     | 49.2     | 49.4     | 49.4     | 49.4     | 49.4    | 49.5    | 49.5    | 49.5    |
| GE 10000              |           | 34.6     | 39.2     | 46.7     | 49.1     | 49.5     | 51.3     | 52.5     | 52.6     | 52.8     | 52.8     | 52.8     | 52.8    | 52.9    | 52.9    | 52.9    |
| GE 9500               |           | 35.7     | 40.3     | 47.8     | 50.2     | 50.6     | 52.4     | 53.7     | 53.8     | 54.0     | 54.0     | 54.0     | 54.0    | 54.1    | 54.1    | 54.1    |
| GE 8000               |           | 40.9     | 45.9     | 54.8     | 57.4     | 57.9     | 59.8     | 61.1     | 61.2     | 61.7     | 61.7     | 61.7     | 61.7    | 61.8    | 61.8    | 61.8    |
| GE 7000               |           | 42.2     | 47.5     | 56.5     | 59.1     | 59.7     | 61.6     | 62.9     | 63.0     | 63.4     | 63.4     | 63.4     | 63.4    | 63.5    | 63.5    | 63.5    |
| GE 6000               |           | 42.2     | 47.5     | 56.5     | 59.1     | 59.7     | 61.6     | 62.9     | 63.0     | 63.4     | 63.4     | 63.4     | 63.4    | 63.5    | 63.5    | 63.5    |
| GE 5000               |           | 45.7     | 51.2     | 60.6     | 63.5     | 64.1     | 65.9     | 67.3     | 67.4     | 67.9     | 67.9     | 67.9     | 67.9    | 68.0    | 68.0    | 68.0    |
| GE 4500               |           | 47.0     | 52.8     | 62.3     | 65.3     | 65.8     | 67.7     | 69.0     | 69.1     | 69.7     | 69.7     | 69.7     | 69.7    | 69.8    | 69.8    | 69.8    |
| GE 4000               |           | 55.1     | 61.6     | 71.4     | 74.6     | 75.1     | 77.0     | 78.3     | 78.5     | 79.2     | 79.3     | 79.3     | 79.3    | 79.4    | 79.4    | 79.4    |
| GE 3500               |           | 57.2     | 63.9     | 74.4     | 77.3     | 78.0     | 80.0     | 81.3     | 81.5     | 82.1     | 82.3     | 82.3     | 82.3    | 82.4    | 82.4    | 82.4    |
| GE 3000               |           | 61.0     | 69.1     | 80.2     | 83.9     | 84.6     | 86.6     | 88.0     | 88.2     | 88.8     | 89.2     | 89.2     | 89.2    | 89.3    | 89.3    | 89.3    |
| GE 2500               |           | 62.1     | 70.2     | 81.5     | 85.3     | 86.0     | 88.3     | 89.6     | 89.8     | 90.5     | 90.8     | 90.8     | 90.8    | 90.9    | 90.9    | 90.9    |
| GE 2000               |           | 63.0     | 71.2     | 82.8     | 86.6     | 87.3     | 89.8     | 91.1     | 91.3     | 92.0     | 92.3     | 92.3     | 92.3    | 92.4    | 92.4    | 92.4    |
| GE 1800               |           | 63.2     | 71.4     | 83.0     | 86.9     | 87.5     | 90.0     | 91.3     | 91.6     | 92.2     | 92.6     | 92.6     | 92.6    | 92.7    | 92.7    | 92.7    |
| GE 1500               |           | 63.6     | 72.3     | 84.0     | 87.8     | 88.5     | 91.0     | 92.4     | 92.7     | 93.3     | 93.6     | 93.6     | 93.6    | 93.8    | 93.8    | 93.8    |
| GE 1200               |           | 64.3     | 72.9     | 85.0     | 88.8     | 89.5     | 92.0     | 94.0     | 94.3     | 95.0     | 95.3     | 95.3     | 95.3    | 95.4    | 95.4    | 95.4    |
| GE 1000               |           | 64.4     | 73.1     | 85.2     | 89.2     | 90.3     | 92.8     | 94.7     | 95.1     | 95.7     | 96.1     | 96.1     | 96.1    | 96.2    | 96.2    | 96.2    |
| GE 900                |           | 64.4     | 73.1     | 85.2     | 89.2     | 90.3     | 92.8     | 94.7     | 95.1     | 95.7     | 96.1     | 96.1     | 96.1    | 96.2    | 96.2    | 96.2    |
| GE 800                |           | 64.4     | 73.1     | 85.2     | 89.2     | 90.3     | 92.8     | 94.7     | 95.1     | 95.7     | 96.1     | 96.1     | 96.1    | 96.2    | 96.2    | 96.2    |
| GE 700                |           | 64.4     | 73.2     | 85.7     | 89.6     | 90.7     | 93.4     | 95.4     | 95.7     | 96.4     | 96.7     | 96.7     | 96.7    | 96.8    | 96.8    | 96.8    |
| GE 600                |           | 64.5     | 73.4     | 86.2     | 90.8     | 92.1     | 94.9     | 96.9     | 97.3     | 97.9     | 98.2     | 98.2     | 98.2    | 98.4    | 98.4    | 98.4    |
| GE 500                |           | 64.7     | 73.6     | 86.6     | 91.2     | 92.6     | 95.4     | 97.5     | 97.9     | 98.6     | 98.9     | 98.9     | 98.9    | 99.0    | 99.0    | 99.0    |
| GE 400                |           | 64.7     | 73.6     | 86.6     | 91.2     | 92.6     | 95.5     | 97.9     | 98.4     | 99.0     | 99.3     | 99.3     | 99.3    | 99.5    | 99.5    | 99.5    |
| GE 300                |           | 64.7     | 73.6     | 86.6     | 91.2     | 92.6     | 95.5     | 98.0     | 98.5     | 99.1     | 99.5     | 99.5     | 99.5    | 99.6    | 99.6    | 99.6    |
| GE 200                |           | 64.7     | 73.6     | 86.6     | 91.2     | 92.6     | 95.5     | 98.0     | 98.5     | 99.1     | 99.5     | 99.5     | 99.5    | 99.6    | 99.7    | 99.7    |
| GE 100                |           | 64.7     | 73.6     | 86.6     | 91.2     | 92.6     | 95.5     | 98.0     | 98.5     | 99.1     | 99.5     | 99.5     | 99.5    | 99.6    | 99.7    | 100.0   |
| GE 0                  |           | 64.7     | 73.6     | 86.6     | 91.2     | 92.6     | 95.5     | 98.0     | 98.5     | 99.1     | 99.5     | 99.5     | 99.5    | 99.6    | 99.7    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 913

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS (LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 22.9     | 26.6     | 30.9     | 32.8     | 33.2     | 34.3     | 34.9     | 35.1     | 35.3     | 35.4     | 35.4     | 35.4    | 35.5    | 35.5    | 35.6    |
| GE 20000              |                                  | 26.9     | 31.2     | 36.4     | 38.8     | 39.4     | 40.8     | 41.5     | 41.7     | 42.0     | 42.0     | 42.1     | 42.1    | 42.2    | 42.2    | 42.3    |
| GE 18000              |                                  | 27.1     | 31.5     | 36.6     | 39.1     | 39.6     | 41.0     | 41.7     | 41.9     | 42.2     | 42.3     | 42.3     | 42.4    | 42.5    | 42.5    | 42.6    |
| GE 16000              |                                  | 27.1     | 31.5     | 36.6     | 39.1     | 39.6     | 41.0     | 41.7     | 41.9     | 42.2     | 42.3     | 42.3     | 42.4    | 42.5    | 42.5    | 42.6    |
| GE 14000              |                                  | 27.1     | 31.5     | 36.6     | 39.1     | 39.6     | 41.1     | 41.7     | 42.0     | 42.3     | 42.3     | 42.4     | 42.4    | 42.5    | 42.5    | 42.6    |
| GE 12000              |                                  | 27.4     | 31.9     | 37.1     | 39.6     | 40.1     | 41.6     | 42.3     | 42.5     | 42.8     | 42.8     | 42.9     | 42.9    | 43.0    | 43.0    | 43.1    |
| GE 10000              |                                  | 29.6     | 34.4     | 39.9     | 42.5     | 43.0     | 44.5     | 45.2     | 45.5     | 45.8     | 45.8     | 45.9     | 45.9    | 46.0    | 46.0    | 46.1    |
| GE 9000               |                                  | 30.4     | 35.3     | 40.8     | 43.4     | 43.9     | 45.5     | 46.2     | 46.4     | 46.8     | 46.8     | 46.9     | 46.9    | 47.0    | 47.1    | 47.2    |
| GE 8000               |                                  | 35.0     | 40.3     | 46.7     | 49.5     | 50.1     | 51.8     | 52.6     | 52.9     | 53.2     | 53.3     | 53.3     | 53.4    | 53.5    | 53.5    | 53.6    |
| GE 7000               |                                  | 36.0     | 41.4     | 47.9     | 50.8     | 51.3     | 53.0     | 53.9     | 54.1     | 54.5     | 54.5     | 54.6     | 54.6    | 54.8    | 54.8    | 54.9    |
| GE 6000               |                                  | 36.0     | 41.5     | 47.9     | 50.8     | 51.4     | 53.1     | 53.9     | 54.1     | 54.5     | 54.5     | 54.6     | 54.6    | 54.8    | 54.8    | 54.9    |
| GE 5000               |                                  | 39.0     | 44.7     | 51.6     | 54.7     | 55.3     | 57.1     | 57.9     | 58.2     | 58.5     | 58.6     | 58.7     | 58.7    | 58.8    | 58.9    | 59.0    |
| GE 4500               |                                  | 40.6     | 46.4     | 53.3     | 56.5     | 57.1     | 58.9     | 59.8     | 60.0     | 60.4     | 60.5     | 60.5     | 60.6    | 60.7    | 60.7    | 60.9    |
| GE 4000               |                                  | 49.4     | 55.8     | 63.2     | 66.6     | 67.3     | 69.2     | 70.1     | 70.4     | 70.9     | 71.0     | 71.0     | 71.1    | 71.2    | 71.2    | 71.4    |
| GE 3500               |                                  | 52.4     | 59.1     | 67.0     | 70.5     | 71.2     | 73.3     | 74.2     | 74.5     | 75.0     | 75.1     | 75.1     | 75.2    | 75.3    | 75.3    | 75.5    |
| GE 3000               |                                  | 59.1     | 66.6     | 75.2     | 79.1     | 80.0     | 82.2     | 83.2     | 83.5     | 84.0     | 84.2     | 84.2     | 84.3    | 84.4    | 84.4    | 84.6    |
| GE 2500               |                                  | 60.0     | 67.6     | 76.3     | 80.3     | 81.1     | 83.4     | 84.4     | 84.8     | 85.3     | 85.4     | 85.5     | 85.6    | 85.7    | 85.7    | 85.8    |
| GE 2000               |                                  | 62.1     | 69.9     | 79.1     | 83.2     | 84.0     | 86.3     | 87.4     | 87.7     | 88.3     | 88.4     | 88.5     | 88.5    | 88.7    | 88.7    | 88.8    |
| GE 1800               |                                  | 62.2     | 70.1     | 79.3     | 83.4     | 84.3     | 86.6     | 87.7     | 88.0     | 88.6     | 88.7     | 88.8     | 88.8    | 89.0    | 89.0    | 89.1    |
| GE 1500               |                                  | 63.6     | 71.7     | 81.2     | 85.6     | 86.4     | 88.8     | 90.0     | 90.3     | 90.9     | 91.0     | 91.1     | 91.1    | 91.3    | 91.3    | 91.4    |
| GE 1200               |                                  | 64.4     | 72.7     | 82.5     | 87.2     | 88.1     | 90.6     | 91.8     | 92.2     | 92.7     | 92.9     | 92.9     | 93.0    | 93.1    | 93.1    | 93.3    |
| GE 1000               |                                  | 64.7     | 73.2     | 83.5     | 88.4     | 89.4     | 92.0     | 93.2     | 93.7     | 94.3     | 94.4     | 94.5     | 94.5    | 94.6    | 94.7    | 94.8    |
| GE 900                |                                  | 64.7     | 73.2     | 83.6     | 88.6     | 89.6     | 92.3     | 93.6     | 94.0     | 94.7     | 94.8     | 94.9     | 94.9    | 95.0    | 95.1    | 95.2    |
| GE 800                |                                  | 64.9     | 73.3     | 84.0     | 89.1     | 90.1     | 92.9     | 94.3     | 94.7     | 95.3     | 95.3     | 95.5     | 95.5    | 95.6    | 95.7    | 95.9    |
| GE 700                |                                  | 64.9     | 73.4     | 84.4     | 89.8     | 90.9     | 93.8     | 95.2     | 95.6     | 96.3     | 96.4     | 96.5     | 96.5    | 96.6    | 96.7    | 96.8    |
| GE 600                |                                  | 64.9     | 73.5     | 84.7     | 90.5     | 91.6     | 94.6     | 96.0     | 96.4     | 97.1     | 97.2     | 97.3     | 97.4    | 97.5    | 97.5    | 97.6    |
| GE 500                |                                  | 65.0     | 73.6     | 84.9     | 90.7     | 92.0     | 95.1     | 96.6     | 97.1     | 97.8     | 97.9     | 98.0     | 98.1    | 98.3    | 98.3    | 98.4    |
| GE 400                |                                  | 65.0     | 73.6     | 84.9     | 90.8     | 92.0     | 95.2     | 97.0     | 97.5     | 98.3     | 98.5     | 98.5     | 98.5    | 98.7    | 98.8    | 98.9    |
| GE 300                |                                  | 65.0     | 73.6     | 84.9     | 90.8     | 92.1     | 95.2     | 97.1     | 97.6     | 98.4     | 98.7     | 98.8     | 98.9    | 99.1    | 99.2    | 99.3    |
| GE 200                |                                  | 65.0     | 73.6     | 84.9     | 90.8     | 92.1     | 95.2     | 97.1     | 97.6     | 98.4     | 98.7     | 98.8     | 98.9    | 99.3    | 99.3    | 99.6    |
| GE 100                |                                  | 65.0     | 73.6     | 84.9     | 90.8     | 92.1     | 95.2     | 97.1     | 97.6     | 98.4     | 98.7     | 98.8     | 98.9    | 99.3    | 99.4    | 100.0   |
| GE 0                  |                                  | 65.0     | 73.6     | 84.9     | 90.8     | 92.1     | 95.2     | 97.1     | 97.6     | 98.5     | 98.7     | 98.8     | 98.9    | 99.4    | 99.4    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 7709

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: C35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: AUG HOURS(IST): 0000-0000

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>C |
| NO CEIL I             |                                  | 33.3     | 35.0     | 40.3     | 43.1     | 44.1     | 46.8     | 48.7     | 48.8     | 49.4     | 49.4     | 49.6     | 49.9    | 50.3    | 50.3    | 50.5    |
| GE 20000              |                                  | 34.9     | 36.7     | 43.1     | 46.9     | 48.0     | 50.8     | 53.1     | 53.2     | 53.8     | 53.8     | 54.0     | 54.4    | 54.8    | 54.9    | 55.1    |
| GE 18000              |                                  | 34.9     | 36.7     | 43.1     | 46.9     | 48.0     | 50.8     | 53.1     | 53.2     | 53.8     | 53.8     | 54.0     | 54.4    | 54.8    | 54.9    | 55.1    |
| GE 16000              |                                  | 34.9     | 36.7     | 43.1     | 46.9     | 48.0     | 50.8     | 53.1     | 53.2     | 53.8     | 53.8     | 54.0     | 54.4    | 54.8    | 54.9    | 55.1    |
| GE 14000              |                                  | 34.9     | 36.7     | 43.1     | 46.9     | 48.0     | 50.8     | 53.1     | 53.2     | 53.8     | 53.8     | 54.0     | 54.4    | 54.8    | 54.9    | 55.1    |
| GE 12000              |                                  | 34.9     | 36.8     | 43.3     | 47.1     | 48.2     | 51.0     | 53.3     | 53.4     | 54.0     | 54.0     | 54.3     | 54.6    | 55.0    | 55.1    | 55.3    |
| GE 10000              |                                  | 36.5     | 38.5     | 45.6     | 49.6     | 50.7     | 53.8     | 56.2     | 56.3     | 57.1     | 57.1     | 57.5     | 57.8    | 58.2    | 58.3    | 58.6    |
| GE 9000               |                                  | 36.5     | 38.5     | 46.0     | 49.9     | 51.0     | 54.1     | 56.6     | 56.7     | 57.5     | 57.5     | 57.9     | 58.2    | 58.7    | 58.8    | 59.0    |
| GE 8000               |                                  | 40.4     | 42.9     | 51.5     | 55.4     | 56.6     | 60.0     | 62.4     | 62.5     | 63.3     | 63.3     | 63.7     | 64.0    | 64.5    | 64.6    | 64.8    |
| GE 7000               |                                  | 40.4     | 43.1     | 51.6     | 55.5     | 56.7     | 60.1     | 62.6     | 62.8     | 63.5     | 63.5     | 63.9     | 64.3    | 64.7    | 64.8    | 65.0    |
| GE 6000               |                                  | 40.6     | 43.3     | 51.8     | 55.8     | 56.9     | 60.3     | 62.9     | 63.0     | 63.7     | 63.7     | 64.2     | 64.5    | 64.9    | 65.0    | 65.2    |
| GE 5000               |                                  | 42.5     | 45.3     | 53.9     | 58.1     | 59.3     | 62.6     | 65.2     | 65.3     | 66.1     | 66.1     | 66.5     | 66.8    | 67.3    | 67.4    | 67.6    |
| GE 4500               |                                  | 43.2     | 46.0     | 54.6     | 59.1     | 60.3     | 63.6     | 66.2     | 66.3     | 67.1     | 67.1     | 67.5     | 67.8    | 68.2    | 68.4    | 68.6    |
| GE 4000               |                                  | 50.4     | 53.5     | 62.4     | 67.3     | 68.8     | 72.4     | 75.1     | 75.2     | 76.0     | 76.0     | 76.4     | 76.7    | 77.2    | 77.3    | 77.5    |
| GE 3500               |                                  | 53.0     | 56.3     | 65.4     | 70.6     | 72.1     | 76.0     | 78.8     | 78.9     | 79.7     | 79.7     | 80.1     | 80.4    | 80.8    | 80.9    | 81.2    |
| GE 3000               |                                  | 56.9     | 60.6     | 70.5     | 75.8     | 77.5     | 81.9     | 84.8     | 84.9     | 85.7     | 85.7     | 86.1     | 86.4    | 86.9    | 87.0    | 87.2    |
| GE 2500               |                                  | 57.1     | 60.7     | 70.6     | 75.9     | 77.6     | 82.0     | 84.9     | 85.0     | 85.8     | 85.8     | 86.2     | 86.5    | 87.0    | 87.1    | 87.3    |
| GE 2000               |                                  | 58.6     | 62.4     | 72.9     | 78.5     | 80.2     | 84.7     | 87.6     | 87.7     | 88.5     | 88.5     | 88.9     | 89.2    | 89.7    | 89.8    | 90.0    |
| GE 1800               |                                  | 58.6     | 62.6     | 73.1     | 78.7     | 80.4     | 84.9     | 87.8     | 87.9     | 88.7     | 88.7     | 89.1     | 89.5    | 89.9    | 90.0    | 90.2    |
| GE 1500               |                                  | 59.4     | 63.5     | 74.4     | 80.2     | 81.9     | 86.4     | 89.3     | 89.5     | 90.2     | 90.2     | 90.6     | 91.0    | 91.4    | 91.5    | 91.7    |
| GE 1200               |                                  | 59.6     | 63.8     | 75.1     | 81.2     | 82.9     | 87.4     | 90.3     | 90.6     | 91.4     | 91.4     | 91.8     | 92.1    | 92.6    | 92.7    | 92.9    |
| GE 1000               |                                  | 59.7     | 64.2     | 75.5     | 81.7     | 83.4     | 87.9     | 91.0     | 91.3     | 92.0     | 92.0     | 92.5     | 92.8    | 93.2    | 93.3    | 93.5    |
| GE 900                |                                  | 59.7     | 64.4     | 75.7     | 82.0     | 83.7     | 88.6     | 91.6     | 92.0     | 92.8     | 92.8     | 93.2     | 93.5    | 94.0    | 94.1    | 94.3    |
| GE 800                |                                  | 59.7     | 64.4     | 75.8     | 82.1     | 83.9     | 88.9     | 91.9     | 92.4     | 93.1     | 93.1     | 93.5     | 93.9    | 94.3    | 94.4    | 94.6    |
| GE 700                |                                  | 60.0     | 64.6     | 77.0     | 83.4     | 85.1     | 90.3     | 93.4     | 93.9     | 94.6     | 94.6     | 95.0     | 95.4    | 95.8    | 95.9    | 96.1    |
| GE 600                |                                  | 60.0     | 64.6     | 77.1     | 83.6     | 85.4     | 90.7     | 94.0     | 94.5     | 95.3     | 95.3     | 95.7     | 96.1    | 96.4    | 96.6    | 96.8    |
| GE 500                |                                  | 60.0     | 64.6     | 77.5     | 84.2     | 85.9     | 91.6     | 94.8     | 95.4     | 96.1     | 96.1     | 96.6     | 96.9    | 97.3    | 97.4    | 97.7    |
| GE 400                |                                  | 60.0     | 64.6     | 77.5     | 84.7     | 86.4     | 92.1     | 95.5     | 96.0     | 96.8     | 96.8     | 97.3     | 97.6    | 98.1    | 98.2    | 98.5    |
| GE 300                |                                  | 60.0     | 64.6     | 77.5     | 84.7     | 86.4     | 92.2     | 95.6     | 96.1     | 96.9     | 97.0     | 97.5     | 97.8    | 98.3    | 98.4    | 98.7    |
| GE 200                |                                  | 60.0     | 64.6     | 77.5     | 84.7     | 86.4     | 92.2     | 95.6     | 96.1     | 96.9     | 97.0     | 97.5     | 97.8    | 98.5    | 98.7    | 99.4    |
| GE 100                |                                  | 60.0     | 64.6     | 77.5     | 84.7     | 86.4     | 92.2     | 95.6     | 96.1     | 96.9     | 97.0     | 97.6     | 98.0    | 98.7    | 98.9    | 100.0   |
| GE G                  |                                  | 60.0     | 64.6     | 77.5     | 84.7     | 86.4     | 92.2     | 95.6     | 96.1     | 96.9     | 97.0     | 97.6     | 98.0    | 98.7    | 98.9    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 929

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(IST): 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 25.9     | 28.2     | 32.8     | 35.9     | 36.3     | 39.2     | 41.6     | 42.5     | 43.0     | 43.2     | 43.5     | 43.8    | 44.0    | 44.5    | 44.7    |
| GE 20000              |                                  | 27.4     | 29.8     | 35.2     | 38.6     | 39.1     | 42.2     | 44.6     | 45.5     | 46.7     | 46.9     | 47.3     | 47.5    | 47.8    | 48.5    | 48.7    |
| GE 18000              |                                  | 27.4     | 29.8     | 35.2     | 38.6     | 39.1     | 42.2     | 44.6     | 45.5     | 46.7     | 46.9     | 47.3     | 47.5    | 47.8    | 48.5    | 48.7    |
| GE 16000              |                                  | 27.5     | 29.9     | 35.3     | 38.7     | 39.2     | 42.3     | 44.7     | 45.6     | 46.8     | 47.0     | 47.4     | 47.6    | 48.0    | 48.6    | 48.8    |
| GE 14000              |                                  | 27.5     | 29.9     | 35.3     | 38.7     | 39.2     | 42.3     | 44.7     | 45.6     | 46.8     | 47.0     | 47.4     | 47.6    | 48.0    | 48.7    | 48.9    |
| GE 12000              |                                  | 27.5     | 29.9     | 35.3     | 38.7     | 39.2     | 42.3     | 44.7     | 45.6     | 46.8     | 47.0     | 47.4     | 47.6    | 48.0    | 48.7    | 48.9    |
| GE 10000              |                                  | 28.6     | 31.1     | 37.0     | 40.9     | 41.7     | 45.4     | 47.8     | 48.9     | 50.3     | 50.5     | 51.1     | 51.4    | 51.8    | 52.6    | 52.8    |
| GE 9000               |                                  | 28.7     | 31.2     | 37.2     | 41.1     | 41.9     | 45.7     | 48.2     | 49.4     | 50.8     | 51.0     | 51.5     | 51.8    | 52.3    | 53.0    | 53.2    |
| GE 8000               |                                  | 30.9     | 33.7     | 40.1     | 44.2     | 45.2     | 49.1     | 51.7     | 52.9     | 54.3     | 54.5     | 55.1     | 55.4    | 55.8    | 56.6    | 56.8    |
| GE 7000               |                                  | 31.2     | 34.0     | 40.5     | 44.8     | 45.8     | 49.8     | 52.4     | 53.5     | 54.9     | 55.2     | 55.7     | 56.0    | 56.5    | 57.2    | 57.4    |
| GE 6000               |                                  | 31.2     | 34.0     | 40.5     | 44.8     | 45.8     | 49.8     | 52.4     | 53.5     | 54.9     | 55.2     | 55.7     | 56.0    | 56.5    | 57.2    | 57.4    |
| GE 5000               |                                  | 34.5     | 37.4     | 44.2     | 48.8     | 49.9     | 54.1     | 56.8     | 58.1     | 59.5     | 59.7     | 60.2     | 60.5    | 61.0    | 61.7    | 61.9    |
| GE 4500               |                                  | 35.2     | 38.3     | 45.2     | 49.9     | 51.0     | 55.2     | 57.8     | 59.1     | 60.6     | 60.9     | 61.4     | 61.7    | 62.2    | 62.9    | 63.1    |
| GE 4000               |                                  | 42.0     | 45.9     | 53.1     | 58.2     | 59.2     | 63.9     | 66.8     | 68.1     | 69.6     | 69.8     | 70.3     | 70.6    | 71.1    | 71.8    | 72.0    |
| GE 3500               |                                  | 43.3     | 47.6     | 54.8     | 60.2     | 61.3     | 66.2     | 69.2     | 70.5     | 72.2     | 72.4     | 72.9     | 73.2    | 73.7    | 74.4    | 74.6    |
| GE 3000               |                                  | 47.8     | 52.8     | 61.4     | 67.3     | 68.6     | 73.9     | 77.1     | 78.4     | 80.0     | 80.2     | 80.8     | 81.1    | 81.5    | 82.3    | 82.5    |
| GE 2500               |                                  | 48.2     | 53.1     | 61.8     | 67.8     | 69.1     | 74.4     | 77.6     | 78.9     | 80.5     | 80.8     | 81.3     | 81.6    | 82.0    | 82.8    | 83.0    |
| GE 2000               |                                  | 50.3     | 55.4     | 64.7     | 70.9     | 72.3     | 77.6     | 80.9     | 82.2     | 83.6     | 84.0     | 84.5     | 84.8    | 85.3    | 86.1    | 86.3    |
| GE 1800               |                                  | 50.5     | 55.6     | 65.1     | 71.2     | 72.6     | 77.9     | 81.2     | 82.5     | 84.1     | 84.3     | 84.8     | 85.2    | 85.6    | 86.5    | 86.7    |
| GE 1500               |                                  | 51.3     | 56.3     | 66.2     | 72.4     | 73.6     | 79.2     | 82.5     | 83.8     | 85.4     | 85.6     | 86.1     | 86.5    | 86.9    | 87.7    | 88.0    |
| GE 1200               |                                  | 51.6     | 57.0     | 67.3     | 74.0     | 75.4     | 81.0     | 84.3     | 85.6     | 87.3     | 87.5     | 88.1     | 88.4    | 88.8    | 89.7    | 89.9    |
| GE 1000               |                                  | 51.8     | 57.2     | 67.7     | 74.4     | 75.8     | 81.7     | 85.1     | 86.7     | 88.4     | 88.6     | 89.1     | 89.5    | 89.9    | 90.8    | 91.0    |
| GE 900                |                                  | 51.9     | 57.3     | 68.1     | 75.1     | 76.6     | 82.5     | 85.8     | 87.4     | 89.1     | 89.4     | 89.9     | 90.2    | 90.6    | 91.5    | 91.7    |
| GE 800                |                                  | 52.0     | 57.4     | 68.3     | 75.7     | 77.3     | 83.3     | 86.7     | 88.3     | 90.1     | 90.3     | 90.9     | 91.2    | 91.6    | 92.5    | 92.7    |
| GE 700                |                                  | 52.0     | 57.4     | 68.7     | 76.6     | 78.2     | 84.3     | 87.8     | 89.7     | 91.5     | 91.7     | 92.4     | 92.7    | 93.1    | 94.0    | 94.2    |
| GE 600                |                                  | 52.2     | 57.5     | 68.9     | 76.9     | 78.6     | 84.8     | 88.4     | 90.3     | 92.2     | 92.4     | 93.0     | 93.3    | 93.8    | 94.6    | 94.8    |
| GE 500                |                                  | 52.3     | 57.7     | 69.2     | 77.3     | 79.2     | 85.6     | 89.4     | 91.4     | 93.2     | 93.4     | 94.1     | 94.4    | 94.9    | 95.8    | 96.3    |
| GE 400                |                                  | 52.3     | 57.7     | 69.2     | 77.4     | 79.6     | 86.3     | 90.1     | 92.6     | 94.6     | 94.8     | 95.5     | 95.8    | 96.3    | 97.3    | 97.8    |
| GE 300                |                                  | 52.3     | 57.7     | 69.2     | 77.4     | 79.6     | 86.5     | 90.2     | 92.7     | 94.8     | 95.1     | 95.7     | 96.0    | 96.7    | 97.6    | 98.2    |
| GE 200                |                                  | 52.3     | 57.7     | 69.2     | 77.4     | 79.6     | 86.5     | 90.2     | 92.7     | 95.1     | 95.4     | 96.0     | 96.3    | 97.1    | 98.5    | 99.2    |
| GE 100                |                                  | 52.3     | 57.7     | 69.2     | 77.4     | 79.6     | 86.5     | 90.2     | 92.7     | 95.1     | 95.4     | 96.0     | 96.3    | 97.1    | 98.6    | 100.0   |
| GE 0                  |                                  | 52.3     | 57.7     | 69.2     | 77.4     | 79.6     | 86.5     | 90.2     | 92.7     | 95.1     | 95.4     | 96.0     | 96.3    | 97.1    | 98.6    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 937

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: AUG HOURS(IST): 0600-0600

| CEILING<br>IN<br>FEET | GT<br>160 | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
|-----------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| NO CEIL               | 19.4      | 21.6     | 26.7     | 28.7     | 29.1     | 30.2     | 32.2     | 32.9     | 33.5     | 34.0     | 34.0     | 34.2    | 34.3    | 34.6    | 34.9    |
| GE 20000              | 22.7      | 25.5     | 32.0     | 34.7     | 35.4     | 36.8     | 39.0     | 40.0     | 41.1     | 41.7     | 41.7     | 41.9    | 42.0    | 42.5    | 43.1    |
| GE 18000              | 22.7      | 25.5     | 32.0     | 34.7     | 35.4     | 36.8     | 39.0     | 40.0     | 41.1     | 41.7     | 41.7     | 41.9    | 42.0    | 42.5    | 43.1    |
| GE 16000              | 22.7      | 25.5     | 32.0     | 34.7     | 35.4     | 36.8     | 39.0     | 40.0     | 41.1     | 41.7     | 41.7     | 41.9    | 42.0    | 42.5    | 43.1    |
| GE 14000              | 22.7      | 25.5     | 32.0     | 34.7     | 35.4     | 36.8     | 39.0     | 40.0     | 41.1     | 41.7     | 41.7     | 41.9    | 42.0    | 42.5    | 43.1    |
| GE 12000              | 23.3      | 26.1     | 32.7     | 35.4     | 36.0     | 37.4     | 39.7     | 40.6     | 41.7     | 42.4     | 42.4     | 42.6    | 42.7    | 43.1    | 43.8    |
| GE 10000              | 25.1      | 28.1     | 35.2     | 38.2     | 38.8     | 40.5     | 42.8     | 44.0     | 45.4     | 46.0     | 46.0     | 46.3    | 46.6    | 47.0    | 47.6    |
| GE 9000               | 25.2      | 28.2     | 35.5     | 38.5     | 39.1     | 41.0     | 43.3     | 44.6     | 46.0     | 46.7     | 46.7     | 47.0    | 47.2    | 47.6    | 48.3    |
| GE 8000               | 28.1      | 31.3     | 39.1     | 42.6     | 43.2     | 45.4     | 47.7     | 49.0     | 50.6     | 51.3     | 51.3     | 51.6    | 51.8    | 52.3    | 53.0    |
| GE 7000               | 28.8      | 32.0     | 40.2     | 43.7     | 44.3     | 46.5     | 48.8     | 50.1     | 51.7     | 52.4     | 52.4     | 52.7    | 52.9    | 53.3    | 54.1    |
| GE 6000               | 28.9      | 32.2     | 40.3     | 43.8     | 44.4     | 46.6     | 48.9     | 50.2     | 51.8     | 52.5     | 52.5     | 52.8    | 53.0    | 53.4    | 54.2    |
| GE 5000               | 32.7      | 36.7     | 45.2     | 48.9     | 49.8     | 52.0     | 54.5     | 55.8     | 57.4     | 58.1     | 58.1     | 58.4    | 58.6    | 59.0    | 59.8    |
| GE 4500               | 33.9      | 38.0     | 46.7     | 50.4     | 51.3     | 53.5     | 56.1     | 57.4     | 59.0     | 59.7     | 59.7     | 60.0    | 60.2    | 60.6    | 61.4    |
| GE 4000               | 40.1      | 44.9     | 54.8     | 59.1     | 60.1     | 62.5     | 65.3     | 66.8     | 68.4     | 69.0     | 69.0     | 69.4    | 69.6    | 70.0    | 70.8    |
| GE 3500               | 41.8      | 46.7     | 56.8     | 61.6     | 62.9     | 65.3     | 68.3     | 69.8     | 71.5     | 72.2     | 72.2     | 72.5    | 72.7    | 73.1    | 73.9    |
| GE 3000               | 46.5      | 51.5     | 62.3     | 67.3     | 68.8     | 71.3     | 74.3     | 75.9     | 77.7     | 78.5     | 78.5     | 78.8    | 79.0    | 79.5    | 80.2    |
| GE 2500               | 46.7      | 52.0     | 62.8     | 68.1     | 69.6     | 72.0     | 75.1     | 76.7     | 78.5     | 79.2     | 79.2     | 79.6    | 79.8    | 80.2    | 81.0    |
| GE 2000               | 48.6      | 54.1     | 65.1     | 70.4     | 72.2     | 74.7     | 77.7     | 79.4     | 81.2     | 81.9     | 81.9     | 82.3    | 82.5    | 82.9    | 83.7    |
| GE 1800               | 48.9      | 54.4     | 65.4     | 70.8     | 72.5     | 75.1     | 78.1     | 79.7     | 81.5     | 82.3     | 82.3     | 82.6    | 82.8    | 83.2    | 84.0    |
| GE 1500               | 49.5      | 55.2     | 66.7     | 72.5     | 74.5     | 77.3     | 80.4     | 82.2     | 84.0     | 84.7     | 84.7     | 85.1    | 85.3    | 85.7    | 86.5    |
| GE 1200               | 49.8      | 55.6     | 67.6     | 74.2     | 76.2     | 79.4     | 82.5     | 84.2     | 86.1     | 86.9     | 86.9     | 87.2    | 87.4    | 87.8    | 88.6    |
| GE 1000               | 49.9      | 55.8     | 68.3     | 75.3     | 77.5     | 80.8     | 83.9     | 85.6     | 87.5     | 88.3     | 88.3     | 88.6    | 88.8    | 89.2    | 90.0    |
| GE 900                | 49.9      | 55.8     | 68.4     | 75.6     | 78.0     | 81.2     | 84.3     | 86.0     | 88.0     | 88.7     | 88.7     | 89.0    | 89.2    | 89.7    | 90.4    |
| GE 800                | 50.2      | 56.1     | 68.8     | 76.3     | 78.7     | 82.2     | 85.4     | 87.2     | 89.1     | 89.9     | 89.9     | 90.3    | 90.5    | 91.0    | 91.7    |
| GE 700                | 50.3      | 56.3     | 69.6     | 77.4     | 80.0     | 83.8     | 87.0     | 89.0     | 91.1     | 91.8     | 91.8     | 92.3    | 92.5    | 92.9    | 93.7    |
| GE 600                | 50.4      | 56.7     | 70.1     | 78.1     | 80.8     | 85.1     | 88.6     | 91.0     | 93.1     | 93.9     | 93.9     | 94.3    | 94.5    | 94.9    | 95.7    |
| GE 500                | 50.4      | 56.8     | 70.2     | 78.3     | 81.2     | 85.6     | 89.7     | 92.2     | 94.4     | 95.2     | 95.2     | 95.6    | 95.8    | 96.2    | 97.0    |
| GE 400                | 50.4      | 56.8     | 70.2     | 78.3     | 81.3     | 85.7     | 90.0     | 92.7     | 95.1     | 95.8     | 95.8     | 96.3    | 96.7    | 97.2    | 98.0    |
| GE 300                | 50.4      | 56.8     | 70.2     | 78.3     | 81.3     | 85.8     | 90.1     | 92.9     | 95.6     | 96.3     | 96.3     | 96.9    | 97.3    | 97.8    | 98.6    |
| GE 200                | 50.4      | 56.8     | 70.2     | 78.3     | 81.3     | 85.8     | 90.2     | 93.0     | 95.7     | 96.6     | 96.6     | 97.1    | 97.6    | 98.4    | 99.5    |
| GE 100                | 50.4      | 56.8     | 70.2     | 78.3     | 81.3     | 85.8     | 90.2     | 93.0     | 95.7     | 96.6     | 96.6     | 97.1    | 97.6    | 98.6    | 100.0   |
| GE 0                  | 50.4      | 56.8     | 70.2     | 78.3     | 81.3     | 85.8     | 90.2     | 93.0     | 95.7     | 96.6     | 96.6     | 97.1    | 97.6    | 98.6    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 22.2     | 23.1     | 27.3     | 29.0     | 29.6     | 30.1     | 30.3     | 30.3     | 30.3     | 30.3     | 30.3     | 30.3    | 30.3    | 30.3    | 30.3    |
| GE 2000               |                                  | 26.5     | 28.2     | 33.2     | 35.6     | 36.2     | 37.0     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2    | 37.2    | 37.2    | 37.2    |
| GE 1800               |                                  | 26.5     | 28.2     | 33.2     | 35.6     | 36.2     | 37.0     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2    | 37.2    | 37.2    | 37.2    |
| GE 1600               |                                  | 26.5     | 28.2     | 33.2     | 35.6     | 36.2     | 37.0     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2    | 37.2    | 37.2    | 37.2    |
| GE 1400               |                                  | 26.5     | 28.2     | 33.2     | 35.7     | 36.3     | 37.1     | 37.3     | 37.3     | 37.3     | 37.3     | 37.3     | 37.3    | 37.3    | 37.3    | 37.3    |
| GE 1200               |                                  | 26.7     | 28.4     | 33.5     | 36.1     | 36.8     | 37.6     | 37.8     | 37.8     | 37.8     | 37.8     | 37.8     | 37.8    | 37.8    | 37.8    | 37.8    |
| GE 1000               |                                  | 30.1     | 31.9     | 37.7     | 40.4     | 41.1     | 41.9     | 42.2     | 42.2     | 42.2     | 42.2     | 42.2     | 42.2    | 42.2    | 42.2    | 42.2    |
| GE 900                |                                  | 30.8     | 32.7     | 39.0     | 41.7     | 42.4     | 43.3     | 43.5     | 43.5     | 43.5     | 43.5     | 43.5     | 43.5    | 43.5    | 43.5    | 43.5    |
| GE 800                |                                  | 36.5     | 39.2     | 46.1     | 49.1     | 49.8     | 50.8     | 51.0     | 51.0     | 51.0     | 51.0     | 51.0     | 51.0    | 51.0    | 51.0    | 51.0    |
| GE 700                |                                  | 37.3     | 40.1     | 47.0     | 50.0     | 50.6     | 51.6     | 51.8     | 51.8     | 51.8     | 51.8     | 51.8     | 51.8    | 51.8    | 51.8    | 51.8    |
| GE 600                |                                  | 37.3     | 40.1     | 47.0     | 50.0     | 50.6     | 51.6     | 51.8     | 51.8     | 51.8     | 51.8     | 51.8     | 51.8    | 51.8    | 51.8    | 51.8    |
| GE 500                |                                  | 41.0     | 43.9     | 50.8     | 53.8     | 54.4     | 55.4     | 55.6     | 55.6     | 55.6     | 55.6     | 55.6     | 55.6    | 55.6    | 55.6    | 55.6    |
| GE 450                |                                  | 42.0     | 45.1     | 52.0     | 55.3     | 55.9     | 56.9     | 57.1     | 57.1     | 57.1     | 57.1     | 57.1     | 57.1    | 57.1    | 57.1    | 57.1    |
| GE 400                |                                  | 48.3     | 51.9     | 60.0     | 63.7     | 64.3     | 65.3     | 65.5     | 65.5     | 65.5     | 65.5     | 65.5     | 65.5    | 65.5    | 65.5    | 65.5    |
| GE 350                |                                  | 51.4     | 55.2     | 64.1     | 68.1     | 68.7     | 69.7     | 69.9     | 69.9     | 70.1     | 70.1     | 70.1     | 70.1    | 70.1    | 70.1    | 70.1    |
| GE 300                |                                  | 60.8     | 64.9     | 74.1     | 78.4     | 79.0     | 80.0     | 80.2     | 80.3     | 80.5     | 80.5     | 80.5     | 80.5    | 80.5    | 80.5    | 80.5    |
| GE 250                |                                  | 61.9     | 66.3     | 75.6     | 79.9     | 80.5     | 81.5     | 81.7     | 81.8     | 82.0     | 82.0     | 82.0     | 82.0    | 82.0    | 82.0    | 82.0    |
| GE 200                |                                  | 65.6     | 70.1     | 80.1     | 84.6     | 85.3     | 86.3     | 86.6     | 86.7     | 86.9     | 86.9     | 86.9     | 86.9    | 86.9    | 86.9    | 86.9    |
| GE 180                |                                  | 66.0     | 70.6     | 81.0     | 85.5     | 86.1     | 87.2     | 87.4     | 87.5     | 87.7     | 87.7     | 87.7     | 87.7    | 87.7    | 87.7    | 87.7    |
| GE 150                |                                  | 66.5     | 71.8     | 82.8     | 87.6     | 88.4     | 89.6     | 89.8     | 89.9     | 90.1     | 90.1     | 90.1     | 90.1    | 90.1    | 90.1    | 90.1    |
| GE 120                |                                  | 67.6     | 72.7     | 85.2     | 90.8     | 91.9     | 93.5     | 93.9     | 94.0     | 94.2     | 94.2     | 94.2     | 94.2    | 94.2    | 94.2    | 94.2    |
| GE 100                |                                  | 68.4     | 73.8     | 86.5     | 92.0     | 93.2     | 95.2     | 95.5     | 95.6     | 95.8     | 95.8     | 95.8     | 95.8    | 95.8    | 95.8    | 95.8    |
| GE 90                 |                                  | 68.8     | 74.2     | 87.2     | 93.1     | 94.3     | 96.2     | 96.8     | 96.9     | 97.1     | 97.1     | 97.1     | 97.1    | 97.1    | 97.1    | 97.1    |
| GE 80                 |                                  | 68.8     | 74.3     | 87.7     | 94.0     | 95.2     | 97.2     | 97.7     | 98.0     | 98.2     | 98.2     | 98.2     | 98.2    | 98.2    | 98.2    | 98.2    |
| GE 70                 |                                  | 68.8     | 74.3     | 88.0     | 94.3     | 95.6     | 97.7     | 98.6     | 98.8     | 99.1     | 99.1     | 99.1     | 99.1    | 99.1    | 99.1    | 99.1    |
| GE 60                 |                                  | 68.8     | 74.3     | 88.0     | 94.5     | 95.9     | 98.1     | 98.9     | 99.1     | 99.5     | 99.5     | 99.5     | 99.5    | 99.5    | 99.5    | 99.5    |
| GE 50                 |                                  | 68.8     | 74.3     | 88.0     | 94.5     | 96.0     | 98.2     | 99.0     | 99.2     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    |
| GE 40                 |                                  | 68.8     | 74.3     | 88.0     | 94.5     | 96.0     | 98.2     | 99.0     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 30                 |                                  | 68.8     | 74.3     | 88.0     | 94.5     | 96.0     | 98.2     | 99.0     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 20                 |                                  | 68.8     | 74.3     | 88.0     | 94.5     | 96.0     | 98.2     | 99.0     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 10                 |                                  | 68.8     | 74.3     | 88.0     | 94.5     | 96.0     | 98.2     | 99.0     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 0                  |                                  | 68.8     | 74.3     | 88.0     | 94.5     | 96.0     | 98.2     | 99.0     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(LST): 1200-1400

| CEILING    |  | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|------------|--|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN<br>FEET |  | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL    |  |                                  | 19.9     | 22.0     | 25.7     | 27.7     | 26.0     | 28.0     | 28.0     | 28.0     | 28.0     | 28.0     | 28.0     | 28.0    | 28.0    | 28.0    | 28.0    |
| GE 2000    |  |                                  | 26.3     | 28.7     | 34.4     | 36.7     | 36.9     | 37.1     | 37.1     | 37.1     | 37.1     | 37.1     | 37.1     | 37.1    | 37.1    | 37.1    | 37.1    |
| GE 1800    |  |                                  | 26.5     | 28.8     | 34.5     | 36.8     | 37.0     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2    | 37.2    | 37.2    | 37.2    |
| GE 1600    |  |                                  | 26.5     | 28.8     | 34.5     | 36.8     | 37.0     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2    | 37.2    | 37.2    | 37.2    |
| GE 1400    |  |                                  | 26.5     | 28.8     | 34.5     | 36.8     | 37.0     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2     | 37.2    | 37.2    | 37.2    | 37.2    |
| GE 1200    |  |                                  | 26.6     | 28.9     | 34.7     | 37.2     | 37.4     | 37.6     | 37.6     | 37.6     | 37.6     | 37.6     | 37.6     | 37.6    | 37.6    | 37.6    | 37.6    |
| GE 1000    |  |                                  | 28.1     | 30.4     | 36.5     | 38.9     | 39.1     | 39.4     | 39.4     | 39.4     | 39.4     | 39.4     | 39.4     | 39.4    | 39.4    | 39.4    | 39.4    |
| GE 900     |  |                                  | 28.5     | 31.0     | 37.1     | 39.8     | 40.0     | 40.2     | 40.2     | 40.2     | 40.2     | 40.2     | 40.2     | 40.2    | 40.2    | 40.2    | 40.2    |
| GE 800     |  |                                  | 32.3     | 35.4     | 42.0     | 44.7     | 44.9     | 45.2     | 45.2     | 45.2     | 45.2     | 45.2     | 45.2     | 45.2    | 45.2    | 45.2    | 45.2    |
| GE 700     |  |                                  | 32.6     | 35.7     | 42.4     | 45.1     | 45.3     | 45.5     | 45.5     | 45.5     | 45.5     | 45.5     | 45.5     | 45.5    | 45.5    | 45.5    | 45.5    |
| GE 600     |  |                                  | 32.6     | 35.7     | 42.4     | 45.1     | 45.3     | 45.5     | 45.5     | 45.5     | 45.5     | 45.5     | 45.5     | 45.5    | 45.5    | 45.5    | 45.5    |
| GE 500     |  |                                  | 34.8     | 38.1     | 45.1     | 48.1     | 48.3     | 48.5     | 48.5     | 48.5     | 48.5     | 48.5     | 48.5     | 48.5    | 48.5    | 48.5    | 48.5    |
| GE 450     |  |                                  | 36.7     | 40.0     | 47.0     | 50.1     | 50.3     | 50.5     | 50.5     | 50.5     | 50.5     | 50.5     | 50.5     | 50.5    | 50.5    | 50.5    | 50.5    |
| GE 400     |  |                                  | 46.7     | 50.5     | 57.8     | 61.1     | 61.3     | 61.6     | 61.6     | 61.6     | 61.6     | 61.6     | 61.6     | 61.6    | 61.6    | 61.6    | 61.6    |
| GE 350     |  |                                  | 54.5     | 59.4     | 66.9     | 70.1     | 70.3     | 70.6     | 70.8     | 70.8     | 70.8     | 70.8     | 70.8     | 70.8    | 70.8    | 70.8    | 70.8    |
| GE 300     |  |                                  | 68.5     | 73.8     | 81.6     | 85.2     | 85.4     | 85.7     | 86.0     | 86.0     | 86.0     | 86.0     | 86.0     | 86.0    | 86.0    | 86.0    | 86.0    |
| GE 250     |  |                                  | 71.3     | 76.6     | 84.4     | 88.0     | 88.2     | 88.5     | 88.8     | 88.8     | 88.8     | 88.8     | 88.8     | 88.8    | 88.8    | 88.8    | 88.8    |
| GE 200     |  |                                  | 74.8     | 80.2     | 89.1     | 93.0     | 93.2     | 93.5     | 93.9     | 93.9     | 93.9     | 93.9     | 93.9     | 93.9    | 93.9    | 93.9    | 93.9    |
| GE 180     |  |                                  | 75.1     | 80.6     | 89.6     | 93.4     | 93.7     | 94.0     | 94.3     | 94.3     | 94.3     | 94.3     | 94.3     | 94.3    | 94.3    | 94.3    | 94.3    |
| GE 160     |  |                                  | 75.8     | 81.5     | 90.6     | 94.7     | 95.2     | 95.5     | 95.8     | 95.8     | 95.8     | 95.8     | 95.8     | 95.8    | 95.8    | 95.8    | 95.8    |
| GE 120     |  |                                  | 76.7     | 82.4     | 91.9     | 96.5     | 96.9     | 97.5     | 97.8     | 97.8     | 97.8     | 97.8     | 97.8     | 97.8    | 97.8    | 97.8    | 97.8    |
| GE 100     |  |                                  | 76.9     | 82.7     | 92.6     | 97.1     | 97.6     | 98.4     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8    | 98.8    | 98.8    | 98.8    |
| GE 90      |  |                                  | 77.1     | 82.8     | 92.8     | 97.4     | 98.0     | 98.7     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1    | 99.1    | 99.1    | 99.1    |
| GE 80      |  |                                  | 77.1     | 82.9     | 92.9     | 97.5     | 98.1     | 98.8     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2    | 99.2    | 99.2    | 99.2    |
| GE 70      |  |                                  | 77.1     | 82.9     | 92.9     | 97.6     | 98.3     | 99.7     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5    | 99.5    | 99.5    | 99.5    |
| GE 60      |  |                                  | 77.1     | 82.9     | 92.9     | 97.7     | 98.4     | 99.1     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    |
| GE 50      |  |                                  | 77.1     | 82.9     | 93.0     | 97.8     | 98.5     | 99.4     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 40      |  |                                  | 77.1     | 82.9     | 93.0     | 97.8     | 98.5     | 99.4     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 30      |  |                                  | 77.1     | 82.9     | 93.0     | 97.8     | 98.5     | 99.4     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 20      |  |                                  | 77.1     | 82.9     | 93.0     | 97.8     | 98.5     | 99.4     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 10      |  |                                  | 77.1     | 82.9     | 93.0     | 97.8     | 98.5     | 99.4     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 0       |  |                                  | 77.1     | 82.9     | 93.0     | 97.8     | 98.5     | 99.4     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(IST): 1500-1700

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 24.6     | 27.0     | 31.0     | 33.6     | 33.0     | 33.2     | 33.4     | 33.4     | 33.4     | 33.4     | 33.4     | 33.4    | 33.4    | 33.4    | 33.4    |
| GE 20000              |                                  | 29.8     | 33.5     | 38.6     | 41.2     | 41.4     | 41.6     | 41.8     | 41.8     | 41.8     | 41.8     | 41.8     | 41.8    | 41.8    | 41.8    | 41.8    |
| GE 18000              |                                  | 29.9     | 33.7     | 38.7     | 41.3     | 41.5     | 41.7     | 41.9     | 41.9     | 41.9     | 41.9     | 41.9     | 41.9    | 41.9    | 41.9    | 41.9    |
| GE 16000              |                                  | 29.9     | 33.7     | 38.7     | 41.3     | 41.5     | 41.7     | 41.9     | 41.9     | 41.9     | 41.9     | 41.9     | 41.9    | 41.9    | 41.9    | 41.9    |
| GE 14000              |                                  | 29.9     | 33.7     | 38.8     | 41.4     | 41.6     | 41.8     | 42.0     | 42.0     | 42.0     | 42.0     | 42.0     | 42.0    | 42.0    | 42.0    | 42.0    |
| GE 12000              |                                  | 30.1     | 34.1     | 39.6     | 42.4     | 42.6     | 42.8     | 43.0     | 43.0     | 43.0     | 43.0     | 43.0     | 43.0    | 43.0    | 43.0    | 43.0    |
| GE 10000              |                                  | 33.1     | 37.1     | 43.6     | 45.6     | 46.0     | 46.2     | 46.5     | 46.5     | 46.5     | 46.5     | 46.5     | 46.5    | 46.5    | 46.5    | 46.5    |
| GE 9000               |                                  | 33.1     | 37.2     | 43.1     | 45.9     | 46.1     | 46.3     | 46.6     | 46.6     | 46.6     | 46.6     | 46.6     | 46.6    | 46.6    | 46.6    | 46.6    |
| GE 8000               |                                  | 38.9     | 43.5     | 49.6     | 52.4     | 52.7     | 52.9     | 53.2     | 53.2     | 53.2     | 53.2     | 53.2     | 53.2    | 53.2    | 53.2    | 53.2    |
| GE 7000               |                                  | 39.6     | 44.4     | 50.4     | 53.2     | 53.7     | 53.9     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2    | 54.2    | 54.2    | 54.2    |
| GE 6000               |                                  | 39.6     | 44.4     | 50.4     | 53.2     | 53.7     | 53.9     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2    | 54.2    | 54.2    | 54.2    |
| GE 5000               |                                  | 42.4     | 47.3     | 53.8     | 56.7     | 57.1     | 57.3     | 57.6     | 57.6     | 57.6     | 57.6     | 57.6     | 57.6    | 57.6    | 57.6    | 57.6    |
| GE 4500               |                                  | 44.8     | 49.8     | 56.2     | 59.1     | 59.6     | 59.8     | 60.1     | 60.1     | 60.1     | 60.1     | 60.1     | 60.1    | 60.1    | 60.1    | 60.1    |
| GE 4000               |                                  | 56.7     | 62.2     | 69.4     | 72.3     | 72.7     | 73.0     | 73.3     | 73.3     | 73.3     | 73.3     | 73.3     | 73.3    | 73.3    | 73.3    | 73.3    |
| GE 3500               |                                  | 63.4     | 69.1     | 76.5     | 79.4     | 79.8     | 80.2     | 80.5     | 80.5     | 80.5     | 80.5     | 80.5     | 80.5    | 80.5    | 80.5    | 80.5    |
| GE 3000               |                                  | 70.5     | 76.5     | 84.5     | 87.6     | 88.2     | 88.7     | 89.2     | 89.2     | 89.2     | 89.2     | 89.2     | 89.2    | 89.2    | 89.2    | 89.2    |
| GE 2500               |                                  | 71.8     | 77.8     | 86.0     | 89.2     | 89.8     | 90.3     | 91.0     | 91.0     | 91.0     | 91.0     | 91.0     | 91.0    | 91.0    | 91.0    | 91.0    |
| GE 2000               |                                  | 73.3     | 79.8     | 88.4     | 92.2     | 92.6     | 93.5     | 94.2     | 94.2     | 94.2     | 94.2     | 94.2     | 94.2    | 94.2    | 94.2    | 94.2    |
| GE 1800               |                                  | 73.5     | 80.0     | 88.6     | 92.5     | 93.1     | 93.9     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5    | 94.5    | 94.5    | 94.5    |
| GE 1500               |                                  | 74.9     | 81.7     | 90.4     | 94.4     | 95.1     | 95.8     | 96.5     | 96.5     | 96.5     | 96.5     | 96.5     | 96.5    | 96.5    | 96.5    | 96.5    |
| GE 1200               |                                  | 75.4     | 82.3     | 91.1     | 95.3     | 95.9     | 96.8     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6    | 97.6    | 97.6    | 97.6    |
| GE 1000               |                                  | 75.7     | 82.6     | 91.9     | 96.2     | 96.9     | 98.0     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8    | 98.8    | 98.8    | 98.8    |
| GE 900                |                                  | 75.9     | 82.8     | 92.2     | 96.5     | 97.1     | 98.2     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0    | 99.0    | 99.0    | 99.0    |
| GE 800                |                                  | 76.2     | 83.1     | 92.5     | 96.8     | 97.4     | 98.5     | 99.4     | 99.4     | 99.4     | 99.4     | 99.4     | 99.4    | 99.4    | 99.4    | 99.4    |
| GE 700                |                                  | 76.2     | 83.1     | 92.7     | 97.1     | 97.6     | 98.9     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    |
| GE 600                |                                  | 76.2     | 83.1     | 92.8     | 97.1     | 97.7     | 99.0     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 500                |                                  | 76.2     | 83.1     | 92.8     | 97.1     | 97.7     | 99.0     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 400                |                                  | 76.2     | 83.1     | 92.8     | 97.1     | 97.7     | 99.0     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 300                |                                  | 76.2     | 83.1     | 92.8     | 97.1     | 97.7     | 99.0     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 200                |                                  | 76.2     | 83.1     | 92.8     | 97.1     | 97.7     | 99.0     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 100                |                                  | 76.2     | 83.1     | 92.8     | 97.1     | 97.7     | 99.0     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE                    |                                  | 76.2     | 83.1     | 92.8     | 97.1     | 97.7     | 99.0     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: AUG HOURS(LST): 1800-2400

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8  | GE 5  | GE 4  | GE 0  |
| NO CEIL  | I    |                                  | 28.5  | 31.9  | 36.9  | 39.2  | 39.5  | 40.3  | 40.9  | 40.9  | 41.0  | 41.0  | 41.2  | 41.2  | 41.2  | 41.2  | 41.2  |
| GE 20000 | I    |                                  | 34.4  | 37.8  | 43.2  | 46.5  | 46.9  | 47.8  | 48.5  | 48.5  | 48.6  | 48.6  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  |
| GE 18000 | I    |                                  | 34.4  | 37.8  | 43.2  | 46.5  | 46.9  | 47.8  | 48.5  | 48.5  | 48.6  | 48.6  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  |
| GE 16000 | I    |                                  | 34.4  | 37.8  | 43.2  | 46.5  | 46.9  | 47.8  | 48.5  | 48.5  | 48.6  | 48.6  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  |
| GE 14000 | I    |                                  | 34.4  | 37.8  | 43.2  | 46.5  | 46.9  | 47.8  | 48.5  | 48.5  | 48.6  | 48.6  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  |
| GE 12000 | I    |                                  | 34.4  | 38.0  | 43.9  | 47.3  | 47.7  | 48.7  | 49.4  | 49.4  | 49.5  | 49.5  | 49.7  | 49.7  | 49.7  | 49.7  | 49.7  |
| GE 10000 | I    |                                  | 36.7  | 40.6  | 47.0  | 50.6  | 51.1  | 52.0  | 52.7  | 52.7  | 52.9  | 52.9  | 53.1  | 53.1  | 53.1  | 53.1  | 53.1  |
| GE 9000  | I    |                                  | 37.5  | 41.5  | 48.1  | 51.7  | 52.2  | 53.1  | 53.8  | 53.8  | 54.0  | 54.0  | 54.2  | 54.2  | 54.2  | 54.2  | 54.2  |
| GE 8000  | I    |                                  | 43.7  | 48.4  | 55.3  | 60.0  | 60.6  | 61.6  | 62.4  | 62.4  | 62.6  | 62.6  | 62.8  | 62.8  | 62.8  | 62.8  | 62.8  |
| GE 7000  | I    |                                  | 44.4  | 49.2  | 56.1  | 61.2  | 61.9  | 63.0  | 63.9  | 63.9  | 64.2  | 64.2  | 64.4  | 64.4  | 64.4  | 64.4  | 64.4  |
| GE 6000  | I    |                                  | 44.4  | 49.2  | 56.1  | 61.2  | 61.9  | 63.0  | 63.9  | 63.9  | 64.2  | 64.2  | 64.4  | 64.4  | 64.4  | 64.4  | 64.4  |
| GE 5000  | I    |                                  | 47.3  | 52.2  | 59.4  | 64.4  | 65.2  | 66.2  | 67.1  | 67.1  | 67.4  | 67.4  | 67.6  | 67.6  | 67.6  | 67.6  | 67.6  |
| GE 4500  | I    |                                  | 49.9  | 54.7  | 61.9  | 67.0  | 67.7  | 69.0  | 69.9  | 69.9  | 70.2  | 70.2  | 70.4  | 70.4  | 70.4  | 70.4  | 70.4  |
| GE 4000  | I    |                                  | 57.8  | 63.1  | 71.2  | 76.7  | 77.4  | 79.0  | 79.9  | 79.9  | 80.2  | 80.2  | 80.4  | 80.4  | 80.4  | 80.4  | 80.4  |
| GE 3500  | I    |                                  | 60.5  | 66.1  | 74.4  | 80.0  | 80.8  | 82.4  | 83.2  | 83.2  | 83.5  | 83.5  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  |
| GE 3000  | I    |                                  | 65.6  | 71.6  | 80.2  | 86.6  | 87.3  | 88.9  | 89.9  | 89.9  | 90.2  | 90.2  | 90.4  | 90.4  | 90.4  | 90.4  | 90.4  |
| GE 2500  | I    |                                  | 66.1  | 72.3  | 81.0  | 87.3  | 88.1  | 89.7  | 90.6  | 90.6  | 91.0  | 91.0  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  |
| GE 2000  | I    |                                  | 67.3  | 73.5  | 82.6  | 89.1  | 89.9  | 91.5  | 92.5  | 92.5  | 92.8  | 92.8  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  |
| GE 1800  | I    |                                  | 67.5  | 73.8  | 82.8  | 89.4  | 90.1  | 91.7  | 92.7  | 92.7  | 93.0  | 93.0  | 93.2  | 93.2  | 93.2  | 93.2  | 93.2  |
| GE 1500  | I    |                                  | 68.9  | 75.6  | 85.1  | 91.8  | 92.9  | 94.5  | 95.6  | 95.6  | 95.9  | 95.9  | 96.1  | 96.1  | 96.1  | 96.1  | 96.1  |
| GE 1200  | I    |                                  | 69.1  | 75.8  | 85.4  | 92.3  | 93.4  | 95.1  | 96.1  | 96.2  | 96.6  | 96.6  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  |
| GE 1000  | I    |                                  | 69.2  | 75.9  | 86.1  | 93.2  | 94.4  | 96.3  | 97.4  | 97.5  | 98.2  | 98.2  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  |
| GE 900   | I    |                                  | 69.2  | 75.9  | 86.1  | 93.2  | 94.4  | 96.3  | 97.4  | 97.5  | 98.2  | 98.2  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  |
| GE 800   | I    |                                  | 69.7  | 76.6  | 86.8  | 93.6  | 95.1  | 97.2  | 98.3  | 98.4  | 99.0  | 99.0  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  |
| GE 700   | I    |                                  | 69.7  | 76.7  | 87.3  | 94.4  | 95.6  | 97.8  | 98.9  | 99.0  | 99.7  | 99.7  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 600   | I    |                                  | 69.7  | 76.7  | 87.3  | 94.4  | 95.6  | 97.8  | 98.9  | 99.0  | 99.7  | 99.7  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 500   | I    |                                  | 69.7  | 76.7  | 87.3  | 94.5  | 95.7  | 98.0  | 99.0  | 99.1  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 400   | I    |                                  | 69.7  | 76.7  | 87.3  | 94.5  | 95.7  | 98.0  | 99.0  | 99.1  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 300   | I    |                                  | 69.7  | 76.7  | 87.3  | 94.5  | 95.7  | 98.0  | 99.0  | 99.1  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   | I    |                                  | 69.7  | 76.7  | 87.3  | 94.5  | 95.7  | 98.0  | 99.0  | 99.1  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   | I    |                                  | 69.7  | 76.7  | 87.3  | 94.5  | 95.7  | 98.0  | 99.0  | 99.1  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 0     | I    |                                  | 69.7  | 76.7  | 87.3  | 94.5  | 95.7  | 98.0  | 99.0  | 99.1  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 335963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(IST): 2100-2300

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |       |       |
|---------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|
| IN      | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 40 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4  | GE 0  |
| NO CEIL | I    |                                  | 35.6  | 37.5  | 44.3  | 47.3  | 48.5  | 50.3  | 51.9  | 52.0  | 52.7  | 52.7  | 52.8  | 52.8 | 52.8 | 52.8  | 52.8  |
| GE 2000 | I    |                                  | 38.4  | 40.3  | 48.0  | 51.3  | 52.5  | 54.7  | 56.6  | 56.7  | 57.3  | 57.3  | 57.4  | 57.4 | 57.4 | 57.6  | 57.6  |
| GE 1800 | I    |                                  | 38.4  | 40.3  | 48.1  | 51.4  | 52.6  | 54.8  | 56.7  | 56.8  | 57.4  | 57.4  | 57.5  | 57.5 | 57.5 | 57.7  | 57.7  |
| GE 1600 | I    |                                  | 38.4  | 40.3  | 48.1  | 51.4  | 52.6  | 54.8  | 56.7  | 56.8  | 57.4  | 57.4  | 57.5  | 57.5 | 57.5 | 57.7  | 57.7  |
| GE 1400 | I    |                                  | 38.4  | 40.3  | 48.1  | 51.4  | 52.6  | 54.8  | 56.7  | 56.8  | 57.4  | 57.4  | 57.5  | 57.5 | 57.5 | 57.7  | 57.7  |
| GE 1200 | I    |                                  | 38.4  | 40.3  | 48.1  | 51.5  | 52.7  | 54.9  | 56.8  | 56.9  | 57.5  | 57.5  | 57.6  | 57.6 | 57.6 | 57.8  | 57.8  |
| GE 1000 | I    |                                  | 39.2  | 41.6  | 50.0  | 53.4  | 54.6  | 56.9  | 58.7  | 58.8  | 59.5  | 59.5  | 59.6  | 59.6 | 59.6 | 59.8  | 59.8  |
| GE 900  | I    |                                  | 39.5  | 41.6  | 50.4  | 54.0  | 55.2  | 57.4  | 59.2  | 59.4  | 60.0  | 60.0  | 60.1  | 60.1 | 60.1 | 60.3  | 60.3  |
| GE 800  | I    |                                  | 44.0  | 47.2  | 56.1  | 60.2  | 61.6  | 63.9  | 65.7  | 65.9  | 66.6  | 66.6  | 66.7  | 66.7 | 66.7 | 66.9  | 66.9  |
| GE 700  | I    |                                  | 44.6  | 48.1  | 57.1  | 61.2  | 62.6  | 65.1  | 67.2  | 67.4  | 68.1  | 68.1  | 68.2  | 68.2 | 68.2 | 68.4  | 68.4  |
| GE 600  | I    |                                  | 44.6  | 48.1  | 57.1  | 61.2  | 62.6  | 65.1  | 67.2  | 67.4  | 68.1  | 68.1  | 68.2  | 68.2 | 68.2 | 68.4  | 68.4  |
| GE 500  | I    |                                  | 46.1  | 49.7  | 58.9  | 63.8  | 65.2  | 67.6  | 69.9  | 70.1  | 70.8  | 70.8  | 70.9  | 70.9 | 70.9 | 71.1  | 71.1  |
| GE 450  | I    |                                  | 47.2  | 50.8  | 60.3  | 65.3  | 66.7  | 69.4  | 71.6  | 71.8  | 72.5  | 72.5  | 72.6  | 72.6 | 72.6 | 72.8  | 72.8  |
| GE 400  | I    |                                  | 55.9  | 59.6  | 69.5  | 74.8  | 76.3  | 79.4  | 81.6  | 81.8  | 82.5  | 82.5  | 82.6  | 82.6 | 82.6 | 82.8  | 82.8  |
| GE 350  | I    |                                  | 57.6  | 61.5  | 71.9  | 77.3  | 78.8  | 81.8  | 84.2  | 84.4  | 85.1  | 85.1  | 85.2  | 85.2 | 85.2 | 85.4  | 85.4  |
| GE 300  | I    |                                  | 61.1  | 65.5  | 76.0  | 81.7  | 83.4  | 86.7  | 89.0  | 89.2  | 89.9  | 89.9  | 90.0  | 90.0 | 90.0 | 90.2  | 90.2  |
| GE 250  | I    |                                  | 61.4  | 65.8  | 76.3  | 82.0  | 83.8  | 87.0  | 89.4  | 89.6  | 90.2  | 90.2  | 90.3  | 90.3 | 90.3 | 90.5  | 90.5  |
| GE 200  | I    |                                  | 62.6  | 67.0  | 77.6  | 83.4  | 85.2  | 88.6  | 91.0  | 91.2  | 91.8  | 91.8  | 91.9  | 91.9 | 91.9 | 92.2  | 92.2  |
| GE 180  | I    |                                  | 62.9  | 67.3  | 78.0  | 83.8  | 85.5  | 88.9  | 91.3  | 91.5  | 92.2  | 92.2  | 92.3  | 92.3 | 92.3 | 92.5  | 92.5  |
| GE 150  | I    |                                  | 63.9  | 68.7  | 79.7  | 85.5  | 87.2  | 90.6  | 93.0  | 93.2  | 93.9  | 93.9  | 94.0  | 94.0 | 94.0 | 94.2  | 94.2  |
| GE 120  | I    |                                  | 64.2  | 69.1  | 80.5  | 86.3  | 88.1  | 91.6  | 94.0  | 94.2  | 94.8  | 94.8  | 94.9  | 94.9 | 94.9 | 95.2  | 95.2  |
| GE 100  | I    |                                  | 64.3  | 69.2  | 80.9  | 87.2  | 89.0  | 92.6  | 94.9  | 95.2  | 95.8  | 95.8  | 95.9  | 95.9 | 95.9 | 96.1  | 96.1  |
| GE 90   | I    |                                  | 64.3  | 69.6  | 81.3  | 87.6  | 89.5  | 93.3  | 95.7  | 96.0  | 96.7  | 96.7  | 96.8  | 96.8 | 96.8 | 97.0  | 97.0  |
| GE 80   | I    |                                  | 64.5  | 70.0  | 81.8  | 88.2  | 90.0  | 94.0  | 96.3  | 96.7  | 97.3  | 97.3  | 97.4  | 97.4 | 97.4 | 97.6  | 97.6  |
| GE 70   | I    |                                  | 64.6  | 70.1  | 82.4  | 88.7  | 90.5  | 94.6  | 97.0  | 97.3  | 98.0  | 98.0  | 98.1  | 98.1 | 98.1 | 98.3  | 98.3  |
| GE 60   | I    |                                  | 64.6  | 70.1  | 82.4  | 88.8  | 90.8  | 95.1  | 97.4  | 97.7  | 98.4  | 98.4  | 98.5  | 98.5 | 98.5 | 98.7  | 98.7  |
| GE 50   | I    |                                  | 64.7  | 70.3  | 82.7  | 89.1  | 91.1  | 95.6  | 98.1  | 98.4  | 99.0  | 99.0  | 99.1  | 99.1 | 99.1 | 99.4  | 99.4  |
| GE 40   | I    |                                  | 64.7  | 70.3  | 82.7  | 89.4  | 91.3  | 95.9  | 98.4  | 98.7  | 99.4  | 99.4  | 99.5  | 99.5 | 99.5 | 99.7  | 99.7  |
| GE 30   | I    |                                  | 64.7  | 70.3  | 82.7  | 89.5  | 91.4  | 96.1  | 98.6  | 98.9  | 99.6  | 99.6  | 99.7  | 99.7 | 99.7 | 99.9  | 99.9  |
| GE 20   | I    |                                  | 64.7  | 70.3  | 82.7  | 89.5  | 91.4  | 96.2  | 98.7  | 99.0  | 99.7  | 99.7  | 99.8  | 99.8 | 99.8 | 100.0 | 100.0 |
| GE 10   | I    |                                  | 64.7  | 70.3  | 82.7  | 89.5  | 91.4  | 96.2  | 98.7  | 99.0  | 99.7  | 99.7  | 99.8  | 99.8 | 99.8 | 100.0 | 100.0 |
| GE 0    | I    |                                  | 64.7  | 70.3  | 82.7  | 89.5  | 91.4  | 96.2  | 98.7  | 99.0  | 99.7  | 99.7  | 99.8  | 99.8 | 99.8 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: AUG HOURS(IST): ALL

| CEILING  |  | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|--|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN FEET  |  | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  |  |                                  | 26.1  | 28.3  | 33.1  | 35.5  | 36.0  | 37.3  | 38.4  | 38.6  | 38.9  | 39.0  | 39.1  | 39.2 | 39.3 | 39.4 | 39.5  |
| GE 20000 |  |                                  | 30.0  | 32.6  | 36.5  | 41.4  | 42.0  | 43.5  | 44.7  | 45.0  | 45.4  | 45.6  | 45.7  | 45.8 | 45.9 | 46.1 | 46.2  |
| GE 18000 |  |                                  | 30.1  | 32.6  | 38.5  | 41.5  | 42.1  | 43.5  | 44.8  | 45.0  | 45.5  | 45.6  | 45.7  | 45.8 | 45.9 | 46.1 | 46.2  |
| GE 16000 |  |                                  | 30.1  | 32.6  | 38.5  | 41.5  | 42.1  | 43.6  | 44.8  | 45.0  | 45.5  | 45.6  | 45.7  | 45.8 | 45.9 | 46.1 | 46.2  |
| GE 14000 |  |                                  | 30.1  | 32.6  | 36.5  | 41.5  | 42.1  | 43.6  | 44.8  | 45.1  | 45.5  | 45.6  | 45.8  | 45.9 | 46.0 | 46.1 | 46.3  |
| GE 12000 |  |                                  | 30.2  | 32.8  | 38.9  | 42.0  | 42.6  | 44.1  | 45.3  | 45.5  | 46.0  | 46.1  | 46.2  | 46.3 | 46.4 | 46.6 | 46.8  |
| GE 10000 |  |                                  | 32.2  | 34.9  | 41.5  | 44.7  | 45.4  | 47.0  | 48.3  | 48.6  | 49.1  | 49.2  | 49.4  | 49.5 | 49.7 | 49.8 | 50.0  |
| GE 9000  |  |                                  | 32.5  | 35.3  | 42.0  | 45.3  | 46.0  | 47.7  | 48.9  | 49.3  | 49.8  | 49.9  | 50.1  | 50.2 | 50.3 | 50.5 | 50.7  |
| GE 8000  |  |                                  | 36.8  | 40.2  | 47.5  | 51.1  | 51.8  | 53.6  | 54.9  | 55.3  | 55.8  | 55.9  | 56.1  | 56.2 | 56.4 | 56.6 | 56.7  |
| GE 7000  |  |                                  | 37.4  | 40.8  | 48.2  | 51.8  | 52.6  | 54.4  | 55.8  | 56.2  | 56.7  | 56.8  | 57.0  | 57.1 | 57.3 | 57.5 | 57.6  |
| GE 6000  |  |                                  | 37.4  | 40.9  | 48.2  | 51.9  | 52.7  | 54.5  | 55.8  | 56.2  | 56.8  | 56.9  | 57.1  | 57.2 | 57.3 | 57.5 | 57.6  |
| GE 5000  |  |                                  | 40.2  | 43.8  | 51.4  | 55.3  | 56.1  | 58.0  | 59.4  | 59.8  | 60.4  | 60.5  | 60.6  | 60.7 | 60.9 | 61.1 | 61.2  |
| GE 4500  |  |                                  | 41.6  | 45.3  | 53.0  | 57.0  | 57.8  | 59.7  | 61.2  | 61.5  | 62.1  | 62.3  | 62.4  | 62.5 | 62.7 | 62.9 | 63.0  |
| GE 4000  |  |                                  | 49.7  | 54.0  | 62.3  | 66.6  | 67.5  | 69.6  | 71.1  | 71.5  | 72.1  | 72.2  | 72.4  | 72.5 | 72.7 | 72.8 | 73.0  |
| GE 3500  |  |                                  | 53.2  | 57.7  | 66.4  | 70.9  | 71.8  | 74.0  | 75.6  | 76.0  | 76.7  | 76.8  | 76.9  | 77.1 | 77.2 | 77.4 | 77.5  |
| GE 3000  |  |                                  | 59.7  | 64.6  | 73.8  | 78.7  | 79.8  | 82.1  | 83.8  | 84.2  | 84.9  | 85.0  | 85.2  | 85.3 | 85.5 | 85.6 | 85.8  |
| GE 2500  |  |                                  | 60.6  | 65.6  | 74.8  | 79.8  | 80.8  | 83.2  | 84.9  | 85.3  | 86.0  | 86.1  | 86.3  | 86.4 | 86.5 | 86.7 | 86.9  |
| GE 2000  |  |                                  | 62.6  | 67.8  | 77.6  | 82.8  | 83.9  | 86.3  | 88.0  | 88.5  | 89.1  | 89.2  | 89.4  | 89.5 | 89.7 | 89.9 | 90.0  |
| GE 1800  |  |                                  | 62.9  | 68.1  | 77.9  | 83.1  | 84.2  | 86.7  | 88.4  | 88.8  | 89.5  | 89.6  | 89.8  | 89.9 | 90.0 | 90.2 | 90.4  |
| GE 1500  |  |                                  | 63.8  | 69.3  | 79.5  | 84.9  | 86.1  | 88.6  | 90.4  | 90.8  | 91.5  | 91.6  | 91.7  | 91.9 | 92.0 | 92.2 | 92.4  |
| GE 1200  |  |                                  | 64.3  | 69.8  | 80.5  | 86.3  | 87.6  | 90.3  | 92.1  | 92.5  | 93.2  | 93.4  | 93.5  | 93.6 | 93.8 | 94.0 | 94.1  |
| GE 1000  |  |                                  | 64.5  | 70.2  | 81.2  | 87.1  | 88.5  | 91.4  | 93.2  | 93.7  | 94.4  | 94.5  | 94.7  | 94.8 | 95.0 | 95.2 | 95.3  |
| GE 900   |  |                                  | 64.6  | 70.3  | 81.5  | 87.6  | 88.9  | 91.9  | 93.7  | 94.3  | 95.0  | 95.1  | 95.3  | 95.4 | 95.5 | 95.7 | 95.9  |
| GE 800   |  |                                  | 64.8  | 70.6  | 81.8  | 88.1  | 89.4  | 92.5  | 94.4  | 94.9  | 95.7  | 95.8  | 96.0  | 96.1 | 96.2 | 96.4 | 96.6  |
| GE 700   |  |                                  | 64.8  | 70.7  | 82.3  | 88.7  | 90.1  | 93.3  | 95.3  | 95.9  | 96.7  | 96.8  | 96.9  | 97.1 | 97.2 | 97.4 | 97.6  |
| GE 600   |  |                                  | 64.9  | 70.7  | 82.4  | 88.9  | 90.4  | 93.7  | 95.7  | 96.4  | 97.2  | 97.3  | 97.5  | 97.6 | 97.8 | 98.0 | 98.1  |
| GE 500   |  |                                  | 64.9  | 70.8  | 82.6  | 89.1  | 90.7  | 94.1  | 96.2  | 96.9  | 97.8  | 97.9  | 98.1  | 98.2 | 98.4 | 98.6 | 98.8  |
| GE 400   |  |                                  | 64.9  | 70.8  | 82.6  | 89.2  | 90.8  | 94.3  | 96.5  | 97.3  | 98.2  | 98.3  | 98.5  | 98.6 | 98.8 | 99.0 | 99.2  |
| GE 300   |  |                                  | 64.9  | 70.8  | 82.6  | 89.2  | 90.8  | 94.4  | 96.6  | 97.4  | 98.3  | 98.5  | 98.7  | 98.8 | 99.0 | 99.2 | 99.4  |
| GE 200   |  |                                  | 64.9  | 70.8  | 82.6  | 89.2  | 90.8  | 94.4  | 96.6  | 97.4  | 98.4  | 98.5  | 98.7  | 98.9 | 99.1 | 99.4 | 99.6  |
| GE 100   |  |                                  | 64.9  | 70.8  | 82.6  | 89.2  | 90.8  | 94.4  | 96.6  | 97.4  | 98.4  | 98.5  | 98.7  | 98.9 | 99.2 | 99.5 | 100.0 |
| GE 0     |  |                                  | 64.9  | 70.8  | 82.6  | 89.2  | 90.8  | 94.4  | 96.6  | 97.4  | 98.4  | 98.5  | 98.7  | 98.9 | 99.2 | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 7439

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: SEP HOURS(LST): 0000-0.00

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  | 1    |                                  | 35.9  | 40.0  | 47.4  | 50.7  | 51.3  | 54.1  | 55.4  | 55.8  | 57.1  | 57.1  | 57.2  | 57.2 | 57.8 | 58.0 | 58.0  |
| GE 20000 |      |                                  | 37.1  | 41.2  | 49.8  | 53.1  | 53.8  | 56.8  | 58.6  | 59.3  | 60.7  | 60.7  | 60.9  | 60.9 | 61.4 | 61.7 | 61.9  |
| GE 18000 |      |                                  | 37.1  | 41.2  | 49.8  | 53.1  | 53.8  | 56.8  | 58.6  | 59.3  | 60.7  | 60.7  | 60.9  | 60.9 | 61.4 | 61.7 | 61.9  |
| GE 16000 |      |                                  | 37.1  | 41.2  | 49.8  | 53.1  | 53.8  | 56.8  | 58.6  | 59.3  | 60.7  | 60.7  | 60.9  | 60.9 | 61.4 | 61.7 | 61.9  |
| GE 14000 |      |                                  | 37.1  | 41.2  | 49.8  | 53.1  | 53.8  | 56.8  | 58.6  | 59.3  | 60.7  | 60.7  | 60.9  | 60.9 | 61.4 | 61.7 | 61.9  |
| GE 12000 |      |                                  | 37.4  | 41.6  | 50.1  | 53.4  | 54.1  | 57.1  | 58.9  | 59.7  | 61.0  | 61.0  | 61.2  | 61.2 | 61.8 | 62.0 | 62.2  |
| GE 10000 |      |                                  | 39.0  | 43.2  | 52.2  | 55.6  | 56.2  | 59.2  | 61.0  | 61.8  | 63.1  | 63.1  | 63.3  | 63.3 | 63.9 | 64.1 | 64.3  |
| GE 9000  |      |                                  | 39.4  | 43.7  | 52.7  | 56.1  | 57.0  | 60.0  | 61.8  | 62.6  | 63.9  | 63.9  | 64.1  | 64.1 | 64.7 | 64.9 | 65.1  |
| GE 8000  |      |                                  | 42.6  | 47.2  | 57.1  | 60.9  | 61.8  | 65.0  | 66.9  | 67.7  | 69.1  | 69.1  | 69.3  | 69.3 | 69.9 | 70.1 | 70.3  |
| GE 7000  |      |                                  | 43.6  | 48.7  | 58.7  | 62.4  | 63.3  | 66.6  | 68.4  | 69.2  | 70.7  | 70.7  | 70.9  | 70.9 | 71.4 | 71.7 | 71.9  |
| GE 6000  |      |                                  | 43.6  | 48.7  | 58.7  | 62.4  | 63.3  | 66.6  | 68.4  | 69.2  | 70.7  | 70.7  | 70.9  | 70.9 | 71.4 | 71.7 | 71.9  |
| GE 5000  |      |                                  | 46.0  | 51.4  | 61.9  | 66.1  | 67.0  | 70.2  | 72.1  | 72.9  | 74.4  | 74.4  | 74.7  | 74.7 | 75.2 | 75.4 | 75.7  |
| GE 4500  |      |                                  | 46.3  | 51.8  | 62.2  | 66.4  | 67.3  | 70.6  | 72.4  | 73.2  | 74.8  | 74.8  | 75.0  | 75.0 | 75.6 | 75.8 | 76.0  |
| GE 4000  |      |                                  | 50.9  | 56.7  | 67.6  | 72.3  | 73.2  | 76.4  | 78.8  | 79.6  | 81.2  | 81.2  | 81.6  | 81.6 | 82.2 | 82.4 | 82.7  |
| GE 3500  |      |                                  | 52.4  | 58.2  | 69.6  | 74.3  | 75.2  | 78.6  | 80.9  | 81.7  | 83.3  | 83.3  | 83.7  | 83.7 | 84.3 | 84.6 | 84.8  |
| GE 3000  |      |                                  | 55.6  | 61.3  | 73.9  | 79.1  | 80.1  | 83.4  | 86.0  | 86.8  | 88.4  | 88.4  | 88.8  | 88.8 | 89.4 | 89.7 | 89.9  |
| GE 2500  |      |                                  | 55.8  | 61.7  | 74.3  | 79.6  | 80.6  | 83.9  | 86.4  | 87.2  | 88.9  | 88.9  | 89.2  | 89.2 | 89.9 | 90.1 | 90.3  |
| GE 2000  |      |                                  | 56.7  | 62.7  | 76.1  | 81.6  | 82.6  | 86.1  | 89.0  | 89.8  | 91.4  | 91.4  | 91.8  | 91.8 | 92.4 | 92.7 | 92.9  |
| GE 1800  |      |                                  | 56.7  | 62.7  | 76.1  | 81.6  | 82.6  | 86.1  | 89.0  | 89.8  | 91.4  | 91.4  | 91.8  | 91.8 | 92.4 | 92.7 | 92.9  |
| GE 1500  |      |                                  | 56.8  | 63.0  | 76.8  | 82.2  | 83.2  | 86.8  | 89.7  | 90.4  | 92.3  | 92.3  | 92.7  | 92.7 | 93.3 | 93.6 | 93.8  |
| GE 1200  |      |                                  | 57.0  | 63.2  | 77.7  | 83.1  | 84.1  | 87.7  | 90.6  | 91.3  | 93.4  | 93.4  | 93.8  | 93.8 | 94.4 | 94.7 | 94.9  |
| GE 1000  |      |                                  | 57.0  | 63.3  | 78.1  | 83.8  | 84.8  | 88.3  | 91.2  | 92.0  | 94.2  | 94.2  | 94.6  | 94.6 | 95.2 | 95.4 | 95.7  |
| GE 900   |      |                                  | 57.0  | 63.3  | 78.1  | 83.8  | 84.8  | 88.3  | 91.2  | 92.0  | 94.2  | 94.2  | 94.6  | 94.6 | 95.2 | 95.4 | 95.7  |
| GE 800   |      |                                  | 57.2  | 63.6  | 78.3  | 84.0  | 85.0  | 88.7  | 91.6  | 92.3  | 94.6  | 94.6  | 94.9  | 94.9 | 95.6 | 95.8 | 96.0  |
| GE 700   |      |                                  | 57.4  | 63.8  | 78.7  | 84.7  | 85.7  | 89.6  | 92.4  | 93.2  | 95.4  | 95.4  | 95.8  | 95.8 | 96.4 | 96.7 | 96.9  |
| GE 600   |      |                                  | 57.4  | 63.8  | 78.6  | 84.8  | 85.8  | 89.1  | 93.2  | 94.0  | 96.2  | 96.2  | 96.6  | 96.6 | 97.2 | 97.4 | 97.7  |
| GE 500   |      |                                  | 57.6  | 64.0  | 79.0  | 85.0  | 86.0  | 90.6  | 93.8  | 94.9  | 97.1  | 97.1  | 97.4  | 97.4 | 98.1 | 98.3 | 98.6  |
| GE 400   |      |                                  | 57.6  | 64.0  | 79.0  | 85.0  | 86.0  | 90.8  | 94.2  | 95.3  | 97.7  | 97.7  | 98.0  | 98.1 | 98.8 | 99.0 | 99.2  |
| GE 300   |      |                                  | 57.6  | 64.0  | 79.0  | 85.0  | 86.0  | 90.8  | 94.2  | 95.3  | 97.7  | 97.7  | 98.0  | 98.1 | 98.8 | 99.0 | 99.4  |
| GE 200   |      |                                  | 57.6  | 64.0  | 79.0  | 85.0  | 86.0  | 90.8  | 94.2  | 95.3  | 97.8  | 97.8  | 98.2  | 98.3 | 99.0 | 99.2 | 100.0 |
| GE 100   |      |                                  | 57.6  | 64.0  | 79.0  | 85.0  | 86.0  | 90.8  | 94.2  | 95.3  | 97.8  | 97.8  | 98.2  | 98.3 | 99.0 | 99.2 | 100.0 |
| GE 0     |      |                                  | 57.6  | 64.0  | 79.0  | 85.0  | 86.0  | 90.8  | 94.2  | 95.3  | 97.8  | 97.8  | 98.2  | 98.3 | 99.0 | 99.2 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: SEP HOURS (LST): 0300-0500

| CEILING    |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|------------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| IN<br>FEET | GT  | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    |
|            | 160 | 90                               | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     |
| NO CEIL    |     | 28.6                             | 31.6 | 37.4 | 41.2 | 42.6 | 45.6 | 47.1 | 47.7 | 49.1 | 49.7 | 49.7 | 50.1 | 50.6 | 51.0 | 51.7  |
| GE 20000   |     | 31.1                             | 34.4 | 40.8 | 44.7 | 46.0 | 49.3 | 51.2 | 51.8 | 53.2 | 53.6 | 53.9 | 54.4 | 54.9 | 55.3 | 56.0  |
| GE 18000   |     | 31.1                             | 34.4 | 40.8 | 44.7 | 46.0 | 49.3 | 51.2 | 51.8 | 53.2 | 53.6 | 53.9 | 54.4 | 54.9 | 55.3 | 56.0  |
| GE 16000   |     | 31.1                             | 34.4 | 40.8 | 44.7 | 46.0 | 49.3 | 51.2 | 51.8 | 53.2 | 53.6 | 53.9 | 54.4 | 54.9 | 55.3 | 56.0  |
| GE 14000   |     | 31.1                             | 34.4 | 40.8 | 44.7 | 46.0 | 49.3 | 51.2 | 51.8 | 53.2 | 53.6 | 53.9 | 54.4 | 54.9 | 55.3 | 56.0  |
| GE 12000   |     | 31.2                             | 34.9 | 41.2 | 45.1 | 46.4 | 49.8 | 51.7 | 52.2 | 53.7 | 54.0 | 54.3 | 54.9 | 55.3 | 55.8 | 56.4  |
| GE 10000   |     | 31.7                             | 35.6 | 42.0 | 45.9 | 47.2 | 50.6 | 52.6 | 53.1 | 54.6 | 54.9 | 55.2 | 55.8 | 56.2 | 56.7 | 57.3  |
| GE 9000    |     | 32.1                             | 36.0 | 42.9 | 46.8 | 48.1 | 51.4 | 53.4 | 54.0 | 55.4 | 55.8 | 56.1 | 56.7 | 57.1 | 57.6 | 58.2  |
| GE 8000    |     | 35.2                             | 39.2 | 46.6 | 50.7 | 52.4 | 56.0 | 58.0 | 58.7 | 60.1 | 60.4 | 60.8 | 61.3 | 61.8 | 62.2 | 62.9  |
| GE 7000    |     | 36.3                             | 40.8 | 48.1 | 52.2 | 54.0 | 57.6 | 59.6 | 60.2 | 61.7 | 62.0 | 62.3 | 62.9 | 63.3 | 63.8 | 64.4  |
| GE 6000    |     | 36.3                             | 40.8 | 48.1 | 52.2 | 54.0 | 57.6 | 59.6 | 60.2 | 61.7 | 62.0 | 62.3 | 62.9 | 63.3 | 63.8 | 64.4  |
| GE 5000    |     | 39.1                             | 44.1 | 51.7 | 56.2 | 58.1 | 61.8 | 63.8 | 64.4 | 65.9 | 66.2 | 66.6 | 67.1 | 67.6 | 68.0 | 68.7  |
| GE 4500    |     | 39.3                             | 44.3 | 52.0 | 56.6 | 58.4 | 62.1 | 64.1 | 64.8 | 66.2 | 66.6 | 66.9 | 67.4 | 67.9 | 68.3 | 69.0  |
| GE 4000    |     | 45.1                             | 50.4 | 59.8 | 64.9 | 67.0 | 70.7 | 72.7 | 73.3 | 74.8 | 75.1 | 75.4 | 76.0 | 76.4 | 76.9 | 77.6  |
| GE 3500    |     | 47.6                             | 53.0 | 62.9 | 68.1 | 70.2 | 73.9 | 75.9 | 76.6 | 78.0 | 78.3 | 78.7 | 79.2 | 79.8 | 80.2 | 80.9  |
| GE 3000    |     | 51.3                             | 57.2 | 68.3 | 74.2 | 76.4 | 80.3 | 82.7 | 83.3 | 84.8 | 85.1 | 85.4 | 86.0 | 86.7 | 87.1 | 87.8  |
| GE 2500    |     | 51.7                             | 57.7 | 68.8 | 74.7 | 76.9 | 80.8 | 83.1 | 83.8 | 85.4 | 85.8 | 86.1 | 86.7 | 87.3 | 87.8 | 88.4  |
| GE 2000    |     | 53.1                             | 59.3 | 71.0 | 77.1 | 79.3 | 83.2 | 85.6 | 86.2 | 87.9 | 88.2 | 88.6 | 89.1 | 89.8 | 90.2 | 90.9  |
| GE 1800    |     | 53.1                             | 59.3 | 71.0 | 77.1 | 79.3 | 83.2 | 85.6 | 86.2 | 87.9 | 88.2 | 88.6 | 89.1 | 89.8 | 90.2 | 90.9  |
| GE 1500    |     | 53.6                             | 60.4 | 72.1 | 78.2 | 80.4 | 84.4 | 86.8 | 87.4 | 89.2 | 89.6 | 89.9 | 90.4 | 91.1 | 91.6 | 92.2  |
| GE 1200    |     | 54.6                             | 61.4 | 73.8 | 79.9 | 82.1 | 86.4 | 88.9 | 89.6 | 91.3 | 91.7 | 92.1 | 92.8 | 93.4 | 93.9 | 94.6  |
| GE 1000    |     | 54.7                             | 61.6 | 74.1 | 80.2 | 82.6 | 86.9 | 89.3 | 90.0 | 91.8 | 92.1 | 92.6 | 93.2 | 93.9 | 94.3 | 95.0  |
| GE 900     |     | 54.9                             | 61.8 | 74.4 | 80.6 | 82.9 | 87.2 | 89.7 | 90.3 | 92.1 | 92.4 | 92.9 | 93.6 | 94.2 | 94.7 | 95.3  |
| GE 800     |     | 54.9                             | 61.8 | 74.4 | 80.6 | 82.9 | 87.3 | 89.8 | 90.4 | 92.2 | 92.6 | 93.0 | 93.7 | 94.3 | 94.8 | 95.4  |
| GE 700     |     | 55.2                             | 62.1 | 74.8 | 81.0 | 83.6 | 88.0 | 90.4 | 91.1 | 92.9 | 93.2 | 93.7 | 94.3 | 95.0 | 95.4 | 96.1  |
| GE 600     |     | 55.2                             | 62.3 | 75.1 | 81.4 | 84.1 | 88.8 | 91.3 | 92.0 | 94.1 | 94.4 | 94.9 | 95.6 | 96.2 | 96.7 | 97.3  |
| GE 500     |     | 55.3                             | 62.4 | 75.2 | 81.6 | 84.2 | 89.0 | 92.2 | 92.9 | 95.3 | 95.7 | 96.1 | 96.8 | 97.4 | 97.9 | 98.6  |
| GE 400     |     | 55.3                             | 62.4 | 75.2 | 81.7 | 84.3 | 89.7 | 93.1 | 93.8 | 96.2 | 96.6 | 97.0 | 97.7 | 98.3 | 98.8 | 99.4  |
| GE 300     |     | 55.3                             | 62.4 | 75.2 | 81.7 | 84.3 | 89.7 | 93.1 | 93.8 | 96.3 | 96.7 | 97.1 | 97.8 | 98.4 | 98.9 | 99.6  |
| GE 200     |     | 55.3                             | 62.4 | 75.2 | 81.7 | 84.3 | 89.7 | 93.1 | 93.8 | 96.3 | 96.7 | 97.1 | 97.8 | 98.4 | 98.9 | 99.6  |
| GE 100     |     | 55.3                             | 62.4 | 75.2 | 81.7 | 84.3 | 89.7 | 93.1 | 93.8 | 96.3 | 96.7 | 97.1 | 97.8 | 98.4 | 98.9 | 99.6  |
| GE 0       |     | 55.3                             | 62.4 | 75.2 | 81.7 | 84.3 | 89.7 | 93.1 | 93.8 | 96.3 | 96.7 | 97.1 | 97.8 | 98.4 | 98.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS(LST): 0600-0800

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|---------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN      | FEET | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL |      | 22.6                             | 25.0     | 28.9     | 31.8     | 32.9     | 33.9     | 35.4     | 36.0     | 37.3     | 38.0     | 38.2     | 38.7     | 38.9    | 39.1    | 39.8    |         |
| GE 2000 |      | 27.7                             | 30.8     | 36.0     | 39.7     | 41.2     | 42.7     | 44.4     | 45.2     | 46.7     | 47.4     | 48.0     | 48.6     | 48.9    | 49.2    | 49.9    |         |
| GE 1800 |      | 28.1                             | 31.2     | 36.4     | 40.2     | 41.8     | 43.2     | 45.0     | 45.8     | 47.2     | 48.0     | 48.6     | 49.1     | 49.4    | 49.8    | 50.4    |         |
| GE 1600 |      | 28.1                             | 31.2     | 36.4     | 40.2     | 41.8     | 43.2     | 45.0     | 45.8     | 47.2     | 48.0     | 48.6     | 49.1     | 49.4    | 49.8    | 50.4    |         |
| GE 1400 |      | 28.2                             | 31.3     | 36.6     | 40.3     | 41.9     | 43.3     | 45.1     | 45.9     | 47.3     | 48.1     | 48.7     | 49.2     | 49.6    | 49.9    | 50.6    |         |
| GE 1200 |      | 28.4                             | 31.6     | 36.9     | 40.8     | 42.3     | 43.8     | 45.6     | 46.3     | 47.9     | 48.7     | 49.2     | 49.8     | 50.1    | 50.4    | 51.1    |         |
| GE 1000 |      | 30.6                             | 34.0     | 39.9     | 44.2     | 46.1     | 47.7     | 49.4     | 50.3     | 52.1     | 52.9     | 53.4     | 54.0     | 54.3    | 54.7    | 55.3    |         |
| GE 900  |      | 31.2                             | 34.7     | 40.6     | 45.1     | 47.0     | 48.7     | 50.4     | 51.3     | 53.1     | 53.9     | 54.4     | 55.0     | 55.3    | 55.7    | 56.3    |         |
| GE 800  |      | 34.1                             | 38.2     | 45.1     | 50.1     | 52.0     | 54.1     | 56.2     | 57.1     | 59.1     | 59.9     | 60.6     | 61.3     | 61.7    | 62.0    | 62.7    |         |
| GE 700  |      | 35.3                             | 39.7     | 46.8     | 51.8     | 53.7     | 55.8     | 57.9     | 58.8     | 60.8     | 61.6     | 62.2     | 63.0     | 63.3    | 63.7    | 64.3    |         |
| GE 600  |      | 35.3                             | 39.7     | 46.8     | 51.8     | 53.7     | 55.8     | 57.9     | 58.8     | 60.8     | 61.6     | 62.2     | 63.0     | 63.3    | 63.7    | 64.3    |         |
| GE 500  |      | 37.3                             | 41.7     | 49.6     | 54.9     | 56.9     | 59.1     | 61.4     | 62.3     | 64.3     | 65.1     | 65.8     | 66.6     | 66.9    | 67.2    | 67.9    |         |
| GE 450  |      | 37.3                             | 41.7     | 49.8     | 55.1     | 57.1     | 59.6     | 62.1     | 63.0     | 65.2     | 66.0     | 66.7     | 67.4     | 67.8    | 68.1    | 68.8    |         |
| GE 400  |      | 41.2                             | 46.2     | 56.1     | 62.2     | 64.2     | 66.8     | 69.8     | 70.8     | 73.0     | 73.8     | 74.4     | 75.2     | 75.6    | 75.9    | 76.6    |         |
| GE 350  |      | 44.3                             | 49.6     | 59.7     | 65.8     | 67.8     | 70.3     | 73.3     | 74.3     | 76.6     | 77.3     | 78.0     | 78.8     | 79.1    | 79.4    | 80.1    |         |
| GE 300  |      | 47.7                             | 53.7     | 64.3     | 70.8     | 72.8     | 75.3     | 78.4     | 79.6     | 81.9     | 82.7     | 83.3     | 84.1     | 84.4    | 84.8    | 85.4    |         |
| GE 250  |      | 48.2                             | 54.3     | 65.2     | 71.7     | 73.7     | 76.3     | 79.4     | 80.6     | 82.9     | 83.7     | 84.3     | 85.1     | 85.4    | 85.8    | 86.4    |         |
| GE 200  |      | 50.8                             | 56.9     | 68.0     | 74.6     | 76.7     | 79.3     | 82.6     | 83.7     | 86.0     | 86.9     | 87.6     | 88.3     | 88.7    | 89.0    | 89.7    |         |
| GE 180  |      | 50.9                             | 57.0     | 68.1     | 74.7     | 76.8     | 79.4     | 82.7     | 83.8     | 86.1     | 87.0     | 87.7     | 88.4     | 88.8    | 89.1    | 89.6    |         |
| GE 150  |      | 51.3                             | 57.7     | 69.0     | 75.6     | 77.7     | 80.3     | 83.6     | 84.7     | 87.0     | 87.9     | 88.6     | 89.3     | 89.7    | 90.0    | 90.7    |         |
| GE 120  |      | 51.7                             | 58.2     | 70.0     | 76.7     | 78.8     | 81.4     | 84.7     | 85.8     | 88.1     | 89.0     | 89.7     | 90.4     | 90.8    | 91.1    | 91.8    |         |
| GE 100  |      | 51.9                             | 58.8     | 70.8     | 77.9     | 80.2     | 83.2     | 86.7     | 87.8     | 90.2     | 91.2     | 91.9     | 92.7     | 93.0    | 93.3    | 94.0    |         |
| GE 90   |      | 51.9                             | 58.9     | 70.9     | 78.0     | 80.3     | 83.3     | 87.1     | 88.2     | 90.7     | 91.7     | 92.3     | 93.1     | 93.4    | 93.8    | 94.4    |         |
| GE 80   |      | 51.9                             | 58.9     | 70.9     | 78.1     | 80.4     | 83.8     | 87.7     | 88.8     | 91.4     | 92.6     | 93.2     | 94.0     | 94.3    | 94.7    | 95.3    |         |
| GE 70   |      | 52.1                             | 59.1     | 71.2     | 78.7     | 81.0     | 84.6     | 88.6     | 89.7     | 92.3     | 93.4     | 94.2     | 95.0     | 95.4    | 95.8    | 96.4    |         |
| GE 60   |      | 52.1                             | 59.1     | 71.4     | 79.0     | 81.4     | 85.1     | 89.3     | 90.6     | 93.3     | 94.4     | 95.3     | 96.1     | 96.6    | 96.9    | 97.6    |         |
| GE 50   |      | 52.1                             | 59.1     | 71.4     | 79.1     | 81.6     | 85.6     | 90.0     | 91.2     | 94.3     | 95.6     | 96.4     | 97.3     | 97.8    | 98.1    | 98.8    |         |
| GE 40   |      | 52.1                             | 59.1     | 71.4     | 79.1     | 81.8     | 85.7     | 90.3     | 91.6     | 94.7     | 95.9     | 96.8     | 97.7     | 98.1    | 98.4    | 99.1    |         |
| GE 30   |      | 52.1                             | 59.1     | 71.4     | 79.1     | 81.8     | 85.7     | 90.3     | 91.6     | 94.9     | 96.1     | 97.0     | 98.0     | 98.6    | 98.9    | 99.6    |         |
| GE 20   |      | 52.1                             | 59.1     | 71.4     | 79.1     | 81.8     | 85.7     | 90.3     | 91.6     | 94.9     | 96.1     | 97.0     | 98.0     | 98.6    | 98.9    | 99.9    |         |
| GE 10   |      | 52.1                             | 59.1     | 71.4     | 79.1     | 81.8     | 85.7     | 90.3     | 91.6     | 94.9     | 96.1     | 97.0     | 98.0     | 98.6    | 98.9    | 100.0   |         |
| GE      |      | 52.1                             | 59.1     | 71.4     | 79.1     | 81.8     | 85.7     | 90.3     | 91.6     | 94.9     | 96.1     | 97.0     | 98.0     | 98.6    | 98.9    | 100.0   |         |

TOTAL NUMBER OF OBSERVATIONS: 900



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: SEP HOURS(LST): 0900-1100

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GE 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 3  |
| NO CEIL  | 1    |                                  | 26.3  | 28.6  | 32.7  | 35.4  | 36.1  | 36.7  | 37.3  | 37.6  | 37.9  | 37.9  | 38.0  | 38.1 | 38.1 | 38.1 | 38.1  |
| GE 20000 |      |                                  | 34.9  | 37.7  | 42.8  | 46.0  | 46.9  | 47.6  | 48.3  | 48.6  | 48.9  | 48.9  | 49.0  | 49.1 | 49.1 | 49.1 | 49.1  |
| GE 18000 |      |                                  | 34.9  | 37.7  | 42.8  | 46.1  | 47.0  | 47.7  | 48.4  | 48.7  | 49.0  | 49.0  | 49.1  | 49.2 | 49.2 | 49.2 | 49.2  |
| GE 16000 |      |                                  | 34.9  | 37.7  | 42.8  | 46.1  | 47.0  | 47.7  | 48.4  | 48.7  | 49.0  | 49.0  | 49.1  | 49.2 | 49.2 | 49.2 | 49.2  |
| GE 14000 |      |                                  | 35.0  | 37.8  | 42.9  | 46.2  | 47.1  | 47.8  | 48.6  | 48.8  | 49.1  | 49.1  | 49.2  | 49.3 | 49.3 | 49.3 | 49.3  |
| GE 12000 |      |                                  | 36.1  | 38.9  | 44.0  | 47.3  | 48.2  | 48.9  | 49.7  | 49.9  | 50.2  | 50.2  | 50.3  | 50.4 | 50.4 | 50.4 | 50.4  |
| GE 10000 |      |                                  | 38.7  | 41.8  | 47.4  | 50.9  | 51.6  | 52.4  | 53.2  | 53.4  | 53.8  | 53.8  | 53.9  | 54.0 | 54.0 | 54.0 | 54.0  |
| GE 9000  |      |                                  | 38.9  | 42.0  | 47.7  | 51.4  | 52.3  | 53.0  | 53.9  | 54.2  | 54.6  | 54.6  | 54.7  | 54.8 | 54.8 | 54.8 | 54.8  |
| GE 8000  |      |                                  | 42.4  | 46.0  | 52.7  | 56.7  | 57.6  | 58.4  | 59.4  | 59.8  | 60.1  | 60.1  | 60.2  | 60.3 | 60.3 | 60.3 | 60.3  |
| GE 7000  |      |                                  | 42.7  | 46.2  | 53.1  | 57.2  | 58.2  | 59.2  | 60.3  | 60.7  | 61.0  | 61.0  | 61.1  | 61.2 | 61.2 | 61.2 | 61.2  |
| GE 6000  |      |                                  | 42.7  | 46.2  | 53.1  | 57.2  | 58.2  | 59.2  | 60.3  | 60.7  | 61.0  | 61.0  | 61.1  | 61.2 | 61.2 | 61.2 | 61.2  |
| GE 5000  |      |                                  | 44.8  | 48.8  | 55.9  | 60.1  | 61.1  | 62.1  | 63.2  | 63.6  | 63.9  | 63.9  | 64.0  | 64.1 | 64.1 | 64.1 | 64.1  |
| GE 4500  |      |                                  | 45.4  | 49.6  | 56.7  | 61.1  | 62.1  | 63.3  | 64.6  | 64.9  | 65.2  | 65.2  | 65.3  | 65.4 | 65.4 | 65.4 | 65.4  |
| GE 4000  |      |                                  | 50.4  | 55.2  | 63.3  | 68.2  | 69.3  | 70.7  | 72.0  | 72.4  | 72.8  | 72.8  | 72.9  | 73.0 | 73.0 | 73.0 | 73.0  |
| GE 3500  |      |                                  | 53.3  | 58.6  | 66.8  | 72.0  | 73.1  | 74.4  | 75.8  | 76.2  | 76.6  | 76.6  | 76.7  | 76.8 | 76.8 | 76.8 | 76.8  |
| GE 3000  |      |                                  | 60.1  | 65.4  | 74.7  | 80.2  | 81.3  | 82.7  | 84.0  | 84.4  | 84.8  | 84.8  | 84.9  | 85.0 | 85.0 | 85.0 | 85.0  |
| GE 2500  |      |                                  | 60.6  | 66.2  | 75.7  | 81.7  | 82.8  | 84.4  | 85.8  | 86.2  | 86.6  | 86.6  | 86.7  | 86.8 | 86.8 | 86.8 | 86.8  |
| GE 2000  |      |                                  | 63.0  | 69.1  | 79.0  | 85.2  | 86.4  | 88.3  | 89.8  | 90.3  | 90.9  | 90.9  | 91.0  | 91.1 | 91.1 | 91.1 | 91.1  |
| GE 1800  |      |                                  | 63.0  | 69.1  | 79.1  | 85.3  | 86.6  | 88.6  | 90.0  | 90.6  | 91.1  | 91.1  | 91.2  | 91.3 | 91.3 | 91.3 | 91.3  |
| GE 1500  |      |                                  | 63.8  | 70.1  | 80.3  | 86.8  | 88.0  | 90.0  | 91.6  | 92.1  | 92.7  | 92.7  | 92.8  | 92.9 | 92.9 | 92.9 | 92.9  |
| GE 1200  |      |                                  | 64.3  | 71.1  | 81.6  | 88.6  | 89.8  | 92.1  | 93.9  | 94.6  | 95.1  | 95.1  | 95.2  | 95.3 | 95.3 | 95.3 | 95.3  |
| GE 1000  |      |                                  | 64.3  | 71.1  | 82.3  | 89.7  | 90.9  | 93.4  | 95.3  | 96.0  | 96.7  | 96.7  | 96.8  | 96.9 | 96.9 | 96.9 | 96.9  |
| GE 900   |      |                                  | 64.7  | 71.7  | 83.0  | 90.4  | 91.7  | 94.4  | 96.4  | 97.2  | 97.9  | 97.9  | 98.0  | 98.1 | 98.1 | 98.1 | 98.1  |
| GE 800   |      |                                  | 64.7  | 71.7  | 83.2  | 90.9  | 92.1  | 94.9  | 96.9  | 97.7  | 98.3  | 98.3  | 98.4  | 98.6 | 98.6 | 98.6 | 98.6  |
| GE 700   |      |                                  | 64.7  | 71.7  | 83.6  | 91.3  | 92.7  | 95.4  | 97.4  | 98.2  | 98.9  | 98.9  | 99.0  | 99.1 | 99.1 | 99.1 | 99.1  |
| GE 600   |      |                                  | 64.7  | 71.7  | 83.6  | 91.3  | 92.7  | 95.4  | 97.4  | 98.2  | 98.9  | 98.9  | 99.0  | 99.1 | 99.1 | 99.1 | 99.1  |
| GE 500   |      |                                  | 64.7  | 71.7  | 83.6  | 91.3  | 92.6  | 95.7  | 97.8  | 98.7  | 99.6  | 99.6  | 99.7  | 99.8 | 99.8 | 99.8 | 99.8  |
| GE 400   |      |                                  | 64.7  | 71.7  | 83.6  | 91.3  | 92.8  | 95.7  | 97.8  | 98.7  | 99.6  | 99.6  | 99.7  | 99.8 | 99.8 | 99.8 | 99.8  |
| GE 300   |      |                                  | 64.7  | 71.7  | 83.6  | 91.3  | 92.8  | 95.7  | 97.9  | 98.8  | 99.7  | 99.7  | 99.8  | 99.9 | 99.9 | 99.9 | 99.9  |
| GE 200   |      |                                  | 64.7  | 71.7  | 83.6  | 91.3  | 92.8  | 95.7  | 97.9  | 98.8  | 99.7  | 99.7  | 99.8  | 99.9 | 99.9 | 99.9 | 100.0 |
| GE 100   |      |                                  | 64.7  | 71.7  | 83.6  | 91.3  | 92.8  | 95.7  | 97.9  | 98.8  | 99.7  | 99.7  | 99.8  | 99.9 | 99.9 | 99.9 | 100.0 |
| GE 0     |      |                                  | 64.7  | 71.7  | 83.6  | 91.3  | 92.6  | 95.7  | 97.9  | 98.8  | 99.7  | 99.7  | 99.8  | 99.9 | 99.9 | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: SEP

HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |    |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
|-----------------------|----------------------------------|----|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
|                       | 1                                | 6  | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE    | GE    | GE    | GE    | GE    |
|                       | 1                                | 16 | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16    | 12    | 10    | 8     | 5     | 4     |
| NO CEIL               |                                  |    | 24.8 | 25.9 | 29.7 | 32.3 | 32.9 | 33.6 | 34.0 | 34.0 | 34.0  | 34.0  | 34.0  | 34.0  | 34.0  | 34.0  |
| GE 20000              |                                  |    | 33.1 | 34.8 | 39.7 | 42.3 | 42.9 | 43.7 | 44.3 | 44.3 | 44.3  | 44.3  | 44.3  | 44.3  | 44.3  | 44.3  |
| GE 18000              |                                  |    | 33.2 | 34.9 | 39.9 | 42.6 | 43.1 | 43.9 | 44.6 | 44.6 | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  |
| GE 16000              |                                  |    | 33.2 | 34.9 | 39.9 | 42.6 | 43.1 | 43.9 | 44.6 | 44.6 | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  |
| GE 14000              |                                  |    | 33.6 | 35.2 | 40.2 | 42.9 | 43.4 | 44.2 | 44.9 | 44.9 | 44.9  | 44.9  | 44.9  | 44.9  | 44.9  | 44.9  |
| GE 12000              |                                  |    | 33.9 | 35.6 | 40.6 | 43.2 | 43.8 | 44.6 | 45.2 | 45.2 | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  |
| GE 10000              |                                  |    | 37.4 | 39.2 | 44.3 | 47.0 | 47.6 | 48.3 | 49.0 | 49.0 | 49.0  | 49.0  | 49.0  | 49.0  | 49.0  | 49.0  |
| GE 9000               |                                  |    | 38.8 | 40.7 | 45.8 | 48.8 | 49.3 | 50.1 | 50.8 | 50.8 | 50.8  | 50.8  | 50.8  | 50.8  | 50.8  | 50.8  |
| GE 8000               |                                  |    | 42.3 | 44.4 | 50.2 | 53.6 | 54.1 | 54.9 | 55.6 | 55.6 | 55.6  | 55.6  | 55.6  | 55.6  | 55.6  | 55.6  |
| GE 7000               |                                  |    | 43.0 | 45.1 | 50.9 | 54.2 | 54.8 | 55.6 | 56.2 | 56.2 | 56.2  | 56.2  | 56.2  | 56.2  | 56.2  | 56.2  |
| GE 6000               |                                  |    | 43.2 | 45.3 | 51.1 | 54.4 | 55.0 | 55.8 | 56.4 | 56.4 | 56.4  | 56.4  | 56.4  | 56.4  | 56.4  | 56.4  |
| GE 5000               |                                  |    | 46.2 | 48.3 | 54.2 | 57.7 | 58.2 | 59.0 | 59.7 | 59.7 | 59.7  | 59.7  | 59.7  | 59.7  | 59.7  | 59.7  |
| GE 4500               |                                  |    | 46.6 | 48.7 | 54.6 | 58.0 | 58.6 | 59.3 | 60.0 | 60.0 | 60.0  | 60.0  | 60.0  | 60.0  | 60.0  | 60.0  |
| GE 4000               |                                  |    | 54.8 | 57.7 | 63.9 | 67.7 | 68.3 | 69.1 | 69.8 | 69.8 | 69.8  | 69.8  | 69.8  | 69.8  | 69.8  | 69.8  |
| GE 3500               |                                  |    | 59.2 | 62.3 | 68.7 | 72.6 | 73.2 | 74.0 | 74.7 | 74.7 | 74.7  | 74.7  | 74.7  | 74.7  | 74.7  | 74.7  |
| GE 3000               |                                  |    | 68.0 | 71.8 | 79.3 | 83.6 | 84.4 | 85.2 | 85.9 | 85.9 | 85.9  | 85.9  | 85.9  | 85.9  | 85.9  | 85.9  |
| GE 2500               |                                  |    | 69.4 | 73.6 | 81.2 | 85.4 | 86.7 | 87.6 | 88.2 | 88.2 | 88.2  | 88.2  | 88.2  | 88.2  | 88.2  | 88.2  |
| GE 2000               |                                  |    | 70.8 | 75.8 | 84.1 | 89.0 | 90.2 | 91.1 | 91.8 | 91.8 | 91.9  | 91.9  | 91.9  | 91.9  | 91.9  | 91.9  |
| GE 1800               |                                  |    | 70.9 | 75.9 | 84.2 | 89.1 | 90.3 | 91.2 | 91.9 | 91.9 | 92.0  | 92.0  | 92.0  | 92.0  | 92.0  | 92.0  |
| GE 1500               |                                  |    | 71.9 | 77.1 | 85.7 | 90.6 | 92.0 | 93.0 | 93.7 | 93.7 | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  |
| GE 1200               |                                  |    | 72.2 | 77.4 | 86.8 | 91.9 | 93.3 | 94.9 | 95.9 | 95.9 | 96.0  | 96.0  | 96.0  | 96.0  | 96.0  | 96.0  |
| GE 1000               |                                  |    | 72.2 | 77.4 | 86.8 | 92.7 | 94.1 | 95.9 | 96.9 | 96.9 | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  |
| GE 900                |                                  |    | 72.4 | 77.7 | 87.0 | 93.1 | 94.6 | 96.6 | 97.6 | 97.6 | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  |
| GE 800                |                                  |    | 72.6 | 77.9 | 87.4 | 93.7 | 95.1 | 97.2 | 98.2 | 98.2 | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  |
| GE 700                |                                  |    | 72.6 | 77.9 | 87.6 | 94.2 | 95.7 | 97.9 | 98.9 | 98.9 | 99.0  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| GE 600                |                                  |    | 72.7 | 78.1 | 87.8 | 94.4 | 95.9 | 98.1 | 99.2 | 99.3 | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| GE 500                |                                  |    | 72.7 | 78.1 | 87.8 | 94.4 | 95.9 | 98.1 | 99.3 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 400                |                                  |    | 72.7 | 78.1 | 87.8 | 94.4 | 95.9 | 98.1 | 99.3 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 300                |                                  |    | 72.7 | 78.1 | 87.8 | 94.4 | 95.9 | 98.1 | 99.3 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200                |                                  |    | 72.7 | 78.1 | 87.8 | 94.4 | 95.9 | 98.1 | 99.3 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100                |                                  |    | 72.7 | 78.1 | 87.8 | 94.4 | 95.9 | 98.1 | 99.3 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 0                  |                                  |    | 72.7 | 78.1 | 87.8 | 94.4 | 95.9 | 98.1 | 99.3 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: C35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: SEP HOURS(IST): 1500-1700

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|----------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| IN       | FEET | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL  | I    | 24.4                             | 27.9     | 31.6     | 33.6     | 34.2     | 35.2     | 35.4     | 35.6     | 35.7     | 35.7     | 35.7     | 35.7     | 35.7    | 35.7    | 35.7    | 35.7    |
| GE 20000 | I    | 32.7                             | 37.2     | 42.3     | 44.8     | 45.4     | 46.6     | 46.8     | 46.9     | 47.0     | 47.0     | 47.0     | 47.0     | 47.0    | 47.0    | 47.0    | 47.0    |
| GE 18000 | I    | 33.2                             | 37.8     | 42.9     | 45.4     | 46.1     | 47.2     | 47.4     | 47.6     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7    | 47.7    | 47.7    | 47.7    |
| GE 16000 | I    | 33.4                             | 38.0     | 43.1     | 45.7     | 46.3     | 47.4     | 47.7     | 47.8     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9    | 47.9    | 47.9    | 47.9    |
| GE 14000 | I    | 33.8                             | 38.3     | 43.4     | 46.0     | 46.7     | 47.8     | 48.0     | 48.1     | 48.2     | 48.2     | 48.2     | 48.2     | 48.2    | 48.2    | 48.2    | 48.2    |
| GE 12000 | I    | 34.2                             | 38.9     | 44.0     | 46.6     | 47.2     | 48.3     | 48.6     | 48.7     | 48.8     | 48.8     | 48.8     | 48.8     | 48.8    | 48.8    | 48.8    | 48.8    |
| GE 10000 | I    | 36.8                             | 41.7     | 47.2     | 49.8     | 50.4     | 51.6     | 51.8     | 51.9     | 52.0     | 52.0     | 52.0     | 52.0     | 52.0    | 52.0    | 52.0    | 52.0    |
| GE 9000  | I    | 37.7                             | 42.6     | 48.1     | 50.9     | 51.6     | 52.7     | 52.9     | 53.0     | 53.1     | 53.1     | 53.1     | 53.1     | 53.1    | 53.1    | 53.1    | 53.1    |
| GE 8000  | I    | 40.7                             | 46.1     | 52.2     | 55.3     | 56.1     | 57.3     | 57.6     | 57.7     | 57.9     | 57.9     | 57.9     | 57.9     | 57.9    | 57.9    | 57.9    | 57.9    |
| GE 7000  | I    | 41.8                             | 47.8     | 54.0     | 57.1     | 57.9     | 59.1     | 59.3     | 59.4     | 59.7     | 59.7     | 59.7     | 59.7     | 59.7    | 59.7    | 59.7    | 59.7    |
| GE 6000  | I    | 41.9                             | 47.9     | 54.1     | 57.2     | 58.0     | 59.2     | 59.4     | 59.6     | 59.8     | 59.8     | 59.8     | 59.8     | 59.8    | 59.8    | 59.8    | 59.8    |
| GE 5000  | I    | 44.1                             | 50.6     | 57.0     | 60.1     | 60.9     | 62.2     | 62.4     | 62.6     | 62.8     | 62.8     | 62.8     | 62.8     | 62.8    | 62.8    | 62.8    | 62.8    |
| GE 4500  | I    | 45.2                             | 51.7     | 58.1     | 61.2     | 62.0     | 63.3     | 63.6     | 63.7     | 63.9     | 63.9     | 63.9     | 63.9     | 63.9    | 63.9    | 63.9    | 63.9    |
| GE 4000  | I    | 54.3                             | 61.2     | 69.0     | 72.8     | 73.6     | 74.9     | 75.1     | 75.3     | 75.7     | 75.7     | 75.7     | 75.7     | 75.7    | 75.7    | 75.7    | 75.7    |
| GE 3500  | I    | 58.4                             | 65.8     | 73.9     | 77.8     | 78.7     | 80.0     | 80.2     | 80.4     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8    | 80.8    | 80.8    | 80.8    |
| GE 3000  | I    | 65.4                             | 73.0     | 81.4     | 85.7     | 86.9     | 88.3     | 88.8     | 89.0     | 89.3     | 89.3     | 89.3     | 89.3     | 89.3    | 89.3    | 89.3    | 89.3    |
| GE 2500  | I    | 67.4                             | 75.4     | 84.2     | 88.4     | 89.7     | 91.1     | 91.6     | 91.8     | 92.1     | 92.1     | 92.1     | 92.1     | 92.1    | 92.1    | 92.1    | 92.1    |
| GE 2000  | I    | 68.9                             | 77.1     | 86.4     | 91.0     | 92.3     | 93.8     | 94.2     | 94.4     | 94.8     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8    | 94.8    |
| GE 1800  | I    | 68.9                             | 77.1     | 86.4     | 91.0     | 92.3     | 93.8     | 94.2     | 94.4     | 94.8     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8    | 94.8    |
| GE 1500  | I    | 69.6                             | 77.9     | 87.4     | 92.4     | 93.8     | 95.4     | 96.0     | 96.2     | 96.6     | 96.6     | 96.6     | 96.6     | 96.6    | 96.6    | 96.6    | 96.6    |
| GE 1200  | I    | 69.7                             | 78.0     | 87.7     | 93.1     | 94.6     | 96.3     | 96.9     | 97.2     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6    | 97.6    | 97.6    | 97.6    |
| GE 1000  | I    | 69.7                             | 78.0     | 87.7     | 93.1     | 94.6     | 96.3     | 96.9     | 97.2     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6    | 97.6    | 97.6    | 97.6    |
| GE 900   | I    | 69.7                             | 78.0     | 87.7     | 93.2     | 94.9     | 96.7     | 97.3     | 97.8     | 98.2     | 98.2     | 98.2     | 98.2     | 98.2    | 98.2    | 98.2    | 98.2    |
| GE 800   | I    | 69.7                             | 78.0     | 87.7     | 93.2     | 94.9     | 96.7     | 97.3     | 97.8     | 98.2     | 98.2     | 98.2     | 98.2     | 98.2    | 98.2    | 98.2    | 98.2    |
| GE 700   | I    | 69.7                             | 78.0     | 87.7     | 93.3     | 95.0     | 96.9     | 97.7     | 98.2     | 98.7     | 98.7     | 98.7     | 98.7     | 98.7    | 98.7    | 98.7    | 98.7    |
| GE 600   | I    | 69.8                             | 78.1     | 87.8     | 93.4     | 95.1     | 97.2     | 98.0     | 98.6     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0    | 99.0    | 99.0    | 99.0    |
| GE 500   | I    | 69.8                             | 78.1     | 87.8     | 93.6     | 95.2     | 97.3     | 98.4     | 99.1     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    |
| GE 400   | I    | 69.8                             | 78.1     | 87.8     | 93.6     | 95.2     | 97.3     | 98.6     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 300   | I    | 69.8                             | 78.1     | 87.8     | 93.6     | 95.2     | 97.3     | 98.6     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 200   | I    | 69.8                             | 78.1     | 87.8     | 93.6     | 95.2     | 97.3     | 98.6     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 100   | I    | 69.8                             | 78.1     | 87.8     | 93.6     | 95.2     | 97.3     | 98.6     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 0     | I    | 69.8                             | 78.1     | 87.8     | 93.6     | 95.2     | 97.3     | 98.6     | 99.2     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS(151): 1800-2100

| CEILING  |        | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|--------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN FEET  | GT 160 | GE 90                            | GE 80 | GE 60 | GE 48 | GE 40 | GL 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  |        | 29.7                             | 32.9  | 38.1  | 40.4  | 41.8  | 43.1  | 44.1  | 44.2  | 44.9  | 44.9  | 44.9  | 44.9 | 45.0 | 45.0 | 45.1  |
| GE 20000 |        | 34.2                             | 37.6  | 44.3  | 47.1  | 48.4  | 49.9  | 51.1  | 51.2  | 52.1  | 52.1  | 52.1  | 52.1 | 52.2 | 52.2 | 52.3  |
| GE 18000 |        | 34.2                             | 37.6  | 44.3  | 47.1  | 48.4  | 49.9  | 51.1  | 51.2  | 52.1  | 52.1  | 52.1  | 52.1 | 52.2 | 52.2 | 52.3  |
| GE 16000 |        | 34.2                             | 37.6  | 44.3  | 47.1  | 48.4  | 49.9  | 51.1  | 51.2  | 52.1  | 52.1  | 52.1  | 52.1 | 52.2 | 52.2 | 52.3  |
| GE 14000 |        | 34.6                             | 37.9  | 44.7  | 47.4  | 48.8  | 50.2  | 51.4  | 51.6  | 52.4  | 52.4  | 52.4  | 52.4 | 52.6 | 52.6 | 52.7  |
| GE 12000 |        | 35.0                             | 38.4  | 45.2  | 48.0  | 49.3  | 50.8  | 52.0  | 52.1  | 53.0  | 53.0  | 53.0  | 53.0 | 53.1 | 53.1 | 53.2  |
| GE 10000 |        | 37.8                             | 41.4  | 48.7  | 51.4  | 52.8  | 54.2  | 55.4  | 55.6  | 56.4  | 56.4  | 56.4  | 56.4 | 56.6 | 56.6 | 56.7  |
| GE 9000  |        | 38.1                             | 41.9  | 49.3  | 52.2  | 53.7  | 55.2  | 56.4  | 56.6  | 57.4  | 57.4  | 57.4  | 57.4 | 57.6 | 57.6 | 57.7  |
| GE 8000  |        | 41.7                             | 46.0  | 54.8  | 58.0  | 59.6  | 61.3  | 62.6  | 62.7  | 63.6  | 63.6  | 63.6  | 63.6 | 63.7 | 63.7 | 63.8  |
| GE 7000  |        | 42.7                             | 47.2  | 56.4  | 59.7  | 61.2  | 63.0  | 64.2  | 64.3  | 65.2  | 65.2  | 65.2  | 65.2 | 65.3 | 65.3 | 65.4  |
| GE 6000  |        | 43.0                             | 47.6  | 56.8  | 60.0  | 61.6  | 63.3  | 64.6  | 64.7  | 65.6  | 65.6  | 65.6  | 65.6 | 65.7 | 65.7 | 65.8  |
| GE 5000  |        | 44.9                             | 49.9  | 59.3  | 62.7  | 64.2  | 66.0  | 67.3  | 67.4  | 68.3  | 68.3  | 68.3  | 68.3 | 68.4 | 68.4 | 68.6  |
| GE 4500  |        | 46.0                             | 51.0  | 60.7  | 64.0  | 65.6  | 67.3  | 68.7  | 68.8  | 69.7  | 69.7  | 69.7  | 69.7 | 69.8 | 69.8 | 69.9  |
| GE 4000  |        | 53.0                             | 59.0  | 70.6  | 74.1  | 75.8  | 77.6  | 79.0  | 79.1  | 80.0  | 80.0  | 80.0  | 80.0 | 80.1 | 80.1 | 80.2  |
| GE 3500  |        | 55.6                             | 61.9  | 73.7  | 77.2  | 78.9  | 80.9  | 82.4  | 82.6  | 83.4  | 83.4  | 83.4  | 83.4 | 83.6 | 83.6 | 83.7  |
| GE 3000  |        | 60.0                             | 66.9  | 79.0  | 82.9  | 84.8  | 86.9  | 88.7  | 88.8  | 90.0  | 90.1  | 90.1  | 90.1 | 90.2 | 90.2 | 90.3  |
| GE 2500  |        | 60.7                             | 67.8  | 80.2  | 84.4  | 86.3  | 88.4  | 90.2  | 90.3  | 91.6  | 91.7  | 91.7  | 91.7 | 91.8 | 91.8 | 91.9  |
| GE 2000  |        | 61.3                             | 68.7  | 81.2  | 86.0  | 87.9  | 90.0  | 91.9  | 92.0  | 93.2  | 93.3  | 93.3  | 93.3 | 93.4 | 93.4 | 93.6  |
| GE 1800  |        | 61.3                             | 68.7  | 81.2  | 86.0  | 87.9  | 90.0  | 91.9  | 92.0  | 93.2  | 93.3  | 93.3  | 93.3 | 93.4 | 93.4 | 93.6  |
| GE 1500  |        | 61.7                             | 69.1  | 82.1  | 86.9  | 88.8  | 91.0  | 92.9  | 93.0  | 94.2  | 94.3  | 94.3  | 94.3 | 94.4 | 94.4 | 94.6  |
| GE 1200  |        | 61.9                             | 69.3  | 82.4  | 87.6  | 89.4  | 91.9  | 93.8  | 93.9  | 95.1  | 95.2  | 95.2  | 95.2 | 95.3 | 95.3 | 95.4  |
| GE 1000  |        | 61.9                             | 69.3  | 82.9  | 88.1  | 90.0  | 92.4  | 94.6  | 94.8  | 96.0  | 96.1  | 96.1  | 96.1 | 96.2 | 96.2 | 96.3  |
| GE 900   |        | 61.9                             | 69.3  | 82.9  | 88.4  | 90.6  | 93.0  | 95.1  | 95.3  | 96.6  | 96.7  | 96.7  | 96.7 | 96.8 | 96.8 | 96.9  |
| GE 800   |        | 62.0                             | 69.4  | 83.0  | 88.6  | 90.8  | 93.2  | 95.4  | 95.7  | 96.9  | 97.0  | 97.0  | 97.0 | 97.1 | 97.1 | 97.2  |
| GE 700   |        | 62.0                             | 69.4  | 83.1  | 88.8  | 91.1  | 93.6  | 95.8  | 96.3  | 97.9  | 98.0  | 98.0  | 98.0 | 98.1 | 98.1 | 98.2  |
| GE 600   |        | 62.0                             | 69.4  | 83.1  | 88.8  | 91.1  | 93.6  | 95.9  | 96.6  | 98.2  | 98.3  | 98.3  | 98.3 | 98.4 | 98.4 | 98.6  |
| GE 500   |        | 62.0                             | 69.4  | 83.1  | 88.8  | 91.1  | 93.6  | 96.1  | 97.3  | 99.0  | 99.1  | 99.1  | 99.1 | 99.2 | 99.2 | 99.3  |
| GE 400   |        | 62.0                             | 69.4  | 83.1  | 88.9  | 91.2  | 93.7  | 96.2  | 97.4  | 99.1  | 99.2  | 99.2  | 99.2 | 99.3 | 99.4 | 99.6  |
| GE 300   |        | 62.0                             | 69.4  | 83.1  | 88.9  | 91.2  | 93.7  | 96.2  | 97.4  | 99.1  | 99.2  | 99.2  | 99.2 | 99.6 | 99.7 | 99.8  |
| GE 200   |        | 62.0                             | 69.4  | 83.1  | 88.9  | 91.2  | 93.7  | 96.2  | 97.4  | 99.1  | 99.2  | 99.2  | 99.2 | 99.6 | 99.7 | 99.8  |
| GE 100   |        | 62.0                             | 69.4  | 83.1  | 88.9  | 91.2  | 93.7  | 96.2  | 97.4  | 99.1  | 99.2  | 99.2  | 99.2 | 99.6 | 99.7 | 100.0 |
| GE       |        | 62.0                             | 69.4  | 83.1  | 88.9  | 91.2  | 93.7  | 96.2  | 97.4  | 99.1  | 99.2  | 99.2  | 99.2 | 99.6 | 99.7 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: SEP HOURS(LST): 2100-2300

| CEILING  |   | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|---|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN FEET  | 1 | GE 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  | 1 |                                  | 36.1  | 39.6  | 46.2  | 49.0  | 49.9  | 52.8  | 53.4  | 53.4  | 54.3  | 54.3  | 54.4  | 54.4 | 54.9 | 54.9 | 54.9  |
| GE 20000 |   |                                  | 38.3  | 42.2  | 50.2  | 53.0  | 53.9  | 57.0  | 57.7  | 57.8  | 58.9  | 58.9  | 59.1  | 59.1 | 59.6 | 59.6 | 59.6  |
| GE 18000 |   |                                  | 38.6  | 42.4  | 50.4  | 53.2  | 54.1  | 57.2  | 57.9  | 58.0  | 59.1  | 59.1  | 59.3  | 59.3 | 59.8 | 59.8 | 59.8  |
| GE 16000 |   |                                  | 38.6  | 42.4  | 50.4  | 53.2  | 54.1  | 57.2  | 57.9  | 58.0  | 59.1  | 59.1  | 59.3  | 59.3 | 59.8 | 59.8 | 59.8  |
| GE 14000 |   |                                  | 38.6  | 42.4  | 50.4  | 53.2  | 54.1  | 57.2  | 57.9  | 58.0  | 59.1  | 59.1  | 59.3  | 59.3 | 59.8 | 59.8 | 59.8  |
| GE 12000 |   |                                  | 38.9  | 42.9  | 50.9  | 53.7  | 54.6  | 57.7  | 58.3  | 58.4  | 59.6  | 59.6  | 59.8  | 59.8 | 60.2 | 60.2 | 60.2  |
| GE 10000 |   |                                  | 41.1  | 45.3  | 54.0  | 56.8  | 57.7  | 60.8  | 61.4  | 61.6  | 62.7  | 62.7  | 62.9  | 62.9 | 63.3 | 63.3 | 63.3  |
| GE 9000  |   |                                  | 41.7  | 45.9  | 54.6  | 57.3  | 58.4  | 61.7  | 62.3  | 62.4  | 63.6  | 63.6  | 63.8  | 63.8 | 64.2 | 64.2 | 64.2  |
| GE 8000  |   |                                  | 45.6  | 49.9  | 59.9  | 63.1  | 64.2  | 67.8  | 68.6  | 68.8  | 69.9  | 69.9  | 70.1  | 70.1 | 70.6 | 70.6 | 70.6  |
| GE 7000  |   |                                  | 46.7  | 51.1  | 61.6  | 64.8  | 65.9  | 69.4  | 70.2  | 70.4  | 71.6  | 71.6  | 71.8  | 71.8 | 72.2 | 72.2 | 72.2  |
| GE 6000  |   |                                  | 46.7  | 51.1  | 61.6  | 64.8  | 65.9  | 69.4  | 70.2  | 70.4  | 71.6  | 71.6  | 71.8  | 71.8 | 72.2 | 72.2 | 72.2  |
| GE 5000  |   |                                  | 48.4  | 52.9  | 63.6  | 66.8  | 67.9  | 71.4  | 72.2  | 72.4  | 73.7  | 73.7  | 73.9  | 73.9 | 74.3 | 74.3 | 74.3  |
| GE 4500  |   |                                  | 48.4  | 52.9  | 63.6  | 67.0  | 68.1  | 71.7  | 72.4  | 72.7  | 73.9  | 73.9  | 74.1  | 74.1 | 74.6 | 74.6 | 74.6  |
| GE 4000  |   |                                  | 53.2  | 58.3  | 69.7  | 73.1  | 74.2  | 77.8  | 78.8  | 79.0  | 80.2  | 80.2  | 80.4  | 80.4 | 80.9 | 80.9 | 80.9  |
| GE 3500  |   |                                  | 55.3  | 60.6  | 72.7  | 76.1  | 77.2  | 80.8  | 81.9  | 82.1  | 83.3  | 83.3  | 83.6  | 83.6 | 84.0 | 84.0 | 84.0  |
| GE 3000  |   |                                  | 59.3  | 64.9  | 77.8  | 81.8  | 82.9  | 86.7  | 87.8  | 88.0  | 89.7  | 89.7  | 89.9  | 89.9 | 90.3 | 90.3 | 90.3  |
| GE 2500  |   |                                  | 59.7  | 65.2  | 79.2  | 83.3  | 84.4  | 88.2  | 89.3  | 89.6  | 91.2  | 91.2  | 91.4  | 91.4 | 91.9 | 91.9 | 91.9  |
| GE 2000  |   |                                  | 60.4  | 66.1  | 80.3  | 84.4  | 85.6  | 89.3  | 91.0  | 91.2  | 92.9  | 92.9  | 93.1  | 93.1 | 93.6 | 93.6 | 93.6  |
| GE 1800  |   |                                  | 60.6  | 66.2  | 80.4  | 84.6  | 85.7  | 89.4  | 91.1  | 91.3  | 93.0  | 93.0  | 93.2  | 93.2 | 93.7 | 93.7 | 93.7  |
| GE 1500  |   |                                  | 60.8  | 66.7  | 81.3  | 85.7  | 86.8  | 90.6  | 92.2  | 92.4  | 94.1  | 94.1  | 94.3  | 94.3 | 94.8 | 94.8 | 94.8  |
| GE 1200  |   |                                  | 60.8  | 66.8  | 81.6  | 86.0  | 87.1  | 90.9  | 92.6  | 92.8  | 94.4  | 94.4  | 94.7  | 94.7 | 95.1 | 95.1 | 95.1  |
| GE 1000  |   |                                  | 60.9  | 66.9  | 82.1  | 86.6  | 87.7  | 91.4  | 93.2  | 93.4  | 95.2  | 95.2  | 95.4  | 95.4 | 95.9 | 95.9 | 95.9  |
| GE 900   |   |                                  | 60.9  | 66.9  | 82.2  | 86.7  | 87.8  | 91.6  | 93.3  | 93.6  | 95.3  | 95.3  | 95.6  | 95.6 | 96.0 | 96.0 | 96.0  |
| GE 800   |   |                                  | 60.9  | 67.0  | 82.9  | 87.3  | 88.4  | 92.2  | 94.1  | 94.3  | 96.3  | 96.3  | 96.6  | 96.6 | 97.0 | 97.0 | 97.0  |
| GE 700   |   |                                  | 60.9  | 67.0  | 83.1  | 87.8  | 88.9  | 92.9  | 94.8  | 95.3  | 97.3  | 97.3  | 97.6  | 97.6 | 98.1 | 98.1 | 98.1  |
| GE 600   |   |                                  | 60.9  | 67.0  | 83.1  | 87.8  | 88.9  | 92.9  | 95.2  | 95.8  | 97.8  | 97.8  | 98.0  | 98.0 | 98.6 | 98.6 | 98.6  |
| GE 500   |   |                                  | 60.9  | 67.0  | 83.1  | 87.9  | 89.1  | 93.1  | 95.4  | 96.4  | 98.4  | 98.4  | 98.7  | 98.8 | 99.2 | 99.2 | 99.2  |
| GE 400   |   |                                  | 60.9  | 67.0  | 83.1  | 87.9  | 89.1  | 93.1  | 95.4  | 96.4  | 98.4  | 98.4  | 98.7  | 98.8 | 99.2 | 99.2 | 99.2  |
| GE 300   |   |                                  | 60.9  | 67.0  | 83.1  | 87.9  | 89.1  | 93.1  | 95.4  | 96.6  | 98.6  | 98.6  | 98.8  | 98.9 | 99.3 | 99.3 | 99.3  |
| GE 200   |   |                                  | 60.9  | 67.0  | 83.1  | 87.9  | 89.1  | 93.1  | 95.4  | 96.6  | 98.6  | 98.6  | 98.9  | 99.0 | 99.4 | 99.6 | 99.7  |
| GE 100   |   |                                  | 60.9  | 67.0  | 83.1  | 87.9  | 89.1  | 93.1  | 95.4  | 96.6  | 98.6  | 98.6  | 98.9  | 99.0 | 99.4 | 99.6 | 100.0 |
| GE 70    |   |                                  | 60.9  | 67.0  | 83.1  | 87.9  | 89.1  | 93.1  | 95.4  | 96.6  | 98.6  | 98.6  | 98.9  | 99.0 | 99.4 | 99.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: C35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS: 1511: ALL

| CEILING |    | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|---------|----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| IN      | GT | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    |
| FEET    | 1  | 16C                              | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     |
| NO CEIL | 1  |                                  | 28.5 | 31.4 | 36.5 | 39.3 | 40.2 | 41.8 | 42.8 | 43.0 | 43.8 | 43.9 | 44.0 | 44.1 | 44.4 | 44.5 | 44.7  |
| GE 2000 |    |                                  | 33.6 | 37.0 | 43.2 | 46.3 | 47.3 | 49.2 | 50.3 | 50.6 | 51.5 | 51.6 | 51.8 | 51.9 | 52.2 | 52.3 | 52.5  |
| GE 1800 |    |                                  | 33.8 | 37.2 | 43.4 | 46.6 | 47.5 | 49.4 | 50.5 | 50.9 | 51.7 | 51.8 | 52.0 | 52.2 | 52.4 | 52.5 | 52.7  |
| GE 1600 |    |                                  | 33.8 | 37.2 | 43.4 | 46.6 | 47.6 | 49.4 | 50.6 | 50.9 | 51.7 | 51.9 | 52.0 | 52.2 | 52.4 | 52.6 | 52.8  |
| GE 1400 |    |                                  | 34.0 | 37.3 | 43.6 | 46.7 | 47.7 | 49.6 | 50.7 | 51.0 | 51.9 | 52.0 | 52.2 | 52.3 | 52.6 | 52.7 | 52.9  |
| GE 1200 |    |                                  | 34.4 | 37.8 | 44.1 | 47.3 | 48.3 | 50.1 | 51.2 | 51.6 | 52.4 | 52.6 | 52.7 | 52.9 | 53.1 | 53.3 | 53.5  |
| GE 1000 |    |                                  | 36.6 | 40.3 | 47.0 | 50.2 | 51.2 | 53.1 | 54.2 | 54.6 | 55.5 | 55.6 | 55.8 | 55.9 | 56.2 | 56.3 | 56.5  |
| GE 900  |    |                                  | 37.2 | 40.9 | 47.7 | 51.1 | 52.2 | 54.1 | 55.3 | 55.6 | 56.5 | 56.6 | 56.8 | 57.0 | 57.2 | 57.3 | 57.5  |
| GE 800  |    |                                  | 40.6 | 44.6 | 52.3 | 56.0 | 57.2 | 59.4 | 60.6 | 61.0 | 61.9 | 62.1 | 62.3 | 62.4 | 62.7 | 62.8 | 63.0  |
| GE 700  |    |                                  | 41.5 | 45.8 | 53.7 | 57.4 | 58.6 | 60.8 | 62.0 | 62.4 | 63.3 | 63.5 | 63.7 | 63.9 | 64.1 | 64.2 | 64.4  |
| GE 600  |    |                                  | 41.6 | 45.9 | 53.8 | 57.5 | 58.7 | 60.9 | 62.1 | 62.5 | 63.4 | 63.6 | 63.8 | 63.9 | 64.2 | 64.3 | 64.5  |
| GE 500  |    |                                  | 43.9 | 48.5 | 56.6 | 60.6 | 61.8 | 64.0 | 65.3 | 65.7 | 66.6 | 66.8 | 67.0 | 67.1 | 67.4 | 67.5 | 67.7  |
| GE 450  |    |                                  | 44.3 | 48.9 | 57.1 | 61.2 | 62.4 | 64.7 | 66.0 | 66.4 | 67.4 | 67.5 | 67.7 | 67.9 | 68.1 | 68.2 | 68.4  |
| GE 400  |    |                                  | 50.4 | 55.6 | 65.0 | 69.4 | 70.7 | 73.0 | 74.5 | 74.9 | 75.9 | 76.1 | 76.3 | 76.5 | 76.7 | 76.8 | 77.0  |
| GE 350  |    |                                  | 53.3 | 58.7 | 68.5 | 73.6 | 74.3 | 76.6 | 78.1 | 78.6 | 79.6 | 79.7 | 79.9 | 80.1 | 80.4 | 80.5 | 80.7  |
| GE 300  |    |                                  | 58.4 | 64.3 | 74.8 | 79.8 | 81.2 | 83.6 | 85.3 | 85.7 | 86.8 | 87.0 | 87.2 | 87.4 | 87.7 | 87.8 | 88.0  |
| GE 250  |    |                                  | 59.2 | 65.2 | 76.1 | 81.2 | 82.6 | 85.1 | 86.8 | 87.2 | 88.4 | 88.5 | 88.7 | 88.9 | 89.2 | 89.3 | 89.5  |
| GE 200  |    |                                  | 60.6 | 67.0 | 78.3 | 83.6 | 85.1 | 87.7 | 89.5 | 89.9 | 91.1 | 91.3 | 91.5 | 91.7 | 92.0 | 92.1 | 92.3  |
| GE 180  |    |                                  | 60.7 | 67.0 | 78.3 | 83.7 | 85.2 | 87.7 | 89.5 | 90.7 | 91.2 | 91.4 | 91.6 | 91.8 | 92.0 | 92.2 | 92.4  |
| GE 150  |    |                                  | 61.2 | 67.6 | 79.3 | 84.8 | 86.3 | 88.9 | 90.8 | 91.3 | 92.5 | 92.7 | 92.9 | 93.0 | 93.3 | 93.4 | 93.7  |
| GE 120  |    |                                  | 61.5 | 68.2 | 80.2 | 85.8 | 87.4 | 90.2 | 92.1 | 92.6 | 93.9 | 94.1 | 94.3 | 94.5 | 94.8 | 94.9 | 95.1  |
| GE 100  |    |                                  | 61.6 | 68.3 | 80.6 | 86.5 | 88.1 | 91.0 | 93.0 | 93.5 | 94.8 | 95.0 | 95.2 | 95.4 | 95.7 | 95.8 | 96.0  |
| GE 90   |    |                                  | 61.7 | 68.4 | 80.8 | 86.8 | 88.4 | 91.4 | 93.5 | 94.0 | 95.3 | 95.5 | 95.7 | 95.9 | 96.2 | 96.3 | 96.5  |
| GE 80   |    |                                  | 61.7 | 68.5 | 81.0 | 87.0 | 88.7 | 91.8 | 93.9 | 94.4 | 95.8 | 96.0 | 96.2 | 96.4 | 96.7 | 96.8 | 97.0  |
| GE 70   |    |                                  | 61.8 | 68.6 | 81.2 | 87.5 | 89.2 | 92.3 | 94.5 | 95.1 | 96.6 | 96.8 | 97.0 | 97.2 | 97.5 | 97.6 | 97.8  |
| GE 60   |    |                                  | 61.8 | 68.7 | 81.3 | 87.6 | 89.4 | 92.7 | 95.0 | 95.6 | 97.1 | 97.3 | 97.6 | 97.8 | 98.1 | 98.2 | 98.4  |
| GE 50   |    |                                  | 61.9 | 68.7 | 81.4 | 87.7 | 89.5 | 92.9 | 95.4 | 96.3 | 98.0 | 98.2 | 98.4 | 98.6 | 98.9 | 99.1 | 99.3  |
| GE 40   |    |                                  | 61.9 | 68.7 | 81.4 | 87.7 | 89.5 | 93.0 | 95.6 | 96.5 | 98.2 | 98.4 | 98.7 | 98.9 | 99.2 | 99.3 | 99.5  |
| GE 30   |    |                                  | 61.9 | 68.7 | 81.4 | 87.7 | 89.5 | 93.0 | 95.6 | 96.5 | 98.3 | 98.5 | 98.7 | 99.0 | 99.3 | 99.5 | 99.7  |
| GE 20   |    |                                  | 61.9 | 68.7 | 81.4 | 87.7 | 89.5 | 93.0 | 95.6 | 96.5 | 98.3 | 98.5 | 98.8 | 99.1 | 99.4 | 99.5 | 99.9  |
| GE 10   |    |                                  | 61.9 | 68.7 | 81.4 | 87.7 | 89.5 | 93.0 | 95.6 | 96.5 | 98.3 | 98.5 | 98.8 | 99.1 | 99.4 | 99.5 | 100.0 |
| GE      |    |                                  | 61.9 | 68.7 | 81.4 | 87.7 | 89.5 | 93.0 | 95.6 | 96.5 | 98.3 | 98.5 | 98.8 | 99.1 | 99.4 | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 7200

GLOBAL CLIMATOLOGY BRANCH  
LSAFETYAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: OCT HOURS(LST): 0000-0600

| CEILING<br>IN<br>FEET |   | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|---|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | 1 | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 1 |                                  | 33.2     | 37.0     | 42.3     | 44.2     | 44.4     | 45.6     | 46.5     | 46.6     | 46.7     | 46.7     | 46.7     | 46.8    | 46.9    | 46.9    | 47.4    |
| GE 20000              |   |                                  | 34.7     | 39.2     | 45.5     | 47.4     | 47.6     | 48.8     | 49.7     | 49.8     | 49.9     | 50.0     | 50.0     | 50.1    | 50.2    | 50.2    | 50.8    |
| GE 18000              |   |                                  | 34.7     | 39.2     | 45.5     | 47.4     | 47.6     | 48.8     | 49.7     | 49.8     | 49.9     | 50.0     | 50.0     | 50.1    | 50.2    | 50.2    | 50.8    |
| GE 16000              |   |                                  | 34.7     | 39.2     | 45.5     | 47.4     | 47.6     | 48.8     | 49.7     | 49.8     | 49.9     | 50.0     | 50.0     | 50.1    | 50.2    | 50.2    | 50.8    |
| GE 14000              |   |                                  | 34.7     | 39.2     | 45.5     | 47.4     | 47.6     | 48.8     | 49.7     | 49.8     | 49.9     | 50.0     | 50.0     | 50.1    | 50.2    | 50.2    | 50.8    |
| GE 12000              |   |                                  | 34.7     | 39.2     | 45.5     | 47.4     | 47.6     | 48.8     | 49.7     | 49.8     | 49.9     | 50.0     | 50.0     | 50.1    | 50.2    | 50.2    | 50.8    |
| GE 10000              |   |                                  | 35.6     | 40.3     | 46.7     | 48.6     | 48.8     | 50.0     | 50.9     | 51.0     | 51.1     | 51.2     | 51.2     | 51.3    | 51.4    | 51.4    | 51.9    |
| GE 9000               |   |                                  | 35.8     | 40.6     | 47.0     | 48.9     | 49.1     | 50.3     | 51.2     | 51.3     | 51.4     | 51.5     | 51.5     | 51.6    | 51.7    | 51.7    | 52.3    |
| GE 8000               |   |                                  | 39.8     | 44.9     | 51.9     | 54.1     | 54.4     | 56.3     | 57.4     | 57.8     | 58.1     | 58.2     | 58.2     | 58.3    | 58.4    | 58.4    | 58.9    |
| GE 7000               |   |                                  | 40.1     | 45.4     | 52.4     | 54.6     | 54.9     | 56.9     | 58.0     | 58.4     | 58.6     | 58.7     | 58.7     | 58.8    | 58.9    | 58.9    | 59.5    |
| GE 6000               |   |                                  | 40.1     | 45.4     | 52.4     | 54.6     | 54.9     | 56.9     | 58.0     | 58.4     | 58.6     | 58.7     | 58.7     | 58.8    | 58.9    | 58.9    | 59.5    |
| GE 5000               |   |                                  | 41.4     | 47.2     | 54.3     | 56.7     | 57.0     | 58.9     | 60.0     | 60.4     | 60.8     | 60.9     | 60.9     | 61.0    | 61.1    | 61.1    | 61.6    |
| GE 4500               |   |                                  | 41.6     | 47.4     | 54.6     | 57.1     | 57.4     | 59.4     | 60.4     | 60.9     | 61.2     | 61.3     | 61.3     | 61.4    | 61.5    | 61.5    | 62.0    |
| GE 4000               |   |                                  | 44.8     | 51.1     | 59.7     | 63.0     | 63.3     | 65.3     | 66.3     | 66.8     | 67.1     | 67.2     | 67.2     | 67.6    | 67.7    | 67.7    | 68.3    |
| GE 3500               |   |                                  | 47.2     | 53.7     | 63.1     | 66.6     | 66.9     | 68.8     | 69.9     | 70.3     | 70.6     | 70.8     | 70.8     | 71.2    | 71.3    | 71.3    | 71.8    |
| GE 3000               |   |                                  | 52.3     | 59.6     | 70.5     | 74.6     | 75.4     | 77.6     | 79.7     | 80.1     | 80.4     | 80.5     | 80.5     | 81.0    | 81.1    | 81.1    | 81.6    |
| GE 2500               |   |                                  | 52.9     | 60.3     | 71.3     | 75.5     | 76.6     | 79.0     | 81.2     | 81.6     | 81.9     | 82.0     | 82.0     | 82.5    | 82.6    | 82.6    | 83.1    |
| GE 2000               |   |                                  | 53.8     | 61.9     | 74.1     | 78.9     | 80.1     | 82.9     | 85.6     | 86.0     | 86.5     | 86.6     | 86.6     | 87.0    | 87.1    | 87.1    | 87.6    |
| GE 1800               |   |                                  | 53.8     | 61.9     | 74.1     | 78.9     | 80.1     | 82.9     | 85.6     | 86.0     | 86.5     | 86.6     | 86.6     | 87.0    | 87.1    | 87.1    | 87.6    |
| GE 1500               |   |                                  | 55.3     | 64.0     | 77.1     | 82.0     | 83.2     | 86.1     | 88.8     | 89.2     | 89.7     | 89.8     | 89.8     | 90.2    | 90.3    | 90.3    | 90.9    |
| GE 1200               |   |                                  | 55.9     | 65.1     | 78.6     | 84.1     | 85.3     | 88.2     | 90.9     | 91.3     | 91.7     | 91.8     | 91.8     | 92.3    | 92.4    | 92.4    | 92.9    |
| GE 1000               |   |                                  | 56.0     | 65.2     | 79.0     | 84.9     | 86.2     | 89.2     | 91.9     | 92.4     | 92.8     | 92.9     | 92.9     | 93.3    | 93.4    | 93.4    | 94.0    |
| GE 900                |   |                                  | 56.0     | 65.2     | 79.0     | 84.9     | 86.3     | 89.4     | 92.3     | 92.7     | 93.1     | 93.2     | 93.2     | 93.7    | 93.8    | 93.8    | 94.3    |
| GE 800                |   |                                  | 56.0     | 65.2     | 79.2     | 85.2     | 86.6     | 89.7     | 92.6     | 93.0     | 93.4     | 93.5     | 93.5     | 94.0    | 94.1    | 94.1    | 94.6    |
| GE 700                |   |                                  | 56.1     | 65.3     | 79.6     | 85.7     | 87.2     | 90.5     | 93.9     | 94.8     | 95.3     | 95.4     | 95.4     | 95.8    | 95.9    | 95.9    | 96.5    |
| GE 600                |   |                                  | 56.1     | 65.3     | 79.6     | 85.9     | 87.4     | 90.8     | 94.2     | 95.4     | 95.8     | 95.9     | 95.9     | 96.3    | 96.5    | 96.5    | 97.0    |
| GE 500                |   |                                  | 56.1     | 65.3     | 79.6     | 86.2     | 87.7     | 91.3     | 94.7     | 96.1     | 96.6     | 96.8     | 96.8     | 97.2    | 97.3    | 97.3    | 97.8    |
| GE 400                |   |                                  | 56.1     | 65.3     | 79.6     | 86.5     | 88.0     | 91.5     | 94.9     | 96.3     | 96.8     | 97.0     | 97.0     | 97.4    | 97.5    | 97.5    | 98.0    |
| GE 300                |   |                                  | 56.1     | 65.3     | 79.6     | 86.6     | 88.1     | 91.6     | 95.1     | 96.5     | 96.9     | 97.1     | 97.1     | 97.5    | 97.6    | 97.6    | 98.1    |
| GE 200                |   |                                  | 56.1     | 65.3     | 79.6     | 86.6     | 88.1     | 91.6     | 95.1     | 96.6     | 97.1     | 97.3     | 97.3     | 97.7    | 97.8    | 97.8    | 98.3    |
| GE 100                |   |                                  | 56.1     | 65.3     | 79.6     | 86.6     | 88.1     | 91.6     | 95.1     | 96.6     | 97.1     | 97.3     | 97.3     | 97.7    | 97.8    | 97.8    | 98.3    |
| GE                    | 0 |                                  | 56.1     | 65.3     | 79.6     | 86.6     | 88.1     | 91.6     | 95.1     | 96.6     | 97.1     | 97.3     | 97.3     | 97.7    | 97.8    | 97.8    | 98.3    |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(IST): 0300-0500

| CEILING<br>IN<br>FEET |  | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|--|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       |  | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |  |                                  | 32.4     | 36.6     | 40.0     | 41.9     | 43.2     | 45.1     | 46.0     | 46.5     | 47.1     | 47.2     | 47.3     | 47.5    | 47.6    | 47.6    | 48.3    |
| GE 20000              |  |                                  | 34.4     | 38.7     | 42.7     | 44.7     | 46.0     | 48.0     | 48.9     | 49.4     | 50.0     | 50.1     | 50.2     | 50.4    | 50.5    | 50.5    | 51.2    |
| GE 18000              |  |                                  | 34.4     | 38.7     | 42.7     | 44.7     | 46.0     | 48.0     | 48.9     | 49.4     | 50.0     | 50.1     | 50.2     | 50.4    | 50.5    | 50.5    | 51.2    |
| GE 16000              |  |                                  | 34.4     | 38.7     | 42.7     | 44.7     | 46.0     | 48.0     | 48.9     | 49.4     | 50.0     | 50.1     | 50.2     | 50.4    | 50.5    | 50.5    | 51.2    |
| GE 14000              |  |                                  | 34.4     | 38.7     | 42.7     | 44.7     | 46.0     | 48.0     | 48.9     | 49.4     | 50.0     | 50.1     | 50.2     | 50.4    | 50.5    | 50.5    | 51.2    |
| GE 12000              |  |                                  | 34.5     | 38.8     | 42.8     | 44.8     | 46.1     | 48.1     | 49.0     | 49.5     | 50.1     | 50.2     | 50.3     | 50.5    | 50.6    | 50.6    | 51.3    |
| GE 10000              |  |                                  | 35.6     | 39.9     | 44.4     | 46.5     | 47.7     | 49.7     | 50.6     | 51.1     | 51.7     | 51.8     | 51.9     | 52.2    | 52.3    | 52.3    | 52.9    |
| GE 9000               |  |                                  | 36.0     | 40.3     | 44.8     | 46.9     | 48.2     | 50.1     | 51.1     | 51.5     | 52.2     | 52.3     | 52.4     | 52.6    | 52.7    | 52.7    | 53.3    |
| GE 8000               |  |                                  | 39.7     | 44.6     | 49.8     | 52.4     | 53.7     | 56.1     | 57.2     | 57.7     | 58.5     | 58.6     | 58.7     | 58.9    | 59.0    | 59.4    | 60.0    |
| GE 7000               |  |                                  | 40.1     | 45.4     | 50.5     | 53.1     | 54.4     | 56.9     | 58.0     | 58.5     | 59.2     | 59.4     | 59.5     | 59.7    | 59.8    | 60.1    | 60.8    |
| GE 6000               |  |                                  | 40.1     | 45.4     | 50.5     | 53.1     | 54.4     | 56.9     | 58.0     | 58.5     | 59.2     | 59.4     | 59.5     | 59.7    | 59.8    | 60.1    | 60.8    |
| GE 5000               |  |                                  | 41.1     | 46.9     | 52.0     | 54.8     | 56.1     | 58.7     | 59.8     | 60.3     | 61.1     | 61.2     | 61.3     | 61.5    | 61.6    | 61.9    | 62.6    |
| GE 4500               |  |                                  | 41.3     | 47.1     | 52.6     | 55.6     | 56.9     | 59.5     | 60.5     | 61.1     | 61.8     | 61.9     | 62.0     | 62.3    | 62.4    | 62.7    | 63.3    |
| GE 4000               |  |                                  | 44.7     | 51.0     | 57.4     | 60.8     | 62.2     | 64.8     | 66.0     | 66.6     | 67.5     | 67.6     | 67.7     | 68.0    | 68.1    | 68.4    | 69.0    |
| GE 3500               |  |                                  | 45.5     | 51.8     | 59.0     | 62.7     | 64.2     | 66.9     | 68.1     | 68.6     | 69.6     | 69.7     | 69.8     | 70.0    | 70.1    | 70.4    | 71.1    |
| GE 3000               |  |                                  | 50.2     | 57.2     | 66.0     | 69.9     | 71.5     | 74.4     | 76.1     | 77.1     | 78.1     | 78.2     | 78.3     | 78.5    | 78.6    | 78.9    | 79.6    |
| GE 2500               |  |                                  | 51.2     | 58.4     | 67.2     | 71.2     | 73.1     | 76.0     | 77.8     | 78.9     | 79.9     | 80.0     | 80.1     | 80.3    | 80.4    | 80.8    | 81.4    |
| GE 2000               |  |                                  | 52.7     | 60.6     | 71.1     | 76.0     | 78.2     | 81.3     | 83.4     | 84.5     | 85.5     | 85.6     | 85.7     | 85.9    | 86.0    | 86.3    | 87.0    |
| GE 1800               |  |                                  | 52.8     | 60.9     | 71.5     | 76.6     | 78.7     | 81.8     | 84.0     | 85.1     | 86.0     | 86.1     | 86.2     | 86.5    | 86.6    | 86.9    | 87.5    |
| GE 1500               |  |                                  | 53.4     | 61.7     | 72.8     | 77.8     | 80.0     | 83.1     | 85.4     | 86.5     | 87.4     | 87.5     | 87.6     | 87.8    | 88.0    | 88.3    | 88.9    |
| GE 1200               |  |                                  | 54.2     | 62.6     | 74.2     | 79.4     | 81.5     | 84.8     | 87.1     | 88.2     | 89.1     | 89.2     | 89.4     | 89.6    | 89.7    | 90.0    | 90.6    |
| GE 1000               |  |                                  | 54.4     | 63.3     | 75.7     | 81.1     | 83.2     | 86.7     | 88.9     | 90.0     | 91.0     | 91.1     | 91.2     | 91.4    | 91.5    | 91.8    | 92.5    |
| GE 900                |  |                                  | 54.4     | 63.4     | 75.9     | 81.4     | 83.9     | 87.3     | 89.6     | 90.9     | 91.8     | 91.9     | 92.0     | 92.3    | 92.4    | 92.7    | 93.3    |
| GE 800                |  |                                  | 54.5     | 63.5     | 76.7     | 82.3     | 84.7     | 88.2     | 90.4     | 91.8     | 92.8     | 93.0     | 93.1     | 93.3    | 93.4    | 93.8    | 94.4    |
| GE 700                |  |                                  | 54.5     | 63.5     | 76.8     | 82.4     | 84.8     | 88.7     | 91.0     | 92.5     | 93.4     | 93.7     | 93.8     | 94.0    | 94.1    | 94.4    | 95.1    |
| GE 600                |  |                                  | 54.5     | 63.7     | 77.3     | 83.2     | 85.7     | 89.8     | 92.0     | 93.9     | 94.8     | 95.1     | 95.2     | 95.4    | 95.5    | 95.8    | 96.5    |
| GE 500                |  |                                  | 54.5     | 63.7     | 77.3     | 83.8     | 86.2     | 90.4     | 92.8     | 94.6     | 95.6     | 96.0     | 96.1     | 96.3    | 96.5    | 96.8    | 97.4    |
| GE 400                |  |                                  | 54.5     | 63.7     | 77.3     | 83.8     | 86.2     | 90.4     | 93.1     | 94.9     | 95.9     | 96.3     | 96.5     | 96.7    | 96.8    | 97.2    | 98.0    |
| GE 300                |  |                                  | 54.5     | 63.7     | 77.3     | 83.8     | 86.2     | 90.4     | 93.1     | 95.1     | 96.0     | 96.5     | 96.6     | 96.8    | 96.9    | 97.3    | 98.1    |
| GE 200                |  |                                  | 54.5     | 63.7     | 77.3     | 83.8     | 86.2     | 90.4     | 93.3     | 95.4     | 96.6     | 97.0     | 97.1     | 97.3    | 97.4    | 97.8    | 98.6    |
| GE 100                |  |                                  | 54.5     | 63.7     | 77.3     | 83.8     | 86.2     | 90.4     | 93.3     | 95.4     | 96.7     | 97.1     | 97.2     | 97.4    | 97.5    | 98.0    | 99.0    |
| GE                    |  |                                  | 54.5     | 63.7     | 77.3     | 83.8     | 86.2     | 90.4     | 93.3     | 95.4     | 96.7     | 97.1     | 97.2     | 97.4    | 97.5    | 98.0    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 930



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(1ST): 0600-0600

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|
| IN       | FEET | GE 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4  | GE 0 |
| NO CEIL  | I    | 22.4                             | 25.5  | 28.9  | 31.0  | 31.1  | 32.6  | 33.1  | 33.4  | 33.8  | 33.9  | 34.0  | 34.2  | 34.3 | 34.4 | 34.8  |      |
| GE 20000 | I    | 25.9                             | 29.6  | 33.7  | 36.3  | 36.5  | 38.2  | 38.7  | 39.1  | 39.5  | 39.7  | 39.8  | 40.1  | 40.2 | 40.3 | 40.9  |      |
| GE 18000 | I    | 26.0                             | 29.7  | 33.8  | 36.5  | 36.6  | 38.3  | 38.8  | 39.2  | 39.6  | 39.8  | 39.9  | 40.2  | 40.3 | 40.4 | 41.0  |      |
| GE 16000 | I    | 26.0                             | 29.7  | 33.8  | 36.5  | 36.6  | 38.3  | 38.8  | 39.2  | 39.6  | 39.8  | 39.9  | 40.2  | 40.3 | 40.4 | 41.0  |      |
| GE 14000 | I    | 26.0                             | 29.7  | 33.8  | 36.5  | 36.6  | 38.3  | 38.8  | 39.2  | 39.6  | 39.8  | 39.9  | 40.2  | 40.3 | 40.4 | 41.0  |      |
| GE 12000 | I    | 26.2                             | 29.9  | 34.1  | 36.8  | 36.9  | 38.6  | 39.1  | 39.6  | 39.9  | 40.1  | 40.2  | 40.5  | 40.6 | 40.8 | 41.3  |      |
| GE 10000 | I    | 29.0                             | 32.7  | 37.1  | 40.0  | 40.2  | 41.9  | 42.5  | 42.9  | 43.3  | 43.5  | 43.7  | 44.0  | 44.1 | 44.2 | 44.7  |      |
| GE 9000  | I    | 30.0                             | 33.7  | 38.1  | 41.0  | 41.4  | 43.2  | 43.8  | 44.2  | 44.6  | 44.8  | 44.9  | 45.3  | 45.4 | 45.5 | 46.0  |      |
| GE 8000  | I    | 33.9                             | 37.8  | 43.3  | 46.2  | 47.1  | 49.4  | 50.2  | 50.6  | 51.5  | 51.9  | 52.2  | 52.6  | 52.8 | 52.9 | 53.5  |      |
| GE 7000  | I    | 34.4                             | 38.5  | 44.1  | 47.1  | 47.6  | 50.2  | 51.1  | 51.5  | 52.4  | 52.8  | 53.0  | 53.4  | 53.7 | 53.8 | 54.4  |      |
| GE 6000  | I    | 34.7                             | 38.8  | 44.5  | 47.5  | 48.4  | 51.6  | 51.5  | 51.9  | 52.8  | 53.2  | 53.4  | 53.9  | 54.1 | 54.2 | 54.8  |      |
| GE 5000  | I    | 36.5                             | 40.8  | 46.8  | 50.1  | 51.2  | 53.8  | 54.6  | 55.1  | 55.9  | 56.3  | 56.6  | 57.0  | 57.2 | 57.3 | 58.0  |      |
| GE 4500  | I    | 37.0                             | 41.3  | 47.4  | 51.1  | 52.2  | 54.7  | 55.6  | 56.0  | 56.9  | 57.3  | 57.5  | 58.0  | 58.2 | 58.3 | 58.9  |      |
| GE 4000  | I    | 41.8                             | 46.7  | 53.8  | 57.7  | 58.9  | 61.5  | 62.4  | 62.9  | 63.6  | 64.3  | 64.5  | 64.9  | 65.2 | 65.3 | 65.9  |      |
| GE 3500  | I    | 43.7                             | 48.8  | 56.7  | 61.1  | 62.6  | 65.5  | 66.5  | 67.0  | 68.0  | 68.5  | 68.7  | 69.1  | 69.4 | 69.5 | 70.1  |      |
| GE 3000  | I    | 48.4                             | 54.4  | 63.3  | 68.1  | 69.6  | 72.5  | 73.4  | 74.1  | 75.4  | 76.1  | 76.3  | 76.9  | 77.1 | 77.2 | 77.8  |      |
| GE 2500  | I    | 49.1                             | 55.2  | 64.2  | 69.6  | 71.2  | 74.1  | 75.2  | 75.8  | 77.1  | 77.8  | 78.1  | 78.6  | 78.8 | 78.9 | 79.6  |      |
| GE 2000  | I    | 50.9                             | 57.2  | 67.0  | 72.9  | 74.6  | 77.5  | 78.8  | 79.5  | 80.9  | 81.7  | 82.0  | 82.6  | 82.8 | 82.9 | 83.5  |      |
| GE 1800  | I    | 50.9                             | 57.2  | 67.1  | 73.0  | 74.7  | 77.7  | 79.1  | 79.9  | 81.3  | 82.2  | 82.5  | 83.0  | 83.2 | 83.3 | 84.0  |      |
| GE 1600  | I    | 51.2                             | 57.8  | 68.2  | 74.4  | 76.2  | 79.5  | 80.9  | 81.6  | 83.0  | 83.9  | 84.2  | 84.7  | 84.9 | 85.1 | 85.7  |      |
| GE 1200  | I    | 51.6                             | 58.3  | 69.1  | 75.6  | 77.5  | 81.2  | 83.1  | 83.9  | 85.3  | 86.2  | 86.8  | 87.3  | 87.5 | 87.6 | 88.3  |      |
| GE 1000  | I    | 51.7                             | 58.4  | 70.0  | 76.7  | 78.7  | 82.6  | 84.6  | 85.4  | 86.8  | 87.8  | 88.4  | 88.9  | 89.2 | 89.4 | 90.0  |      |
| GE 900   | I    | 52.2                             | 58.8  | 70.4  | 77.4  | 79.6  | 83.4  | 85.5  | 86.2  | 87.6  | 88.7  | 89.2  | 89.8  | 90.1 | 90.2 | 90.9  |      |
| GE 800   | I    | 52.5                             | 59.2  | 71.1  | 78.6  | 81.1  | 85.1  | 87.2  | 88.0  | 89.4  | 90.5  | 91.1  | 91.6  | 91.9 | 92.0 | 92.7  |      |
| GE 700   | I    | 52.5                             | 59.4  | 71.3  | 78.8  | 81.4  | 85.5  | 87.8  | 88.7  | 90.2  | 91.4  | 91.9  | 92.5  | 92.8 | 92.9 | 93.5  |      |
| GE 600   | I    | 52.5                             | 59.4  | 71.5  | 79.1  | 81.8  | 85.9  | 88.4  | 89.4  | 90.9  | 92.3  | 92.8  | 93.3  | 93.7 | 93.8 | 94.4  |      |
| GE 500   | I    | 52.5                             | 59.4  | 71.6  | 80.0  | 82.9  | 87.2  | 90.0  | 91.1  | 92.6  | 94.3  | 94.8  | 95.4  | 95.7 | 95.8 | 96.5  |      |
| GE 400   | I    | 52.5                             | 59.4  | 71.6  | 80.0  | 83.0  | 87.5  | 90.5  | 91.8  | 93.5  | 95.1  | 95.6  | 96.1  | 96.5 | 96.6 | 97.2  |      |
| GE 300   | I    | 52.5                             | 59.4  | 71.6  | 80.0  | 83.0  | 87.5  | 90.5  | 91.9  | 93.8  | 95.4  | 96.1  | 96.8  | 97.1 | 97.2 | 97.8  |      |
| GE 200   | I    | 52.5                             | 59.4  | 71.6  | 80.0  | 83.0  | 87.5  | 90.5  | 91.9  | 93.8  | 95.5  | 96.3  | 97.0  | 97.4 | 97.6 | 98.5  |      |
| GE 100   | I    | 52.5                             | 59.4  | 71.6  | 80.0  | 83.0  | 87.5  | 90.5  | 91.9  | 93.9  | 95.6  | 96.5  | 97.2  | 97.6 | 97.8 | 99.4  |      |
| GE 0     | I    | 52.5                             | 59.4  | 71.6  | 80.0  | 83.0  | 87.5  | 90.5  | 91.9  | 93.9  | 95.6  | 96.5  | 97.2  | 97.6 | 97.8 | 100.0 |      |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: OCT HOURS(LST): 0900-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 23.8     | 25.1     | 28.1     | 30.1     | 30.2     | 31.3     | 31.4     | 31.7     | 31.8     | 31.9     | 32.0     | 32.0    | 32.2    | 32.2    | 32.2    |
| GE 2000               |                                  | 31.3     | 32.8     | 36.9     | 39.4     | 39.6     | 41.0     | 41.6     | 41.9     | 42.0     | 42.2     | 42.3     | 42.3    | 42.4    | 42.4    | 42.4    |
| GE 1800               |                                  | 31.4     | 32.9     | 37.1     | 39.6     | 39.8     | 41.2     | 41.8     | 42.2     | 42.3     | 42.4     | 42.5     | 42.5    | 42.6    | 42.6    | 42.6    |
| GE 1600               |                                  | 31.4     | 32.9     | 37.1     | 39.6     | 39.8     | 41.2     | 41.8     | 42.2     | 42.3     | 42.4     | 42.5     | 42.5    | 42.6    | 42.6    | 42.6    |
| GE 1400               |                                  | 31.4     | 32.9     | 37.2     | 39.7     | 39.9     | 41.3     | 41.9     | 42.3     | 42.4     | 42.5     | 42.6     | 42.6    | 42.7    | 42.7    | 42.7    |
| GE 1200               |                                  | 31.6     | 33.1     | 37.4     | 39.9     | 40.1     | 41.5     | 42.2     | 42.5     | 42.6     | 42.7     | 42.8     | 42.8    | 42.9    | 42.9    | 42.9    |
| GE 1000               |                                  | 34.0     | 35.9     | 41.2     | 43.9     | 44.1     | 45.5     | 46.1     | 46.5     | 46.6     | 46.7     | 46.8     | 46.8    | 46.9    | 46.9    | 46.9    |
| GE 900                |                                  | 35.6     | 37.7     | 43.0     | 45.7     | 45.9     | 47.3     | 48.0     | 48.3     | 48.4     | 48.5     | 48.6     | 48.6    | 48.7    | 48.7    | 48.7    |
| GE 800                |                                  | 40.3     | 42.6     | 48.7     | 51.8     | 52.0     | 53.5     | 54.4     | 54.7     | 54.9     | 55.2     | 55.4     | 55.4    | 55.6    | 55.6    | 55.6    |
| GE 700                |                                  | 41.1     | 43.5     | 49.8     | 52.9     | 53.3     | 55.1     | 55.9     | 56.2     | 56.5     | 56.7     | 56.9     | 56.9    | 57.1    | 57.1    | 57.1    |
| GE 600                |                                  | 41.3     | 43.8     | 50.0     | 53.1     | 53.5     | 55.3     | 56.1     | 56.5     | 56.7     | 56.9     | 57.1     | 57.1    | 57.3    | 57.3    | 57.3    |
| GE 500                |                                  | 42.5     | 45.5     | 51.7     | 55.2     | 55.6     | 57.3     | 58.2     | 58.5     | 58.7     | 58.9     | 59.1     | 59.1    | 59.4    | 59.4    | 59.4    |
| GE 450                |                                  | 42.7     | 45.7     | 52.0     | 55.6     | 56.1     | 57.8     | 58.7     | 59.0     | 59.4     | 59.6     | 59.8     | 59.8    | 60.0    | 60.0    | 60.0    |
| GE 400                |                                  | 47.1     | 50.3     | 56.9     | 61.3     | 62.2     | 63.9     | 64.8     | 65.2     | 65.5     | 65.7     | 65.9     | 65.9    | 66.1    | 66.1    | 66.1    |
| GE 350                |                                  | 48.9     | 52.3     | 60.1     | 64.8     | 65.7     | 67.5     | 68.5     | 68.8     | 69.1     | 69.4     | 69.6     | 69.6    | 69.8    | 69.8    | 69.8    |
| GE 300                |                                  | 56.3     | 60.9     | 69.5     | 74.3     | 75.2     | 77.2     | 78.4     | 78.7     | 79.4     | 79.6     | 79.9     | 79.9    | 80.1    | 80.1    | 80.1    |
| GE 250                |                                  | 57.1     | 61.8     | 70.8     | 75.8     | 76.8     | 78.8     | 80.0     | 80.3     | 81.0     | 81.2     | 81.5     | 81.5    | 81.7    | 81.7    | 81.7    |
| GE 200                |                                  | 59.2     | 64.2     | 73.9     | 79.4     | 80.3     | 82.8     | 84.1     | 84.5     | 85.3     | 85.5     | 85.8     | 85.8    | 86.0    | 86.0    | 86.0    |
| GE 180                |                                  | 59.5     | 64.4     | 74.1     | 79.7     | 80.6     | 83.2     | 84.6     | 85.1     | 85.8     | 86.0     | 86.3     | 86.3    | 86.6    | 86.6    | 86.6    |
| GE 150                |                                  | 60.4     | 65.8     | 75.6     | 81.2     | 82.5     | 85.1     | 86.5     | 86.9     | 87.6     | 87.8     | 88.2     | 88.2    | 88.4    | 88.4    | 88.4    |
| GE 120                |                                  | 61.5     | 66.9     | 77.2     | 83.2     | 84.9     | 87.7     | 89.4     | 89.8     | 90.5     | 90.8     | 91.1     | 91.1    | 91.3    | 91.3    | 91.3    |
| GE 100                |                                  | 61.8     | 67.2     | 78.0     | 84.2     | 86.0     | 88.9     | 91.3     | 91.8     | 92.6     | 92.8     | 93.1     | 93.1    | 93.3    | 93.3    | 93.3    |
| GE 90                 |                                  | 62.0     | 67.4     | 78.5     | 84.9     | 86.8     | 90.0     | 92.5     | 93.0     | 93.8     | 94.1     | 94.4     | 94.4    | 94.6    | 94.6    | 94.6    |
| GE 80                 |                                  | 62.3     | 67.6     | 78.8     | 85.7     | 87.5     | 90.8     | 93.3     | 94.0     | 94.7     | 95.1     | 95.4     | 95.4    | 95.6    | 95.6    | 95.6    |
| GE 70                 |                                  | 62.3     | 67.6     | 79.0     | 86.1     | 88.0     | 91.2     | 93.8     | 94.4     | 95.2     | 95.5     | 95.8     | 95.8    | 96.0    | 96.0    | 96.0    |
| GE 60                 |                                  | 62.3     | 67.6     | 79.1     | 86.5     | 88.3     | 91.5     | 94.1     | 94.7     | 95.6     | 95.9     | 96.2     | 96.2    | 96.5    | 96.5    | 96.5    |
| GE 50                 |                                  | 62.3     | 67.7     | 79.4     | 87.1     | 88.9     | 92.3     | 94.8     | 95.5     | 96.6     | 97.1     | 97.5     | 97.6    | 97.8    | 97.8    | 97.8    |
| GE 40                 |                                  | 62.3     | 67.7     | 79.5     | 87.2     | 89.1     | 92.6     | 95.4     | 96.0     | 97.1     | 98.0     | 98.6     | 98.8    | 99.0    | 99.0    | 99.0    |
| GE 30                 |                                  | 62.3     | 67.7     | 79.5     | 87.2     | 89.1     | 92.6     | 95.4     | 96.0     | 97.2     | 98.2     | 98.8     | 99.0    | 99.4    | 99.4    | 99.4    |
| GE 20                 |                                  | 62.3     | 67.7     | 79.5     | 87.2     | 89.1     | 92.6     | 95.4     | 96.0     | 97.2     | 98.3     | 98.9     | 99.1    | 99.7    | 99.7    | 99.8    |
| GE 10                 |                                  | 62.3     | 67.7     | 79.5     | 87.2     | 89.1     | 92.6     | 95.4     | 96.0     | 97.2     | 98.3     | 98.9     | 99.1    | 99.7    | 99.7    | 99.9    |
| GE 0                  |                                  | 62.3     | 67.7     | 79.5     | 87.2     | 89.1     | 92.6     | 95.4     | 96.0     | 97.2     | 98.3     | 98.9     | 99.1    | 99.8    | 99.8    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: OCT

HOURS(SLT): 1200-1400

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8  | GE 5  | GE 4  | GE 0  |
| NO CEIL  |      | 71.8                             | 23.3  | 27.1  | 27.6  | 27.8  | 28.3  | 29.4  | 28.5  | 28.6  | 28.6  | 28.6  | 28.6  | 28.6  | 28.6  | 28.6  | 28.6  |
| GE 20000 |      | 31.3                             | 33.1  | 38.2  | 38.8  | 39.0  | 39.6  | 39.9  | 40.0  | 40.2  | 40.2  | 40.2  | 40.2  | 40.2  | 40.2  | 40.2  | 40.2  |
| GE 18000 |      | 31.5                             | 33.3  | 38.4  | 39.0  | 39.2  | 39.8  | 40.1  | 40.2  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  |
| GE 16000 |      | 31.5                             | 33.3  | 38.4  | 39.0  | 39.2  | 39.8  | 40.1  | 40.2  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  |
| GE 14000 |      | 31.7                             | 33.5  | 38.6  | 39.2  | 39.5  | 40.0  | 40.3  | 40.4  | 40.6  | 40.6  | 40.6  | 40.6  | 40.6  | 40.6  | 40.6  | 40.6  |
| GE 12000 |      | 31.9                             | 33.8  | 38.9  | 39.6  | 39.6  | 40.3  | 40.6  | 40.8  | 41.0  | 41.0  | 41.0  | 41.0  | 41.0  | 41.0  | 41.0  | 41.0  |
| GE 10000 |      | 34.2                             | 36.1  | 41.6  | 42.4  | 42.6  | 43.1  | 43.5  | 43.7  | 43.9  | 43.9  | 43.9  | 43.9  | 43.9  | 43.9  | 43.9  | 43.9  |
| GE 9000  |      | 34.9                             | 36.9  | 42.4  | 43.1  | 43.3  | 43.9  | 44.3  | 44.4  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  | 44.6  |
| GE 8000  |      | 39.4                             | 41.7  | 47.7  | 48.8  | 49.0  | 50.1  | 50.8  | 50.9  | 51.1  | 51.1  | 51.1  | 51.1  | 51.1  | 51.1  | 51.1  | 51.1  |
| GE 7000  |      | 39.8                             | 42.2  | 48.2  | 49.4  | 49.6  | 50.6  | 51.4  | 51.6  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  |
| GE 6000  |      | 40.1                             | 42.5  | 48.5  | 49.7  | 49.9  | 51.0  | 51.7  | 51.9  | 52.2  | 52.2  | 52.2  | 52.2  | 52.2  | 52.2  | 52.2  | 52.2  |
| GE 5000  |      | 40.9                             | 43.4  | 49.6  | 50.8  | 51.0  | 52.0  | 52.8  | 53.0  | 53.2  | 53.2  | 53.2  | 53.2  | 53.2  | 53.2  | 53.2  | 53.2  |
| GE 4500  |      | 41.7                             | 44.3  | 50.6  | 51.9  | 52.4  | 53.5  | 54.6  | 54.8  | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  |
| GE 4000  |      | 47.6                             | 50.5  | 57.4  | 59.7  | 60.3  | 61.5  | 62.6  | 62.8  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  |
| GE 3500  |      | 50.5                             | 53.7  | 61.2  | 63.8  | 64.7  | 65.9  | 67.0  | 67.2  | 67.4  | 67.4  | 67.4  | 67.4  | 67.4  | 67.4  | 67.4  | 67.4  |
| GE 3000  |      | 61.8                             | 65.7  | 74.1  | 77.4  | 78.4  | 79.7  | 81.0  | 81.2  | 81.7  | 81.7  | 81.7  | 81.7  | 81.7  | 81.7  | 81.7  | 81.7  |
| GE 2500  |      | 62.7                             | 66.6  | 75.1  | 78.6  | 79.7  | 81.0  | 82.5  | 82.7  | 83.2  | 83.2  | 83.2  | 83.2  | 83.2  | 83.2  | 83.2  | 83.2  |
| GE 2000  |      | 65.5                             | 69.7  | 78.5  | 82.4  | 83.4  | 85.2  | 86.7  | 86.9  | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  |
| GE 1800  |      | 65.6                             | 69.8  | 78.6  | 82.5  | 83.5  | 85.3  | 86.8  | 87.0  | 87.5  | 87.5  | 87.5  | 87.5  | 87.5  | 87.5  | 87.5  | 87.5  |
| GE 1500  |      | 67.4                             | 71.5  | 81.3  | 85.5  | 86.7  | 88.5  | 90.0  | 90.2  | 90.6  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  |
| GE 1200  |      | 68.1                             | 72.7  | 82.4  | 86.9  | 88.1  | 90.2  | 91.9  | 92.2  | 92.7  | 92.7  | 92.7  | 92.7  | 92.7  | 92.7  | 92.7  | 92.7  |
| GE 1000  |      | 68.6                             | 73.5  | 83.5  | 88.4  | 89.8  | 92.3  | 94.0  | 94.2  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  |
| GE 900   |      | 68.9                             | 73.8  | 84.1  | 88.9  | 90.3  | 92.8  | 94.5  | 94.7  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  |
| GE 800   |      | 68.9                             | 73.8  | 84.1  | 89.1  | 90.5  | 93.1  | 94.8  | 95.2  | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  |
| GE 700   |      | 69.0                             | 74.0  | 84.7  | 90.0  | 91.4  | 94.0  | 95.7  | 96.0  | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  |
| GE 600   |      | 69.1                             | 74.1  | 85.1  | 90.6  | 92.0  | 94.7  | 96.6  | 97.2  | 98.6  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  |
| GE 500   |      | 69.1                             | 74.2  | 85.2  | 90.6  | 92.2  | 94.8  | 96.7  | 97.3  | 98.8  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  |
| GE 400   |      | 69.1                             | 74.2  | 85.2  | 91.0  | 92.4  | 95.2  | 97.2  | 97.8  | 99.6  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 300   |      | 69.1                             | 74.2  | 85.2  | 91.0  | 92.4  | 95.2  | 97.2  | 97.8  | 99.6  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   |      | 69.1                             | 74.2  | 85.2  | 91.0  | 92.4  | 95.2  | 97.2  | 97.8  | 99.6  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   |      | 69.1                             | 74.2  | 85.2  | 91.0  | 92.4  | 95.2  | 97.2  | 97.8  | 99.6  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 0     |      | 69.1                             | 74.2  | 85.2  | 91.0  | 92.4  | 95.2  | 97.2  | 97.8  | 99.6  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM POORLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(IST): 1500-1700

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>C |
| NO CEIL               |                                  | 25.1     | 26.1     | 28.6     | 29.6     | 29.6     | 29.8     | 30.4     | 30.4     | 30.5     | 30.6     | 30.6     | 30.6    | 30.6    | 30.6    | 30.6    |
| GE 20000              |                                  | 33.5     | 35.4     | 39.1     | 40.3     | 40.3     | 40.8     | 41.4     | 41.4     | 41.7     | 41.8     | 41.8     | 41.8    | 41.8    | 41.8    | 41.8    |
| GE 18000              |                                  | 33.5     | 35.4     | 39.2     | 40.4     | 40.4     | 40.9     | 41.5     | 41.5     | 41.8     | 41.9     | 41.9     | 41.9    | 41.9    | 41.9    | 41.9    |
| GE 16000              |                                  | 33.5     | 35.4     | 39.2     | 40.4     | 40.4     | 40.9     | 41.5     | 41.5     | 41.8     | 41.9     | 41.9     | 41.9    | 41.9    | 41.9    | 41.9    |
| GE 14000              |                                  | 33.5     | 35.4     | 39.2     | 40.4     | 40.4     | 40.9     | 41.5     | 41.5     | 41.8     | 41.9     | 41.9     | 41.9    | 41.9    | 41.9    | 41.9    |
| GE 12000              |                                  | 33.7     | 35.5     | 39.5     | 40.6     | 40.6     | 41.1     | 41.7     | 41.7     | 42.0     | 42.2     | 42.2     | 42.2    | 42.2    | 42.2    | 42.2    |
| GE 10000              |                                  | 35.3     | 37.4     | 41.6     | 42.9     | 42.9     | 43.5     | 44.3     | 44.4     | 45.1     | 45.2     | 45.2     | 45.2    | 45.2    | 45.2    | 45.2    |
| GE 9000               |                                  | 35.9     | 38.3     | 42.6     | 43.9     | 44.0     | 44.7     | 45.5     | 45.6     | 46.2     | 46.3     | 46.3     | 46.3    | 46.3    | 46.3    | 46.3    |
| GE 8000               |                                  | 40.0     | 43.1     | 47.8     | 49.7     | 49.9     | 51.1     | 51.9     | 52.0     | 52.7     | 52.8     | 52.8     | 52.8    | 52.8    | 52.8    | 52.8    |
| GE 7000               |                                  | 41.2     | 44.3     | 49.0     | 50.9     | 51.1     | 52.4     | 53.3     | 53.4     | 54.1     | 54.2     | 54.2     | 54.2    | 54.2    | 54.2    | 54.2    |
| GE 6000               |                                  | 41.2     | 44.4     | 49.2     | 51.1     | 51.3     | 52.6     | 53.5     | 53.7     | 54.3     | 54.4     | 54.4     | 54.4    | 54.4    | 54.4    | 54.4    |
| GE 5000               |                                  | 42.5     | 45.8     | 50.6     | 52.6     | 52.9     | 54.2     | 55.2     | 55.3     | 55.9     | 56.0     | 56.0     | 56.0    | 56.0    | 56.0    | 56.0    |
| GE 4500               |                                  | 43.3     | 46.8     | 51.8     | 53.9     | 54.6     | 55.9     | 57.0     | 57.1     | 57.7     | 57.8     | 57.8     | 57.8    | 57.8    | 57.8    | 57.8    |
| GE 4000               |                                  | 49.5     | 53.1     | 58.6     | 61.8     | 62.6     | 64.0     | 65.1     | 65.4     | 66.0     | 66.1     | 66.1     | 66.1    | 66.1    | 66.1    | 66.1    |
| GE 3500               |                                  | 52.8     | 57.1     | 62.7     | 66.3     | 67.1     | 68.5     | 69.6     | 69.9     | 70.5     | 70.6     | 70.6     | 70.6    | 70.6    | 70.6    | 70.6    |
| GE 3000               |                                  | 61.8     | 66.5     | 73.2     | 77.6     | 78.6     | 80.3     | 81.4     | 81.7     | 82.6     | 82.8     | 82.8     | 82.8    | 82.8    | 82.8    | 82.8    |
| GE 2500               |                                  | 63.0     | 67.7     | 74.8     | 79.6     | 80.5     | 82.3     | 83.3     | 83.7     | 84.5     | 84.7     | 84.7     | 84.7    | 84.7    | 84.7    | 84.7    |
| GE 2000               |                                  | 64.3     | 69.0     | 77.1     | 82.4     | 83.5     | 85.7     | 86.9     | 87.2     | 88.1     | 88.3     | 88.3     | 88.3    | 88.3    | 88.3    | 88.3    |
| GE 1800               |                                  | 64.3     | 69.0     | 77.2     | 82.5     | 83.7     | 85.8     | 87.0     | 87.3     | 88.2     | 88.4     | 88.4     | 88.4    | 88.4    | 88.4    | 88.4    |
| GE 1500               |                                  | 64.7     | 69.5     | 78.8     | 84.1     | 85.4     | 87.6     | 88.8     | 89.1     | 90.0     | 90.2     | 90.2     | 90.2    | 90.2    | 90.2    | 90.2    |
| GE 1200               |                                  | 65.2     | 69.9     | 80.0     | 85.8     | 87.1     | 89.5     | 90.6     | 91.0     | 91.6     | 92.0     | 92.0     | 92.0    | 92.0    | 92.0    | 92.0    |
| GE 1000               |                                  | 65.6     | 70.3     | 80.6     | 86.9     | 88.3     | 90.9     | 92.0     | 92.4     | 93.2     | 93.4     | 93.4     | 93.4    | 93.4    | 93.4    | 93.4    |
| GE 900                |                                  | 65.7     | 70.4     | 80.9     | 87.1     | 88.5     | 91.2     | 93.0     | 93.3     | 94.3     | 94.5     | 94.5     | 94.5    | 94.5    | 94.5    | 94.5    |
| GE 800                |                                  | 65.8     | 70.6     | 81.3     | 87.6     | 89.0     | 91.8     | 93.7     | 94.3     | 95.4     | 95.6     | 95.6     | 95.6    | 95.6    | 95.6    | 95.6    |
| GE 700                |                                  | 65.9     | 70.8     | 81.8     | 88.4     | 89.9     | 92.8     | 94.6     | 95.3     | 96.3     | 96.6     | 96.6     | 96.6    | 96.6    | 96.6    | 96.6    |
| GE 600                |                                  | 65.9     | 70.8     | 81.8     | 88.8     | 90.4     | 93.7     | 95.8     | 96.5     | 98.0     | 98.2     | 98.2     | 98.2    | 98.2    | 98.2    | 98.2    |
| GE 500                |                                  | 66.0     | 71.0     | 82.3     | 89.4     | 91.0     | 94.4     | 96.8     | 97.5     | 99.0     | 99.2     | 99.4     | 99.4    | 99.4    | 99.4    | 99.4    |
| GE 400                |                                  | 66.0     | 71.0     | 82.3     | 89.5     | 91.1     | 94.5     | 97.0     | 97.7     | 99.2     | 99.5     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    |
| GE 300                |                                  | 66.0     | 71.0     | 82.3     | 89.5     | 91.1     | 94.5     | 97.0     | 97.7     | 99.2     | 99.5     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    |
| GE 200                |                                  | 66.0     | 71.0     | 82.3     | 89.5     | 91.1     | 94.5     | 97.0     | 97.7     | 99.2     | 99.5     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    |
| GE 100                |                                  | 66.0     | 71.0     | 82.3     | 89.5     | 91.1     | 94.5     | 97.0     | 97.7     | 99.2     | 99.5     | 99.6     | 99.6    | 99.6    | 99.6    | 100.0   |
| GE C                  |                                  | 66.0     | 71.0     | 82.3     | 89.5     | 91.1     | 94.5     | 97.0     | 97.7     | 99.2     | 99.5     | 99.6     | 99.6    | 99.6    | 99.6    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(IST): 1800-2000

| CEILING<br>IN<br>FEET |           | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|-----------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160 | GE<br>90                         | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |           | 30.8                             | 34.2     | 36.9     | 38.1     | 38.4     | 39.5     | 39.8     | 40.1     | 40.2     | 40.8     | 40.9     | 41.0    | 41.2    | 41.2    | 41.4    |
| GE 20000              |           | 35.1                             | 39.5     | 42.9     | 44.5     | 44.8     | 45.9     | 46.2     | 46.7     | 46.8     | 47.3     | 47.4     | 47.5    | 47.7    | 47.7    | 48.0    |
| GE 18000              |           | 35.6                             | 40.0     | 43.4     | 45.1     | 45.4     | 46.5     | 46.8     | 47.2     | 47.3     | 47.8     | 48.0     | 48.1    | 48.3    | 48.3    | 48.5    |
| GE 16000              |           | 35.6                             | 40.0     | 43.4     | 45.1     | 45.4     | 46.5     | 46.8     | 47.2     | 47.3     | 47.8     | 48.0     | 48.1    | 48.3    | 48.3    | 48.5    |
| GE 14000              |           | 35.6                             | 40.0     | 43.4     | 45.1     | 45.4     | 46.5     | 46.8     | 47.2     | 47.3     | 47.8     | 48.0     | 48.1    | 48.3    | 48.3    | 48.5    |
| GE 12000              |           | 35.7                             | 40.1     | 43.5     | 45.2     | 45.5     | 46.6     | 46.9     | 47.3     | 47.4     | 48.0     | 48.1     | 48.2    | 48.4    | 48.4    | 48.6    |
| GE 10000              |           | 37.1                             | 41.8     | 45.6     | 47.2     | 47.5     | 48.9     | 49.2     | 49.8     | 49.9     | 50.4     | 50.5     | 50.6    | 50.9    | 50.9    | 51.2    |
| GE 9000               |           | 38.1                             | 42.6     | 46.6     | 48.2     | 48.5     | 49.9     | 50.2     | 50.8     | 50.9     | 51.4     | 51.5     | 51.6    | 51.8    | 51.8    | 52.2    |
| GE 8000               |           | 41.4                             | 46.7     | 51.5     | 53.1     | 53.4     | 55.1     | 55.5     | 56.0     | 56.1     | 56.7     | 56.8     | 56.9    | 57.1    | 57.1    | 57.4    |
| GE 7000               |           | 41.9                             | 47.2     | 52.0     | 53.7     | 54.0     | 55.6     | 56.0     | 56.6     | 56.7     | 57.2     | 57.3     | 57.4    | 57.6    | 57.6    | 58.0    |
| GE 6000               |           | 41.9                             | 47.2     | 52.0     | 53.7     | 54.0     | 55.6     | 56.0     | 56.6     | 56.7     | 57.2     | 57.3     | 57.4    | 57.6    | 57.6    | 58.0    |
| GE 5000               |           | 43.9                             | 49.1     | 54.2     | 55.9     | 56.2     | 57.8     | 58.3     | 58.8     | 58.9     | 59.5     | 59.6     | 59.7    | 59.9    | 59.9    | 60.2    |
| GE 4500               |           | 44.1                             | 49.4     | 54.4     | 56.5     | 56.8     | 58.5     | 58.9     | 59.5     | 59.6     | 60.1     | 60.2     | 60.3    | 60.5    | 60.5    | 60.9    |
| GE 4000               |           | 49.4                             | 54.9     | 60.5     | 62.9     | 63.3     | 65.1     | 65.7     | 66.5     | 67.1     | 67.6     | 67.7     | 67.8    | 68.1    | 68.1    | 68.4    |
| GE 3500               |           | 50.8                             | 57.0     | 63.1     | 66.1     | 66.7     | 68.4     | 69.0     | 69.9     | 70.6     | 71.2     | 71.3     | 71.4    | 71.6    | 71.6    | 71.9    |
| GE 3000               |           | 57.2                             | 64.0     | 71.7     | 75.7     | 76.8     | 78.8     | 79.6     | 80.6     | 81.4     | 81.9     | 82.0     | 82.2    | 82.4    | 82.4    | 82.7    |
| GE 2500               |           | 58.5                             | 65.4     | 73.2     | 77.5     | 78.6     | 80.6     | 81.4     | 82.5     | 83.2     | 83.8     | 83.9     | 84.0    | 84.2    | 84.2    | 84.5    |
| GE 2000               |           | 59.2                             | 66.3     | 74.5     | 79.4     | 80.4     | 82.7     | 83.8     | 84.8     | 85.6     | 86.1     | 86.2     | 86.3    | 86.6    | 86.6    | 86.9    |
| GE 1800               |           | 59.2                             | 66.3     | 74.5     | 79.5     | 80.5     | 82.8     | 83.9     | 84.9     | 85.7     | 86.2     | 86.3     | 86.5    | 86.7    | 86.7    | 87.0    |
| GE 1600               |           | 59.8                             | 66.9     | 75.6     | 81.0     | 82.5     | 85.1     | 86.3     | 87.4     | 88.2     | 88.7     | 88.8     | 88.9    | 89.1    | 89.1    | 89.5    |
| GE 1200               |           | 60.1                             | 67.3     | 76.7     | 82.5     | 84.0     | 86.9     | 88.3     | 89.4     | 90.1     | 90.6     | 90.8     | 90.9    | 91.1    | 91.1    | 91.4    |
| GE 1000               |           | 60.8                             | 68.0     | 77.7     | 83.7     | 85.3     | 88.2     | 89.6     | 90.6     | 91.4     | 91.9     | 92.0     | 92.2    | 92.4    | 92.4    | 92.7    |
| GE 900                |           | 60.8                             | 68.0     | 77.7     | 83.7     | 85.3     | 88.4     | 89.9     | 91.0     | 91.7     | 92.3     | 92.5     | 92.6    | 93.0    | 93.0    | 93.3    |
| GE 800                |           | 60.8                             | 68.0     | 78.2     | 84.1     | 85.8     | 88.9     | 90.4     | 91.5     | 92.6     | 93.1     | 93.3     | 93.4    | 93.9    | 93.9    | 94.2    |
| GE 700                |           | 61.3                             | 68.6     | 78.8     | 85.1     | 86.9     | 90.1     | 91.6     | 93.0     | 94.1     | 94.6     | 94.8     | 94.9    | 95.4    | 95.4    | 95.7    |
| GE 600                |           | 61.3                             | 68.6     | 79.4     | 85.9     | 87.7     | 91.3     | 93.1     | 94.5     | 95.9     | 96.5     | 96.9     | 97.0    | 97.4    | 97.4    | 97.7    |
| GE 500                |           | 61.4                             | 68.7     | 79.6     | 86.1     | 88.0     | 92.0     | 94.2     | 95.7     | 97.1     | 97.6     | 98.3     | 98.4    | 98.8    | 98.8    | 99.1    |
| GE 400                |           | 61.4                             | 68.7     | 79.6     | 86.5     | 88.3     | 92.4     | 94.5     | 96.0     | 97.4     | 98.0     | 98.6     | 98.7    | 99.1    | 99.1    | 99.5    |
| GE 300                |           | 61.4                             | 68.7     | 79.6     | 86.5     | 88.3     | 92.4     | 94.5     | 96.0     | 97.5     | 98.1     | 98.8     | 98.9    | 99.6    | 99.6    | 100.0   |
| GE 200                |           | 61.4                             | 68.7     | 79.6     | 86.5     | 88.3     | 92.4     | 94.5     | 96.0     | 97.5     | 98.1     | 98.8     | 98.9    | 99.6    | 99.6    | 100.0   |
| GE 100                |           | 61.4                             | 68.7     | 79.6     | 86.5     | 88.3     | 92.4     | 94.5     | 96.0     | 97.5     | 98.1     | 98.8     | 98.9    | 99.6    | 99.6    | 100.0   |
| GE 0                  |           | 61.4                             | 68.7     | 79.6     | 86.5     | 88.3     | 92.4     | 94.5     | 96.0     | 97.5     | 98.1     | 98.8     | 98.9    | 99.6    | 99.6    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(LST): 21.0-23.00

| CEILING  |   | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|----------|---|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| IN       | 1 | GT                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   |       |
| FEET     | 1 | 160                              | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | C     |
| NO CEIL  | 1 |                                  | 34.2 | 37.3 | 41.0 | 43.1 | 43.6 | 44.4 | 45.2 | 45.4 | 46.0 | 46.3 | 46.3 | 46.3 | 46.8 | 47.1 | 47.6  |
| GE 20000 |   |                                  | 36.5 | 40.3 | 44.5 | 46.7 | 47.3 | 48.0 | 48.7 | 49.2 | 49.9 | 50.2 | 50.2 | 50.2 | 50.6 | 51.0 | 51.5  |
| GE 18000 |   |                                  | 36.7 | 40.5 | 44.7 | 46.9 | 47.5 | 48.2 | 48.9 | 49.5 | 50.1 | 50.4 | 50.4 | 50.4 | 50.9 | 51.2 | 51.7  |
| GE 16000 |   |                                  | 36.7 | 40.5 | 44.7 | 46.9 | 47.5 | 48.2 | 48.9 | 49.5 | 50.1 | 50.4 | 50.4 | 50.4 | 50.9 | 51.2 | 51.7  |
| GE 14000 |   |                                  | 36.8 | 40.6 | 44.8 | 47.0 | 47.6 | 48.3 | 49.0 | 49.6 | 50.2 | 50.5 | 50.5 | 50.5 | 51.0 | 51.3 | 51.8  |
| GE 12000 |   |                                  | 36.9 | 40.8 | 45.1 | 47.2 | 47.8 | 48.5 | 49.2 | 49.8 | 50.4 | 50.8 | 50.8 | 50.8 | 51.2 | 51.5 | 52.0  |
| GE 10000 |   |                                  | 38.6 | 42.8 | 47.2 | 49.4 | 50.0 | 50.6 | 51.5 | 52.2 | 52.8 | 53.2 | 53.2 | 53.2 | 53.8 | 54.1 | 54.6  |
| GE 9000  |   |                                  | 39.2 | 43.7 | 48.1 | 50.2 | 50.9 | 51.5 | 52.4 | 53.0 | 53.7 | 54.1 | 54.1 | 54.1 | 54.6 | 54.9 | 55.5  |
| GE 8000  |   |                                  | 43.7 | 48.4 | 53.7 | 56.2 | 57.1 | 58.0 | 59.5 | 60.1 | 60.8 | 61.2 | 61.2 | 61.2 | 61.7 | 62.0 | 62.6  |
| GE 7000  |   |                                  | 44.3 | 49.0 | 54.3 | 57.0 | 57.6 | 58.7 | 60.4 | 61.1 | 61.7 | 62.2 | 62.2 | 62.2 | 62.7 | 63.0 | 63.5  |
| GE 6000  |   |                                  | 44.3 | 49.0 | 54.3 | 57.0 | 57.6 | 58.7 | 60.4 | 61.1 | 61.7 | 62.2 | 62.2 | 62.2 | 62.7 | 63.0 | 63.5  |
| GE 5000  |   |                                  | 45.2 | 49.9 | 55.6 | 58.3 | 59.1 | 60.0 | 61.7 | 62.4 | 63.0 | 63.4 | 63.4 | 63.4 | 64.0 | 64.3 | 64.8  |
| GE 4500  |   |                                  | 45.4 | 50.1 | 55.9 | 58.9 | 59.8 | 60.6 | 62.4 | 63.0 | 63.7 | 64.1 | 64.1 | 64.1 | 64.6 | 64.9 | 65.5  |
| GE 4000  |   |                                  | 48.3 | 53.5 | 60.5 | 64.4 | 65.3 | 66.2 | 68.1 | 68.7 | 69.4 | 70.0 | 70.0 | 70.0 | 70.5 | 70.9 | 71.4  |
| GE 3500  |   |                                  | 49.8 | 55.3 | 63.2 | 67.2 | 68.1 | 69.0 | 70.9 | 71.5 | 72.2 | 72.8 | 72.8 | 72.8 | 73.3 | 73.7 | 74.2  |
| GE 3000  |   |                                  | 55.8 | 61.8 | 70.8 | 75.1 | 76.5 | 77.5 | 79.6 | 80.4 | 81.1 | 81.7 | 81.7 | 81.7 | 82.3 | 82.6 | 83.1  |
| GE 2500  |   |                                  | 56.5 | 62.7 | 71.7 | 76.1 | 77.7 | 78.9 | 81.1 | 81.9 | 82.6 | 83.2 | 83.2 | 83.2 | 83.8 | 84.1 | 84.6  |
| GE 2000  |   |                                  | 57.2 | 64.0 | 74.0 | 78.6 | 80.3 | 81.7 | 84.1 | 84.9 | 85.7 | 86.3 | 86.3 | 86.3 | 86.9 | 87.2 | 87.7  |
| GE 1800  |   |                                  | 57.2 | 64.0 | 74.0 | 78.6 | 80.3 | 81.7 | 84.2 | 85.1 | 85.8 | 86.5 | 86.5 | 86.5 | 87.0 | 87.3 | 87.8  |
| GE 1600  |   |                                  | 58.4 | 65.3 | 75.5 | 80.2 | 82.2 | 83.9 | 86.3 | 87.3 | 88.1 | 88.7 | 88.7 | 88.7 | 89.2 | 89.6 | 90.1  |
| GE 1400  |   |                                  | 58.6 | 65.6 | 76.5 | 81.4 | 83.3 | 85.3 | 87.8 | 88.8 | 89.6 | 90.2 | 90.2 | 90.2 | 90.8 | 91.1 | 91.6  |
| GE 1000  |   |                                  | 58.9 | 65.9 | 77.1 | 82.4 | 84.3 | 86.3 | 88.9 | 90.0 | 90.8 | 91.4 | 91.4 | 91.4 | 91.9 | 92.3 | 92.8  |
| GE 900   |   |                                  | 59.0 | 66.0 | 77.2 | 82.6 | 84.6 | 86.9 | 89.5 | 90.5 | 91.3 | 91.9 | 91.9 | 91.9 | 92.5 | 92.8 | 93.3  |
| GE 800   |   |                                  | 59.0 | 66.0 | 77.2 | 82.6 | 84.6 | 87.1 | 89.8 | 91.0 | 91.7 | 92.4 | 92.4 | 92.4 | 92.9 | 93.2 | 93.8  |
| GE 700   |   |                                  | 59.1 | 66.1 | 77.6 | 83.1 | 85.5 | 88.2 | 91.0 | 92.7 | 93.5 | 94.2 | 94.2 | 94.2 | 94.7 | 95.1 | 95.6  |
| GE 600   |   |                                  | 59.1 | 66.1 | 77.8 | 83.3 | 85.7 | 88.4 | 91.7 | 93.4 | 94.3 | 94.9 | 94.9 | 94.9 | 95.5 | 95.8 | 96.3  |
| GE 500   |   |                                  | 59.1 | 66.2 | 78.3 | 83.9 | 86.3 | 89.8 | 93.3 | 95.1 | 95.9 | 96.6 | 96.6 | 96.6 | 97.1 | 97.4 | 98.0  |
| GE 400   |   |                                  | 59.1 | 66.2 | 78.3 | 84.2 | 86.9 | 90.3 | 93.9 | 95.6 | 96.5 | 97.1 | 97.2 | 97.3 | 98.0 | 98.3 | 98.9  |
| GE 300   |   |                                  | 59.1 | 66.3 | 78.5 | 84.6 | 87.3 | 91.0 | 94.5 | 96.2 | 97.1 | 97.7 | 97.8 | 98.0 | 98.6 | 98.9 | 99.7  |
| GE 200   |   |                                  | 59.1 | 66.3 | 78.5 | 84.6 | 87.3 | 91.0 | 94.5 | 96.2 | 97.1 | 97.7 | 97.8 | 98.0 | 98.6 | 98.9 | 99.9  |
| GE 100   |   |                                  | 59.1 | 66.3 | 78.5 | 84.6 | 87.3 | 91.0 | 94.5 | 96.2 | 97.1 | 97.7 | 97.8 | 98.0 | 98.6 | 98.9 | 100.0 |
| GE -1    |   |                                  | 59.1 | 66.3 | 78.5 | 84.6 | 87.3 | 91.0 | 94.5 | 96.2 | 97.1 | 97.7 | 97.8 | 98.0 | 98.6 | 98.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(IST): ALL

| CEILING  |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |
|----------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|
| IN       | GT  | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE |
| FEET     | 160 | 90                               | 80   | 60   | 40   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     | 0  |
| NO CEIL  |     | 27.9                             | 30.6 | 34.1 | 35.7 | 36.1 | 37.1 | 37.6 | 37.8 | 38.1 | 38.3 | 38.3 | 38.4 | 38.5 | 38.6 | 38.9  |    |
| GE 20000 |     | 32.8                             | 36.1 | 40.4 | 42.3 | 42.6 | 43.8 | 44.4 | 44.7 | 45.0 | 45.2 | 45.2 | 45.3 | 45.5 | 45.5 | 45.8  |    |
| GE 18000 |     | 33.0                             | 36.2 | 40.6 | 42.4 | 42.8 | 43.9 | 44.6 | 44.9 | 45.2 | 45.4 | 45.4 | 45.5 | 45.6 | 45.7 | 46.0  |    |
| GE 16000 |     | 33.0                             | 36.2 | 40.6 | 42.4 | 42.8 | 43.9 | 44.6 | 44.9 | 45.2 | 45.4 | 45.4 | 45.5 | 45.6 | 45.7 | 46.0  |    |
| GE 14000 |     | 33.0                             | 36.3 | 40.7 | 42.5 | 42.9 | 44.0 | 44.6 | 44.9 | 45.2 | 45.4 | 45.5 | 45.6 | 45.7 | 45.8 | 46.1  |    |
| GE 12000 |     | 33.2                             | 36.4 | 40.8 | 42.7 | 43.1 | 44.2 | 44.8 | 45.1 | 45.4 | 45.6 | 45.7 | 45.8 | 45.9 | 45.9 | 46.3  |    |
| GE 10000 |     | 34.9                             | 38.4 | 43.2 | 45.1 | 45.5 | 46.7 | 47.3 | 47.7 | 48.0 | 48.2 | 48.3 | 48.4 | 48.5 | 48.6 | 48.9  |    |
| GE 9000  |     | 35.7                             | 39.2 | 44.1 | 46.0 | 46.4 | 47.6 | 48.3 | 48.6 | 49.0 | 49.2 | 49.2 | 49.3 | 49.5 | 49.5 | 49.9  |    |
| GE 8000  |     | 39.8                             | 43.7 | 49.3 | 51.5 | 52.1 | 53.7 | 54.6 | 55.0 | 55.5 | 55.7 | 55.8 | 55.9 | 56.1 | 56.2 | 56.5  |    |
| GE 7000  |     | 40.4                             | 44.4 | 50.0 | 52.3 | 52.9 | 54.5 | 55.5 | 55.9 | 56.4 | 56.6 | 56.7 | 56.8 | 57.0 | 57.1 | 57.4  |    |
| GE 6000  |     | 40.5                             | 44.6 | 50.2 | 52.5 | 53.0 | 54.7 | 55.7 | 56.1 | 56.5 | 56.8 | 56.8 | 56.9 | 57.1 | 57.2 | 57.6  |    |
| GE 5000  |     | 41.7                             | 46.1 | 51.9 | 54.3 | 54.9 | 56.6 | 57.6 | 58.0 | 58.4 | 58.7 | 58.8 | 58.9 | 59.0 | 59.1 | 59.5  |    |
| GE 4500  |     | 42.1                             | 46.5 | 52.4 | 55.1 | 55.8 | 57.5 | 58.5 | 58.9 | 59.4 | 59.7 | 59.7 | 59.8 | 60.0 | 60.1 | 60.4  |    |
| GE 4000  |     | 46.7                             | 51.4 | 58.1 | 61.5 | 62.3 | 64.0 | 65.1 | 65.6 | 66.2 | 66.5 | 66.5 | 66.7 | 66.9 | 66.9 | 67.3  |    |
| GE 3500  |     | 48.6                             | 53.7 | 61.1 | 64.8 | 65.7 | 67.6 | 68.7 | 69.2 | 69.8 | 70.0 | 70.1 | 70.3 | 70.4 | 70.5 | 70.9  |    |
| GE 3000  |     | 55.5                             | 61.3 | 69.9 | 74.1 | 75.2 | 77.3 | 78.6 | 79.2 | 80.0 | 80.3 | 80.4 | 80.6 | 80.8 | 80.8 | 81.2  |    |
| GE 2500  |     | 56.4                             | 62.3 | 71.0 | 75.5 | 76.8 | 78.8 | 80.3 | 80.9 | 81.7 | 82.0 | 82.1 | 82.3 | 82.4 | 82.5 | 82.9  |    |
| GE 2000  |     | 57.8                             | 64.1 | 73.6 | 78.7 | 80.1 | 82.5 | 84.2 | 84.8 | 85.6 | 85.9 | 86.0 | 86.2 | 86.4 | 86.5 | 86.8  |    |
| GE 1800  |     | 57.9                             | 64.2 | 73.9 | 78.9 | 80.3 | 82.7 | 84.4 | 85.0 | 85.8 | 86.2 | 86.3 | 86.5 | 86.6 | 86.7 | 87.1  |    |
| GE 1500  |     | 58.8                             | 65.4 | 75.6 | 80.8 | 82.3 | 84.9 | 86.6 | 87.3 | 88.1 | 88.4 | 88.5 | 88.7 | 88.9 | 89.0 | 89.3  |    |
| GE 1200  |     | 59.4                             | 66.0 | 76.8 | 82.4 | 84.0 | 86.7 | 88.6 | 89.3 | 90.1 | 90.5 | 90.6 | 90.8 | 90.9 | 91.0 | 91.4  |    |
| GE 1000  |     | 59.8                             | 66.5 | 77.7 | 83.5 | 85.2 | 88.1 | 90.2 | 90.8 | 91.7 | 92.0 | 92.2 | 92.3 | 92.5 | 92.6 | 92.9  |    |
| GE 900   |     | 59.9                             | 66.6 | 78.0 | 83.9 | 85.7 | 88.7 | 90.8 | 91.5 | 92.4 | 92.8 | 92.9 | 93.1 | 93.3 | 93.4 | 93.7  |    |
| GE 800   |     | 60.0                             | 66.7 | 78.3 | 84.4 | 86.2 | 89.3 | 91.5 | 92.3 | 93.2 | 93.6 | 93.8 | 93.9 | 94.2 | 94.2 | 94.6  |    |
| GE 700   |     | 60.1                             | 66.9 | 78.7 | 84.9 | 86.9 | 90.1 | 92.4 | 93.4 | 94.4 | 94.8 | 94.9 | 95.1 | 95.3 | 95.4 | 95.7  |    |
| GE 600   |     | 60.1                             | 66.9 | 79.0 | 85.4 | 87.4 | 90.8 | 93.2 | 94.4 | 95.5 | 95.9 | 96.1 | 96.3 | 96.5 | 96.6 | 96.9  |    |
| GE 500   |     | 60.1                             | 67.0 | 79.1 | 85.9 | 87.9 | 91.5 | 94.2 | 95.4 | 96.5 | 97.1 | 97.3 | 97.5 | 97.7 | 97.8 | 98.1  |    |
| GE 400   |     | 60.1                             | 67.0 | 79.2 | 86.1 | 88.1 | 91.8 | 94.6 | 95.8 | 97.0 | 97.6 | 97.8 | 98.1 | 98.3 | 98.4 | 98.8  |    |
| GE 300   |     | 60.1                             | 67.0 | 79.2 | 86.1 | 88.2 | 91.9 | 94.7 | 95.9 | 97.2 | 97.8 | 98.1 | 98.3 | 98.6 | 98.7 | 99.1  |    |
| GE 200   |     | 60.1                             | 67.0 | 79.2 | 86.1 | 88.2 | 91.9 | 94.7 | 96.0 | 97.3 | 97.9 | 98.2 | 98.5 | 98.8 | 98.9 | 99.4  |    |
| GE 100   |     | 60.1                             | 67.1 | 79.2 | 86.1 | 88.2 | 91.9 | 94.7 | 96.0 | 97.3 | 97.9 | 98.2 | 98.5 | 98.9 | 99.0 | 99.7  |    |
| GE 0     |     | 60.1                             | 67.0 | 79.2 | 86.1 | 88.2 | 91.9 | 94.7 | 96.0 | 97.3 | 97.9 | 98.2 | 98.5 | 98.9 | 99.0 | 100.0 |    |

TOTAL NUMBER OF OBSERVATIONS: 7440

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: NOV

HOURS (LST): 0000-0100

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |       |      |
|---------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|
| IN      | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4  | GE 0 |
| NO CEIL | I    | 27.6                             | 29.5  | 33.8  | 35.4  | 35.6  | 36.3  | 36.8  | 37.4  | 37.8  | 38.0  | 38.3  | 38.4  | 38.9 | 39.1 | 39.8  |      |
| GE 2000 | I    | 29.7                             | 31.9  | 36.5  | 38.2  | 38.4  | 39.1  | 39.9  | 40.4  | 40.9  | 41.0  | 41.3  | 41.4  | 41.9 | 42.1 | 42.9  |      |
| GE 1800 | I    | 30.0                             | 32.1  | 36.7  | 38.4  | 38.6  | 39.3  | 40.1  | 40.7  | 41.1  | 41.2  | 41.6  | 41.7  | 42.1 | 42.3 | 43.1  |      |
| GE 1600 | I    | 30.0                             | 32.1  | 36.7  | 38.4  | 38.6  | 39.3  | 40.1  | 40.7  | 41.1  | 41.2  | 41.6  | 41.7  | 42.1 | 42.3 | 43.1  |      |
| GE 1400 | I    | 30.0                             | 32.1  | 36.7  | 38.4  | 38.6  | 39.3  | 40.1  | 40.7  | 41.1  | 41.2  | 41.6  | 41.7  | 42.1 | 42.3 | 43.1  |      |
| GE 1200 | I    | 30.0                             | 32.1  | 36.9  | 38.6  | 38.9  | 39.5  | 40.3  | 40.9  | 41.3  | 41.4  | 41.8  | 41.9  | 42.3 | 42.6 | 43.4  |      |
| GE 1000 | I    | 31.3                             | 33.7  | 38.9  | 40.5  | 40.8  | 41.4  | 42.2  | 42.8  | 43.2  | 43.4  | 43.7  | 43.8  | 44.3 | 44.5 | 45.3  |      |
| GE 900  | I    | 31.5                             | 34.5  | 40.0  | 41.7  | 41.9  | 42.6  | 43.4  | 43.9  | 44.4  | 44.5  | 44.8  | 44.9  | 45.4 | 45.6 | 46.4  |      |
| GE 800  | I    | 34.6                             | 37.5  | 44.0  | 45.7  | 45.9  | 46.7  | 47.5  | 48.1  | 48.5  | 48.6  | 49.0  | 49.1  | 49.5 | 49.8 | 50.6  |      |
| GE 700  | I    | 35.0                             | 38.0  | 44.8  | 46.5  | 46.7  | 47.5  | 48.6  | 49.2  | 49.7  | 49.8  | 50.1  | 50.2  | 50.7 | 50.9 | 51.7  |      |
| GE 600  | I    | 35.0                             | 38.0  | 44.6  | 46.5  | 46.7  | 47.5  | 48.6  | 49.2  | 49.7  | 49.8  | 50.1  | 50.2  | 50.7 | 50.9 | 51.7  |      |
| GE 500  | I    | 36.6                             | 39.8  | 47.4  | 49.4  | 49.7  | 50.5  | 51.6  | 52.1  | 52.6  | 52.7  | 53.0  | 53.2  | 53.6 | 53.8 | 54.6  |      |
| GE 450  | I    | 37.4                             | 40.7  | 48.6  | 50.6  | 50.8  | 51.9  | 53.0  | 53.6  | 54.1  | 54.2  | 54.5  | 54.6  | 55.1 | 55.3 | 56.1  |      |
| GE 400  | I    | 42.5                             | 46.8  | 55.7  | 58.2  | 58.4  | 59.9  | 61.0  | 61.6  | 62.0  | 62.2  | 62.5  | 62.6  | 63.1 | 63.3 | 64.1  |      |
| GE 350  | I    | 44.1                             | 48.6  | 58.1  | 60.6  | 60.8  | 62.4  | 63.5  | 64.1  | 64.5  | 64.6  | 65.0  | 65.1  | 65.5 | 65.8 | 66.6  |      |
| GE 300  | I    | 50.6                             | 56.0  | 66.4  | 69.4  | 69.7  | 71.4  | 72.5  | 73.2  | 73.8  | 73.9  | 74.2  | 74.3  | 74.8 | 75.0 | 75.8  |      |
| GE 250  | I    | 51.0                             | 56.4  | 67.1  | 70.3  | 70.6  | 72.3  | 73.4  | 74.1  | 74.7  | 74.8  | 75.1  | 75.2  | 75.7 | 75.9 | 76.7  |      |
| GE 200  | I    | 54.5                             | 60.4  | 72.1  | 75.6  | 76.1  | 78.0  | 79.3  | 80.1  | 80.9  | 81.0  | 81.3  | 81.4  | 81.9 | 82.1 | 82.9  |      |
| GE 180  | I    | 54.7                             | 60.6  | 72.5  | 76.0  | 76.6  | 78.5  | 79.7  | 80.5  | 81.3  | 81.4  | 81.8  | 81.9  | 82.3 | 82.5 | 83.3  |      |
| GE 150  | I    | 56.4                             | 62.4  | 74.4  | 78.7  | 79.5  | 81.6  | 83.0  | 83.8  | 84.6  | 84.7  | 85.0  | 85.1  | 85.6 | 85.8 | 86.6  |      |
| GE 120  | I    | 57.0                             | 63.1  | 76.0  | 80.4  | 81.2  | 83.3  | 85.0  | 86.0  | 86.9  | 87.0  | 87.4  | 87.5  | 88.0 | 88.2 | 89.0  |      |
| GE 100  | I    | 57.1                             | 63.4  | 76.7  | 81.1  | 82.0  | 84.5  | 86.5  | 87.5  | 88.4  | 88.5  | 89.5  | 89.9  | 89.9 | 89.9 | 90.4  |      |
| GE 90   | I    | 57.2                             | 63.5  | 77.6  | 82.1  | 83.0  | 85.5  | 87.5  | 88.5  | 89.4  | 89.5  | 89.9  | 90.0  | 90.0 | 90.0 | 90.4  |      |
| GE 80   | I    | 57.3                             | 63.7  | 78.0  | 83.0  | 83.9  | 86.7  | 88.7  | 89.8  | 90.7  | 90.8  | 91.1  | 91.2  | 91.7 | 91.9 | 92.7  |      |
| GE 70   | I    | 57.4                             | 64.1  | 78.5  | 83.6  | 84.5  | 87.3  | 89.3  | 90.3  | 91.3  | 91.4  | 91.8  | 91.9  | 92.3 | 92.6 | 93.4  |      |
| GE 60   | I    | 57.8                             | 64.4  | 79.1  | 84.1  | 85.0  | 88.3  | 90.4  | 91.4  | 92.5  | 92.6  | 92.9  | 93.0  | 93.5 | 93.7 | 94.5  |      |
| GE 50   | I    | 58.0                             | 64.6  | 79.4  | 84.6  | 85.6  | 89.2  | 91.9  | 92.9  | 93.9  | 94.0  | 94.4  | 94.5  | 94.9 | 95.2 | 95.9  |      |
| GE 40   | I    | 58.0                             | 64.6  | 79.5  | 85.1  | 86.1  | 89.8  | 92.5  | 93.5  | 94.5  | 94.6  | 94.9  | 95.0  | 95.5 | 95.7 | 96.5  |      |
| GE 30   | I    | 58.0                             | 64.6  | 79.5  | 85.1  | 86.1  | 89.8  | 92.6  | 93.7  | 94.8  | 94.9  | 95.3  | 95.4  | 95.8 | 96.1 | 97.0  |      |
| GE 20   | I    | 58.0                             | 64.6  | 79.5  | 85.1  | 86.1  | 89.8  | 92.6  | 93.8  | 94.9  | 95.0  | 95.4  | 95.5  | 96.2 | 96.4 | 98.1  |      |
| GE 10   | I    | 58.0                             | 64.6  | 79.5  | 85.1  | 86.1  | 89.8  | 92.6  | 93.8  | 95.0  | 95.2  | 95.6  | 95.7  | 96.6 | 96.8 | 99.9  |      |
| GE      | I    | 58.0                             | 64.6  | 79.5  | 85.1  | 86.1  | 89.8  | 92.6  | 93.8  | 95.0  | 95.2  | 95.6  | 95.7  | 96.6 | 96.8 | 100.0 |      |

TOTAL NUMBER OF OBSERVATIONS: 888



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(IST): 0300-0500

| CEILING<br>IN<br>FEET | GT<br>160 | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
|-----------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
| NO CEIL               |           | 24.0     | 27.6     | 31.5     | 33.0     | 33.2     | 34.0     | 34.5     | 35.0     | 35.6     | 35.7     | 35.9     | 36.1    | 36.1    | 36.3    | 36.8    |
| GE 20000              |           | 25.7     | 29.7     | 34.0     | 35.5     | 35.7     | 36.6     | 37.0     | 37.7     | 38.3     | 38.4     | 38.6     | 38.9    | 38.9    | 39.0    | 39.6    |
| GE 18000              |           | 25.8     | 29.8     | 34.1     | 35.6     | 35.8     | 36.7     | 37.2     | 37.8     | 38.4     | 38.5     | 38.7     | 39.0    | 39.0    | 39.1    | 39.8    |
| GE 16000              |           | 25.8     | 29.8     | 34.1     | 35.6     | 35.8     | 36.7     | 37.2     | 37.8     | 38.4     | 38.5     | 38.7     | 39.0    | 39.0    | 39.1    | 39.8    |
| GE 14000              |           | 25.8     | 29.8     | 34.1     | 35.6     | 35.8     | 36.7     | 37.2     | 37.8     | 38.4     | 38.5     | 38.7     | 39.0    | 39.0    | 39.1    | 39.8    |
| GE 12000              |           | 25.8     | 29.8     | 34.1     | 35.6     | 35.8     | 36.7     | 37.2     | 37.8     | 38.4     | 38.5     | 38.7     | 39.0    | 39.0    | 39.1    | 39.8    |
| GE 10000              |           | 26.4     | 30.6     | 35.0     | 36.5     | 36.7     | 37.6     | 38.1     | 38.7     | 39.3     | 39.4     | 39.6     | 39.9    | 39.9    | 40.0    | 40.7    |
| GE 9000               |           | 26.7     | 31.4     | 36.1     | 37.6     | 37.8     | 38.9     | 39.3     | 40.0     | 40.5     | 40.7     | 40.9     | 41.1    | 41.1    | 41.2    | 41.9    |
| GE 8000               |           | 28.9     | 33.8     | 39.9     | 41.3     | 41.7     | 42.7     | 43.2     | 43.9     | 44.5     | 44.6     | 44.8     | 45.0    | 45.0    | 45.2    | 45.8    |
| GE 7000               |           | 29.1     | 33.9     | 40.1     | 41.6     | 41.9     | 42.9     | 43.5     | 44.1     | 44.7     | 44.8     | 45.0     | 45.3    | 45.3    | 45.4    | 46.1    |
| GE 6000               |           | 29.1     | 33.9     | 40.1     | 41.6     | 41.9     | 42.9     | 43.5     | 44.1     | 44.7     | 44.8     | 45.0     | 45.3    | 45.3    | 45.4    | 46.1    |
| GE 5000               |           | 31.2     | 36.0     | 42.5     | 44.3     | 44.6     | 45.6     | 46.4     | 47.1     | 47.6     | 47.7     | 48.0     | 48.2    | 48.2    | 48.3    | 49.0    |
| GE 4500               |           | 32.8     | 37.7     | 44.8     | 46.7     | 47.1     | 48.3     | 49.1     | 49.8     | 50.3     | 50.5     | 50.7     | 50.9    | 50.9    | 51.0    | 51.7    |
| GE 4000               |           | 39.9     | 46.1     | 53.9     | 56.2     | 56.5     | 57.8     | 58.6     | 59.2     | 59.8     | 59.9     | 60.1     | 60.4    | 60.4    | 60.5    | 61.1    |
| GE 3500               |           | 42.3     | 48.9     | 57.1     | 59.5     | 59.8     | 61.4     | 62.2     | 62.8     | 63.4     | 63.5     | 63.7     | 64.0    | 64.0    | 64.1    | 64.8    |
| GE 3000               |           | 46.8     | 54.7     | 64.1     | 66.9     | 67.2     | 68.9     | 69.9     | 70.7     | 71.3     | 71.4     | 71.6     | 71.8    | 71.8    | 72.1    | 72.7    |
| GE 2500               |           | 47.7     | 55.6     | 65.0     | 68.1     | 68.5     | 70.2     | 71.2     | 72.0     | 72.5     | 72.6     | 72.9     | 73.1    | 73.1    | 73.3    | 74.0    |
| GE 2000               |           | 50.6     | 59.1     | 69.4     | 73.2     | 73.9     | 75.8     | 76.8     | 77.7     | 78.3     | 78.4     | 78.6     | 78.8    | 78.8    | 79.1    | 79.7    |
| GE 1800               |           | 50.7     | 59.2     | 69.6     | 73.4     | 74.1     | 76.0     | 77.0     | 77.9     | 78.5     | 78.6     | 78.8     | 79.1    | 79.1    | 79.3    | 80.0    |
| GE 1500               |           | 52.3     | 60.9     | 71.6     | 76.1     | 76.8     | 78.9     | 80.1     | 81.0     | 81.5     | 81.6     | 81.9     | 82.1    | 82.1    | 82.3    | 83.0    |
| GE 1200               |           | 52.9     | 61.8     | 73.8     | 78.5     | 79.6     | 82.1     | 83.6     | 84.5     | 85.1     | 85.2     | 85.5     | 85.7    | 85.7    | 85.9    | 86.6    |
| GE 1000               |           | 53.8     | 62.8     | 75.8     | 80.5     | 81.6     | 84.6     | 86.1     | 87.0     | 87.7     | 87.8     | 88.1     | 88.3    | 88.3    | 88.5    | 89.2    |
| GE 900                |           | 54.1     | 63.3     | 76.9     | 81.6     | 82.9     | 85.8     | 87.4     | 88.3     | 89.0     | 89.1     | 89.5     | 89.8    | 89.8    | 90.0    | 90.7    |
| GE 800                |           | 54.1     | 63.6     | 78.0     | 83.0     | 84.1     | 87.0     | 88.6     | 89.5     | 90.2     | 90.3     | 90.8     | 91.0    | 91.0    | 91.2    | 91.9    |
| GE 700                |           | 54.3     | 64.0     | 78.4     | 83.3     | 84.5     | 87.4     | 89.0     | 89.9     | 90.6     | 90.9     | 91.3     | 91.8    | 91.8    | 92.0    | 92.7    |
| GE 600                |           | 54.7     | 64.4     | 79.3     | 84.6     | 85.7     | 89.0     | 90.5     | 91.4     | 92.3     | 92.5     | 92.9     | 93.4    | 93.4    | 93.6    | 94.3    |
| GE 500                |           | 54.7     | 64.4     | 79.4     | 84.7     | 85.9     | 89.2     | 91.7     | 92.6     | 93.6     | 93.7     | 94.3     | 94.7    | 94.7    | 94.9    | 95.6    |
| GE 400                |           | 54.8     | 64.5     | 79.5     | 85.0     | 86.3     | 89.5     | 92.1     | 93.0     | 94.1     | 94.3     | 94.8     | 95.3    | 95.3    | 95.6    | 96.3    |
| GE 300                |           | 54.8     | 64.5     | 79.5     | 85.0     | 86.3     | 89.5     | 92.1     | 93.1     | 94.5     | 94.6     | 95.2     | 95.7    | 95.8    | 96.2    | 97.1    |
| GE 200                |           | 54.8     | 64.5     | 79.5     | 85.0     | 86.3     | 89.5     | 92.1     | 93.5     | 94.8     | 94.9     | 95.5     | 96.2    | 96.4    | 97.0    | 98.3    |
| GE 100                |           | 54.8     | 64.5     | 79.5     | 85.0     | 86.3     | 89.5     | 92.1     | 93.5     | 94.8     | 94.9     | 95.6     | 96.3    | 96.7    | 97.7    | 100.0   |
| GE 0                  |           | 54.8     | 64.5     | 79.5     | 85.0     | 86.3     | 89.5     | 92.1     | 93.5     | 94.8     | 94.9     | 95.6     | 96.3    | 96.7    | 97.7    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: NOV HOURS(LST): 0600-0600

| CEILING  |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |
|----------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|
| IN       | GT  | GE                               | GE   | GE   | GE   | GE   | GL   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE |
| FEET     | 160 | 90                               | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     | 0  |
| NO CEIL  |     | 21.4                             | 23.4 | 25.7 | 27.8 | 27.9 | 29.0 | 29.7 | 30.0 | 30.4 | 30.5 | 30.7 | 30.8 | 31.2 | 31.5 | 32.2  |    |
| GE 20000 |     | 23.7                             | 25.8 | 28.6 | 30.6 | 31.0 | 32.2 | 32.8 | 33.3 | 33.6 | 33.7 | 34.2 | 34.4 | 34.8 | 35.1 | 36.0  |    |
| GE 18000 |     | 24.0                             | 26.2 | 29.0 | 31.3 | 31.5 | 32.7 | 33.4 | 33.9 | 34.2 | 34.3 | 34.8 | 35.0 | 35.3 | 35.7 | 36.6  |    |
| GE 16000 |     | 24.2                             | 26.3 | 29.1 | 31.4 | 31.6 | 32.8 | 33.5 | 34.0 | 34.3 | 34.4 | 34.9 | 35.1 | 35.4 | 35.8 | 36.7  |    |
| GE 14000 |     | 24.2                             | 26.3 | 29.1 | 31.4 | 31.6 | 32.8 | 33.5 | 34.0 | 34.3 | 34.4 | 34.9 | 35.1 | 35.4 | 35.8 | 36.7  |    |
| GE 12000 |     | 24.2                             | 26.3 | 29.1 | 31.4 | 31.6 | 32.8 | 33.5 | 34.0 | 34.3 | 34.4 | 34.9 | 35.1 | 35.4 | 35.8 | 36.7  |    |
| GE 10000 |     | 25.1                             | 27.4 | 30.5 | 32.8 | 33.1 | 34.4 | 35.1 | 35.7 | 36.0 | 36.1 | 36.6 | 36.8 | 37.1 | 37.5 | 38.4  |    |
| GE 9000  |     | 26.5                             | 28.9 | 32.1 | 34.5 | 34.6 | 36.2 | 36.9 | 37.5 | 37.8 | 37.9 | 38.4 | 38.6 | 38.9 | 39.3 | 40.2  |    |
| GE 8000  |     | 29.5                             | 32.3 | 36.5 | 39.3 | 39.5 | 41.0 | 41.9 | 42.4 | 42.8 | 42.9 | 43.3 | 43.6 | 43.9 | 44.2 | 45.1  |    |
| GE 7000  |     | 29.6                             | 32.5 | 36.8 | 39.6 | 39.6 | 41.3 | 42.2 | 42.8 | 43.1 | 43.2 | 43.7 | 43.9 | 44.4 | 44.7 | 45.6  |    |
| GE 6000  |     | 29.6                             | 32.5 | 36.6 | 39.6 | 39.6 | 41.3 | 42.2 | 42.8 | 43.1 | 43.2 | 43.7 | 43.9 | 44.4 | 44.7 | 45.6  |    |
| GE 5000  |     | 31.7                             | 34.8 | 39.4 | 42.3 | 42.7 | 44.5 | 45.5 | 46.0 | 46.5 | 46.6 | 47.1 | 47.4 | 47.9 | 48.2 | 49.1  |    |
| GE 4500  |     | 32.8                             | 36.1 | 41.1 | 44.5 | 44.9 | 46.7 | 47.7 | 48.3 | 48.8 | 48.9 | 49.3 | 49.7 | 50.1 | 50.5 | 51.4  |    |
| GE 4000  |     | 39.6                             | 43.5 | 49.5 | 53.0 | 53.5 | 55.4 | 56.5 | 57.1 | 57.6 | 57.7 | 58.2 | 58.6 | 59.0 | 59.4 | 60.3  |    |
| GE 3500  |     | 41.4                             | 45.7 | 52.0 | 55.9 | 56.4 | 58.4 | 59.6 | 60.2 | 60.6 | 60.7 | 61.3 | 61.6 | 62.1 | 62.4 | 63.3  |    |
| GE 3000  |     | 47.0                             | 51.9 | 56.9 | 63.1 | 63.6 | 66.0 | 67.3 | 67.8 | 68.4 | 68.5 | 69.1 | 69.4 | 69.9 | 70.2 | 71.3  |    |
| GE 2500  |     | 48.2                             | 53.4 | 60.9 | 65.2 | 65.9 | 68.2 | 69.4 | 70.0 | 70.7 | 70.8 | 71.3 | 71.7 | 72.1 | 72.5 | 73.6  |    |
| GE 2000  |     | 51.2                             | 56.8 | 65.8 | 70.9 | 71.6 | 73.8 | 75.1 | 75.6 | 76.4 | 76.5 | 77.1 | 77.4 | 77.9 | 78.2 | 79.3  |    |
| GE 1800  |     | 51.4                             | 57.0 | 66.0 | 71.1 | 71.8 | 74.0 | 75.3 | 75.8 | 76.6 | 76.7 | 77.3 | 77.7 | 78.1 | 78.4 | 79.7  |    |
| GE 1500  |     | 52.8                             | 58.6 | 68.3 | 73.7 | 74.5 | 76.7 | 78.4 | 79.1 | 79.9 | 80.0 | 80.6 | 80.9 | 81.4 | 81.7 | 83.0  |    |
| GE 1200  |     | 53.7                             | 59.8 | 69.9 | 76.0 | 76.9 | 79.5 | 81.4 | 82.2 | 83.1 | 83.2 | 83.7 | 84.1 | 84.5 | 84.9 | 86.1  |    |
| GE 1000  |     | 54.2                             | 60.4 | 71.4 | 78.0 | 79.1 | 82.2 | 84.1 | 85.1 | 86.3 | 86.5 | 87.0 | 87.4 | 87.9 | 88.3 | 89.6  |    |
| GE 900   |     | 54.3                             | 60.6 | 71.8 | 78.3 | 79.6 | 82.6 | 84.5 | 85.6 | 86.8 | 86.9 | 87.5 | 87.8 | 88.4 | 88.7 | 90.1  |    |
| GE 800   |     | 54.4                             | 60.8 | 72.6 | 79.1 | 80.6 | 83.9 | 85.8 | 86.8 | 88.0 | 88.1 | 88.7 | 89.1 | 89.6 | 90.0 | 91.3  |    |
| GE 700   |     | 54.6                             | 61.1 | 72.9 | 79.6 | 81.2 | 84.5 | 86.5 | 87.5 | 88.9 | 89.1 | 89.6 | 90.0 | 90.5 | 90.9 | 92.2  |    |
| GE 600   |     | 54.6                             | 61.1 | 73.3 | 80.2 | 81.9 | 85.4 | 87.7 | 88.7 | 90.2 | 90.3 | 90.9 | 91.2 | 91.8 | 92.1 | 93.5  |    |
| GE 500   |     | 54.6                             | 61.2 | 73.5 | 80.6 | 82.5 | 86.5 | 89.5 | 90.7 | 92.2 | 92.3 | 92.9 | 93.2 | 93.8 | 94.1 | 95.5  |    |
| GE 400   |     | 54.6                             | 61.2 | 73.8 | 81.0 | 83.1 | 87.1 | 90.7 | 92.1 | 93.7 | 93.8 | 94.4 | 94.8 | 95.6 | 95.9 | 97.3  |    |
| GE 300   |     | 54.6                             | 61.2 | 73.9 | 81.2 | 83.2 | 87.2 | 90.9 | 92.2 | 94.4 | 94.6 | 95.1 | 95.6 | 96.4 | 96.7 | 98.1  |    |
| GE 200   |     | 54.6                             | 61.2 | 73.9 | 81.2 | 83.2 | 87.2 | 91.1 | 92.6 | 94.9 | 95.1 | 95.7 | 96.2 | 97.0 | 97.3 | 98.9  |    |
| GE 100   |     | 54.6                             | 61.2 | 73.9 | 81.2 | 83.2 | 87.2 | 91.1 | 92.6 | 94.9 | 95.1 | 95.7 | 96.2 | 97.0 | 97.4 | 100.0 |    |
| GE       | 0   | 54.6                             | 61.2 | 73.9 | 81.2 | 83.2 | 87.2 | 91.1 | 92.6 | 94.9 | 95.1 | 95.7 | 96.2 | 97.0 | 97.4 | 100.0 |    |

TOTAL NUMBER OF OBSERVATIONS: 866

GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET |           | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|-----------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160 | GE<br>90                         | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>C |
| NO CEIL               |           | 19.7                             | 20.1     | 22.5     | 24.4     | 24.6     | 25.7     | 26.1     | 26.6     | 26.9     | 27.1     | 27.1     | 27.1    | 27.4    | 27.4    | 27.7    |
| GE 20000              |           | 25.1                             | 26.9     | 30.3     | 32.5     | 32.6     | 33.8     | 34.6     | 35.1     | 35.6     | 35.9     | 35.9     | 35.9    | 36.1    | 36.1    | 36.4    |
| GE 18000              |           | 25.1                             | 26.9     | 30.3     | 32.5     | 32.9     | 33.9     | 34.7     | 35.2     | 35.7     | 36.0     | 36.0     | 36.0    | 36.2    | 36.2    | 36.5    |
| GE 16000              |           | 25.3                             | 27.1     | 30.5     | 32.7     | 33.1     | 34.2     | 35.0     | 35.4     | 36.0     | 36.2     | 36.2     | 36.2    | 36.4    | 36.4    | 36.6    |
| GE 14000              |           | 25.3                             | 27.1     | 30.5     | 32.7     | 33.1     | 34.2     | 35.0     | 35.4     | 36.0     | 36.2     | 36.2     | 36.2    | 36.4    | 36.4    | 36.6    |
| GE 12000              |           | 25.5                             | 27.3     | 30.7     | 32.8     | 33.3     | 34.3     | 35.1     | 35.5     | 36.1     | 36.3     | 36.3     | 36.3    | 36.5    | 36.5    | 36.9    |
| GE 10000              |           | 26.6                             | 28.5     | 32.1     | 34.3     | 34.7     | 35.7     | 36.8     | 37.2     | 37.8     | 38.0     | 38.0     | 38.0    | 38.2    | 38.2    | 38.6    |
| GE 9000               |           | 27.5                             | 29.5     | 33.7     | 35.9     | 36.3     | 37.3     | 38.3     | 38.8     | 39.4     | 39.6     | 39.6     | 39.6    | 39.8    | 39.8    | 40.2    |
| GE 8000               |           | 30.5                             | 33.3     | 38.9     | 41.3     | 41.9     | 42.9     | 43.9     | 44.3     | 44.9     | 45.1     | 45.1     | 45.1    | 45.4    | 45.4    | 45.7    |
| GE 7000               |           | 31.3                             | 34.2     | 39.8     | 42.2     | 42.8     | 43.8     | 44.8     | 45.5     | 46.0     | 46.3     | 46.3     | 46.3    | 46.5    | 46.5    | 46.8    |
| GE 6000               |           | 31.3                             | 34.2     | 39.8     | 42.2     | 42.8     | 43.8     | 44.8     | 45.5     | 46.0     | 46.3     | 46.3     | 46.3    | 46.5    | 46.5    | 46.8    |
| GE 5000               |           | 33.7                             | 36.7     | 42.9     | 45.2     | 45.6     | 47.1     | 48.2     | 48.9     | 49.4     | 49.7     | 49.7     | 49.7    | 49.9    | 49.9    | 50.2    |
| GE 4500               |           | 34.8                             | 38.3     | 44.7     | 47.6     | 48.2     | 49.5     | 50.7     | 51.4     | 51.9     | 52.1     | 52.1     | 52.1    | 52.4    | 52.4    | 52.7    |
| GE 4000               |           | 40.6                             | 45.1     | 52.4     | 55.7     | 56.7     | 58.3     | 59.5     | 60.3     | 60.9     | 61.1     | 61.1     | 61.1    | 61.3    | 61.3    | 61.7    |
| GE 3500               |           | 43.2                             | 47.9     | 55.7     | 59.4     | 60.4     | 62.0     | 63.2     | 64.0     | 64.6     | 64.8     | 64.8     | 64.8    | 65.0    | 65.0    | 65.4    |
| GE 3000               |           | 46.9                             | 51.9     | 60.4     | 64.5     | 65.5     | 67.2     | 68.6     | 69.3     | 70.2     | 70.5     | 70.5     | 70.5    | 70.7    | 70.7    | 71.2    |
| GE 2500               |           | 47.7                             | 52.8     | 61.5     | 65.7     | 67.0     | 68.7     | 70.1     | 70.9     | 71.8     | 72.1     | 72.1     | 72.1    | 72.3    | 72.3    | 72.7    |
| GE 2000               |           | 50.5                             | 56.2     | 66.3     | 71.7     | 73.0     | 74.9     | 76.5     | 77.3     | 78.2     | 78.5     | 78.5     | 78.5    | 78.7    | 78.7    | 79.2    |
| GE 1800               |           | 50.7                             | 56.4     | 66.6     | 72.1     | 73.3     | 75.2     | 76.8     | 77.7     | 78.6     | 79.0     | 79.0     | 79.0    | 79.2    | 79.2    | 79.6    |
| GE 1500               |           | 51.9                             | 57.8     | 68.6     | 75.0     | 76.4     | 78.4     | 80.5     | 81.4     | 82.4     | 82.7     | 82.7     | 82.7    | 82.9    | 82.9    | 83.4    |
| GE 1200               |           | 52.6                             | 59.2     | 70.4     | 77.4     | 78.8     | 81.1     | 83.8     | 84.7     | 85.7     | 86.1     | 86.2     | 86.2    | 86.4    | 86.4    | 86.9    |
| GE 1000               |           | 53.3                             | 60.0     | 72.3     | 80.2     | 82.1     | 84.6     | 87.1     | 88.6     | 89.6     | 89.9     | 90.0     | 90.0    | 90.3    | 90.3    | 90.7    |
| GE 900                |           | 53.4                             | 60.1     | 72.5     | 80.5     | 82.5     | 85.0     | 88.0     | 88.9     | 89.9     | 90.3     | 90.4     | 90.4    | 90.6    | 90.6    | 91.1    |
| GE 800                |           | 53.5                             | 60.2     | 73.0     | 81.4     | 83.4     | 86.1     | 89.1     | 90.0     | 91.1     | 91.4     | 91.5     | 91.5    | 91.7    | 91.7    | 92.2    |
| GE 700                |           | 53.5                             | 60.4     | 73.5     | 82.0     | 84.2     | 87.3     | 90.4     | 91.3     | 92.3     | 92.6     | 92.8     | 92.8    | 93.2    | 93.2    | 93.7    |
| GE 600                |           | 53.5                             | 60.4     | 73.6     | 82.2     | 84.6     | 88.0     | 91.2     | 92.1     | 93.1     | 93.4     | 93.6     | 93.6    | 94.0    | 94.0    | 94.5    |
| GE 500                |           | 53.5                             | 60.4     | 73.6     | 82.4     | 84.7     | 88.2     | 92.2     | 93.3     | 94.6     | 95.0     | 95.1     | 95.1    | 95.6    | 95.6    | 96.0    |
| GE 400                |           | 53.5                             | 60.5     | 73.8     | 82.5     | 85.0     | 88.7     | 93.2     | 94.5     | 96.0     | 96.6     | 96.7     | 96.7    | 97.2    | 97.2    | 97.6    |
| GE 300                |           | 53.5                             | 60.5     | 73.9     | 82.6     | 85.1     | 88.9     | 93.6     | 94.8     | 96.5     | 97.5     | 97.6     | 97.6    | 98.3    | 98.3    | 98.9    |
| GE 200                |           | 53.5                             | 60.5     | 73.9     | 82.6     | 85.1     | 88.9     | 93.6     | 94.8     | 96.5     | 97.5     | 97.6     | 97.6    | 98.4    | 98.4    | 99.2    |
| GE 100                |           | 53.5                             | 60.5     | 73.9     | 82.6     | 85.1     | 88.9     | 93.6     | 94.8     | 96.5     | 97.5     | 97.6     | 97.6    | 98.5    | 98.6    | 100.0   |
| GE C                  |           | 53.5                             | 60.5     | 73.9     | 82.6     | 85.1     | 88.9     | 93.6     | 94.8     | 96.5     | 97.5     | 97.6     | 97.6    | 98.5    | 98.6    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 884

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87

MONTH: NOV

HOURS(IST): 1200-1400

| CEILING  |    | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|----------|----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| IN       | GT | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    |
| FEET     | 1  | 160                              | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 9    | 5    | 4    | 0     |
| NO CEIL  |    | 21.1                             | 22.6 | 25.3 | 26.2 | 26.6 | 27.6 | 27.9 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.1 | 28.3 | 29.3 | 28.4  |
| GE 20000 |    | 27.7                             | 29.6 | 33.1 | 34.5 | 34.6 | 36.1 | 36.5 | 36.7 | 36.7 | 36.8 | 36.8 | 36.9 | 37.0 | 37.0 | 37.0 | 37.1  |
| GE 18000 |    | 27.8                             | 29.7 | 33.3 | 34.6 | 35.0 | 36.2 | 36.7 | 36.8 | 36.8 | 36.9 | 36.9 | 37.0 | 37.1 | 37.1 | 37.1 | 37.2  |
| GE 16000 |    | 28.1                             | 30.1 | 33.6 | 35.0 | 35.3 | 36.5 | 37.0 | 37.1 | 37.1 | 37.2 | 37.2 | 37.3 | 37.5 | 37.5 | 37.5 | 37.6  |
| GE 14000 |    | 28.1                             | 30.1 | 33.6 | 35.0 | 35.3 | 36.5 | 37.0 | 37.1 | 37.1 | 37.2 | 37.2 | 37.3 | 37.5 | 37.5 | 37.5 | 37.6  |
| GE 12000 |    | 28.4                             | 30.3 | 33.8 | 35.2 | 35.5 | 36.8 | 37.2 | 37.3 | 37.3 | 37.5 | 37.5 | 37.6 | 37.7 | 37.7 | 37.7 | 37.8  |
| GE 10000 |    | 30.3                             | 32.6 | 36.1 | 37.5 | 37.9 | 39.2 | 39.6 | 39.7 | 39.7 | 39.8 | 39.8 | 40.0 | 40.1 | 40.1 | 40.1 | 40.2  |
| GE 9000  |    | 31.4                             | 33.7 | 37.8 | 39.4 | 39.8 | 41.1 | 41.5 | 41.7 | 41.7 | 41.8 | 41.8 | 41.9 | 42.0 | 42.0 | 42.0 | 42.1  |
| GE 8000  |    | 35.2                             | 38.0 | 43.0 | 44.8 | 45.4 | 46.7 | 47.2 | 47.3 | 47.3 | 47.4 | 47.4 | 47.6 | 47.7 | 47.7 | 47.7 | 47.8  |
| GE 7000  |    | 35.8                             | 38.7 | 43.9 | 45.9 | 46.4 | 47.7 | 48.2 | 48.4 | 48.4 | 48.5 | 48.5 | 48.6 | 48.7 | 48.7 | 48.7 | 48.8  |
| GE 6000  |    | 35.8                             | 38.7 | 43.9 | 45.9 | 46.4 | 47.7 | 48.2 | 48.4 | 48.4 | 48.5 | 48.5 | 48.6 | 48.7 | 48.7 | 48.7 | 48.8  |
| GE 5000  |    | 37.2                             | 40.2 | 45.7 | 47.7 | 48.2 | 49.8 | 50.4 | 50.5 | 50.5 | 50.6 | 50.6 | 50.7 | 50.9 | 50.9 | 50.9 | 51.0  |
| GE 4500  |    | 38.0                             | 41.1 | 47.6 | 49.7 | 50.3 | 52.0 | 52.6 | 52.7 | 52.7 | 52.8 | 52.8 | 52.9 | 53.0 | 53.0 | 53.0 | 53.1  |
| GE 4000  |    | 42.3                             | 46.2 | 53.7 | 56.6 | 57.3 | 59.4 | 59.9 | 60.0 | 60.0 | 60.2 | 60.2 | 60.3 | 60.4 | 60.4 | 60.4 | 60.5  |
| GE 3500  |    | 45.3                             | 49.5 | 57.1 | 60.0 | 60.6 | 62.9 | 63.5 | 63.6 | 63.6 | 63.7 | 63.7 | 63.8 | 63.9 | 63.9 | 63.9 | 64.0  |
| GE 3000  |    | 50.7                             | 55.4 | 63.9 | 67.9 | 68.7 | 70.7 | 71.4 | 71.7 | 71.9 | 72.0 | 72.0 | 72.1 | 72.2 | 72.2 | 72.2 | 72.3  |
| GE 2500  |    | 52.2                             | 57.1 | 66.1 | 70.1 | 71.1 | 73.3 | 74.0 | 74.6 | 74.7 | 74.8 | 74.8 | 74.9 | 75.0 | 75.0 | 75.0 | 75.1  |
| GE 2000  |    | 54.7                             | 61.0 | 71.1 | 75.9 | 77.1 | 80.0 | 80.8 | 81.4 | 81.5 | 81.6 | 81.6 | 81.7 | 81.8 | 81.8 | 81.8 | 81.9  |
| GE 1800  |    | 55.1                             | 61.3 | 71.4 | 76.3 | 77.4 | 80.4 | 81.2 | 81.7 | 81.8 | 82.0 | 82.0 | 82.1 | 82.2 | 82.2 | 82.2 | 82.3  |
| GE 1500  |    | 56.8                             | 63.6 | 73.7 | 79.3 | 80.8 | 84.1 | 85.2 | 85.9 | 86.0 | 86.2 | 86.2 | 86.3 | 86.4 | 86.4 | 86.4 | 86.5  |
| GE 1200  |    | 57.3                             | 64.4 | 75.4 | 82.2 | 84.6 | 87.5 | 88.6 | 89.6 | 89.8 | 89.9 | 89.9 | 90.0 | 90.1 | 90.1 | 90.1 | 90.2  |
| GE 1000  |    | 57.7                             | 65.2 | 77.0 | 84.0 | 86.2 | 90.2 | 91.8 | 92.7 | 93.0 | 93.1 | 93.1 | 93.2 | 93.3 | 93.3 | 93.3 | 93.4  |
| GE 900   |    | 58.1                             | 65.6 | 77.6 | 85.0 | 87.2 | 91.4 | 93.1 | 94.0 | 94.2 | 94.3 | 94.3 | 94.4 | 94.6 | 94.6 | 94.6 | 94.7  |
| GE 800   |    | 58.2                             | 65.8 | 78.5 | 86.3 | 88.6 | 93.0 | 94.7 | 95.6 | 95.8 | 95.9 | 95.9 | 96.0 | 96.1 | 96.1 | 96.1 | 96.2  |
| GE 700   |    | 58.2                             | 65.8 | 78.7 | 86.7 | 89.1 | 93.4 | 95.1 | 96.3 | 96.5 | 96.6 | 96.6 | 96.7 | 96.8 | 96.8 | 96.8 | 96.9  |
| GE 600   |    | 58.2                             | 65.8 | 78.7 | 86.7 | 89.1 | 93.5 | 95.5 | 96.6 | 96.6 | 96.6 | 96.6 | 96.7 | 96.8 | 96.8 | 96.8 | 96.9  |
| GE 500   |    | 58.3                             | 65.9 | 78.8 | 86.8 | 89.2 | 94.1 | 96.1 | 97.4 | 97.6 | 97.7 | 97.7 | 97.7 | 97.8 | 97.8 | 97.8 | 97.9  |
| GE 400   |    | 58.3                             | 65.9 | 78.8 | 86.8 | 89.2 | 94.3 | 96.5 | 98.0 | 98.3 | 98.4 | 98.4 | 98.6 | 98.8 | 98.8 | 98.8 | 98.9  |
| GE 300   |    | 58.3                             | 65.9 | 78.8 | 87.1 | 89.4 | 94.6 | 96.7 | 98.2 | 98.8 | 98.9 | 98.9 | 99.1 | 99.2 | 99.2 | 99.2 | 99.3  |
| GE 200   |    | 58.3                             | 65.9 | 78.8 | 87.1 | 89.4 | 94.6 | 96.7 | 98.2 | 98.9 | 99.0 | 99.0 | 99.3 | 99.5 | 99.5 | 99.5 | 99.7  |
| GE 100   |    | 58.3                             | 65.9 | 78.8 | 87.1 | 89.4 | 94.6 | 96.7 | 98.2 | 98.9 | 99.0 | 99.0 | 99.3 | 99.5 | 99.5 | 99.5 | 100.0 |
| GE 0     |    | 58.3                             | 65.9 | 78.8 | 87.1 | 89.4 | 94.6 | 96.7 | 98.2 | 98.9 | 99.0 | 99.0 | 99.3 | 99.5 | 99.5 | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 861

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(IST): 1500-1700

| CEILING<br>IN<br>FEET |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|-----------------------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
|                       | GT  | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE |
|                       | 160 | 90                               | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | U    |    |
| NO CEIL               |     | 20.7                             | 22.6 | 24.5 | 26.1 | 26.4 | 27.8 | 28.3 | 28.3 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |    |
| GE 2000               |     | 24.9                             | 26.8 | 29.9 | 32.0 | 32.3 | 33.9 | 34.5 | 34.5 | 34.7 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |    |
| GE 1800               |     | 24.9                             | 26.8 | 29.9 | 32.0 | 32.3 | 33.9 | 34.5 | 34.5 | 34.7 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |    |
| GE 1600               |     | 25.2                             | 27.0 | 30.2 | 32.2 | 32.5 | 34.1 | 34.7 | 34.7 | 34.9 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |    |
| GE 1400               |     | 25.2                             | 27.0 | 30.2 | 32.2 | 32.5 | 34.1 | 34.7 | 34.7 | 34.9 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |    |
| GE 1200               |     | 25.5                             | 27.3 | 30.8 | 32.9 | 33.2 | 34.8 | 35.4 | 35.4 | 35.6 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 |    |
| GE 1000               |     | 27.2                             | 29.6 | 33.2 | 35.3 | 35.6 | 37.2 | 37.8 | 37.9 | 38.2 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 |    |
| GE 900                |     | 29.1                             | 31.6 | 36.1 | 38.9 | 39.2 | 40.8 | 41.5 | 41.6 | 42.0 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 |    |
| GE 800                |     | 33.6                             | 36.3 | 41.5 | 44.3 | 44.9 | 46.6 | 47.4 | 47.5 | 48.0 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 |    |
| GE 700                |     | 34.9                             | 37.8 | 43.3 | 46.1 | 46.7 | 48.4 | 49.2 | 49.3 | 49.8 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 |    |
| GE 600                |     | 34.9                             | 37.8 | 43.3 | 46.1 | 46.7 | 48.4 | 49.2 | 49.3 | 49.8 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 |    |
| GE 500                |     | 37.2                             | 40.1 | 46.0 | 48.9 | 49.4 | 51.2 | 52.0 | 52.2 | 52.6 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 |    |
| GE 450                |     | 38.0                             | 41.0 | 47.4 | 50.2 | 50.8 | 52.8 | 53.6 | 53.7 | 54.2 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 |    |
| GE 400                |     | 43.2                             | 46.6 | 53.6 | 56.6 | 57.3 | 59.3 | 60.1 | 60.2 | 60.7 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 |    |
| GE 350                |     | 45.2                             | 48.9 | 56.2 | 59.4 | 60.1 | 62.2 | 63.0 | 63.2 | 63.6 | 63.7 | 63.7 | 63.7 | 63.7 | 63.7 | 63.7 |    |
| GE 300                |     | 50.9                             | 55.1 | 64.3 | 68.6 | 69.3 | 71.9 | 72.7 | 72.9 | 73.4 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 |    |
| GE 250                |     | 51.7                             | 56.3 | 66.1 | 70.5 | 71.3 | 74.4 | 75.2 | 75.4 | 75.9 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 |    |
| GE 200                |     | 54.5                             | 59.5 | 70.9 | 76.4 | 77.2 | 80.6 | 81.5 | 81.7 | 82.3 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 |    |
| GE 180                |     | 54.6                             | 59.6 | 71.0 | 76.9 | 77.7 | 81.1 | 82.0 | 82.2 | 82.9 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |    |
| GE 160                |     | 55.4                             | 60.4 | 72.9 | 79.4 | 80.2 | 84.0 | 85.1 | 85.4 | 86.1 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 |    |
| GE 120                |     | 56.2                             | 61.6 | 74.6 | 82.4 | 84.0 | 88.2 | 89.9 | 90.6 | 91.5 | 91.6 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 |    |
| GE 100                |     | 56.2                             | 61.6 | 75.1 | 82.8 | 84.9 | 89.5 | 91.4 | 92.1 | 93.1 | 93.2 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 |    |
| GE 90                 |     | 56.5                             | 61.9 | 75.4 | 83.1 | 85.3 | 89.9 | 92.0 | 92.6 | 93.7 | 93.8 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 |    |
| GE 80                 |     | 56.9                             | 62.5 | 76.4 | 84.2 | 86.4 | 91.0 | 93.1 | 93.8 | 94.9 | 95.0 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 |    |
| GE 70                 |     | 57.0                             | 62.6 | 76.5 | 84.5 | 86.7 | 91.7 | 93.9 | 94.6 | 95.9 | 96.7 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 |    |
| GE 60                 |     | 57.0                             | 62.6 | 76.6 | 84.6 | 86.8 | 92.0 | 94.2 | 94.9 | 96.4 | 96.5 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 |    |
| GE 50                 |     | 57.0                             | 62.7 | 76.8 | 84.7 | 87.0 | 92.6 | 95.2 | 95.9 | 97.4 | 97.5 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 |    |
| GE 40                 |     | 57.0                             | 62.7 | 76.9 | 84.8 | 87.1 | 92.7 | 95.4 | 96.0 | 98.0 | 98.1 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 |    |
| GE 30                 |     | 57.0                             | 62.7 | 76.9 | 84.8 | 87.1 | 92.7 | 95.4 | 96.0 | 98.3 | 98.4 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 |    |
| GE 20                 |     | 57.0                             | 62.7 | 76.9 | 84.8 | 87.1 | 92.7 | 95.4 | 96.0 | 98.3 | 98.4 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 |    |
| GE 10                 |     | 57.0                             | 62.7 | 76.9 | 84.8 | 87.1 | 92.7 | 95.4 | 96.0 | 98.3 | 98.4 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 |    |
| GE 0                  |     | 57.0                             | 62.7 | 76.9 | 84.8 | 87.1 | 92.7 | 95.4 | 96.0 | 98.3 | 98.4 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 |    |

TOTAL NUMBER OF OBSERVATIONS: 962

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 03596 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(IST): 1900-2000

| CEILING  |   | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |      |      |      |       |  |
|----------|---|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|--|
| IN FEET  |   | GT 160                           | GE 90 | GE 80 | GE 60 | GE 40 | GE 30 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |  |
| NO CEIL  | 1 | 24.3                             | 25.9  | 28.3  | 37.4  | 30.6  | 32.3  | 33.0  | 33.1  | 33.3  | 33.3  | 33.3  | 33.4 | 33.6 | 33.7 | 33.9  |  |
| GE 20000 |   | 26.8                             | 28.5  | 31.4  | 33.9  | 34.2  | 35.9  | 36.7  | 36.8  | 37.0  | 37.2  | 37.2  | 37.3 | 37.6 | 37.7 | 37.9  |  |
| GE 18000 |   | 26.8                             | 28.5  | 31.4  | 33.9  | 34.2  | 35.9  | 36.7  | 36.8  | 37.0  | 37.2  | 37.2  | 37.3 | 37.6 | 37.7 | 37.9  |  |
| GE 16000 |   | 26.9                             | 28.6  | 31.6  | 34.1  | 34.3  | 36.0  | 36.8  | 36.9  | 37.1  | 37.3  | 37.3  | 37.5 | 37.7 | 37.8 | 38.0  |  |
| GE 14000 |   | 26.9                             | 28.6  | 31.6  | 34.1  | 34.3  | 36.0  | 36.8  | 36.9  | 37.1  | 37.3  | 37.3  | 37.5 | 37.7 | 37.8 | 38.0  |  |
| GE 12000 |   | 27.0                             | 28.8  | 32.1  | 34.6  | 34.8  | 36.5  | 37.3  | 37.5  | 37.7  | 37.9  | 37.9  | 38.0 | 38.3 | 38.4 | 38.6  |  |
| GE 10000 |   | 28.1                             | 30.1  | 33.4  | 35.9  | 36.1  | 37.8  | 38.6  | 38.7  | 38.9  | 39.2  | 39.2  | 39.3 | 39.5 | 39.6 | 39.8  |  |
| GE 9000  |   | 29.3                             | 31.3  | 35.0  | 37.6  | 37.8  | 39.5  | 40.3  | 40.4  | 40.6  | 40.9  | 40.9  | 41.0 | 41.2 | 41.3 | 41.5  |  |
| GE 8000  |   | 33.1                             | 35.4  | 40.2  | 43.0  | 43.2  | 44.9  | 46.1  | 46.3  | 46.5  | 46.8  | 46.8  | 47.1 | 47.3 | 47.4 | 47.7  |  |
| GE 7000  |   | 33.8                             | 36.1  | 40.9  | 43.7  | 43.9  | 45.6  | 46.8  | 47.0  | 47.2  | 47.4  | 47.4  | 47.8 | 48.0 | 48.1 | 48.4  |  |
| GE 6000  |   | 33.8                             | 36.1  | 40.9  | 43.7  | 43.9  | 45.6  | 46.8  | 47.0  | 47.2  | 47.4  | 47.4  | 47.8 | 48.0 | 48.1 | 48.4  |  |
| GE 5000  |   | 35.4                             | 38.4  | 43.5  | 46.3  | 46.5  | 48.2  | 49.5  | 49.7  | 49.9  | 50.2  | 50.2  | 50.5 | 50.7 | 50.9 | 51.1  |  |
| GE 4500  |   | 36.0                             | 38.9  | 44.6  | 47.6  | 47.9  | 49.7  | 51.0  | 51.3  | 51.5  | 51.8  | 51.8  | 52.1 | 52.3 | 52.4 | 52.7  |  |
| GE 4000  |   | 41.5                             | 45.1  | 52.2  | 55.5  | 55.6  | 57.7  | 59.0  | 59.4  | 59.6  | 59.8  | 59.8  | 60.2 | 60.4 | 60.5 | 60.7  |  |
| GE 3500  |   | 43.1                             | 47.3  | 54.7  | 58.0  | 58.3  | 60.2  | 61.5  | 61.9  | 62.1  | 62.3  | 62.3  | 62.7 | 62.9 | 63.0 | 63.2  |  |
| GE 3000  |   | 51.2                             | 56.2  | 66.5  | 70.3  | 70.6  | 72.8  | 74.1  | 74.5  | 74.7  | 74.9  | 74.9  | 75.3 | 75.5 | 75.6 | 75.8  |  |
| GE 2500  |   | 52.2                             | 57.5  | 68.4  | 72.2  | 72.6  | 74.8  | 76.3  | 76.6  | 76.8  | 77.1  | 77.1  | 77.4 | 77.6 | 77.8 | 78.0  |  |
| GE 2000  |   | 54.4                             | 60.0  | 73.0  | 77.0  | 78.2  | 80.8  | 82.3  | 82.6  | 82.9  | 83.1  | 83.1  | 83.4 | 83.7 | 83.8 | 84.0  |  |
| GE 1800  |   | 54.4                             | 60.0  | 73.0  | 77.0  | 78.3  | 81.0  | 82.5  | 82.9  | 83.2  | 83.4  | 83.4  | 83.8 | 84.0 | 84.1 | 84.3  |  |
| GE 1600  |   | 55.3                             | 61.0  | 74.7  | 79.7  | 80.4  | 83.5  | 85.0  | 85.6  | 86.0  | 86.3  | 86.3  | 86.6 | 86.8 | 86.9 | 87.2  |  |
| GE 1400  |   | 55.7                             | 61.6  | 76.3  | 82.1  | 83.1  | 86.4  | 88.9  | 89.9  | 90.5  | 90.7  | 90.7  | 91.0 | 91.3 | 91.4 | 91.6  |  |
| GE 1200  |   | 55.8                             | 61.9  | 77.4  | 83.1  | 84.7  | 88.0  | 90.6  | 91.6  | 92.3  | 92.5  | 92.5  | 92.8 | 93.1 | 93.2 | 93.4  |  |
| GE 900   |   | 55.8                             | 62.1  | 77.4  | 83.3  | 84.9  | 88.3  | 90.9  | 91.9  | 92.6  | 92.8  | 92.8  | 93.2 | 93.4 | 93.5 | 93.8  |  |
| GE 800   |   | 56.0                             | 62.2  | 78.5  | 84.4  | 86.0  | 89.6  | 92.4  | 93.4  | 94.1  | 94.3  | 94.3  | 94.7 | 94.9 | 95.0 | 95.2  |  |
| GE 700   |   | 56.0                             | 62.2  | 78.5  | 84.7  | 86.3  | 90.2  | 93.1  | 94.1  | 94.8  | 95.0  | 95.0  | 95.3 | 95.6 | 95.7 | 95.9  |  |
| GE 600   |   | 56.0                             | 62.2  | 78.5  | 84.7  | 86.4  | 90.6  | 93.4  | 94.4  | 95.1  | 95.3  | 95.3  | 95.7 | 95.9 | 96.0 | 96.3  |  |
| GE 500   |   | 56.0                             | 62.2  | 78.5  | 85.0  | 86.7  | 91.1  | 94.1  | 95.1  | 95.9  | 96.1  | 96.1  | 96.5 | 96.7 | 96.8 | 97.0  |  |
| GE 400   |   | 56.0                             | 62.2  | 78.6  | 85.2  | 86.9  | 91.4  | 94.3  | 95.7  | 96.5  | 96.7  | 96.7  | 97.0 | 97.3 | 97.4 | 97.6  |  |
| GE 300   |   | 56.0                             | 62.2  | 78.6  | 85.4  | 87.1  | 91.5  | 94.4  | 95.9  | 97.4  | 97.7  | 97.7  | 98.1 | 98.5 | 98.8 | 99.0  |  |
| GE 200   |   | 56.0                             | 62.2  | 78.6  | 85.4  | 87.1  | 91.5  | 94.6  | 96.0  | 97.6  | 98.0  | 98.0  | 98.3 | 98.9 | 99.1 | 99.7  |  |
| GE 100   |   | 56.0                             | 62.2  | 78.6  | 85.4  | 87.1  | 91.5  | 94.6  | 96.0  | 97.6  | 98.0  | 98.0  | 98.3 | 98.9 | 99.1 | 100.0 |  |
| GE 0     |   | 56.0                             | 62.2  | 78.6  | 85.4  | 87.1  | 91.5  | 94.6  | 96.0  | 97.6  | 98.0  | 98.0  | 98.3 | 98.9 | 99.1 | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 481

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(IST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                       | 1                                | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6     |
|                       | 160                              | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     |
| NO CEIL               |                                  | 26.2 | 28.6 | 32.9 | 33.8 | 33.9 | 35.6 | 36.7 | 37.3 | 37.5 | 37.9 | 38.0 | 38.0 | 38.1 | 38.1 | 38.5  |
| GE 20000              |                                  | 27.4 | 30.0 | 34.9 | 35.9 | 36.1 | 37.8 | 39.0 | 39.6 | 39.9 | 40.2 | 40.4 | 40.4 | 40.5 | 40.5 | 40.9  |
| GE 18000              |                                  | 27.4 | 30.0 | 34.9 | 35.9 | 36.1 | 37.8 | 39.0 | 39.6 | 39.9 | 40.2 | 40.4 | 40.4 | 40.5 | 40.5 | 40.9  |
| GE 16000              |                                  | 27.6 | 30.2 | 35.0 | 36.1 | 36.2 | 37.9 | 39.1 | 39.7 | 40.0 | 40.4 | 40.5 | 40.5 | 40.6 | 40.6 | 41.0  |
| GE 14000              |                                  | 27.6 | 30.2 | 35.0 | 36.1 | 36.2 | 37.9 | 39.1 | 39.7 | 40.0 | 40.4 | 40.5 | 40.5 | 40.6 | 40.6 | 41.0  |
| GE 12000              |                                  | 27.7 | 30.3 | 35.5 | 36.5 | 36.6 | 38.3 | 39.6 | 40.1 | 40.5 | 40.8 | 40.9 | 40.9 | 41.0 | 41.0 | 41.5  |
| GE 10000              |                                  | 29.3 | 31.9 | 37.1 | 38.1 | 38.2 | 39.9 | 41.2 | 41.7 | 42.1 | 42.4 | 42.5 | 42.5 | 42.6 | 42.6 | 43.1  |
| GE 9000               |                                  | 29.4 | 32.0 | 37.5 | 38.5 | 38.7 | 40.4 | 41.6 | 42.2 | 42.5 | 42.9 | 43.0 | 43.0 | 43.1 | 43.1 | 43.5  |
| GE 8000               |                                  | 32.7 | 35.4 | 42.5 | 43.8 | 43.9 | 45.6 | 46.8 | 47.4 | 47.8 | 48.2 | 48.3 | 48.3 | 48.4 | 48.4 | 49.1  |
| GE 7000               |                                  | 33.3 | 36.2 | 43.5 | 45.0 | 45.1 | 46.8 | 48.3 | 48.9 | 49.3 | 49.7 | 49.8 | 49.8 | 49.9 | 49.9 | 50.6  |
| GE 6000               |                                  | 33.3 | 36.2 | 43.5 | 45.0 | 45.1 | 46.8 | 48.3 | 48.9 | 49.3 | 49.7 | 49.8 | 49.8 | 49.9 | 49.9 | 50.6  |
| GE 5000               |                                  | 34.7 | 38.0 | 45.9 | 47.4 | 47.5 | 49.2 | 50.7 | 51.2 | 51.7 | 52.0 | 52.2 | 52.2 | 52.3 | 52.3 | 52.9  |
| GE 4500               |                                  | 35.8 | 39.1 | 47.1 | 48.5 | 48.9 | 50.7 | 52.2 | 52.7 | 53.2 | 53.5 | 53.6 | 53.6 | 53.7 | 53.7 | 54.4  |
| GE 4000               |                                  | 41.5 | 45.9 | 54.8 | 56.5 | 57.1 | 59.1 | 60.5 | 61.1 | 61.6 | 61.9 | 62.0 | 62.0 | 62.1 | 62.1 | 62.8  |
| GE 3500               |                                  | 43.3 | 48.0 | 57.4 | 59.3 | 59.9 | 61.9 | 63.4 | 63.9 | 64.4 | 64.7 | 64.9 | 64.9 | 65.0 | 65.0 | 65.6  |
| GE 3000               |                                  | 51.6 | 57.5 | 67.9 | 70.3 | 70.9 | 72.9 | 74.4 | 75.1 | 75.5 | 75.9 | 76.0 | 76.0 | 76.2 | 76.2 | 76.9  |
| GE 2500               |                                  | 51.9 | 58.4 | 68.8 | 71.3 | 71.9 | 73.9 | 75.4 | 76.1 | 76.5 | 76.9 | 77.0 | 77.0 | 77.2 | 77.2 | 77.9  |
| GE 2000               |                                  | 53.7 | 60.5 | 73.0 | 76.2 | 77.2 | 79.5 | 81.0 | 81.7 | 82.2 | 82.5 | 82.7 | 82.7 | 82.9 | 82.9 | 83.7  |
| GE 1800               |                                  | 54.1 | 60.9 | 73.6 | 76.8 | 77.6 | 80.0 | 81.5 | 82.3 | 82.8 | 83.1 | 83.2 | 83.2 | 83.4 | 83.4 | 84.2  |
| GE 1500               |                                  | 54.6 | 61.6 | 75.1 | 78.9 | 79.9 | 82.5 | 84.2 | 85.3 | 85.7 | 86.1 | 86.2 | 86.2 | 86.4 | 86.4 | 87.2  |
| GE 1200               |                                  | 55.4 | 62.5 | 76.5 | 80.7 | 82.0 | 84.8 | 87.1 | 88.1 | 88.5 | 88.9 | 89.0 | 89.0 | 89.2 | 89.2 | 90.0  |
| GE 1000               |                                  | 55.9 | 63.0 | 77.7 | 81.9 | 83.4 | 86.6 | 89.0 | 90.0 | 90.5 | 90.8 | 90.9 | 90.9 | 91.2 | 91.2 | 92.0  |
| GE 900                |                                  | 56.2 | 63.4 | 78.5 | 82.9 | 84.5 | 87.6 | 90.0 | 91.0 | 91.5 | 91.8 | 92.0 | 92.0 | 92.2 | 92.2 | 93.1  |
| GE 800                |                                  | 56.2 | 63.5 | 78.9 | 83.8 | 85.4 | 88.5 | 90.9 | 92.0 | 92.4 | 92.7 | 92.9 | 92.9 | 93.1 | 93.1 | 93.9  |
| GE 700                |                                  | 56.2 | 63.5 | 78.9 | 83.9 | 85.5 | 88.9 | 91.3 | 92.3 | 92.7 | 93.1 | 93.2 | 93.2 | 93.4 | 93.4 | 94.2  |
| GE 600                |                                  | 56.3 | 63.6 | 79.1 | 84.2 | 85.8 | 89.5 | 91.8 | 92.9 | 93.3 | 93.7 | 93.8 | 93.8 | 94.0 | 94.0 | 94.8  |
| GE 500                |                                  | 56.3 | 63.6 | 79.1 | 84.6 | 86.4 | 90.0 | 92.5 | 93.5 | 94.0 | 94.3 | 94.4 | 94.4 | 94.7 | 94.7 | 95.5  |
| GE 400                |                                  | 56.3 | 63.6 | 79.1 | 84.6 | 86.4 | 90.0 | 92.5 | 93.5 | 94.3 | 94.7 | 94.8 | 94.8 | 95.4 | 95.4 | 96.1  |
| GE 300                |                                  | 56.3 | 63.6 | 79.1 | 84.7 | 86.5 | 90.2 | 93.0 | 94.4 | 95.5 | 95.8 | 95.9 | 95.9 | 96.6 | 96.7 | 97.5  |
| GE 200                |                                  | 56.3 | 63.6 | 79.1 | 84.7 | 86.5 | 90.2 | 93.0 | 94.6 | 95.7 | 96.0 | 96.1 | 96.1 | 96.8 | 96.9 | 98.2  |
| GE 100                |                                  | 56.3 | 63.6 | 79.1 | 84.7 | 86.5 | 90.4 | 93.1 | 94.8 | 95.9 | 96.3 | 96.4 | 96.5 | 97.3 | 97.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 862

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: NOV HOURS(LST): ALL

| CEILING |     | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |
|---------|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|
| IN      | GT  | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE |
| FEET    | 160 | 90                               | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     | 0  |
| NO CEIL | 1   | 23.1                             | 25.0 | 28.1 | 29.6 | 29.9 | 31.0 | 31.6 | 32.0 | 32.3 | 32.4 | 32.5 | 32.6 | 32.7 | 32.8 | 33.2  |    |
| GE 2000 |     | 26.4                             | 28.7 | 32.4 | 34.2 | 34.4 | 35.7 | 36.4 | 36.8 | 37.1 | 37.3 | 37.4 | 37.5 | 37.7 | 37.8 | 38.2  |    |
| GE 1800 |     | 26.5                             | 28.8 | 32.5 | 34.3 | 34.5 | 35.8 | 36.5 | 36.9 | 37.2 | 37.4 | 37.5 | 37.6 | 37.8 | 37.9 | 38.4  |    |
| GE 1600 |     | 26.6                             | 28.9 | 32.6 | 34.4 | 34.7 | 35.9 | 36.7 | 37.0 | 37.4 | 37.5 | 37.7 | 37.8 | 38.0 | 38.1 | 38.5  |    |
| GE 1400 |     | 26.6                             | 28.9 | 32.6 | 34.4 | 34.7 | 35.9 | 36.7 | 37.0 | 37.4 | 37.5 | 37.7 | 37.8 | 38.0 | 38.1 | 38.5  |    |
| GE 1200 |     | 26.7                             | 29.0 | 32.9 | 34.7 | 35.0 | 36.2 | 36.9 | 37.3 | 37.7 | 37.8 | 38.0 | 38.1 | 38.2 | 38.3 | 38.8  |    |
| GE 1000 |     | 28.0                             | 30.5 | 34.5 | 36.4 | 36.6 | 37.9 | 38.7 | 39.1 | 39.4 | 39.6 | 39.7 | 39.8 | 40.0 | 40.1 | 40.5  |    |
| GE 900  |     | 28.9                             | 31.6 | 36.0 | 38.0 | 38.3 | 39.6 | 40.4 | 40.8 | 41.1 | 41.3 | 41.4 | 41.5 | 41.7 | 41.8 | 42.2  |    |
| GE 800  |     | 29.3                             | 32.2 | 40.8 | 42.9 | 43.3 | 44.6 | 45.5 | 45.9 | 46.3 | 46.5 | 46.6 | 46.7 | 46.9 | 47.0 | 47.5  |    |
| GE 700  |     | 32.8                             | 35.9 | 41.6 | 43.8 | 44.2 | 45.5 | 46.5 | 46.9 | 47.3 | 47.4 | 47.6 | 47.7 | 47.9 | 48.0 | 48.5  |    |
| GE 600  |     | 32.8                             | 35.9 | 41.6 | 43.8 | 44.2 | 45.5 | 46.5 | 46.9 | 47.3 | 47.4 | 47.6 | 47.7 | 47.9 | 48.0 | 48.5  |    |
| GE 500  |     | 34.7                             | 38.0 | 44.2 | 46.4 | 46.8 | 48.3 | 49.3 | 49.7 | 50.1 | 50.3 | 50.4 | 50.6 | 50.8 | 50.9 | 51.3  |    |
| GE 450  |     | 35.7                             | 39.1 | 45.7 | 48.2 | 48.6 | 50.2 | 51.2 | 51.7 | 52.1 | 52.2 | 52.4 | 52.5 | 52.7 | 52.8 | 53.3  |    |
| GE 400  |     | 41.4                             | 45.7 | 53.2 | 56.0 | 56.6 | 58.3 | 59.4 | 59.9 | 60.3 | 60.4 | 60.6 | 60.7 | 60.9 | 61.0 | 61.5  |    |
| GE 350  |     | 43.5                             | 48.1 | 56.0 | 59.0 | 59.6 | 61.4 | 62.5 | 63.0 | 63.3 | 63.5 | 63.7 | 63.8 | 64.0 | 64.1 | 64.6  |    |
| GE 300  |     | 49.5                             | 54.8 | 64.1 | 67.6 | 68.2 | 70.2 | 71.4 | 71.9 | 72.4 | 72.6 | 72.7 | 72.9 | 73.1 | 73.2 | 73.7  |    |
| GE 250  |     | 50.3                             | 56.0 | 65.5 | 69.2 | 69.9 | 72.0 | 73.1 | 73.7 | 74.2 | 74.4 | 74.5 | 74.7 | 74.9 | 75.0 | 75.5  |    |
| GE 200  |     | 53.0                             | 59.2 | 70.2 | 74.7 | 75.5 | 77.9 | 79.1 | 79.8 | 80.3 | 80.5 | 80.7 | 80.8 | 81.0 | 81.1 | 81.7  |    |
| GE 180  |     | 53.2                             | 59.4 | 70.5 | 75.0 | 75.9 | 78.3 | 79.5 | 80.1 | 80.7 | 80.9 | 81.1 | 81.2 | 81.4 | 81.5 | 82.1  |    |
| GE 150  |     | 54.4                             | 60.7 | 72.4 | 77.6 | 78.5 | 81.2 | 82.7 | 83.4 | 84.0 | 84.2 | 84.4 | 84.5 | 84.7 | 84.8 | 85.4  |    |
| GE 120  |     | 55.1                             | 61.7 | 74.1 | 79.9 | 81.2 | 84.1 | 86.0 | 86.9 | 87.6 | 87.8 | 88.0 | 88.2 | 88.4 | 88.5 | 89.0  |    |
| GE 100  |     | 55.5                             | 62.3 | 75.4 | 81.4 | 83.0 | 86.3 | 88.4 | 89.3 | 90.1 | 90.3 | 90.5 | 90.6 | 90.8 | 91.0 | 91.5  |    |
| GE 90   |     | 55.7                             | 62.5 | 76.0 | 82.1 | 83.7 | 87.0 | 89.2 | 90.1 | 90.9 | 91.1 | 91.3 | 91.4 | 91.6 | 91.8 | 92.3  |    |
| GE 80   |     | 55.8                             | 62.8 | 76.8 | 83.2 | 84.8 | 88.2 | 90.4 | 91.3 | 92.1 | 92.3 | 92.5 | 92.7 | 92.9 | 93.0 | 93.6  |    |
| GE 70   |     | 55.9                             | 63.0 | 77.0 | 83.5 | 85.2 | 88.8 | 91.0 | 92.0 | 92.9 | 93.1 | 93.3 | 93.5 | 93.7 | 93.8 | 94.4  |    |
| GE 60   |     | 56.0                             | 63.1 | 77.3 | 83.9 | 85.7 | 89.5 | 91.8 | 92.8 | 93.7 | 93.9 | 94.1 | 94.3 | 94.5 | 94.7 | 95.2  |    |
| GE 50   |     | 56.1                             | 63.1 | 77.4 | 84.2 | 86.0 | 90.1 | 92.9 | 93.9 | 94.9 | 95.1 | 95.3 | 95.5 | 95.8 | 95.9 | 96.4  |    |
| GE 40   |     | 56.1                             | 63.2 | 77.5 | 84.4 | 86.3 | 90.4 | 93.4 | 94.5 | 95.7 | 95.9 | 96.1 | 96.4 | 96.7 | 96.8 | 97.4  |    |
| GE 30   |     | 56.1                             | 63.2 | 77.5 | 84.5 | 86.3 | 90.6 | 93.6 | 94.8 | 96.3 | 96.5 | 96.8 | 97.0 | 97.5 | 97.6 | 98.2  |    |
| GE 20   |     | 56.1                             | 63.2 | 77.5 | 84.5 | 86.3 | 90.6 | 93.6 | 94.9 | 96.5 | 96.7 | 97.0 | 97.3 | 97.8 | 98.0 | 99.0  |    |
| GE 10   |     | 56.1                             | 63.2 | 77.5 | 84.5 | 86.3 | 90.6 | 93.6 | 95.0 | 96.5 | 96.8 | 97.1 | 97.4 | 98.0 | 98.3 | 100.0 |    |
| GE      |     | 56.1                             | 63.2 | 77.5 | 84.5 | 86.3 | 90.6 | 93.6 | 95.0 | 96.5 | 96.8 | 97.1 | 97.4 | 98.0 | 98.3 | 100.0 |    |

TOTAL NUMBER OF OBSERVATIONS: 7072



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 0000-0100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                       | 160                              | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0    |
| NO CEIL               |                                  | 24.9 | 27.7 | 31.6 | 33.8 | 34.1 | 35.3 | 36.4 | 36.8 | 37.5 | 37.6 | 37.6 | 37.6 | 37.8 | 37.8 | 36.0 |
| GE 20000              |                                  | 26.4 | 29.2 | 33.3 | 35.7 | 36.0 | 37.1 | 38.2 | 38.7 | 39.5 | 39.6 | 39.6 | 39.6 | 39.8 | 39.8 | 40.0 |
| GE 18000              |                                  | 26.4 | 29.2 | 33.4 | 35.8 | 36.1 | 37.3 | 38.4 | 38.8 | 39.6 | 39.7 | 39.7 | 39.7 | 39.9 | 39.9 | 40.1 |
| GE 16000              |                                  | 26.4 | 29.2 | 33.4 | 35.8 | 36.1 | 37.3 | 38.4 | 38.8 | 39.6 | 39.7 | 39.7 | 39.7 | 39.9 | 39.9 | 40.1 |
| GE 14000              |                                  | 26.4 | 29.2 | 33.4 | 35.8 | 36.1 | 37.3 | 38.4 | 38.8 | 39.6 | 39.7 | 39.7 | 39.7 | 39.9 | 39.9 | 40.1 |
| GE 12000              |                                  | 26.4 | 29.2 | 33.4 | 35.8 | 36.1 | 37.3 | 38.4 | 38.8 | 39.6 | 39.7 | 39.7 | 39.7 | 39.9 | 39.9 | 40.1 |
| GE 10000              |                                  | 27.2 | 29.9 | 34.4 | 36.9 | 37.3 | 38.4 | 39.5 | 39.9 | 40.7 | 40.8 | 40.8 | 40.8 | 41.0 | 41.0 | 41.2 |
| GE 9000               |                                  | 27.6 | 30.4 | 34.9 | 37.6 | 37.9 | 39.2 | 40.4 | 40.8 | 41.6 | 41.8 | 41.8 | 41.8 | 42.0 | 42.0 | 42.2 |
| GE 8000               |                                  | 30.6 | 34.1 | 40.1 | 42.9 | 43.5 | 44.8 | 45.9 | 46.5 | 47.2 | 47.5 | 47.5 | 47.5 | 47.7 | 47.7 | 47.9 |
| GE 7000               |                                  | 31.5 | 35.1 | 41.1 | 44.1 | 44.7 | 46.0 | 47.1 | 47.7 | 48.4 | 48.7 | 48.7 | 48.7 | 48.9 | 48.9 | 49.1 |
| GE 6000               |                                  | 31.5 | 35.3 | 41.2 | 44.2 | 44.8 | 46.1 | 47.2 | 47.8 | 48.6 | 48.8 | 48.8 | 48.8 | 49.0 | 49.0 | 49.2 |
| GE 5000               |                                  | 33.2 | 37.0 | 43.2 | 46.3 | 46.9 | 48.3 | 49.4 | 50.0 | 50.8 | 51.0 | 51.0 | 51.0 | 51.2 | 51.2 | 51.4 |
| GE 4500               |                                  | 33.5 | 37.3 | 43.5 | 46.6 | 47.1 | 48.6 | 49.7 | 50.2 | 51.0 | 51.2 | 51.2 | 51.2 | 51.4 | 51.4 | 51.7 |
| GE 4000               |                                  | 39.6 | 44.2 | 51.3 | 55.4 | 56.1 | 57.5 | 58.6 | 59.2 | 60.0 | 60.2 | 60.2 | 60.2 | 60.4 | 60.4 | 60.6 |
| GE 3500               |                                  | 41.1 | 46.1 | 53.5 | 58.0 | 58.6 | 60.2 | 61.4 | 62.1 | 62.9 | 63.1 | 63.1 | 63.1 | 63.3 | 63.3 | 63.5 |
| GE 3000               |                                  | 46.2 | 52.5 | 61.1 | 65.6 | 66.3 | 68.0 | 69.3 | 70.0 | 70.8 | 71.1 | 71.1 | 71.1 | 71.3 | 71.3 | 71.5 |
| GE 2500               |                                  | 46.6 | 53.1 | 62.2 | 66.9 | 67.5 | 69.2 | 70.5 | 71.2 | 72.2 | 72.5 | 72.5 | 72.5 | 72.7 | 72.7 | 72.9 |
| GE 2000               |                                  | 49.1 | 55.8 | 65.7 | 70.8 | 71.5 | 73.3 | 74.9 | 75.6 | 76.6 | 76.9 | 77.1 | 77.1 | 77.5 | 77.5 | 77.7 |
| GE 1800               |                                  | 49.2 | 56.0 | 66.4 | 71.8 | 72.5 | 74.3 | 75.9 | 76.6 | 77.6 | 77.9 | 78.0 | 78.0 | 78.5 | 78.5 | 78.7 |
| GE 1500               |                                  | 51.0 | 57.8 | 68.7 | 74.5 | 75.2 | 77.2 | 78.8 | 79.5 | 80.5 | 80.8 | 80.9 | 80.9 | 81.4 | 81.4 | 81.6 |
| GE 1200               |                                  | 51.8 | 58.6 | 70.7 | 77.3 | 77.9 | 80.2 | 82.0 | 82.7 | 83.7 | 84.0 | 84.1 | 84.1 | 84.6 | 84.6 | 84.8 |
| GE 1000               |                                  | 52.2 | 59.5 | 72.4 | 79.4 | 80.2 | 82.5 | 85.1 | 85.8 | 86.9 | 87.2 | 87.4 | 87.4 | 87.8 | 87.8 | 88.0 |
| GE 900                |                                  | 52.4 | 59.8 | 72.8 | 80.2 | 80.9 | 83.3 | 85.9 | 86.6 | 87.7 | 88.0 | 88.1 | 88.1 | 88.6 | 88.6 | 88.8 |
| GE 800                |                                  | 52.7 | 60.0 | 73.2 | 80.7 | 81.5 | 84.0 | 86.8 | 87.6 | 88.7 | 89.0 | 89.1 | 89.1 | 89.6 | 89.6 | 89.8 |
| GE 700                |                                  | 53.0 | 60.4 | 73.9 | 81.6 | 82.5 | 85.1 | 88.5 | 89.4 | 90.5 | 90.8 | 90.9 | 90.9 | 91.4 | 91.4 | 91.6 |
| GE 600                |                                  | 53.4 | 60.9 | 74.6 | 83.0 | 83.9 | 86.7 | 90.1 | 91.1 | 92.2 | 92.6 | 92.7 | 92.7 | 93.1 | 93.1 | 93.3 |
| GE 500                |                                  | 53.4 | 60.9 | 74.6 | 83.4 | 84.5 | 87.9 | 91.6 | 92.6 | 93.7 | 94.0 | 94.1 | 94.1 | 94.6 | 94.6 | 94.8 |
| GE 400                |                                  | 53.4 | 60.9 | 74.8 | 83.8 | 85.0 | 88.8 | 92.5 | 93.7 | 94.6 | 95.1 | 95.2 | 95.2 | 95.7 | 95.7 | 95.9 |
| GE 300                |                                  | 53.4 | 60.9 | 74.8 | 83.8 | 85.0 | 88.9 | 92.6 | 93.8 | 95.2 | 95.6 | 95.7 | 95.7 | 96.1 | 96.1 | 96.3 |
| GE 200                |                                  | 53.4 | 60.9 | 74.8 | 83.8 | 85.3 | 89.4 | 93.5 | 94.8 | 96.5 | 96.8 | 96.9 | 97.2 | 98.1 | 98.1 | 98.3 |
| GE 100                |                                  | 53.4 | 60.9 | 74.8 | 83.8 | 85.3 | 89.4 | 93.6 | 94.9 | 96.7 | 97.0 | 97.1 | 97.5 | 99.1 | 99.1 | 99.3 |
| GE 0                  |                                  | 53.4 | 60.9 | 74.8 | 83.8 | 85.3 | 89.4 | 93.6 | 94.9 | 96.7 | 97.0 | 97.1 | 97.5 | 99.1 | 99.1 | 99.3 |

TOTAL NUMBER OF OBSERVATIONS: 902

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86

MONTH: DEC HOURS(UT): 0300-0500

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  |      |                                  | 25.9  | 29.7  | 32.9  | 34.7  | 35.3  | 36.5  | 37.2  | 37.5  | 37.8  | 37.8  | 37.9  | 38.2 | 38.3 | 39.6 | 39.0  |
| GE 20000 |      |                                  | 27.7  | 31.6  | 35.3  | 37.2  | 37.9  | 39.2  | 39.9  | 40.2  | 40.4  | 40.4  | 40.5  | 40.9 | 41.0 | 41.3 | 41.6  |
| GE 18000 |      |                                  | 27.7  | 31.6  | 35.3  | 37.2  | 37.9  | 39.2  | 39.9  | 40.2  | 40.4  | 40.4  | 40.5  | 40.9 | 41.0 | 41.3 | 41.6  |
| GE 16000 |      |                                  | 27.7  | 31.6  | 35.3  | 37.2  | 37.9  | 39.2  | 39.9  | 40.2  | 40.4  | 40.4  | 40.5  | 40.9 | 41.0 | 41.3 | 41.6  |
| GE 14000 |      |                                  | 27.7  | 31.6  | 35.3  | 37.2  | 37.9  | 39.2  | 39.9  | 40.2  | 40.4  | 40.4  | 40.5  | 40.9 | 41.0 | 41.3 | 41.6  |
| GE 12000 |      |                                  | 27.7  | 31.6  | 35.3  | 37.2  | 37.9  | 39.2  | 39.9  | 40.2  | 40.4  | 40.4  | 40.5  | 40.9 | 41.0 | 41.3 | 41.6  |
| GE 10000 |      |                                  | 28.5  | 32.3  | 36.2  | 38.1  | 38.8  | 40.1  | 40.8  | 41.1  | 41.3  | 41.3  | 41.4  | 41.7 | 41.9 | 42.2 | 42.5  |
| GE 9000  |      |                                  | 29.0  | 32.9  | 36.9  | 38.8  | 39.4  | 40.8  | 41.4  | 41.7  | 42.0  | 42.0  | 42.1  | 42.4 | 42.5 | 42.9 | 43.2  |
| GE 8000  |      |                                  | 32.6  | 36.5  | 42.2  | 44.4  | 45.1  | 46.5  | 47.2  | 47.6  | 48.0  | 48.0  | 48.1  | 48.4 | 48.5 | 48.8 | 49.2  |
| GE 7000  |      |                                  | 33.1  | 37.3  | 43.0  | 45.2  | 45.8  | 47.3  | 48.0  | 48.4  | 48.7  | 48.7  | 48.8  | 49.2 | 49.3 | 49.6 | 49.9  |
| GE 6000  |      |                                  | 33.2  | 37.4  | 43.1  | 45.3  | 46.0  | 47.4  | 48.1  | 48.5  | 48.8  | 48.8  | 48.9  | 49.3 | 49.4 | 49.7 | 50.1  |
| GE 5000  |      |                                  | 34.4  | 38.6  | 44.3  | 46.7  | 47.4  | 48.9  | 49.6  | 50.1  | 50.4  | 50.4  | 50.5  | 50.8 | 50.9 | 51.3 | 51.6  |
| GE 4500  |      |                                  | 34.7  | 38.9  | 44.9  | 47.3  | 48.0  | 49.5  | 50.2  | 50.6  | 50.9  | 50.9  | 51.1  | 51.4 | 51.5 | 51.8 | 52.2  |
| GE 4000  |      |                                  | 39.2  | 43.7  | 50.9  | 53.8  | 54.7  | 56.7  | 57.4  | 57.9  | 58.3  | 58.3  | 58.4  | 58.7 | 58.8 | 59.1 | 59.5  |
| GE 3500  |      |                                  | 40.9  | 46.1  | 54.3  | 57.5  | 58.4  | 60.5  | 61.1  | 61.8  | 62.1  | 62.1  | 62.2  | 62.6 | 62.7 | 63.0 | 63.3  |
| GE 3000  |      |                                  | 45.8  | 51.1  | 61.0  | 64.5  | 65.4  | 67.7  | 68.4  | 69.2  | 69.5  | 69.7  | 69.9  | 70.2 | 70.3 | 70.7 | 71.0  |
| GE 2500  |      |                                  | 46.4  | 51.7  | 61.9  | 65.7  | 66.7  | 68.9  | 69.7  | 70.4  | 70.8  | 70.9  | 71.1  | 71.4 | 71.5 | 71.9 | 72.2  |
| GE 2000  |      |                                  | 48.5  | 55.0  | 65.8  | 70.3  | 71.3  | 73.6  | 74.8  | 75.5  | 75.9  | 76.0  | 76.2  | 76.5 | 76.6 | 77.0 | 77.3  |
| GE 1800  |      |                                  | 48.7  | 55.3  | 66.1  | 71.0  | 72.0  | 74.3  | 75.4  | 76.2  | 76.5  | 76.6  | 76.9  | 77.2 | 77.3 | 77.6 | 78.0  |
| GE 1600  |      |                                  | 50.2  | 56.8  | 68.2  | 73.5  | 74.5  | 76.9  | 78.0  | 78.7  | 79.2  | 79.3  | 79.5  | 79.8 | 80.0 | 80.3 | 80.6  |
| GE 1200  |      |                                  | 50.9  | 57.9  | 69.8  | 76.2  | 77.3  | 79.6  | 80.8  | 81.6  | 82.1  | 82.2  | 82.4  | 82.7 | 82.8 | 83.2 | 83.5  |
| GE 1000  |      |                                  | 51.4  | 58.7  | 71.8  | 78.6  | 79.7  | 82.5  | 83.8  | 84.6  | 85.2  | 85.3  | 85.5  | 85.8 | 85.9 | 86.3 | 86.6  |
| GE 900   |      |                                  | 51.4  | 58.9  | 72.2  | 79.6  | 81.0  | 83.7  | 85.0  | 86.0  | 86.6  | 86.7  | 86.9  | 87.3 | 87.4 | 87.7 | 88.0  |
| GE 800   |      |                                  | 51.9  | 59.6  | 73.6  | 81.3  | 82.6  | 85.6  | 87.3  | 88.3  | 88.8  | 88.9  | 89.1  | 89.5 | 89.6 | 89.9 | 90.3  |
| GE 700   |      |                                  | 52.0  | 59.9  | 74.4  | 82.4  | 83.7  | 86.8  | 88.5  | 89.5  | 90.0  | 90.1  | 90.4  | 90.7 | 90.8 | 91.1 | 91.5  |
| GE 600   |      |                                  | 52.6  | 60.6  | 75.3  | 84.1  | 85.4  | 89.0  | 90.9  | 91.9  | 92.5  | 92.6  | 92.8  | 93.1 | 93.2 | 93.6 | 93.9  |
| GE 500   |      |                                  | 52.6  | 60.6  | 75.4  | 84.3  | 85.6  | 89.7  | 91.8  | 92.8  | 93.4  | 93.5  | 93.7  | 94.0 | 94.1 | 94.5 | 94.8  |
| GE 400   |      |                                  | 52.6  | 60.6  | 75.4  | 84.3  | 85.6  | 89.9  | 92.6  | 93.7  | 94.4  | 94.5  | 94.7  | 95.0 | 95.1 | 95.5 | 95.8  |
| GE 300   |      |                                  | 52.6  | 60.6  | 75.4  | 84.3  | 85.6  | 89.9  | 92.7  | 94.2  | 94.9  | 95.1  | 95.3  | 95.8 | 95.9 | 96.2 | 96.6  |
| GE 200   |      |                                  | 52.6  | 60.6  | 75.4  | 84.3  | 85.9  | 90.3  | 93.1  | 94.9  | 96.2  | 96.5  | 96.7  | 97.6 | 98.3 | 98.7 | 99.0  |
| GE 100   |      |                                  | 52.6  | 60.6  | 75.4  | 84.3  | 85.9  | 90.3  | 93.1  | 94.9  | 96.2  | 96.5  | 96.8  | 97.9 | 98.7 | 99.3 | 100.0 |
| GE 0     |      |                                  | 52.6  | 60.6  | 75.4  | 84.3  | 85.9  | 90.3  | 93.1  | 94.9  | 96.2  | 96.5  | 96.8  | 97.9 | 98.7 | 99.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 903

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: C35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 23.3     | 25.6     | 28.4     | 29.8     | 30.3     | 31.7     | 33.1     | 33.1     | 33.1     | 33.1     | 33.2     | 33.2    | 33.3    | 33.8    | 34.0    |
| GE 20000              |                                  | 27.5     | 30.0     | 33.7     | 35.2     | 35.6     | 37.2     | 38.6     | 38.6     | 38.7     | 38.7     | 38.8     | 38.8    | 38.9    | 39.4    | 39.6    |
| GE 18000              |                                  | 27.5     | 30.0     | 33.7     | 35.2     | 35.6     | 37.2     | 38.6     | 38.6     | 38.7     | 38.7     | 38.8     | 38.8    | 38.9    | 39.4    | 39.6    |
| GE 16000              |                                  | 27.5     | 30.0     | 33.7     | 35.2     | 35.6     | 37.2     | 38.6     | 38.6     | 38.7     | 38.7     | 38.8     | 38.8    | 38.9    | 39.4    | 39.6    |
| GE 14000              |                                  | 27.6     | 30.1     | 33.8     | 35.3     | 35.8     | 37.3     | 38.7     | 38.7     | 38.8     | 38.8     | 38.9     | 38.9    | 39.1    | 39.5    | 39.7    |
| GE 12000              |                                  | 27.6     | 30.1     | 33.8     | 35.3     | 35.8     | 37.3     | 38.7     | 38.7     | 38.8     | 38.8     | 38.9     | 38.9    | 39.1    | 39.5    | 39.7    |
| GE 10000              |                                  | 28.6     | 31.2     | 34.9     | 36.4     | 36.9     | 38.5     | 39.9     | 39.9     | 40.0     | 40.0     | 40.2     | 40.2    | 40.3    | 40.7    | 40.9    |
| GE 9000               |                                  | 29.2     | 31.8     | 35.4     | 37.0     | 37.4     | 39.1     | 40.5     | 40.5     | 40.6     | 40.6     | 40.7     | 40.7    | 40.8    | 41.3    | 41.5    |
| GE 8000               |                                  | 32.9     | 35.5     | 39.9     | 41.9     | 42.4     | 44.0     | 45.4     | 45.4     | 45.5     | 45.5     | 45.7     | 45.7    | 45.8    | 46.2    | 46.4    |
| GE 7000               |                                  | 33.7     | 36.3     | 40.7     | 42.7     | 43.1     | 44.8     | 46.2     | 46.2     | 46.3     | 46.3     | 46.4     | 46.4    | 46.5    | 47.0    | 47.2    |
| GE 6000               |                                  | 33.7     | 36.3     | 40.7     | 42.7     | 43.1     | 44.8     | 46.2     | 46.2     | 46.3     | 46.3     | 46.4     | 46.4    | 46.5    | 47.0    | 47.2    |
| GE 5000               |                                  | 34.8     | 37.5     | 42.2     | 44.4     | 44.9     | 46.6     | 48.1     | 48.1     | 48.2     | 48.2     | 48.3     | 48.3    | 48.4    | 48.8    | 49.1    |
| GE 4500               |                                  | 34.9     | 37.6     | 42.5     | 44.7     | 45.2     | 47.0     | 48.4     | 48.4     | 48.5     | 48.5     | 48.6     | 48.6    | 48.7    | 49.2    | 49.4    |
| GE 4000               |                                  | 39.7     | 42.7     | 48.4     | 51.2     | 52.0     | 54.2     | 55.7     | 55.7     | 55.8     | 55.8     | 55.9     | 55.9    | 56.1    | 56.5    | 56.8    |
| GE 3500               |                                  | 41.5     | 44.9     | 51.6     | 54.7     | 55.6     | 57.8     | 59.2     | 59.2     | 59.3     | 59.4     | 59.5     | 59.5    | 59.7    | 60.2    | 60.4    |
| GE 3000               |                                  | 47.3     | 51.3     | 60.0     | 63.5     | 64.5     | 67.0     | 68.5     | 68.5     | 68.6     | 68.8     | 68.9     | 68.9    | 69.1    | 69.5    | 69.7    |
| GE 2500               |                                  | 47.7     | 51.7     | 60.5     | 64.1     | 65.1     | 67.7     | 69.2     | 69.2     | 69.3     | 69.4     | 69.5     | 69.5    | 69.7    | 70.2    | 70.4    |
| GE 2100               |                                  | 50.2     | 55.2     | 65.1     | 69.6     | 71.0     | 73.7     | 75.2     | 75.2     | 75.4     | 75.5     | 75.6     | 75.6    | 75.8    | 76.2    | 76.5    |
| GE 1800               |                                  | 50.4     | 55.4     | 65.3     | 70.1     | 71.4     | 74.3     | 75.8     | 75.8     | 75.9     | 76.0     | 76.1     | 76.1    | 76.3    | 76.8    | 77.0    |
| GE 1500               |                                  | 50.9     | 56.3     | 66.4     | 71.6     | 72.9     | 75.9     | 77.6     | 77.6     | 77.7     | 77.9     | 78.0     | 78.0    | 78.2    | 78.7    | 78.9    |
| GE 1200               |                                  | 51.7     | 57.5     | 68.3     | 74.4     | 76.0     | 79.1     | 80.9     | 81.1     | 81.2     | 81.4     | 81.5     | 81.5    | 81.7    | 82.2    | 82.4    |
| GE 1000               |                                  | 52.0     | 58.3     | 70.1     | 76.3     | 78.0     | 81.6     | 83.7     | 84.0     | 84.3     | 84.5     | 84.6     | 84.7    | 84.9    | 85.4    | 85.6    |
| GE 900                |                                  | 52.3     | 58.6     | 71.0     | 77.3     | 79.1     | 82.8     | 84.9     | 85.4     | 85.6     | 85.8     | 85.9     | 86.0    | 86.2    | 86.7    | 86.9    |
| GE 800                |                                  | 52.5     | 58.9     | 71.9     | 79.0     | 80.7     | 84.5     | 86.9     | 87.6     | 87.9     | 88.1     | 88.2     | 88.3    | 88.6    | 89.0    | 89.2    |
| GE 700                |                                  | 52.5     | 58.9     | 72.6     | 80.6     | 82.4     | 86.2     | 88.7     | 89.4     | 89.8     | 90.0     | 90.1     | 90.2    | 90.4    | 90.9    | 91.1    |
| GE 600                |                                  | 52.8     | 59.3     | 73.5     | 81.8     | 83.7     | 88.0     | 90.5     | 91.3     | 91.7     | 92.0     | 92.1     | 92.2    | 92.4    | 92.8    | 93.1    |
| GE 500                |                                  | 52.8     | 59.3     | 73.7     | 82.7     | 84.8     | 89.5     | 92.1     | 92.8     | 93.4     | 93.6     | 93.7     | 93.9    | 94.2    | 94.6    | 94.8    |
| GE 400                |                                  | 52.8     | 59.3     | 73.7     | 83.1     | 85.4     | 90.8     | 93.7     | 94.6     | 95.6     | 95.8     | 96.0     | 96.3    | 96.5    | 96.9    | 97.1    |
| GE 300                |                                  | 52.8     | 59.3     | 73.8     | 83.3     | 85.6     | 91.0     | 93.9     | 94.9     | 96.0     | 96.3     | 96.5     | 96.7    | 96.9    | 97.4    | 97.6    |
| GE 200                |                                  | 52.8     | 59.3     | 73.8     | 83.3     | 85.6     | 91.2     | 94.4     | 95.5     | 97.1     | 97.4     | 97.6     | 98.0    | 98.3    | 98.8    | 99.1    |
| GE 100                |                                  | 52.8     | 59.3     | 73.8     | 83.3     | 85.6     | 91.2     | 94.4     | 95.5     | 97.1     | 97.4     | 97.6     | 98.0    | 98.9    | 99.4    | 100.0   |
| GE 0                  |                                  | 52.8     | 59.3     | 73.8     | 83.3     | 85.6     | 91.2     | 94.4     | 95.5     | 97.1     | 97.4     | 97.6     | 98.0    | 98.9    | 99.4    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 969

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86

MONTH: DEC HOURS(IST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>3 |
| NO CEIL               |                                  | 21.8     | 22.6     | 25.2     | 26.4     | 27.0     | 27.8     | 28.6     | 28.7     | 28.7     | 28.7     | 28.7     | 28.8    | 29.0    | 29.2    | 29.2    |
| GE 20000              |                                  | 25.7     | 27.6     | 30.7     | 32.2     | 32.9     | 33.7     | 34.5     | 34.6     | 34.6     | 34.6     | 34.6     | 34.7    | 35.0    | 35.3    | 35.3    |
| GE 18000              |                                  | 26.0     | 28.0     | 31.2     | 32.7     | 33.3     | 34.1     | 35.0     | 35.1     | 35.1     | 35.1     | 35.1     | 35.2    | 35.4    | 35.7    | 35.7    |
| GE 16000              |                                  | 26.0     | 28.0     | 31.2     | 32.7     | 33.3     | 34.1     | 35.0     | 35.1     | 35.1     | 35.1     | 35.1     | 35.2    | 35.4    | 35.7    | 35.7    |
| GE 14000              |                                  | 26.0     | 28.0     | 31.2     | 32.7     | 33.3     | 34.1     | 35.0     | 35.1     | 35.1     | 35.1     | 35.1     | 35.2    | 35.4    | 35.7    | 35.7    |
| GE 12000              |                                  | 26.2     | 28.2     | 31.5     | 33.1     | 33.9     | 34.6     | 35.5     | 35.6     | 35.6     | 35.6     | 35.6     | 35.7    | 35.9    | 36.3    | 36.3    |
| GE 10000              |                                  | 28.8     | 30.9     | 34.3     | 36.0     | 36.8     | 37.6     | 38.4     | 38.5     | 38.5     | 38.5     | 38.5     | 38.7    | 38.9    | 39.2    | 39.2    |
| GE 9000               |                                  | 29.4     | 31.7     | 35.2     | 36.9     | 37.7     | 38.4     | 39.3     | 39.4     | 39.4     | 39.4     | 39.4     | 39.5    | 39.7    | 40.1    | 40.1    |
| GE 8000               |                                  | 33.7     | 36.2     | 40.6     | 43.0     | 43.8     | 44.7     | 45.7     | 45.8     | 45.8     | 45.8     | 45.8     | 45.9    | 46.1    | 46.5    | 46.5    |
| GE 7000               |                                  | 34.5     | 37.2     | 41.9     | 44.5     | 45.3     | 46.6     | 47.7     | 47.8     | 47.8     | 47.8     | 47.8     | 47.9    | 48.2    | 48.5    | 48.5    |
| GE 6000               |                                  | 34.5     | 37.2     | 41.9     | 44.5     | 45.3     | 46.6     | 47.7     | 47.8     | 47.8     | 47.8     | 47.8     | 47.9    | 48.2    | 48.5    | 48.5    |
| GE 5000               |                                  | 35.2     | 38.1     | 43.1     | 45.8     | 46.6     | 47.9     | 49.0     | 49.1     | 49.1     | 49.1     | 49.1     | 49.2    | 49.5    | 49.8    | 49.8    |
| GE 4500               |                                  | 35.6     | 38.7     | 43.8     | 46.6     | 47.3     | 48.6     | 49.7     | 49.8     | 49.8     | 49.8     | 49.8     | 49.9    | 50.3    | 50.6    | 50.6    |
| GE 4000               |                                  | 39.8     | 43.6     | 50.1     | 53.0     | 53.9     | 55.4     | 56.7     | 56.8     | 56.8     | 56.8     | 56.8     | 56.9    | 57.2    | 57.5    | 57.5    |
| GE 3500               |                                  | 43.0     | 47.0     | 54.2     | 57.3     | 58.2     | 59.7     | 61.0     | 61.1     | 61.1     | 61.1     | 61.1     | 61.2    | 61.6    | 61.9    | 61.9    |
| GE 3000               |                                  | 47.7     | 52.6     | 62.2     | 66.0     | 67.0     | 69.2     | 70.6     | 70.7     | 70.7     | 70.7     | 70.7     | 70.8    | 71.1    | 71.4    | 71.4    |
| GE 2500               |                                  | 48.1     | 53.2     | 62.9     | 66.7     | 67.6     | 69.8     | 71.2     | 71.3     | 71.3     | 71.3     | 71.3     | 71.4    | 71.8    | 72.1    | 72.1    |
| GE 2000               |                                  | 50.1     | 55.8     | 67.6     | 71.8     | 73.0     | 75.5     | 77.0     | 77.1     | 77.1     | 77.1     | 77.1     | 77.2    | 77.5    | 77.9    | 77.9    |
| GE 1800               |                                  | 50.5     | 56.4     | 68.3     | 72.4     | 73.6     | 76.2     | 77.9     | 78.0     | 78.0     | 78.0     | 78.0     | 78.1    | 78.4    | 78.7    | 78.7    |
| GE 1500               |                                  | 51.5     | 57.4     | 69.9     | 74.5     | 75.8     | 78.6     | 80.5     | 80.7     | 80.7     | 80.7     | 80.7     | 80.8    | 81.1    | 81.4    | 81.4    |
| GE 1200               |                                  | 52.4     | 59.0     | 72.0     | 77.2     | 78.6     | 81.5     | 83.7     | 84.1     | 84.1     | 84.1     | 84.1     | 84.3    | 84.6    | 84.9    | 84.9    |
| GE 1000               |                                  | 53.1     | 59.8     | 73.1     | 79.2     | 80.6     | 83.6     | 85.9     | 86.4     | 86.4     | 86.4     | 86.4     | 86.5    | 86.9    | 87.2    | 87.2    |
| GE 900                |                                  | 53.1     | 59.9     | 73.3     | 79.8     | 81.2     | 84.3     | 86.5     | 87.2     | 87.2     | 87.2     | 87.2     | 87.3    | 87.6    | 87.9    | 87.9    |
| GE 800                |                                  | 53.4     | 60.3     | 73.8     | 80.9     | 82.3     | 85.5     | 87.8     | 88.6     | 88.6     | 88.6     | 88.6     | 88.7    | 89.1    | 89.5    | 89.5    |
| GE 700                |                                  | 53.6     | 60.7     | 74.6     | 82.3     | 83.7     | 87.2     | 90.0     | 90.8     | 90.9     | 90.9     | 90.9     | 91.0    | 91.4    | 91.7    | 91.7    |
| GE 600                |                                  | 53.7     | 60.9     | 75.5     | 83.2     | 84.6     | 88.3     | 91.5     | 92.3     | 92.6     | 92.7     | 92.7     | 92.8    | 93.3    | 93.6    | 93.6    |
| GE 500                |                                  | 53.7     | 61.0     | 76.1     | 83.9     | 85.5     | 89.6     | 93.1     | 94.0     | 94.5     | 94.7     | 94.9     | 95.1    | 95.7    | 96.0    | 96.0    |
| GE 400                |                                  | 53.7     | 61.0     | 76.1     | 84.0     | 85.6     | 90.1     | 94.2     | 95.8     | 96.3     | 96.5     | 96.7     | 97.0    | 97.5    | 97.8    | 97.8    |
| GE 300                |                                  | 53.7     | 61.0     | 76.3     | 84.3     | 85.8     | 90.3     | 94.5     | 96.3     | 97.4     | 97.6     | 97.8     | 98.0    | 98.7    | 99.0    | 99.0    |
| GE 200                |                                  | 53.7     | 61.0     | 76.3     | 84.3     | 85.8     | 90.4     | 94.6     | 96.4     | 97.7     | 98.0     | 98.3     | 98.5    | 99.2    | 99.7    | 99.9    |
| GE 100                |                                  | 53.7     | 61.0     | 76.3     | 84.3     | 85.8     | 90.4     | 94.6     | 96.4     | 97.7     | 98.0     | 98.3     | 98.5    | 99.2    | 99.7    | 100.0   |
| GE 0                  |                                  | 53.7     | 61.0     | 76.3     | 84.3     | 85.8     | 90.4     | 94.6     | 96.4     | 97.7     | 98.0     | 98.3     | 98.5    | 99.2    | 99.7    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 921

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: C35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               |                                  | 22.1     | 22.9     | 25.9     | 27.6     | 27.7     | 28.6     | 28.8     | 28.8     | 28.8     | 28.8     | 28.8     | 28.8    | 28.8    | 28.8    | 28.9    |
| GE 20000              |                                  | 27.6     | 28.9     | 32.5     | 34.4     | 34.5     | 35.6     | 35.7     | 35.7     | 35.7     | 35.7     | 35.7     | 35.7    | 35.7    | 35.8    | 35.8    |
| GE 18000              |                                  | 27.8     | 29.3     | 32.9     | 34.9     | 35.0     | 36.1     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2    | 36.2    | 36.3    | 36.3    |
| GE 16000              |                                  | 27.8     | 29.3     | 32.9     | 34.9     | 35.0     | 36.1     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2    | 36.2    | 36.3    | 36.3    |
| GE 14000              |                                  | 27.8     | 29.3     | 32.9     | 34.9     | 35.0     | 36.1     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2    | 36.2    | 36.3    | 36.3    |
| GE 12000              |                                  | 28.2     | 29.7     | 33.3     | 35.3     | 35.5     | 36.6     | 36.7     | 36.7     | 36.7     | 36.7     | 36.7     | 36.7    | 36.7    | 36.8    | 36.8    |
| GE 10000              |                                  | 30.4     | 32.1     | 35.8     | 37.8     | 38.0     | 39.1     | 39.2     | 39.2     | 39.2     | 39.2     | 39.2     | 39.2    | 39.2    | 39.3    | 39.3    |
| GE 9000               |                                  | 30.7     | 32.9     | 36.6     | 38.7     | 38.9     | 40.0     | 40.1     | 40.1     | 40.1     | 40.1     | 40.1     | 40.1    | 40.1    | 40.2    | 40.2    |
| GE 8000               |                                  | 35.6     | 38.3     | 43.2     | 45.5     | 45.8     | 46.8     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9    | 46.9    | 47.1    | 47.1    |
| GE 7000               |                                  | 36.7     | 39.7     | 44.8     | 47.2     | 47.4     | 48.5     | 48.6     | 48.7     | 48.7     | 48.7     | 48.7     | 48.8    | 48.8    | 48.9    | 48.9    |
| GE 6000               |                                  | 36.7     | 39.7     | 44.8     | 47.2     | 47.4     | 48.5     | 48.6     | 48.7     | 48.7     | 48.7     | 48.7     | 48.8    | 48.8    | 48.9    | 48.9    |
| GE 5000               |                                  | 37.9     | 41.1     | 46.6     | 49.1     | 49.3     | 50.4     | 50.5     | 50.7     | 50.7     | 50.7     | 50.7     | 50.8    | 50.9    | 50.9    | 50.9    |
| GE 4500               |                                  | 38.2     | 41.4     | 47.4     | 49.9     | 50.1     | 51.2     | 51.3     | 51.4     | 51.4     | 51.4     | 51.5     | 51.5    | 51.5    | 51.6    | 51.6    |
| GE 4000               |                                  | 41.3     | 45.0     | 51.4     | 54.2     | 54.7     | 55.8     | 55.9     | 56.0     | 56.0     | 56.0     | 56.1     | 56.1    | 56.1    | 56.2    | 56.2    |
| GE 3500               |                                  | 44.2     | 48.0     | 55.6     | 58.6     | 59.0     | 60.1     | 60.2     | 60.3     | 60.3     | 60.3     | 60.5     | 60.5    | 60.5    | 60.6    | 60.6    |
| GE 3000               |                                  | 48.6     | 52.9     | 62.5     | 66.4     | 66.9     | 69.5     | 68.6     | 68.7     | 68.7     | 68.7     | 68.8     | 68.8    | 68.8    | 69.0    | 69.0    |
| GE 2500               |                                  | 49.3     | 54.0     | 63.8     | 67.9     | 68.3     | 69.9     | 70.2     | 70.3     | 70.3     | 70.4     | 70.5     | 70.5    | 70.5    | 70.6    | 70.6    |
| GE 2000               |                                  | 52.4     | 57.5     | 68.7     | 73.2     | 73.7     | 76.6     | 77.3     | 77.5     | 77.5     | 77.6     | 77.7     | 77.7    | 77.7    | 77.8    | 77.8    |
| GE 1800               |                                  | 52.8     | 58.0     | 69.2     | 73.9     | 74.4     | 77.2     | 78.0     | 78.1     | 78.1     | 78.2     | 78.3     | 78.3    | 78.3    | 78.4    | 78.4    |
| GE 1500               |                                  | 54.9     | 60.2     | 71.9     | 76.9     | 77.6     | 80.6     | 81.4     | 81.7     | 81.8     | 82.0     | 82.1     | 82.1    | 82.2    | 82.4    | 82.4    |
| GE 1200               |                                  | 55.6     | 61.1     | 74.2     | 79.7     | 80.5     | 83.8     | 85.0     | 85.3     | 85.4     | 85.6     | 85.7     | 85.7    | 85.8    | 85.9    | 85.9    |
| GE 1000               |                                  | 56.2     | 61.8     | 75.8     | 81.8     | 82.6     | 85.8     | 87.0     | 87.4     | 87.5     | 87.7     | 87.8     | 87.8    | 87.9    | 88.0    | 88.0    |
| GE 900                |                                  | 56.3     | 62.1     | 76.1     | 82.2     | 83.0     | 86.5     | 87.9     | 88.2     | 88.3     | 88.6     | 88.7     | 88.7    | 88.8    | 88.9    | 88.9    |
| GE 800                |                                  | 56.5     | 62.5     | 76.7     | 82.9     | 83.6     | 87.6     | 89.2     | 89.8     | 90.0     | 90.2     | 90.3     | 90.3    | 90.4    | 90.5    | 90.5    |
| GE 700                |                                  | 56.6     | 63.0     | 77.8     | 84.2     | 85.1     | 88.9     | 91.3     | 91.9     | 92.3     | 92.5     | 92.6     | 92.6    | 92.7    | 92.8    | 92.8    |
| GE 600                |                                  | 57.0     | 63.3     | 78.3     | 84.7     | 85.8     | 89.9     | 92.4     | 93.0     | 93.4     | 93.6     | 93.7     | 93.7    | 93.8    | 93.9    | 93.9    |
| GE 500                |                                  | 57.0     | 63.3     | 79.0     | 85.8     | 86.9     | 91.8     | 94.9     | 95.9     | 96.4     | 96.8     | 97.2     | 97.2    | 97.3    | 97.4    | 97.4    |
| GE 400                |                                  | 57.0     | 63.3     | 79.2     | 86.5     | 87.6     | 92.9     | 96.1     | 97.2     | 97.9     | 98.6     | 98.9     | 98.9    | 99.0    | 99.1    | 99.1    |
| GE 300                |                                  | 57.0     | 63.3     | 79.2     | 86.5     | 87.6     | 92.9     | 96.1     | 97.2     | 97.9     | 98.6     | 99.0     | 99.0    | 99.1    | 99.2    | 99.2    |
| GE 200                |                                  | 57.0     | 63.3     | 79.2     | 86.5     | 87.7     | 93.1     | 96.3     | 97.4     | 98.1     | 99.0     | 99.5     | 99.5    | 99.7    | 99.8    | 99.8    |
| GE 100                |                                  | 57.0     | 63.3     | 79.2     | 86.5     | 87.7     | 93.1     | 96.3     | 97.4     | 98.1     | 99.0     | 99.5     | 99.5    | 99.7    | 99.8    | 100.0   |
| GE 0                  |                                  | 57.0     | 63.3     | 79.2     | 86.5     | 87.7     | 93.1     | 96.3     | 97.4     | 98.1     | 99.0     | 99.5     | 99.5    | 99.7    | 99.8    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-84  
MONTH: DEC HOURS(LST): 1500-1700

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GE 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL  |      | 21.5                             | 23.5  | 25.9  | 26.8  | 27.0  | 27.7  | 28.4  | 28.4  | 28.4  | 28.4  | 28.4  | 28.5  | 28.5 | 28.5 | 28.5 |       |
| GE 20000 |      | 25.5                             | 28.0  | 31.8  | 32.7  | 33.0  | 33.9  | 34.9  | 35.1  | 35.1  | 35.1  | 35.1  | 35.2  | 35.2 | 35.2 | 35.2 | 35.2  |
| GE 18000 |      | 25.5                             | 28.0  | 31.9  | 32.8  | 33.1  | 34.0  | 35.0  | 35.2  | 35.2  | 35.2  | 35.2  | 35.2  | 35.3 | 35.3 | 35.3 | 35.3  |
| GE 16000 |      | 25.5                             | 28.0  | 31.9  | 32.8  | 33.1  | 34.0  | 35.0  | 35.2  | 35.2  | 35.2  | 35.2  | 35.2  | 35.3 | 35.3 | 35.3 | 35.3  |
| GE 14000 |      | 25.5                             | 28.0  | 31.9  | 32.8  | 33.1  | 34.0  | 35.0  | 35.2  | 35.2  | 35.2  | 35.2  | 35.2  | 35.3 | 35.3 | 35.3 | 35.3  |
| GE 12000 |      | 25.6                             | 28.1  | 32.0  | 32.9  | 33.2  | 34.1  | 35.1  | 35.3  | 35.3  | 35.3  | 35.3  | 35.3  | 35.4 | 35.4 | 35.4 | 35.4  |
| GE 10000 |      | 27.2                             | 29.7  | 34.0  | 34.9  | 35.3  | 36.2  | 37.1  | 37.4  | 37.4  | 37.4  | 37.4  | 37.4  | 37.5 | 37.5 | 37.5 | 37.5  |
| GE 9000  |      | 27.9                             | 30.8  | 35.4  | 36.3  | 36.7  | 37.6  | 38.6  | 38.8  | 38.8  | 38.8  | 38.8  | 38.9  | 38.9 | 38.9 | 38.9 | 38.9  |
| GE 8000  |      | 32.2                             | 35.6  | 41.5  | 42.7  | 43.4  | 44.2  | 45.2  | 45.4  | 45.4  | 45.4  | 45.4  | 45.4  | 45.5 | 45.5 | 45.5 | 45.5  |
| GE 7000  |      | 34.1                             | 37.5  | 43.4  | 44.6  | 45.2  | 46.1  | 47.1  | 47.4  | 47.4  | 47.4  | 47.5  | 47.5  | 47.6 | 47.6 | 47.6 | 47.6  |
| GE 6000  |      | 34.2                             | 37.7  | 43.6  | 44.8  | 45.4  | 46.3  | 47.3  | 47.6  | 47.6  | 47.6  | 47.7  | 47.7  | 47.8 | 47.8 | 47.8 | 47.8  |
| GE 5000  |      | 35.2                             | 38.9  | 45.1  | 46.4  | 47.1  | 47.9  | 48.9  | 49.2  | 49.2  | 49.3  | 49.3  | 49.5  | 49.5 | 49.5 | 49.5 | 49.5  |
| GE 4500  |      | 36.1                             | 39.8  | 46.3  | 47.6  | 48.3  | 49.1  | 50.1  | 50.4  | 50.4  | 50.5  | 50.5  | 50.7  | 50.7 | 50.7 | 50.7 | 50.7  |
| GE 4000  |      | 39.5                             | 43.6  | 50.9  | 52.4  | 53.1  | 53.9  | 54.9  | 55.2  | 55.2  | 55.3  | 55.3  | 55.4  | 55.4 | 55.4 | 55.4 | 55.4  |
| GE 3500  |      | 41.8                             | 46.3  | 54.4  | 56.4  | 57.2  | 58.5  | 59.5  | 59.8  | 59.8  | 59.9  | 59.9  | 60.0  | 60.0 | 60.0 | 60.0 | 60.0  |
| GE 3000  |      | 45.0                             | 50.8  | 60.5  | 63.4  | 64.3  | 65.8  | 66.8  | 67.2  | 67.3  | 67.4  | 67.4  | 67.5  | 67.5 | 67.5 | 67.5 | 67.5  |
| GE 2500  |      | 46.1                             | 52.2  | 62.0  | 65.0  | 65.9  | 67.4  | 68.4  | 68.8  | 69.0  | 69.2  | 69.2  | 69.3  | 69.3 | 69.3 | 69.3 | 69.3  |
| GE 2000  |      | 48.8                             | 56.1  | 67.0  | 70.2  | 71.2  | 73.0  | 74.6  | 75.5  | 75.7  | 75.9  | 75.9  | 76.0  | 76.0 | 76.0 | 76.0 | 76.0  |
| GE 1800  |      | 49.0                             | 56.4  | 67.4  | 70.8  | 71.9  | 73.7  | 75.5  | 76.4  | 76.6  | 76.8  | 76.8  | 76.9  | 76.9 | 76.9 | 76.9 | 76.9  |
| GE 1500  |      | 50.0                             | 57.6  | 70.0  | 73.7  | 74.8  | 76.9  | 78.6  | 79.5  | 79.8  | 80.1  | 80.1  | 80.2  | 80.2 | 80.2 | 80.2 | 80.2  |
| GE 1200  |      | 51.1                             | 59.7  | 73.4  | 77.6  | 78.9  | 82.1  | 84.1  | 85.0  | 85.3  | 85.5  | 85.5  | 85.6  | 85.6 | 85.6 | 85.6 | 85.6  |
| GE 1000  |      | 51.2                             | 59.9  | 74.6  | 79.3  | 80.6  | 84.0  | 86.1  | 86.9  | 87.4  | 87.6  | 87.6  | 87.7  | 87.7 | 87.7 | 87.7 | 87.7  |
| GE 900   |      | 51.4                             | 60.1  | 75.1  | 79.8  | 81.3  | 84.7  | 86.8  | 87.7  | 88.1  | 88.3  | 88.3  | 88.5  | 88.5 | 88.5 | 88.5 | 88.5  |
| GE 800   |      | 51.4                             | 60.2  | 75.5  | 80.6  | 82.0  | 85.7  | 87.9  | 89.0  | 89.6  | 90.0  | 90.0  | 90.1  | 90.1 | 90.1 | 90.1 | 90.1  |
| GE 700   |      | 51.6                             | 60.6  | 76.5  | 82.1  | 83.8  | 87.8  | 90.3  | 91.6  | 92.6  | 92.8  | 92.8  | 92.9  | 92.9 | 92.9 | 92.9 | 92.9  |
| GE 600   |      | 51.7                             | 60.8  | 77.1  | 83.1  | 85.2  | 89.2  | 91.9  | 93.6  | 94.6  | 94.8  | 94.8  | 94.9  | 94.9 | 94.9 | 94.9 | 94.9  |
| GE 500   |      | 51.9                             | 60.9  | 77.5  | 83.8  | 86.2  | 90.4  | 93.7  | 95.6  | 96.8  | 97.1  | 97.2  | 97.3  | 97.4 | 97.4 | 97.4 | 97.4  |
| GE 400   |      | 51.9                             | 60.9  | 77.7  | 84.4  | 87.1  | 91.4  | 94.8  | 96.8  | 98.3  | 99.6  | 98.7  | 98.8  | 98.9 | 98.9 | 98.9 | 98.9  |
| GE 300   |      | 51.9                             | 60.9  | 77.7  | 84.4  | 87.1  | 91.4  | 94.8  | 96.8  | 98.4  | 99.9  | 99.0  | 99.2  | 99.3 | 99.3 | 99.3 | 99.3  |
| GE 200   |      | 51.9                             | 60.9  | 77.7  | 84.4  | 87.1  | 91.4  | 94.8  | 96.8  | 98.4  | 99.9  | 99.0  | 99.2  | 99.6 | 99.6 | 99.6 | 99.6  |
| GE 100   |      | 51.9                             | 60.9  | 77.7  | 84.4  | 87.1  | 91.4  | 94.8  | 96.8  | 98.4  | 99.9  | 99.0  | 99.2  | 99.6 | 99.6 | 99.6 | 100.0 |
| GE 0     |      | 51.9                             | 60.9  | 77.7  | 84.4  | 87.1  | 91.4  | 94.8  | 96.8  | 98.4  | 99.9  | 99.0  | 99.2  | 99.6 | 99.6 | 99.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 1800-2100

| CEILING<br>IN<br>FEET | GT<br>160 | GE<br>99 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |         |         |      |      | GE<br>4 | GE<br>3 |
|-----------------------|-----------|----------|----------|----------|----------|----------|----------------------------------|----------|----------|----------|----------|----------|---------|---------|------|------|---------|---------|
|                       |           |          |          |          |          |          | GE<br>32                         | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 |      |      |         |         |
| NO CEIL               |           | 24.1     | 26.8     | 30.5     | 31.6     | 31.6     | 32.9                             | 33.3     | 33.7     | 33.7     | 33.7     | 33.7     | 33.7    | 33.7    | 33.7 | 33.7 | 33.9    |         |
| GE 20000              |           | 26.0     | 29.1     | 33.7     | 34.7     | 34.7     | 36.1                             | 36.5     | 36.8     | 36.9     | 36.9     | 36.9     | 36.9    | 36.9    | 36.9 | 36.9 | 37.1    |         |
| GE 18000              |           | 26.4     | 29.4     | 34.1     | 35.2     | 35.2     | 36.5                             | 36.9     | 37.3     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4 | 37.4 | 37.6    |         |
| GE 16000              |           | 26.4     | 29.4     | 34.1     | 35.2     | 35.2     | 36.5                             | 36.9     | 37.3     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4 | 37.4 | 37.6    |         |
| GE 14000              |           | 26.4     | 29.4     | 34.1     | 35.2     | 35.2     | 36.5                             | 36.9     | 37.3     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4 | 37.4 | 37.6    |         |
| GE 12000              |           | 26.5     | 29.5     | 34.2     | 35.3     | 35.3     | 36.6                             | 37.0     | 37.4     | 37.5     | 37.5     | 37.5     | 37.5    | 37.5    | 37.5 | 37.5 | 37.7    |         |
| GE 10000              |           | 27.3     | 30.4     | 35.1     | 36.4     | 36.4     | 37.8                             | 38.3     | 38.7     | 38.8     | 38.8     | 38.8     | 38.8    | 38.8    | 38.8 | 38.8 | 39.0    |         |
| GE 9000               |           | 27.8     | 31.2     | 36.2     | 37.5     | 37.5     | 38.9                             | 39.4     | 39.8     | 39.9     | 39.9     | 39.9     | 39.9    | 39.9    | 39.9 | 39.9 | 40.1    |         |
| GE 8000               |           | 30.7     | 34.4     | 41.2     | 42.5     | 42.8     | 44.2                             | 44.8     | 45.1     | 45.2     | 45.2     | 45.2     | 45.2    | 45.2    | 45.2 | 45.2 | 45.4    |         |
| GE 7000               |           | 31.9     | 35.7     | 42.8     | 44.1     | 44.4     | 45.9                             | 46.6     | 47.3     | 47.4     | 47.4     | 47.4     | 47.4    | 47.4    | 47.4 | 47.4 | 47.6    |         |
| GE 6000               |           | 31.9     | 35.7     | 42.8     | 44.1     | 44.4     | 45.9                             | 46.6     | 47.3     | 47.4     | 47.4     | 47.4     | 47.4    | 47.4    | 47.4 | 47.4 | 47.6    |         |
| GE 5000               |           | 33.7     | 37.9     | 45.2     | 46.6     | 46.9     | 48.4                             | 49.1     | 49.8     | 49.9     | 49.9     | 49.9     | 49.9    | 49.9    | 49.9 | 49.9 | 50.1    |         |
| GE 4500               |           | 34.4     | 38.7     | 46.3     | 47.7     | 48.0     | 49.5                             | 50.2     | 50.9     | 51.0     | 51.0     | 51.0     | 51.0    | 51.0    | 51.0 | 51.0 | 51.2    |         |
| GE 4000               |           | 38.3     | 44.1     | 52.7     | 54.5     | 54.8     | 56.2                             | 57.0     | 57.6     | 57.7     | 57.7     | 57.7     | 57.7    | 57.7    | 57.7 | 57.7 | 58.0    |         |
| GE 3500               |           | 40.5     | 46.5     | 56.0     | 57.7     | 58.1     | 59.6                             | 60.5     | 61.1     | 61.2     | 61.2     | 61.2     | 61.2    | 61.2    | 61.2 | 61.2 | 61.4    |         |
| GE 3000               |           | 45.6     | 52.7     | 64.1     | 66.2     | 66.6     | 68.5                             | 69.5     | 70.3     | 70.4     | 70.4     | 70.4     | 70.4    | 70.4    | 70.4 | 70.4 | 70.6    |         |
| GE 2500               |           | 46.2     | 53.4     | 64.8     | 67.0     | 67.3     | 69.6                             | 70.7     | 71.5     | 71.6     | 71.6     | 71.6     | 71.6    | 71.6    | 71.6 | 71.6 | 71.8    |         |
| GE 2000               |           | 48.0     | 55.6     | 67.5     | 69.9     | 70.4     | 73.0                             | 74.3     | 75.5     | 76.0     | 76.0     | 76.0     | 76.0    | 76.0    | 76.0 | 76.0 | 76.4    |         |
| GE 1800               |           | 48.0     | 55.7     | 68.0     | 70.6     | 71.0     | 73.6                             | 74.9     | 76.4     | 76.9     | 76.9     | 76.9     | 76.9    | 76.9    | 76.9 | 76.9 | 77.2    |         |
| GE 1500               |           | 49.1     | 57.4     | 70.6     | 73.9     | 74.4     | 77.9                             | 79.2     | 80.6     | 81.2     | 81.2     | 81.2     | 81.2    | 81.2    | 81.2 | 81.2 | 81.5    |         |
| GE 1200               |           | 50.3     | 59.3     | 74.2     | 78.6     | 79.3     | 83.1                             | 84.5     | 85.9     | 86.5     | 86.5     | 86.5     | 86.5    | 86.5    | 86.5 | 86.5 | 86.8    |         |
| GE 1000               |           | 50.3     | 59.7     | 75.1     | 80.2     | 80.9     | 84.7                             | 86.2     | 87.6     | 88.1     | 88.1     | 88.1     | 88.1    | 88.1    | 88.1 | 88.1 | 88.5    |         |
| GE 900                |           | 50.4     | 59.8     | 75.2     | 80.3     | 81.2     | 85.3                             | 86.7     | 88.2     | 88.8     | 88.8     | 88.8     | 88.8    | 88.8    | 88.8 | 88.8 | 89.1    |         |
| GE 800                |           | 50.4     | 59.8     | 75.3     | 80.7     | 81.8     | 86.1                             | 87.5     | 89.5     | 90.7     | 90.7     | 90.7     | 90.7    | 90.7    | 90.7 | 90.7 | 91.1    |         |
| GE 700                |           | 50.7     | 60.0     | 75.7     | 81.6     | 82.9     | 87.3                             | 89.0     | 91.1     | 92.3     | 92.3     | 92.3     | 92.3    | 92.3    | 92.3 | 92.3 | 92.6    |         |
| GE 600                |           | 50.7     | 60.1     | 76.6     | 82.8     | 84.9     | 89.3                             | 91.2     | 93.4     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8 | 94.8 | 95.1    |         |
| GE 500                |           | 50.7     | 60.1     | 76.6     | 82.8     | 84.9     | 89.3                             | 91.2     | 93.4     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8 | 94.8 | 95.1    |         |
| GE 400                |           | 50.7     | 60.1     | 76.6     | 82.8     | 84.9     | 89.3                             | 91.2     | 93.4     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8 | 94.8 | 95.1    |         |
| GE 300                |           | 50.7     | 60.1     | 76.6     | 82.8     | 84.9     | 89.3                             | 91.2     | 93.4     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8 | 94.8 | 95.1    |         |
| GE 200                |           | 50.7     | 60.1     | 76.6     | 82.8     | 84.9     | 89.3                             | 91.2     | 93.4     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8 | 94.8 | 95.1    |         |
| GE 100                |           | 50.7     | 60.1     | 76.6     | 82.8     | 84.9     | 89.3                             | 91.2     | 93.4     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8 | 94.8 | 95.1    |         |
| GE 0                  |           | 50.7     | 60.1     | 76.6     | 82.8     | 84.9     | 89.3                             | 91.2     | 93.4     | 94.8     | 94.8     | 94.8     | 94.8    | 94.8    | 94.8 | 94.8 | 95.1    |         |

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: Q35963 STATION NAME: RAF BENIWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 2100-2300

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| IN       | FEET | GE 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0 |
| NO CEIL  |      | 23.6                             | 25.7  | 31.3  | 33.0  | 33.1  | 34.2  | 34.3  | 34.9  | 35.4  | 35.4  | 35.4  | 35.4  | 35.5 | 35.7 | 35.9 |      |
| GE 20000 |      | 25.5                             | 27.6  | 34.0  | 35.7  | 35.8  | 36.9  | 37.0  | 37.6  | 38.3  | 38.3  | 38.3  | 38.3  | 38.5 | 38.7 | 38.9 |      |
| GE 18000 |      | 25.5                             | 27.6  | 34.1  | 35.8  | 35.9  | 37.0  | 37.1  | 37.7  | 38.5  | 38.5  | 38.5  | 38.5  | 38.6 | 38.8 | 39.0 |      |
| GE 16000 |      | 25.5                             | 27.6  | 34.1  | 35.8  | 35.9  | 37.0  | 37.1  | 37.7  | 38.5  | 38.5  | 38.5  | 38.5  | 38.6 | 38.8 | 39.0 |      |
| GE 14000 |      | 25.5                             | 27.6  | 34.1  | 35.8  | 35.9  | 37.0  | 37.1  | 37.7  | 38.5  | 38.5  | 38.5  | 38.5  | 38.6 | 38.8 | 39.0 |      |
| GE 12000 |      | 25.5                             | 27.6  | 34.1  | 35.8  | 35.9  | 37.0  | 37.1  | 37.7  | 38.5  | 38.5  | 38.5  | 38.5  | 38.6 | 38.8 | 39.0 |      |
| GE 10000 |      | 26.8                             | 29.0  | 35.5  | 37.3  | 37.4  | 38.5  | 38.6  | 39.1  | 39.9  | 39.9  | 39.9  | 39.9  | 40.0 | 40.2 | 40.4 |      |
| GE 9000  |      | 27.0                             | 29.2  | 36.1  | 37.8  | 37.9  | 39.1  | 39.2  | 39.8  | 40.5  | 40.5  | 40.5  | 40.5  | 40.6 | 40.8 | 41.1 |      |
| GE 8000  |      | 30.0                             | 33.0  | 41.4  | 43.1  | 43.5  | 44.7  | 44.8  | 45.3  | 46.1  | 46.1  | 46.1  | 46.1  | 46.2 | 46.4 | 46.6 |      |
| GE 7000  |      | 30.7                             | 34.0  | 42.4  | 44.2  | 44.6  | 46.0  | 46.2  | 46.7  | 47.5  | 47.5  | 47.5  | 47.5  | 47.6 | 47.8 | 48.0 |      |
| GE 6000  |      | 30.8                             | 34.1  | 42.5  | 44.3  | 44.7  | 46.1  | 46.3  | 46.8  | 47.6  | 47.6  | 47.6  | 47.6  | 47.7 | 47.9 | 48.1 |      |
| GE 5000  |      | 31.6                             | 35.0  | 43.6  | 45.4  | 45.8  | 47.2  | 47.4  | 47.9  | 48.7  | 48.7  | 48.7  | 48.7  | 48.8 | 49.1 | 49.2 |      |
| GE 4500  |      | 31.8                             | 35.2  | 44.0  | 45.9  | 46.2  | 47.6  | 47.8  | 48.4  | 49.1  | 49.1  | 49.1  | 49.1  | 49.2 | 49.5 | 49.7 |      |
| GE 4000  |      | 36.6                             | 41.2  | 51.4  | 54.0  | 54.4  | 55.8  | 56.1  | 56.6  | 57.4  | 57.4  | 57.4  | 57.4  | 57.5 | 57.7 | 58.0 |      |
| GE 3500  |      | 38.1                             | 42.7  | 53.4  | 56.2  | 56.5  | 58.0  | 58.3  | 58.8  | 59.8  | 59.8  | 59.8  | 59.8  | 59.9 | 60.1 | 60.3 |      |
| GE 3000  |      | 44.7                             | 49.9  | 61.9  | 65.1  | 65.6  | 67.3  | 67.6  | 68.2  | 69.4  | 69.4  | 69.4  | 69.4  | 69.5 | 69.7 | 69.9 |      |
| GE 2500  |      | 45.3                             | 50.7  | 63.1  | 66.4  | 66.9  | 68.6  | 69.0  | 69.5  | 70.8  | 70.8  | 70.8  | 70.8  | 70.9 | 71.1 | 71.4 |      |
| GE 2000  |      | 47.1                             | 52.9  | 66.2  | 70.0  | 70.5  | 72.5  | 73.1  | 73.7  | 75.3  | 75.3  | 75.3  | 75.4  | 75.5 | 75.7 | 75.9 |      |
| GE 1800  |      | 47.6                             | 53.6  | 67.0  | 71.2  | 71.7  | 73.9  | 74.4  | 75.1  | 76.6  | 76.6  | 76.6  | 76.7  | 76.8 | 77.0 | 77.2 |      |
| GE 1500  |      | 49.1                             | 55.6  | 69.5  | 74.3  | 74.7  | 77.3  | 77.9  | 78.5  | 80.1  | 80.1  | 80.1  | 80.2  | 80.3 | 80.5 | 80.7 |      |
| GE 1200  |      | 50.4                             | 57.1  | 72.1  | 77.8  | 78.3  | 81.5  | 82.4  | 83.0  | 84.5  | 84.5  | 84.5  | 84.6  | 84.7 | 85.0 | 85.2 |      |
| GE 1000  |      | 50.7                             | 57.8  | 73.5  | 80.3  | 80.8  | 84.2  | 85.1  | 85.7  | 87.4  | 87.4  | 87.4  | 87.5  | 87.6 | 87.8 | 88.0 |      |
| GE 900   |      | 50.8                             | 58.0  | 73.6  | 80.6  | 81.2  | 84.6  | 85.6  | 86.3  | 87.9  | 87.9  | 87.9  | 88.0  | 88.1 | 88.3 | 88.6 |      |
| GE 800   |      | 50.8                             | 58.0  | 73.6  | 81.0  | 81.6  | 85.3  | 86.4  | 87.5  | 89.3  | 89.3  | 89.3  | 89.4  | 89.5 | 89.8 | 90.0 |      |
| GE 700   |      | 50.9                             | 58.1  | 74.6  | 82.5  | 83.0  | 86.7  | 88.2  | 89.3  | 91.2  | 91.2  | 91.2  | 91.3  | 91.4 | 91.6 | 91.8 |      |
| GE 600   |      | 50.9                             | 58.1  | 75.6  | 84.7  | 85.4  | 89.3  | 90.8  | 91.9  | 94.1  | 94.1  | 94.1  | 94.2  | 94.3 | 94.6 | 94.8 |      |
| GE 500   |      | 50.9                             | 58.1  | 75.7  | 85.4  | 86.1  | 90.3  | 91.9  | 93.0  | 95.2  | 95.2  | 95.2  | 95.5  | 95.6 | 95.9 | 96.1 |      |
| GE 400   |      | 50.9                             | 58.1  | 76.0  | 85.9  | 86.7  | 91.2  | 93.0  | 94.1  | 96.7  | 96.7  | 96.7  | 97.1  | 97.2 | 97.4 | 97.6 |      |
| GE 300   |      | 50.9                             | 58.1  | 76.0  | 85.9  | 86.8  | 91.3  | 93.1  | 94.2  | 96.8  | 96.8  | 96.8  | 97.2  | 97.3 | 97.5 | 97.7 |      |
| GE 200   |      | 50.9                             | 58.2  | 76.3  | 86.3  | 87.1  | 91.6  | 93.5  | 94.6  | 97.5  | 97.6  | 97.6  | 97.7  | 97.9 | 98.4 | 98.7 |      |
| GE 100   |      | 50.9                             | 58.2  | 76.3  | 86.3  | 87.1  | 91.6  | 93.5  | 94.6  | 97.5  | 97.6  | 97.6  | 97.7  | 97.9 | 98.4 | 98.7 |      |
| GE       | CL   | 50.9                             | 58.2  | 76.3  | 86.3  | 87.1  | 91.6  | 93.5  | 94.6  | 97.5  | 97.6  | 97.6  | 97.7  | 97.9 | 98.4 | 98.7 |      |

TOTAL NUMBER OF OBSERVATIONS: 918



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86

MONTH: DEC

HOURS (LST):

ALL

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|---------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN      | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0  |
| NO CEIL | I    |                                  | 23.4  | 25.6  | 28.9  | 30.4  | 30.6  | 31.8  | 32.5  | 32.7  | 32.9  | 32.9  | 32.9  | 33.0 | 33.1 | 33.3 | 33.4  |
| GE 2000 | I    |                                  | 26.5  | 29.0  | 33.1  | 34.7  | 35.1  | 36.2  | 36.9  | 37.2  | 37.4  | 37.4  | 37.4  | 37.5 | 37.6 | 37.8 | 37.9  |
| GE 1800 | I    |                                  | 26.6  | 29.1  | 33.3  | 34.9  | 35.3  | 36.4  | 37.1  | 37.4  | 37.6  | 37.6  | 37.6  | 37.7 | 37.8 | 38.0 | 38.1  |
| GE 1600 | I    |                                  | 26.6  | 29.1  | 33.3  | 34.9  | 35.3  | 36.4  | 37.1  | 37.4  | 37.6  | 37.6  | 37.6  | 37.7 | 37.8 | 38.0 | 38.1  |
| GE 1400 | I    |                                  | 26.6  | 29.1  | 33.3  | 35.0  | 35.3  | 36.4  | 37.1  | 37.4  | 37.6  | 37.6  | 37.7  | 37.7 | 37.8 | 38.0 | 38.2  |
| GE 1200 | I    |                                  | 26.7  | 29.2  | 33.4  | 35.1  | 35.4  | 36.6  | 37.3  | 37.5  | 37.8  | 37.8  | 37.8  | 37.9 | 38.0 | 38.2 | 38.3  |
| GE 1000 | I    |                                  | 28.1  | 30.7  | 35.0  | 36.7  | 37.1  | 38.3  | 39.0  | 39.2  | 39.5  | 39.5  | 39.5  | 39.6 | 39.7 | 39.9 | 40.0  |
| GE 900  | I    |                                  | 28.6  | 31.4  | 35.8  | 37.6  | 37.9  | 39.1  | 39.9  | 40.1  | 40.3  | 40.4  | 40.4  | 40.5 | 40.6 | 40.7 | 40.9  |
| GE 800  | I    |                                  | 32.3  | 35.5  | 41.3  | 43.3  | 43.8  | 45.0  | 45.7  | 46.0  | 46.3  | 46.3  | 46.3  | 46.4 | 46.5 | 46.7 | 46.8  |
| GE 700  | I    |                                  | 33.3  | 36.6  | 42.5  | 44.6  | 45.1  | 46.4  | 47.2  | 47.5  | 47.8  | 47.8  | 47.9  | 47.9 | 48.0 | 48.2 | 48.4  |
| GE 600  | I    |                                  | 33.3  | 36.7  | 42.6  | 44.6  | 45.1  | 46.4  | 47.2  | 47.6  | 47.8  | 47.9  | 47.9  | 48.0 | 48.1 | 48.3 | 48.4  |
| GE 500  | I    |                                  | 34.5  | 38.0  | 44.2  | 46.4  | 46.9  | 48.2  | 49.0  | 49.3  | 49.6  | 49.7  | 49.7  | 49.8 | 49.9 | 50.0 | 50.2  |
| GE 450  | I    |                                  | 34.9  | 38.4  | 44.8  | 47.0  | 47.5  | 48.9  | 49.7  | 50.0  | 50.3  | 50.3  | 50.4  | 50.4 | 50.5 | 50.7 | 50.9  |
| GE 400  | I    |                                  | 39.3  | 43.5  | 50.9  | 53.6  | 54.2  | 55.7  | 56.5  | 56.9  | 57.1  | 57.2  | 57.2  | 57.3 | 57.4 | 57.6 | 57.7  |
| GE 350  | I    |                                  | 41.4  | 46.1  | 54.1  | 57.1  | 57.7  | 59.3  | 60.1  | 60.5  | 60.8  | 60.9  | 60.9  | 61.0 | 61.1 | 61.3 | 61.4  |
| GE 300  | I    |                                  | 46.4  | 51.7  | 61.7  | 65.1  | 65.8  | 67.7  | 68.7  | 69.1  | 69.4  | 69.5  | 69.6  | 69.6 | 69.8 | 69.9 | 70.1  |
| GE 250  | I    |                                  | 47.0  | 52.5  | 62.7  | 66.2  | 66.9  | 68.9  | 69.9  | 70.3  | 70.6  | 70.8  | 70.8  | 70.9 | 71.0 | 71.2 | 71.3  |
| GE 200  | I    |                                  | 49.3  | 55.5  | 66.7  | 70.7  | 71.6  | 73.9  | 75.2  | 75.7  | 76.2  | 76.3  | 76.4  | 76.4 | 76.6 | 76.8 | 76.9  |
| GE 180  | I    |                                  | 49.5  | 55.8  | 67.2  | 71.5  | 72.3  | 74.7  | 76.0  | 76.6  | 77.0  | 77.1  | 77.2  | 77.3 | 77.4 | 77.6 | 77.8  |
| GE 150  | I    |                                  | 50.8  | 57.4  | 69.4  | 74.1  | 75.0  | 77.7  | 79.0  | 79.6  | 80.1  | 80.3  | 80.3  | 80.4 | 80.6 | 80.8 | 80.9  |
| GE 120  | I    |                                  | 51.8  | 58.8  | 71.6  | 77.4  | 78.4  | 81.4  | 82.9  | 83.6  | 84.1  | 84.2  | 84.3  | 84.4 | 84.6 | 84.8 | 84.9  |
| GE 100  | I    |                                  | 52.1  | 59.4  | 73.3  | 79.4  | 80.4  | 83.6  | 85.4  | 86.1  | 86.6  | 86.8  | 86.8  | 87.0 | 87.1 | 87.3 | 87.5  |
| GE 90   | I    |                                  | 52.3  | 59.7  | 73.7  | 80.0  | 81.1  | 84.4  | 86.2  | 87.0  | 87.5  | 87.7  | 87.7  | 87.8 | 88.0 | 88.2 | 88.3  |
| GE 80   | I    |                                  | 52.5  | 59.9  | 74.2  | 80.9  | 82.0  | 85.5  | 87.5  | 88.5  | 89.2  | 89.4  | 89.4  | 89.5 | 89.7 | 89.9 | 90.1  |
| GE 70   | I    |                                  | 52.6  | 60.2  | 75.1  | 82.2  | 83.4  | 87.0  | 89.3  | 90.4  | 91.2  | 91.3  | 91.4  | 91.5 | 91.7 | 91.9 | 92.0  |
| GE 60   | I    |                                  | 52.9  | 60.5  | 75.8  | 83.4  | 84.9  | 88.7  | 91.2  | 92.3  | 93.2  | 93.4  | 93.5  | 93.6 | 93.7 | 93.9 | 94.1  |
| GE 50   | I    |                                  | 52.9  | 60.5  | 76.1  | 84.1  | 85.6  | 90.0  | 92.7  | 93.9  | 94.9  | 95.1  | 95.3  | 95.4 | 95.6 | 95.8 | 96.0  |
| GE 40   | I    |                                  | 52.9  | 60.5  | 76.3  | 84.5  | 86.2  | 90.9  | 93.8  | 95.3  | 96.5  | 96.7  | 96.9  | 97.0 | 97.2 | 97.4 | 97.6  |
| GE 30   | I    |                                  | 52.9  | 60.5  | 76.3  | 84.6  | 86.2  | 91.0  | 93.9  | 95.5  | 96.9  | 97.1  | 97.3  | 97.5 | 97.7 | 97.9 | 98.1  |
| GE 20   | I    |                                  | 52.9  | 60.5  | 76.3  | 84.6  | 86.4  | 91.2  | 94.3  | 95.9  | 97.5  | 97.8  | 98.0  | 98.3 | 98.6 | 99.0 | 99.3  |
| GE 10   | I    |                                  | 52.9  | 60.5  | 76.3  | 84.6  | 86.4  | 91.2  | 94.3  | 95.9  | 97.5  | 97.9  | 98.0  | 98.4 | 99.1 | 99.4 | 100.0 |
| GE      | 0    |                                  | 52.9  | 60.5  | 76.3  | 84.6  | 86.4  | 91.2  | 94.3  | 95.9  | 97.5  | 97.9  | 98.0  | 98.4 | 99.1 | 99.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 7307

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-87

MONTH: ALL HOURS (LST): ALL

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |       |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| IN       | FEET | GT 160                           | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE C  |
| NO CEIL  | I    |                                  | 24.3  | 26.6  | 30.3  | 32.1  | 32.6  | 33.7  | 34.4  | 34.6  | 34.9  | 34.9  | 35.0  | 35.1 | 35.2 | 35.2 | 35.4  |
| GE 20000 | I    |                                  | 28.3  | 31.0  | 35.5  | 37.7  | 38.3  | 39.6  | 40.5  | 40.7  | 41.1  | 41.1  | 41.2  | 41.3 | 41.4 | 41.5 | 41.6  |
| GE 18000 | I    |                                  | 28.4  | 31.1  | 35.7  | 37.9  | 38.5  | 39.8  | 40.6  | 40.9  | 41.2  | 41.3  | 41.4  | 41.5 | 41.6 | 41.7 | 41.8  |
| GE 16000 | I    |                                  | 28.4  | 31.1  | 35.7  | 37.9  | 38.5  | 39.8  | 40.7  | 40.9  | 41.2  | 41.3  | 41.4  | 41.5 | 41.6 | 41.7 | 41.8  |
| GE 14000 | I    |                                  | 28.4  | 31.1  | 35.7  | 38.0  | 38.5  | 39.9  | 40.7  | 41.0  | 41.3  | 41.4  | 41.4  | 41.5 | 41.6 | 41.7 | 41.9  |
| GE 12000 | I    |                                  | 28.6  | 31.3  | 36.0  | 38.2  | 38.8  | 40.1  | 41.0  | 41.2  | 41.6  | 41.7  | 41.7  | 41.8 | 41.9 | 42.0 | 42.2  |
| GE 10000 | I    |                                  | 30.0  | 32.9  | 37.8  | 40.1  | 40.7  | 42.1  | 43.0  | 43.2  | 43.6  | 43.7  | 43.8  | 43.8 | 43.9 | 44.0 | 44.2  |
| GE 9000  | I    |                                  | 30.5  | 33.5  | 38.4  | 40.8  | 41.4  | 42.8  | 43.7  | 44.0  | 44.3  | 44.4  | 44.5  | 44.6 | 44.7 | 44.8 | 44.9  |
| GE 8000  | I    |                                  | 34.1  | 37.5  | 43.3  | 46.0  | 46.7  | 48.3  | 49.3  | 49.6  | 50.0  | 50.1  | 50.2  | 50.3 | 50.4 | 50.5 | 50.7  |
| GE 7000  | I    |                                  | 34.9  | 38.4  | 44.4  | 47.2  | 47.9  | 49.5  | 50.5  | 50.8  | 51.3  | 51.4  | 51.4  | 51.5 | 51.6 | 51.7 | 51.9  |
| GE 6000  | I    |                                  | 35.0  | 38.5  | 44.4  | 47.2  | 47.9  | 49.6  | 50.6  | 50.9  | 51.3  | 51.4  | 51.5  | 51.6 | 51.7 | 51.8 | 52.0  |
| GE 5000  | I    |                                  | 36.8  | 40.6  | 46.8  | 49.8  | 50.5  | 52.2  | 53.2  | 53.5  | 54.0  | 54.1  | 54.2  | 54.3 | 54.4 | 54.5 | 54.6  |
| GE 4500  | I    |                                  | 37.6  | 41.4  | 47.8  | 50.8  | 51.6  | 53.3  | 54.4  | 54.7  | 55.2  | 55.3  | 55.4  | 55.4 | 55.6 | 55.7 | 55.8  |
| GE 4000  | I    |                                  | 43.0  | 47.3  | 54.5  | 58.0  | 58.8  | 60.8  | 62.0  | 62.3  | 62.8  | 62.9  | 63.0  | 63.1 | 63.2 | 63.3 | 63.5  |
| GE 3500  | I    |                                  | 45.8  | 50.4  | 58.1  | 61.7  | 62.6  | 64.8  | 66.0  | 66.3  | 66.9  | 67.0  | 67.1  | 67.2 | 67.3 | 67.4 | 67.6  |
| GE 3000  | I    |                                  | 52.4  | 57.6  | 66.4  | 70.6  | 71.6  | 73.9  | 75.4  | 75.8  | 76.4  | 76.6  | 76.7  | 76.8 | 76.9 | 77.0 | 77.2  |
| GE 2500  | I    |                                  | 53.3  | 58.6  | 67.6  | 72.0  | 73.0  | 75.4  | 76.9  | 77.3  | 78.1  | 78.1  | 78.2  | 78.3 | 78.4 | 78.5 | 78.7  |
| GE 2000  | I    |                                  | 55.7  | 61.5  | 71.2  | 76.1  | 77.3  | 79.9  | 81.5  | 82.0  | 82.7  | 82.8  | 82.9  | 83.0 | 83.2 | 83.3 | 83.5  |
| GE 1800  | I    |                                  | 55.9  | 61.7  | 71.6  | 76.5  | 77.7  | 80.3  | 82.0  | 82.5  | 83.2  | 83.3  | 83.4  | 83.5 | 83.7 | 83.8 | 84.0  |
| GE 1500  | I    |                                  | 56.9  | 63.0  | 73.3  | 78.6  | 79.9  | 82.7  | 84.5  | 85.0  | 85.8  | 85.9  | 86.1  | 86.2 | 86.3 | 86.4 | 86.6  |
| GE 1200  | I    |                                  | 57.8  | 64.2  | 75.2  | 81.0  | 82.4  | 85.5  | 87.4  | 88.0  | 88.8  | 89.0  | 89.1  | 89.2 | 89.3 | 89.4 | 89.6  |
| GE 1000  | I    |                                  | 58.2  | 64.7  | 76.2  | 82.3  | 83.6  | 87.1  | 89.2  | 89.8  | 90.7  | 90.8  | 91.0  | 91.1 | 91.2 | 91.3 | 91.5  |
| GE 900   | I    |                                  | 58.3  | 64.8  | 76.5  | 82.8  | 84.3  | 87.7  | 89.8  | 90.5  | 91.4  | 91.5  | 91.7  | 91.8 | 91.9 | 92.0 | 92.2  |
| GE 800   | I    |                                  | 58.4  | 65.0  | 76.9  | 83.3  | 84.9  | 88.5  | 90.7  | 91.4  | 92.3  | 92.5  | 92.6  | 92.7 | 92.9 | 93.0 | 93.2  |
| GE 700   | I    |                                  | 58.6  | 65.2  | 77.3  | 84.1  | 85.7  | 89.4  | 91.8  | 92.6  | 93.6  | 93.8  | 93.9  | 94.0 | 94.2 | 94.3 | 94.5  |
| GE 600   | I    |                                  | 58.7  | 65.3  | 77.7  | 84.6  | 86.3  | 90.2  | 92.7  | 93.5  | 94.6  | 94.8  | 95.0  | 95.1 | 95.3 | 95.4 | 95.6  |
| GE 500   | I    |                                  | 58.7  | 65.4  | 77.9  | 85.0  | 86.8  | 91.0  | 93.7  | 94.6  | 95.8  | 96.1  | 96.3  | 96.4 | 96.6 | 96.7 | 96.9  |
| GE 400   | I    |                                  | 58.7  | 65.4  | 78.0  | 85.2  | 87.0  | 91.3  | 94.2  | 95.2  | 96.6  | 96.9  | 97.1  | 97.3 | 97.5 | 97.7 | 97.9  |
| GE 300   | I    |                                  | 58.7  | 65.4  | 78.0  | 85.2  | 87.1  | 91.5  | 94.5  | 95.5  | 97.0  | 97.4  | 97.6  | 97.9 | 98.2 | 98.4 | 98.7  |
| GE 200   | I    |                                  | 58.7  | 65.4  | 78.0  | 85.2  | 87.1  | 91.5  | 94.5  | 95.7  | 97.2  | 97.7  | 98.0  | 98.3 | 98.7 | 99.0 | 99.4  |
| GE 100   | I    |                                  | 58.7  | 65.4  | 78.0  | 85.2  | 87.1  | 91.5  | 94.5  | 95.7  | 97.2  | 97.7  | 98.0  | 98.3 | 98.8 | 99.1 | 99.9  |
| GE C     | I    |                                  | 58.7  | 65.4  | 78.0  | 85.2  | 87.1  | 91.5  | 94.5  | 95.7  | 97.2  | 97.7  | 98.0  | 98.3 | 98.8 | 99.2 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 87103

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## TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY MAXIMUM (MINIMUM AND MEAN) TEMPERATURES

DATA DERIVED FROM SUMMARY OF DAY DATA.

PERCENTAGE TABULATIONS PRESENTED BY 5-DEGREE FAHRENHEIT INCREMENTS PLUS THE MEAN, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNT.

THE MINIMUM TABLE ALSO INCLUDES A 33 FAHRENHEIT DEGREE INCREMENT.

SINCE MANY STATIONS/SITES DO NOT HAVE MAXIMUM/MINIMUM THERMOMETERS, THESE TEMPERATURES WERE SELECTED BY SCANNING THE HOURLY OBSERVATIONS FOR THE HIGHEST AND LOWEST VALUES.

STATISTICS DO NOT INCLUDE INCOMPLETE MONTHS (THOSE CONTAINING ASTERISKS).

FOUR OR MORE COMPLETE MONTHS ARE REQUIRED FOR COMPUTATION AND DISPLAY OF STATISTICAL VALUES.

### EXTREME MAXIMUM AND MINIMUM VALUES

DATA DERIVED FROM SUMMARY OF DAY DATA.

PRESENTED ARE THE HIGHEST (LOWEST) TEMPERATURE FOR THE MONTH FOR EACH YEAR.

ALSO PRESENTED ARE STATISTICAL VALUES WITH THE SAME LIMITATIONS MENTIONED ABOVE.

AN ASTERISK INDICATES AN INCOMPLETE MONTH.

### MEANS AND STANDARD DEVIATIONS FOR DRY BULB (WET BULB AND DEW POINT) TEMPERATURES

DATA DERIVED FROM HOURLY OBSERVATIONS.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE MEANS, STANDARD DEVIATION AND OBSERVATION COUNTS.

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PERCENTAGE VALUES PRESENTED IN 10 DEGREE INCREMENTS OF RELATIVE HUMIDITY.

ALSO PRESENTED ARE THE MEAN VALUES AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MAXIMUM TEMPERATURES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 035963

STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| TEMP(F)   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| GE 90     |       |       |       |       |       |       | .1    |       |       |       |       |       | .1     |
| GE 85     |       |       |       |       |       | .5    | .4    |       | .1    |       |       |       | .1     |
| GE 80     |       |       |       |       |       | 1.5   | 3.3   | 2.0   | .6    |       |       |       | .6     |
| GE 75     |       |       |       | .1    | .8    | 7.0   | 14.9  | 11.4  | 3.7   | .2    |       |       | 3.2    |
| GE 70     |       |       | .2    | .7    | 4.9   | 23.1  | 39.9  | 37.6  | 17.8  | 2.1   |       |       | 10.6   |
| GE 65     |       |       | 1.0   | 2.1   | 15.9  | 50.6  | 73.6  | 76.0  | 48.1  | 10.9  | .1    |       | 23.4   |
| GE 60     |       | .1    | 2.8   | 13.1  | 46.7  | 83.2  | 96.5  | 98.4  | 85.7  | 36.2  | 2.8   | .3    | 38.5   |
| GE 55     | 1.3   | 3.2   | 12.3  | 34.5  | 77.2  | 97.9  | 99.9  | 99.9  | 98.9  | 76.2  | 21.7  | 5.6   | 52.5   |
| GE 50     | 15.7  | 16.4  | 39.3  | 68.3  | 97.1  | 100.0 | 100.0 | 100.0 | 100.0 | 95.3  | 57.3  | 28.1  | 68.1   |
| GE 45     | 42.9  | 40.6  | 69.3  | 91.9  | 99.7  |       |       |       |       | 99.9  | 84.2  | 57.8  | 82.2   |
| GE 40     | 67.4  | 67.3  | 89.6  | 98.8  | 100.0 |       |       |       |       | 100.0 | 96.7  | 84.7  | 92.1   |
| GE 35     | 92.1  | 90.2  | 99.1  | 99.9  |       |       |       |       |       |       | 99.9  | 97.0  | 98.0   |
| GE 30     | 93.4  | 98.6  | 100.0 | 100.0 |       |       |       |       |       |       | 100.0 | 99.0  | 99.7   |
| GE 25     | 99.9  | 99.9  |       |       |       |       |       |       |       |       |       | 100.0 | 100.0  |
| GE 20     | 100.0 | 100.0 |       |       |       |       |       |       |       |       |       |       | 100.0  |
| MEAN      | 42.7  | 42.8  | 47.6  | 52.3  | 59.1  | 65.2  | 68.5  | 68.4  | 64.8  | 58.1  | 50.0  | 45.5  | 55.4   |
| SD        | 6.176 | 6.402 | 6.240 | 6.068 | 5.839 | 5.958 | 5.568 | 4.900 | 5.073 | 5.173 | 5.399 | 5.737 | 11.011 |
| TOTAL OBS | 1092  | 989   | 1082  | 1050  | 1085  | 1045  | 1113  | 1071  | 1016  | 1049  | 1076  | 1093  | 12751  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MINIMUM TEMPERATURES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 075963

STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-67

| TEMP (F)  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| GE 65I    |       |       |       |       |       |       | .4    | .3    |       |       |       |       | .7     |
| GE 60I    |       |       |       |       |       | 2.2   | 10.2  | 11.5  | 3.9   | 1.0   |       |       | 2.4    |
| GE 55I    |       |       |       | .1    | 1.8   | 21.1  | 50.5  | 49.8  | 26.3  | 9.9   | .8    |       | 13.1   |
| GE 50I    | .5    | .3    | .7    | 2.6   | 19.7  | 63.2  | 87.4  | 85.8  | 62.8  | 33.0  | 8.6   | 2.1   | 30.7   |
| GE 45I    | 6.1   | 3.6   | 5.4   | 17.9  | 60.2  | 89.8  | 99.1  | 98.4  | 98.4  | 63.2  | 28.8  | 14.3  | 48.0   |
| GE 40I    | 22.7  | 18.6  | 27.7  | 51.9  | 88.9  | 98.9  | 100.0 | 99.9  | 98.1  | 85.6  | 54.5  | 23.7  | 65.1   |
| GE 35I    | 52.4  | 49.4  | 67.9  | 84.4  | 98.4  | 100.0 |       | 100.0 | 99.9  | 97.7  | 82.6  | 66.0  | 83.3   |
| GE 32I    | 63.7  | 62.3  | 79.3  | 92.2  | 99.5  |       |       |       | 100.0 | 99.4  | 87.7  | 75.4  | 88.4   |
| GE 30I    | 82.1  | 82.3  | 90.7  | 96.0  | 99.9  |       |       |       |       | 99.9  | 96.6  | 87.8  | 94.0   |
| GE 25I    | 93.5  | 95.0  | 98.2  | 100.0 | 100.0 |       |       |       |       | 100.0 | 99.6  | 96.9  | 98.7   |
| GE 20I    | 98.5  | 98.6  | 99.8  |       |       |       |       |       |       |       | 100.0 | 99.6  | 99.7   |
| GE 15I    | 99.1  | 100.0 | 100.0 |       |       |       |       |       |       |       |       | 100.0 | 99.9   |
| GE 10I    | 99.8  |       |       |       |       |       |       |       |       |       |       |       | 100.0  |
| GE 5I     | 100.0 |       |       |       |       |       |       |       |       |       |       |       | 100.0  |
| MEAN      | 34.7  | 34.3  | 36.6  | 39.7  | 45.4  | 50.6  | 54.2  | 54.2  | 50.9  | 46.4  | 40.4  | 37.0  | 43.7   |
| SD        | 6.564 | 5.863 | 5.180 | 5.050 | 4.670 | 4.530 | 4.255 | 4.518 | 5.247 | 6.053 | 6.344 | 6.482 | 9.026  |
| TOTAL OPS | 1092  | 989   | 1082  | 1050  | 1085  | 1045  | 1113  | 1071  | 1016  | 1049  | 1078  | 1083  | 12753  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MEAN TEMPERATURES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 035063

STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| TEMPERATURE | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| GE 800      |       |       |       |       |       |       | .1    |       |       |       |       |       | .1     |
| GE 750      |       |       |       |       |       |       | .3    |       |       |       |       |       | .3     |
| GE 700      |       |       |       |       |       | 1.1   | 3.3   | 3.2   | .9    |       |       |       | .7     |
| GE 650      |       |       |       |       | .4    | 9.3   | 25.7  | 22.9  | 7.2   | 1.3   |       |       | 5.6    |
| GE 600      |       |       |       | .5    | 6.9   | 36.7  | 66.5  | 67.8  | 39.4  | 9.0   | .1    |       | 19.6   |
| GE 550      | .1    |       | .8    | 5.3   | 23.2  | 77.9  | 96.0  | 96.0  | 76.1  | 33.7  | 4.2   |       | 35.5   |
| GE 500      | 3.4   | 2.6   | 7.7   | 26.2  | 74.8  | 97.6  | 99.9  | 100.0 | 97.2  | 72.5  | 24.3  | 8.9   | 51.3   |
| GE 450      | 10.5  | 17.7  | 34.5  | 62.7  | 96.2  | 100.0 | 100.0 |       | 100.0 | 94.2  | 57.4  | 31.8  | 67.6   |
| GE 400      | 47.9  | 45.6  | 71.3  | 91.5  | 99.6  |       |       |       |       | 99.8  | 85.3  | 63.9  | 83.6   |
| GE 350      | 76.9  | 77.8  | 92.9  | 99.7  | 100.0 |       |       |       |       | 100.0 | 97.7  | 88.4  | 94.5   |
| GE 300      | 94.0  | 94.2  | 99.8  | 100.0 |       |       |       |       |       |       | 100.0 | 98.3  | 98.6   |
| GE 250      | 98.9  | 98.4  | 100.0 |       |       |       |       |       |       |       |       | 99.9  | 99.8   |
| GE 200      | 99.7  | 100.0 |       |       |       |       |       |       |       |       |       | 100.0 | 100.0  |
| GE 150      | 100.0 |       |       |       |       |       |       |       |       |       |       |       | 100.0  |
| MEAN        | 79.0  | 78.6  | 42.4  | 46.3  | 52.5  | 76.2  | 61.6  | 61.5  | 58.1  | 52.5  | 45.5  | 41.6  | 49.6   |
| SD          | 6.079 | 5.784 | 5.137 | 5.019 | 4.683 | 4.636 | 4.338 | 4.071 | 4.489 | 5.091 | 5.485 | 5.804 | 9.715  |
| TOTAL OPS   | 1092  | 989   | 1082  | 1050  | 1085  | 1045  | 1113  | 1071  | 1016  | 1049  | 1078  | 1083  | 12752  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF PENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-97

| YEAR | WHOLE DEGREES FAHRENHEIT<br>-M-O-N-T-H-S- |     |     |     |     |     |     |     |     |     |     |     | ALL<br>MONTHS |
|------|-------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
|      | JAN                                       | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |               |
| 51   |                                           |     |     |     |     | *76 | 78  | 73  | 78  | 63  | 59  | 53  |               |
| 52   | 53                                        | 52  | 60  | 73  | 74  | 66  | 61  | 79  | 71  | 60  | 55  | 50  | 56            |
| 53   | 55                                        | 57  | 64  | 60  | 76  | 77  | 79  | 83  | 76  | 74  | 57  | 57  | 63            |
| 54   | 52                                        | 52  | 58  | 67  | 76  | 74  | 75  | 79  | 75  | 71  | 60  | 57  | 79            |
| 55   | 52                                        | 52  | 57  | 70  | 64  | 74  | 83  | 79  | 77  | 65  | 58  | 58  | 63            |
| 56   | 57                                        | 53  | 59  | 62  | 73  | 70  | 60  | 72  | 73  | 62  | 53  | 55  | 60            |
| 57   | *56                                       |     |     |     |     |     |     |     |     |     |     |     |               |
| 58   | *49                                       | 58  | 57  | 68  | 70  | 73  | 81  | *76 |     |     | 56  | 55  |               |
| 59   | 53                                        | 59  | 57  | 64  | 72  | 80  | 83  | 82  | 80  | 76  | 56  | 52  | 63            |
| 60   | 52                                        | 60  | 57  | 62  | 71  | 78  | 72  | 76  | 72  | 64  | 61  | 55  | 78            |
| 61   | 53                                        | 57  | 69  | 63  | 72  | 84  | 86  | 82  | 78  | 67  | 62  | 59  | 66            |
| 62   | 52                                        | 56  | 56  | 66  | 67  | 73  | 72  | 75  | 80  | 69  | 57  | 56  | 60            |
| 63   | 40                                        | 41  | 60  | 66  | 72  | 74  | 75  | 72  | 73  | 65  | 60  | 52  | 75            |
| 64   | 50                                        | 53  | 51  | 60  | 74  | 77  | 77  | 81  | 79  | 65  | 50  | 55  | 61            |
| 65   | 53                                        | 49  | 71  | 59  | 71  | 72  | 71  | 75  | 66  | 70  | 58  | 55  | 75            |
| 66   | 51                                        | 55  | 55  | 61  | 73  | 77  | 76  | 73  | 72  | 64  | 58  | 53  | 77            |
| 67   | 50                                        | 55  | 62  | 67  | 67  | 72  | 80  | 80  | 72  | 68  | 59  | 56  | 80            |
| 68   | 54                                        | 47  | 67  | 73  | 67  | 72  | 81  | 76  | 72  | 68  | 59  | 50  | 61            |
| 69   | 55                                        | 50  | 56  | 72  | 76  | 76  | 85  | 79  | 76  | 73  | 65  | 49  | 65            |
| 70   | 49                                        | 52  | 58  | 61  | 70  | 81  | 81  | 76  | 77  | 70  | 63  | 54  | 61            |
| 71   | 52                                        | 52  | 54  | 61  | 72  | 70  | 83  | 79  | 74  | 72  | 63  | 61  | 63            |
| 72   | 50                                        | 52  | 65  | 63  | 68  | 68  | 79  | 71  | 69  | 64  | 59  | 55  | 79            |
| 73   | 50                                        | 53  | 59  | 59  | 68  | 75  | 80  | 82  | *87 | *66 | 60  | 55  | 61.7          |
| 74   | 52                                        | 55  | 60  | 66  | 73  | 77  | 78  | 80  | 73  | 57  | 59  | 60  | 60            |
| 75   | 57                                        | 55  | 50  | 62  | 64  | 80  | 78  |     |     |     | 59  | 53  |               |
| 76   | 59                                        | 59  | 62  | 69  | 78  | 87  | 66  | 80  | 71  | 68  | 55  | 48  | 67            |
| 77   | 50                                        | 53  | *62 | 60  | 68  | 75  | 84  | 75  | 75  | *62 | 60  | 59  | 64            |
| 78   | 49                                        | 51  | 57  | 55  | 73  | 77  | 73  | 75  | 87  | 68  | 60  | 53  | 62            |
| 79   | 46                                        | 44  | 57  | 66  | 73  | 73  | 78  | 78  | 75  | 72  | 61  | 61  | 78            |
| 80   | 52                                        | 50  | 54  | 68  | 70  | 72  | 75  | 81  | 70  | 64  | 57  | 57  | 61            |

NOTES \* (BASED ON LESS THAN FULL MONTHS)  
# (AT LEAST ONE DAY LESS THAN 24 OBS)

CONTINUED ON NEXT PAGE....



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF PLINTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-87

| YEAR      | WHOLE DEGREES FAHRENHEIT<br>-M-O-N-T-H-S- |       |       |       |       |       |       |       |       |       |       |       | ALL<br>MONTHS |
|-----------|-------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
|           | JAN                                       | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   |               |
| 81        | 57                                        | 55    | *59   | 63    | 72    |       | 77    | 81    | 73    | 64    | 61    | 50    |               |
| 82        | 54                                        | 54    | 55    | 61    | 72    | 77    | *79   | 82    | 75    | 63    | 61    | 57    | 82            |
| 83        | *55                                       | 54    | 61    | 59    | 68    | 79    | 93    | 79    | 75    | 72    | 61    | 59    | 93            |
| 84        | 59                                        | 55    | 52    | 64    | 63    | 73    | 81    | 82    | 79    | 70    | *61   | 55    | 82            |
| 85        | 52                                        | 57    | *61   | 69    | 73    | 77    | 81    | 79    | 75    | 73    | 61    | *57   | 81            |
| 86        | *52                                       | 37    | 57    | 59    | 66    | 81    | *81   | 73    | 70    | 72    | 61    | 59    | 81            |
| 87        | 50                                        | 57    | 54    | 75    | 70    | 75    | 77    | 82    | 75    | 64    | 55    |       |               |
| MEAN      | 52.2                                      | 52.9  | 58.5  | 63.9  | 70.7  | 76.2  | 79.4  | 78.0  | 74.5  | 67.4  | 59.1  | 51.1  | 81.0          |
| S.D.      | 3.780                                     | 4.865 | 4.866 | 4.751 | 3.616 | 4.375 | 4.593 | 3.529 | 3.598 | 4.471 | 2.589 | 3.406 | 3.210         |
| TOTAL OBS | 1092                                      | 989   | 1082  | 1050  | 1085  | 1045  | 1113  | 1071  | 1016  | 1049  | 1078  | 1083  | 1273          |

NOTES \* (BASED ON LESS THAN FULL MONTHS)  
# (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-97

| YEAR | WHOLE DEGREES FAHRENHEIT |     |     |     |     |               |     |     |     |     |     |     | ALL MONTHS |
|------|--------------------------|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|------------|
|      | JAN                      | FEB | MAR | APR | MAY | -M-O-N-T-H-S- |     | AUG | SEP | OCT | NOV | DEC |            |
|      |                          |     |     |     |     | JUN           | JUL |     |     |     |     |     |            |
| 51   |                          |     |     |     |     | 44            | 45  | 47  | 43  | 35  | 31  | 25  |            |
| 52   | 18                       | 23  | 30  | 30  | 40  | 42            | 47  | 47  | 34  | 33  | 20  | 22  | 18         |
| 53   | 28                       | 27  | 24  | 30  | 33  | 40            | 49  | 46  | 41  | 34  | 30  | 34  | 24         |
| 54   | 22                       | 21  | 24  | 29  | 35  | 38            | 45  | 46  | 36  | 35  | 29  | 29  | 21         |
| 55   | 15                       | 21  | 24  | 30  | 35  | 40            | 43  | 45  | 41  | 31  | 30  | 25  | 15         |
| 56   | 20                       | 15  | 27  | 20  | 35  | 40            | 47  | 42  | 47  | 38  | 28  | 28  | 15         |
| 57   | *31                      |     |     |     |     |               |     |     |     |     |     |     |            |
| 58   | *20                      | 27  | 19  | 30  | 33  | 39            | 47  | *47 |     |     | 31  | 28  |            |
| 59   | 24                       | 26  | 32  | 36  | 35  | 42            | 46  | 49  | 44  | 37  | 28  | 30  | 24         |
| 60   | 24                       | 24  | 34  | 35  | 34  | 42            | 43  | 44  | 44  | 35  | 33  | 31  | 24         |
| 61   | 20                       | 33  | 30  | 34  | 36  | 40            | 46  | 48  | 46  | 33  | 30  | 21  | 21         |
| 62   | 23                       | 27  | 22  | 33  | 32  | 35            | 42  | 47  | 38  | 34  | 26  | 19  | 19         |
| 63   | 9                        | 17  | 27  | 29  | 35  | 49            | 45  | 47  | 43  | 37  | 30  | 24  | 9          |
| 64   | 23                       | 26  | 27  | 29  | 42  | 41            | 41  | 40  | 40  | 30  | 24  | 16  | 16         |
| 65   | 28                       | 26  | 19  | 32  | 36  | 38            | 40  | 46  | 39  | 33  | 23  | 21  | 19         |
| 66   | 20                       | 25  | 27  | 29  | 39  | 41            | 44  | 39  | 42  | 38  | 31  | 22  | 20         |
| 67   | 21                       | 20  | 33  | 27  | 29  | 40            | 49  | 47  | 42  | 37  | 30  | 24  | 21         |
| 68   | 14                       | 27  | 32  | 31  | 37  | 44            | 44  | 42  | 44  | 41  | 30  | 19  | 14         |
| 69   | 30                       | 15  | 25  | 32  | 37  | 41            | 46  | 48  | 37  | 39  | 26  | 26  | 15         |
| 70   | 21                       | 24  | 24  | 26  | 39  | 44            | 46  | 41  | 44  | 35  | 29  | 29  | 21         |
| 71   | 23                       | 27  | 27  | 32  | 37  | 45            | 45  | 49  | 43  | 36  | 29  | 32  | 23         |
| 72   | 13                       | 32  | 34  | 34  | 40  | 41            | 45  | 44  | 37  | 33  | 30  | 26  | 13         |
| 73   | 30                       | 24  | 28  | 32  | 33  | 39            | 40  | 51  | *44 | *35 | 26  | 23  | 23         |
| 74   | 24                       | 30  | 30  | 35  | 33  | 42            | 46  | 46  | 30  | 37  | 30  | 33  | 24         |
| 75   | 33                       | 26  | 30  | 30  | 35  | 37            | 44  |     |     |     | 32  | 26  |            |
| 76   | 30                       | 32  | 30  | 28  | 41  | 41            | 46  | 42  | 44  | 42  | 30  | 23  | 23         |
| 77   | 10                       | 24  | *30 | 26  | 37  | 41            | 48  | 48  | 44  | *39 | 32  | 33  | 19         |
| 78   | 24                       | 17  | 26  | 29  | 37  | 37            | 44  | 46  | 37  | 39  | 30  | 24  | 17         |
| 79   | 14                       | 24  | 28  | 28  | 32  | 44            | 48  | 44  | 37  | 34  | 34  | 34  | 14         |
| 80   | 25                       | 30  | 28  | 34  | 36  | 45            | 46  | 43  | 45  | 32  | 30  | 27  | 25         |

NOTES \* BASED ON LESS THAN FULL MONTHS  
# AT LEAST ONE DAY LESS THAN 24 OBS

CONTINUED ON NEXT PAGE....

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 51-PY

| YEAR      | WHOLE DEGREES FAHRENHEIT<br>-M-O-N-T-H-S- |       |       |       |       |       |       |       |       |       |       |       | ALL<br>MONTHS |
|-----------|-------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
|           | JAN                                       | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   |               |
| 81        | 27                                        | 23    | *32   | 32    | 32    |       | 48    | 46    | 45    | 34    | 36    | 21    |               |
| 82        | 21                                        | 28    | 27    | 30    | 36    | 43    | *48   | 46    | 43    | 36    | 30    | 27    | 21            |
| 83        | *30                                       | 28    | 32    | 34    | 39    | 45    | 50    | 50    | 45    | 28    | 25    | 23    | 23            |
| 84        | 27                                        | 28    | 30    | 27    | 37    | 41    | 45    | 52    | 45    | 36    | *36   | 27    | 27            |
| 85        | 7                                         | 19    | *28   | 32    | 41    | 43    | 48    | 45    | 43    | 37    | 25    | *27   | 7             |
| 86        | *23                                       | 19    | 25    | 30    | 39    | 43    | *46   | 46    | 39    | 39    | 36    | 28    | 19            |
| 87        | 16                                        | 27    | 25    | 34    | 37    | 43    | 48    | 41    | 43    | 34    | 28    |       |               |
| MEAN      | 21.9                                      | 24.9  | 27.5  | 30.7  | 36.0  | 41.4  | 45.6  | 45.6  | 41.6  | 35.4  | 29.2  | 21.9  | 19.0          |
| S.F.      | 6.780                                     | 4.626 | 3.852 | 2.715 | 3.063 | 2.698 | 2.268 | 3.076 | 3.315 | 3.056 | 3.359 | 4.144 | 4.339         |
| TOTAL OBS | 1092                                      | 989   | 1032  | 1050  | 1085  | 1045  | 1113  | 1071  | 1016  | 1049  | 1072  | 1083  | 1213          |

NOTES \* (BASED ON LESS THAN FULL MONTHS)  
# (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

DRY-BULB TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-87

| HOURS<br>LST | STATS   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN    |
|--------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 00-02        | MEAN    | 38.1  | 36.9  | 40.0  | 42.9  | 47.9  | 53.8  | 57.8  | 57.6  | 55.5  | 50.8  | 45.7  | 42.1  | 47.5   |
|              | SD      | 6.859 | 6.018 | 5.377 | 4.939 | 4.779 | 4.509 | 4.645 | 4.688 | 5.516 | 6.113 | 6.923 | 6.689 | 9.198  |
|              | TOT OBS | 922   | 840   | 927   | 900   | 927   | 897   | 915   | 929   | 900   | 930   | 888   | 902   | 10877  |
| 03-05        | MEAN    | 37.4  | 36.2  | 39.1  | 41.9  | 46.9  | 52.8  | 56.5  | 56.1  | 54.0  | 49.9  | 45.0  | 41.6  | 46.5   |
|              | SD      | 7.004 | 6.238 | 5.374 | 4.921 | 4.726 | 4.363 | 4.623 | 4.817 | 5.626 | 6.139 | 6.920 | 6.698 | 9.017  |
|              | TOT OBS | 925   | 840   | 926   | 900   | 927   | 899   | 915   | 930   | 900   | 930   | 888   | 903   | 10683  |
| 06-08        | MEAN    | 37.3  | 36.0  | 39.6  | 43.7  | 50.1  | 56.3  | 59.9  | 58.7  | 55.6  | 50.2  | 44.9  | 41.4  | 47.9   |
|              | SD      | 7.070 | 6.164 | 5.300 | 5.022 | 4.981 | 4.488 | 4.671 | 4.665 | 5.358 | 6.163 | 6.893 | 6.716 | 9.913  |
|              | TOT OBS | 927   | 843   | 925   | 900   | 925   | 898   | 914   | 930   | 900   | 927   | 886   | 909   | 10884  |
| 09-11        | MEAN    | 38.7  | 38.1  | 43.5  | 48.3  | 54.4  | 60.7  | 64.8  | 64.6  | 61.5  | 54.7  | 47.3  | 42.5  | 51.7   |
|              | SD      | 6.688 | 5.985 | 4.982 | 5.577 | 5.726 | 5.346 | 5.507 | 5.095 | 4.810 | 5.430 | 6.427 | 6.397 | 11.002 |
|              | TOT OBS | 927   | 842   | 924   | 900   | 924   | 898   | 912   | 930   | 900   | 927   | 883   | 921   | 10886  |
| 12-14        | MEAN    | 40.7  | 40.0  | 45.9  | 50.4  | 56.3  | 62.7  | 66.9  | 67.0  | 64.2  | 57.0  | 49.5  | 44.5  | 53.8   |
|              | SD      | 6.317 | 6.205 | 5.196 | 6.206 | 5.943 | 5.874 | 6.063 | 5.504 | 5.144 | 5.138 | 5.769 | 6.052 | 11.137 |
|              | TOT OBS | 927   | 842   | 924   | 900   | 925   | 899   | 912   | 930   | 900   | 930   | 880   | 918   | 10887  |
| 15-17        | MEAN    | 40.2  | 39.7  | 45.4  | 49.7  | 55.8  | 62.3  | 66.6  | 66.3  | 63.4  | 55.8  | 48.3  | 43.7  | 53.2   |
|              | SD      | 6.391 | 6.108 | 5.350 | 6.206 | 5.901 | 5.791 | 5.959 | 5.179 | 5.176 | 5.073 | 5.855 | 6.171 | 11.128 |
|              | TOT OBS | 927   | 840   | 925   | 900   | 924   | 898   | 915   | 929   | 900   | 930   | 882   | 916   | 10899  |
| 18-20        | MEAN    | 38.8  | 37.9  | 42.5  | 46.4  | 52.4  | 59.1  | 63.2  | 62.6  | 59.6  | 52.7  | 46.6  | 42.5  | 50.4   |
|              | SD      | 6.523 | 5.914 | 5.170 | 5.376 | 5.447 | 5.238 | 5.294 | 4.458 | 4.886 | 5.398 | 6.462 | 6.334 | 10.388 |
|              | TOT OBS | 927   | 840   | 927   | 900   | 924   | 898   | 913   | 930   | 900   | 930   | 881   | 916   | 10888  |
| 21-23        | MEAN    | 38.2  | 37.1  | 40.0  | 44.0  | 49.3  | 55.5  | 59.5  | 59.1  | 56.9  | 51.3  | 45.8  | 42.0  | 48.4   |
|              | SD      | 6.630 | 5.923 | 5.269 | 4.944 | 4.877 | 4.506 | 4.586 | 4.367 | 5.051 | 5.836 | 6.757 | 6.493 | 9.494  |
|              | TOT OBS | 927   | 840   | 927   | 900   | 926   | 899   | 913   | 930   | 900   | 930   | 882   | 918   | 10692  |
| ALL<br>HOURS | MEAN    | 38.7  | 37.7  | 42.4  | 45.9  | 51.6  | 57.9  | 61.9  | 61.5  | 58.8  | 52.9  | 46.6  | 42.6  | 49.9   |
|              | SD      | 6.787 | 6.236 | 5.803 | 6.220 | 6.296 | 6.194 | 6.407 | 6.227 | 6.349 | 6.221 | 6.698 | 6.518 | 10.515 |
|              | TOT OBS | 7409  | 6727  | 7405  | 7200  | 7402  | 7186  | 7306  | 7436  | 7200  | 7434  | 7070  | 7307  | 87087  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

WET-BULB TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-87

| HOURLS<br>LST | STATS   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|---------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 00-02         | MEAN    | 35.3  | 34.4  | 37.5  | 40.1  | 45.2  | 50.5  | 54.5  | 54.6  | 52.3  | 48.1  | 42.5  | 39.5  | 44.6  |
|               | SD      | 6.418 | 5.808 | 5.187 | 4.717 | 4.656 | 4.368 | 4.538 | 4.780 | 5.493 | 5.996 | 6.752 | 6.457 | 8.925 |
|               | TOT OBS | 922   | 840   | 927   | 900   | 927   | 897   | 915   | 924   | 900   | 937   | 888   | 902   | 10877 |
| 03-05         | MEAN    | 34.8  | 33.8  | 36.6  | 39.3  | 44.5  | 49.8  | 53.6  | 53.5  | 51.2  | 47.3  | 41.9  | 39.0  | 43.9  |
|               | SD      | 6.531 | 5.913 | 5.244 | 4.682 | 4.655 | 4.347 | 4.594 | 4.906 | 5.533 | 6.074 | 6.729 | 6.473 | 8.818 |
|               | TOT OBS | 925   | 840   | 926   | 900   | 927   | 899   | 915   | 930   | 900   | 930   | 888   | 903   | 10983 |
| 06-08         | MEAN    | 34.7  | 33.6  | 37.2  | 40.7  | 46.7  | 52.1  | 55.9  | 55.4  | 52.3  | 47.5  | 41.9  | 38.8  | 44.8  |
|               | SD      | 6.623 | 5.832 | 5.185 | 4.663 | 4.614 | 4.276 | 4.520 | 4.556 | 5.159 | 6.002 | 6.728 | 6.491 | 9.382 |
|               | TOT OBS | 927   | 843   | 925   | 900   | 925   | 898   | 914   | 930   | 900   | 927   | 886   | 909   | 10884 |
| 09-11         | MEAN    | 35.8  | 35.2  | 40.1  | 43.6  | 49.0  | 54.3  | 58.1  | 58.0  | 55.6  | 50.6  | 43.7  | 39.7  | 47.0  |
|               | SD      | 6.268 | 5.695 | 4.772 | 4.743 | 4.921 | 4.729 | 4.768 | 4.393 | 4.451 | 5.147 | 6.354 | 6.280 | 9.601 |
|               | TOT OBS | 927   | 842   | 923   | 900   | 924   | 898   | 912   | 930   | 900   | 927   | 883   | 921   | 10947 |
| 12-14         | MEAN    | 37.3  | 36.5  | 41.5  | 44.7  | 50.0  | 55.3  | 59.0  | 58.9  | 56.6  | 51.7  | 45.2  | 41.2  | 48.2  |
|               | SD      | 5.875 | 5.822 | 4.925 | 5.058 | 5.074 | 4.912 | 4.808 | 4.483 | 4.501 | 4.942 | 5.739 | 5.949 | 9.378 |
|               | TOT OBS | 927   | 841   | 924   | 900   | 925   | 899   | 912   | 930   | 900   | 937   | 880   | 918   | 10896 |
| 15-17         | MEAN    | 36.9  | 36.3  | 41.2  | 44.2  | 49.7  | 55.1  | 58.9  | 58.7  | 56.4  | 51.0  | 44.5  | 40.6  | 47.9  |
|               | SD      | 6.065 | 5.836 | 4.982 | 5.044 | 4.894 | 4.775 | 4.740 | 4.316 | 4.522 | 4.958 | 5.869 | 6.186 | 9.468 |
|               | TOT OBS | 927   | 840   | 925   | 900   | 924   | 898   | 915   | 929   | 900   | 930   | 882   | 918   | 10888 |
| 18-20         | MEAN    | 35.9  | 35.1  | 39.3  | 42.3  | 47.8  | 53.5  | 57.5  | 57.3  | 54.7  | 49.3  | 43.3  | 39.8  | 46.4  |
|               | SD      | 6.193 | 5.731 | 4.946 | 4.677 | 4.729 | 4.458 | 4.576 | 4.229 | 4.707 | 5.339 | 6.445 | 6.197 | 9.375 |
|               | TOT OBS | 927   | 840   | 927   | 900   | 924   | 898   | 913   | 930   | 900   | 930   | 891   | 916   | 10848 |
| 21-23         | MEAN    | 35.4  | 34.5  | 38.1  | 40.8  | 46.1  | 51.6  | 55.6  | 55.5  | 53.2  | 48.3  | 42.6  | 39.4  | 45.1  |
|               | SD      | 6.272 | 5.746 | 5.006 | 4.588 | 4.629 | 4.186 | 4.329 | 4.495 | 5.099 | 5.673 | 6.589 | 6.335 | 9.050 |
|               | TOT OBS | 927   | 840   | 927   | 900   | 926   | 899   | 913   | 930   | 900   | 930   | 892   | 916   | 10892 |
| ALL           | MEAN    | 35.8  | 34.9  | 38.9  | 42.0  | 47.4  | 52.8  | 56.6  | 56.5  | 54.0  | 49.2  | 43.2  | 39.8  | 46.0  |
|               | SD      | 6.343 | 5.882 | 5.314 | 5.131 | 5.152 | 4.916 | 4.989 | 4.897 | 5.314 | 5.756 | 6.501 | 6.328 | 9.376 |
| HOURS         | TOT OBS | 7409  | 6726  | 7404  | 7200  | 7402  | 7186  | 7309  | 7438  | 7200  | 7434  | 7070  | 7307  | 87085 |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

DEW-POINT TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-87

| HOURS<br>LST | STATS   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN    |
|--------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 00-02        | MEAN    | 31.0  | 30.2  | 34.0  | 36.5  | 42.1  | 47.5  | 51.8  | 52.1  | 49.5  | 45.3  | 38.7  | 36.0  | 41.3   |
|              | SD      | 7.425 | 6.972 | 6.072 | 5.661 | 5.518 | 5.253 | 5.365 | 5.747 | 6.288 | 6.717 | 7.709 | 7.367 | 9.907  |
|              | TOT OBS | 922   | 840   | 927   | 900   | 927   | 899   | 915   | 929   | 900   | 930   | 888   | 902   | 10677  |
| 03-05        | MEAN    | 30.4  | 29.7  | 33.4  | 35.9  | 41.7  | 47.1  | 51.1  | 51.3  | 48.6  | 44.7  | 38.2  | 35.4  | 40.7   |
|              | SD      | 7.455 | 6.970 | 6.165 | 5.562 | 5.473 | 5.233 | 5.418 | 5.767 | 6.659 | 6.772 | 7.641 | 7.485 | 9.843  |
|              | TOT OBS | 925   | 840   | 926   | 900   | 927   | 899   | 915   | 930   | 900   | 930   | 888   | 903   | 10883  |
| 06-08        | MEAN    | 30.4  | 29.4  | 33.8  | 36.8  | 43.1  | 48.5  | 52.6  | 52.6  | 49.5  | 44.7  | 38.2  | 35.2  | 41.3   |
|              | SD      | 7.642 | 6.936 | 6.164 | 5.567 | 5.591 | 5.261 | 5.528 | 5.529 | 5.691 | 6.735 | 7.744 | 7.498 | 10.241 |
|              | TOT OBS | 927   | 843   | 925   | 900   | 925   | 898   | 914   | 930   | 900   | 927   | 886   | 909   | 10884  |
| 09-11        | MEAN    | 31.3  | 30.6  | 35.6  | 38.0  | 43.5  | 48.9  | 53.0  | 53.0  | 50.7  | 46.7  | 39.5  | 35.9  | 42.3   |
|              | SD      | 7.329 | 6.963 | 5.847 | 5.881 | 6.294 | 5.896 | 6.632 | 5.781 | 5.689 | 6.169 | 7.499 | 7.407 | 10.112 |
|              | TOT OBS | 927   | 842   | 923   | 900   | 924   | 898   | 912   | 930   | 900   | 927   | 883   | 921   | 10687  |
| 12-14        | MEAN    | 32.3  | 31.1  | 35.9  | 37.9  | 43.6  | 49.1  | 53.0  | 52.7  | 50.3  | 46.7  | 40.3  | 37.0  | 42.6   |
|              | SD      | 7.127 | 7.178 | 6.534 | 6.361 | 6.766 | 6.093 | 6.033 | 5.997 | 6.117 | 6.474 | 7.223 | 7.196 | 9.964  |
|              | TOT OBS | 927   | 841   | 924   | 900   | 925   | 899   | 912   | 930   | 900   | 930   | 880   | 916   | 10886  |
| 15-17        | MEAN    | 32.0  | 31.1  | 35.7  | 37.6  | 43.6  | 49.1  | 53.1  | 52.8  | 50.6  | 46.5  | 40.0  | 36.6  | 42.5   |
|              | SD      | 7.365 | 7.189 | 6.364 | 6.240 | 6.395 | 5.901 | 5.956 | 5.976 | 6.230 | 6.409 | 7.249 | 7.300 | 10.043 |
|              | TOT OBS | 927   | 840   | 925   | 900   | 924   | 898   | 915   | 929   | 900   | 910   | 882   | 910   | 10088  |
| 18-20        | MEAN    | 31.4  | 30.6  | 34.9  | 37.3  | 43.0  | 48.7  | 53.0  | 53.1  | 50.6  | 45.9  | 39.3  | 36.1  | 42.1   |
|              | SD      | 7.345 | 7.084 | 6.076 | 5.783 | 5.901 | 5.421 | 5.700 | 5.780 | 5.967 | 6.322 | 7.528 | 7.216 | 10.084 |
|              | TOT OBS | 927   | 840   | 927   | 900   | 924   | 898   | 913   | 930   | 900   | 930   | 881   | 918   | 10888  |
| 21-23        | MEAN    | 31.1  | 30.2  | 34.2  | 36.8  | 42.5  | 48.0  | 52.5  | 52.5  | 50.0  | 45.3  | 38.6  | 35.7  | 41.5   |
|              | SD      | 7.375 | 6.928 | 5.965 | 5.562 | 5.623 | 5.113 | 5.298 | 5.672 | 6.113 | 6.443 | 7.540 | 7.322 | 9.990  |
|              | TOT OBS | 927   | 840   | 927   | 900   | 926   | 899   | 913   | 930   | 900   | 930   | 882   | 916   | 10892  |
| ALL          | MEAN    | 31.2  | 30.3  | 34.7  | 37.1  | 42.9  | 48.4  | 52.5  | 52.5  | 50.0  | 45.7  | 39.1  | 36.0  | 41.8   |
|              | SD      | 7.407 | 7.048 | 6.221 | 5.871 | 5.995 | 5.575 | 5.711 | 5.805 | 6.060 | 6.552 | 7.551 | 7.367 | 10.042 |
|              | TOT OBS | 7409  | 6726  | 7404  | 7200  | 7402  | 7186  | 7309  | 7438  | 7200  | 7434  | 7070  | 7307  | 87085  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-87  
MONTH: JAN

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NUM<br>OBS |
|--------|----------------|--------------------------------------------------------|-------|-------|-------|------|------|------|------|------|------------------------------|---------------------|
|        |                | 10%                                                    | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                     |
| JAN    | 00-02          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.7 | 92.3 | 65.8 | 37.7 | 8.6  | 76.1                         | 921                 |
|        | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.4 | 92.6 | 66.4 | 37.8 | 9.7  | 76.3                         | 925                 |
|        | 06-08          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.1 | 92.9 | 67.5 | 39.1 | 10.6 | 76.6                         | 927                 |
|        | 09-11          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 98.5 | 91.8 | 62.0 | 34.2 | 8.6  | 75.5                         | 927                 |
|        | 12-14          | 100.0                                                  | 100.0 | 100.0 | 99.7  | 96.3 | 81.6 | 51.9 | 28.6 | 6.8  | 72.5                         | 927                 |
|        | 15-17          | 100.0                                                  | 100.0 | 100.0 | 99.6  | 97.6 | 83.7 | 54.9 | 27.4 | 7.1  | 72.9                         | 927                 |
|        | 18-20          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.1 | 90.5 | 62.0 | 35.8 | 9.0  | 75.3                         | 927                 |
|        | 21-23          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.0 | 90.9 | 65.3 | 37.0 | 9.0  | 76.0                         | 927                 |
| TOTALS |                | 100.0                                                  | 100.0 | 100.0 | 99.9  | 98.6 | 89.5 | 62.0 | 34.7 | 8.7  | 75.2                         | 7404                |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/PAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: Q35963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: FEB

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      |                      | MEAN | TOTAL |
|-------|----------------|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|----------------------|------|-------|
|       |                | 1%                                                     | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NUM  | OBS   |
| FEB   | 00-02          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 93.9 | 68.8 | 38.6 | 12.3 | 77.1                 | 841  |       |
|       | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 95.2 | 71.0 | 38.6 | 11.2 | 77.6                 | 841  |       |
|       | 06-08          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.4  | 94.9 | 71.2 | 40.6 | 11.3 | 77.4                 | 843  |       |
|       | 09-11          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 98.5  | 89.5 | 60.8 | 31.2 | 9.3  | 74.8                 | 842  |       |
|       | 12-14          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 96.7  | 81.6 | 46.7 | 22.0 | 7.7  | 71.1                 | 841  |       |
|       | 15-17          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 98.1  | 83.9 | 49.0 | 23.6 | 7.5  | 72.0                 | 841  |       |
|       | 18-20          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.5  | 91.2 | 61.4 | 33.8 | 9.8  | 75.4                 | 841  |       |
|       | 21-23          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.8  | 93.6 | 66.3 | 36.5 | 11.1 | 76.4                 | 841  |       |
|       | TOTALS         | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.0  | 90.5 | 61.9 | 33.1 | 10.0 | 75.2                 | 6721 |       |



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-87  
MONTH: MAR

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      | MEAN                 | TOTAL      |
|-------|----------------|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|----------------------|------------|
|       |                | 10%                                                    | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NUM<br>OBS |
| MAR   | 00-02          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.8  | 97.3 | 77.8 | 46.7 | 14.7 | 79.4                 | 927        |
|       | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 97.8 | 82.2 | 51.2 | 16.0 | 80.4                 | 921        |
|       | 06-08          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 96.5 | 81.8 | 50.6 | 13.5 | 80.0                 | 921        |
|       | 09-11          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 98.8  | 88.2 | 59.5 | 30.2 | 6.7  | 74.2                 | 923        |
|       | 12-14          | 100.0                                                  | 100.0 | 100.0 | 99.5  | 91.0  | 72.9 | 46.3 | 21.8 | 3.5  | 69.2                 | 924        |
|       | 15-17          | 100.0                                                  | 100.0 | 100.0 | 99.9  | 91.7  | 76.2 | 50.3 | 20.4 | 2.6  | 69.6                 | 925        |
|       | 18-20          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 98.4  | 89.0 | 63.5 | 31.8 | 6.6  | 74.9                 | 927        |
|       | 21-23          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.8  | 93.3 | 72.9 | 41.6 | 10.6 | 77.6                 | 927        |
|       | TOTALS         | 100.0                                                  | 100.0 | 100.0 | 99.9  | 97.4  | 88.9 | 66.8 | 36.8 | 9.3  | 75.7                 | 7404       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: APR

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      | MEAN                   | TOTAL      |
|-------|----------------|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|------------------------|------------|
|       |                | 10%                                                    | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  | (RELATIVE<br>HUMIDITY) | NUM<br>OBS |
| APR   | 00-02          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.2  | 94.3 | 75.9 | 43.7 | 12.0 | 78.3                   | 901        |
|       | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 96.1 | 79.0 | 48.4 | 14.6 | 79.6                   | 901        |
|       | 06-08          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.3  | 92.7 | 73.0 | 37.3 | 10.2 | 77.2                   | 901        |
|       | 09-11          | 100.0                                                  | 100.0 | 100.0 | 99.1  | 91.0  | 71.7 | 44.1 | 15.9 | 4.2  | 68.3                   | 901        |
|       | 12-14          | 100.0                                                  | 100.0 | 99.9  | 96.9  | 81.1  | 56.1 | 30.7 | 12.0 | 2.6  | 63.5                   | 901        |
|       | 15-17          | 100.0                                                  | 100.0 | 99.9  | 97.6  | 83.4  | 59.9 | 35.6 | 11.7 | 2.0  | 64.3                   | 901        |
|       | 18-20          | 100.0                                                  | 100.0 | 100.0 | 99.7  | 95.0  | 78.2 | 53.8 | 23.6 | 6.0  | 71.3                   | 901        |
|       | 21-23          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 98.8  | 90.8 | 70.1 | 36.2 | 9.2  | 76.2                   | 901        |
|       | TOTALS         | 100.0                                                  | 100.0 | 100.0 | 99.2  | 93.5  | 79.9 | 57.8 | 28.6 | 7.6  | 72.3                   | 7201       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: MAY

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      | MEAN                 | TOTAL      |
|--------|----------------|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|----------------------|------------|
|        |                | 10%                                                    | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NUM<br>OBS |
| MAY    | 00-02          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.6  | 98.7 | 68.3 | 49.3 | 16.3 | 80.6                 | 927        |
|        | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 98.9 | 92.2 | 56.3 | 27.6 | 82.4                 | 927        |
|        | 06-08          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.2  | 93.4 | 77.6 | 38.7 | 11.6 | 77.5                 | 925        |
|        | 09-11          | 100.0                                                  | 100.0 | 100.0 | 98.8  | 90.3  | 70.1 | 45.5 | 15.7 | 4.1  | 67.6                 | 924        |
|        | 12-14          | 100.0                                                  | 100.0 | 99.7  | 96.4  | 82.9  | 59.6 | 35.5 | 9.2  | 2.7  | 63.9                 | 925        |
|        | 15-17          | 100.0                                                  | 100.0 | 100.0 | 97.1  | 84.8  | 59.5 | 35.9 | 13.7 | 2.7  | 64.8                 | 924        |
|        | 18-20          | 100.0                                                  | 100.0 | 100.0 | 99.4  | 94.6  | 80.3 | 55.5 | 22.3 | 5.1  | 71.2                 | 924        |
|        | 21-23          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 98.9  | 95.1 | 79.8 | 38.9 | 10.6 | 77.7                 | 926        |
| TOTALS |                | 100.0                                                  | 100.0 | 100.0 | 99.0  | 93.8  | 81.7 | 63.8 | 30.3 | 9.2  | 73.2                 | 7402       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035967 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-87  
MONTH: JUN

| MONTH | HOURS<br>(LS 1) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      |                      | MEAN | TOTAL |
|-------|-----------------|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|----------------------|------|-------|
|       |                 | 10%                                                    | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NUM  |       |
| JUN   | 00-02           | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 98.9 | 86.0 | 44.5 | 11.0 | 79.5                 | 897  |       |
|       | 03-05           | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 | 92.5 | 50.7 | 15.6 | 81.1                 | 895  |       |
|       | 06-08           | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.9  | 95.0 | 71.9 | 27.7 | 5.9  | 75.6                 | 896  |       |
|       | 09-11           | 100.0                                                  | 100.0 | 100.0 | 99.9  | 94.3  | 65.5 | 35.3 | 9.6  | 1.4  | 65.9                 | 896  |       |
|       | 12-14           | 100.0                                                  | 100.0 | 100.0 | 98.9  | 85.3  | 48.9 | 24.2 | 6.3  | .8   | 61.9                 | 895  |       |
|       | 15-17           | 100.0                                                  | 100.0 | 100.0 | 98.2  | 86.3  | 56.7 | 29.5 | 6.2  | 1.1  | 63.1                 | 896  |       |
|       | 18-20           | 100.0                                                  | 100.0 | 100.0 | 99.6  | 95.3  | 77.1 | 50.0 | 14.6 | 2.8  | 69.1                 | 896  |       |
|       | 21-23           | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.8  | 94.7 | 77.3 | 31.4 | 7.3  | 76.4                 | 895  |       |
|       | TOTALS          | 100.0                                                  | 100.0 | 100.0 | 99.6  | 95.1  | 79.5 | 58.3 | 23.9 | 5.7  | 71.6                 | 7186 |       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7P-87

MONTH: JUL

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |      |      |      |      |      | MEAN                 | TOTAL      |
|--------|----------------|--------------------------------------------------------|-------|-------|-------|------|------|------|------|------|----------------------|------------|
|        |                | 10%                                                    | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NUM<br>OBS |
| JUL    | 00-02          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.2 | 96.0 | 87.3 | 47.7 | 17.3 | 80.6                 | 915        |
|        | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.5 | 97.6 | 91.0 | 56.6 | 22.7 | 82.4                 | 915        |
|        | 06-08          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.1 | 93.9 | 76.5 | 35.2 | 12.6 | 77.2                 | 914        |
|        | 09-11          | 100.0                                                  | 100.0 | 100.0 | 99.7  | 91.2 | 66.4 | 37.6 | 11.7 | 3.0  | 66.4                 | 912        |
|        | 12-14          | 100.0                                                  | 100.0 | 99.6  | 98.2  | 82.2 | 50.4 | 25.7 | 6.4  | 2.3  | 62.2                 | 911        |
|        | 15-17          | 100.0                                                  | 100.0 | 99.7  | 98.1  | 83.7 | 55.6 | 29.9 | 8.3  | 1.6  | 63.0                 | 915        |
|        | 18-20          | 100.0                                                  | 100.0 | 99.9  | 98.9  | 95.1 | 79.7 | 52.8 | 17.9 | 4.2  | 70.3                 | 912        |
|        | 21-23          | 100.0                                                  | 100.0 | 100.0 | 99.5  | 98.5 | 94.9 | 79.2 | 39.1 | 13.1 | 78.2                 | 913        |
| TOTALS |                | 100.0                                                  | 100.0 | 99.9  | 99.3  | 93.6 | 79.3 | 60.0 | 27.9 | 9.6  | 72.5                 | 7309       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: AUG

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |      |      |      |      |      |      | MEAN                 | TOTAL      |
|--------|----------------|--------------------------------------------------------|-------|-------|------|------|------|------|------|------|----------------------|------------|
|        |                | 10%                                                    | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NOF<br>OBS |
| AUG    | 00-02          | 100.0                                                  | 100.0 | 100.0 | 99.6 | 98.7 | 97.2 | 90.3 | 55.8 | 22.9 | 82.3                 | 925        |
|        | 03-05          | 100.0                                                  | 100.0 | 100.0 | 99.7 | 98.6 | 98.7 | 94.5 | 63.5 | 28.4 | 84.3                 | 931        |
|        | 06-08          | 100.0                                                  | 100.0 | 100.0 | 99.5 | 98.3 | 95.9 | 85.5 | 49.4 | 20.2 | 80.7                 | 930        |
|        | 09-11          | 100.0                                                  | 100.0 | 99.9  | 98.4 | 92.6 | 67.7 | 38.3 | 13.8 | 4.3  | 67.1                 | 930        |
|        | 12-14          | 100.0                                                  | 100.0 | 99.9  | 96.6 | 79.7 | 46.5 | 25.1 | 7.6  | 1.4  | 61.2                 | 930        |
|        | 15-17          | 100.0                                                  | 100.0 | 99.8  | 96.3 | 82.9 | 53.7 | 30.2 | 9.9  | 1.8  | 63.0                 | 925        |
|        | 18-20          | 100.0                                                  | 100.0 | 100.0 | 98.8 | 95.9 | 78.7 | 57.5 | 25.1 | 6.3  | 72.0                 | 930        |
|        | 21-23          | 100.0                                                  | 100.0 | 100.0 | 99.5 | 98.7 | 94.3 | 81.7 | 46.0 | 15.4 | 79.5                 | 931        |
| TOTALS |                | 100.0                                                  | 100.0 | 100.0 | 98.6 | 93.2 | 78.9 | 62.9 | 33.9 | 12.6 | 73.8                 | 7438       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: SEP

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      | MEAN                 | TOTAL      |
|-------|----------------|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|----------------------|------------|
|       |                | 10%                                                    | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NUM<br>OBS |
| SEP   | 00-02          | 100.0                                                  | 100.0 | 100.0 | 99.9  | 99.9  | 98.8 | 89.4 | 50.7 | 11.3 | 80.4                 | 900        |
|       | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 94.9 | 54.6 | 11.2 | 81.9                 | 900        |
|       | 06-08          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 98.8 | 90.6 | 44.4 | 8.9  | 79.9                 | 900        |
|       | 09-11          | 100.0                                                  | 100.0 | 100.0 | 99.8  | 95.7  | 76.0 | 44.2 | 12.0 | 1.4  | 68.3                 | 900        |
|       | 12-14          | 100.0                                                  | 100.0 | 99.8  | 97.2  | 82.0  | 50.1 | 23.6 | 6.2  | 1.0  | 61.6                 | 900        |
|       | 15-17          | 100.0                                                  | 100.0 | 99.9  | 97.2  | 85.4  | 59.0 | 32.7 | 9.2  | 2.9  | 64.1                 | 900        |
|       | 18-20          | 100.0                                                  | 100.0 | 100.0 | 99.6  | 97.4  | 85.0 | 62.9 | 23.9 | 5.1  | 73.0                 | 900        |
|       | 21-23          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.9  | 95.9 | 81.0 | 38.4 | 7.8  | 77.9                 | 900        |
|       | TOTALS         | 100.0                                                  | 100.0 | 100.0 | 99.2  | 95.0  | 82.9 | 64.9 | 29.9 | 6.2  | 73.4                 | 7200       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 78-87  
MONTH: OCT

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      |                      | MEAN | TOTAL |
|--------|----------------|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|----------------------|------|-------|
|        |                | 10%                                                    | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NUM  | OBS   |
| OCT    | 00-02          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.8  | 98.6 | 89.0 | 56.9 | 15.5 | 81.4                 | 930  |       |
|        | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.9  | 98.6 | 90.8 | 60.4 | 18.2 | 82.4                 | 930  |       |
|        | 06-08          | 100.0                                                  | 100.0 | 99.9  | 99.9  | 99.8  | 98.2 | 89.8 | 59.3 | 15.6 | 81.7                 | 927  |       |
|        | 09-11          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.6  | 92.2 | 70.3 | 27.2 | 5.4  | 74.8                 | 927  |       |
|        | 12-14          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 95.2  | 77.1 | 45.6 | 15.9 | 4.0  | 69.0                 | 930  |       |
|        | 15-17          | 100.0                                                  | 100.0 | 100.0 | 99.9  | 97.4  | 84.1 | 56.2 | 19.6 | 4.7  | 71.4                 | 930  |       |
|        | 18-20          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.9  | 95.5 | 80.8 | 39.5 | 9.4  | 77.9                 | 930  |       |
|        | 21-23          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 97.3 | 85.7 | 50.2 | 14.0 | 80.2                 | 930  |       |
| TOTALS |                | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.0  | 92.7 | 76.0 | 41.1 | 10.9 | 77.4                 | 7434 |       |



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 03596? STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 7A-87  
MONTH: NOV

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |     | MEAN                   | TOTAL      |
|--------|----------------|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|-----|------------------------|------------|
|        |                | 10%                                                    | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90% | (RELATIVE<br>HUMIDITY) | NUM<br>OBS |
| NOV    | 00-02          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 96.6 | 73.9 | 33.4 | 5.5 | 76.9                   | 886        |
|        | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.7  | 96.2 | 76.9 | 37.0 | 7.4 | 77.5                   | 886        |
|        | 06-08          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.4  | 96.4 | 78.3 | 36.2 | 7.2 | 77.5                   | 886        |
|        | 09-11          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.0  | 93.7 | 68.4 | 23.9 | 3.3 | 74.6                   | 882        |
|        | 12-14          | 100.0                                                  | 100.0 | 100.0 | 99.8  | 96.9  | 86.0 | 56.7 | 16.6 | 2.2 | 71.1                   | 881        |
|        | 15-17          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 98.2  | 90.0 | 64.3 | 22.7 | 3.2 | 73.3                   | 882        |
|        | 18-20          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.9  | 95.2 | 73.2 | 31.2 | 4.4 | 75.9                   | 882        |
|        | 21-23          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.9  | 97.1 | 74.8 | 31.2 | 5.7 | 76.6                   | 882        |
| TOTALS |                | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.1  | 93.9 | 70.8 | 29.0 | 4.9 | 75.4                   | 7071       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-86  
MONTH: DEC

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      | MEAN                 | TOTAL      |
|--------|----------------|--------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|----------------------|------------|
|        |                | 10%                                                    | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NUM<br>OBS |
| DEC    | 00-02          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 80.2 | 43.3 | 14.5 | 79.0                 | 902        |
|        | 03-05          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.4  | 96.5 | 79.6 | 43.0 | 13.2 | 78.9                 | 903        |
|        | 06-08          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.8  | 96.3 | 77.8 | 43.8 | 12.7 | 78.9                 | 904        |
|        | 09-11          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.9  | 94.2 | 72.5 | 37.4 | 11.4 | 77.5                 | 921        |
|        | 12-14          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.7  | 91.7 | 66.3 | 29.4 | 8.1  | 75.3                 | 916        |
|        | 15-17          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.5  | 94.0 | 72.2 | 34.2 | 9.5  | 76.6                 | 916        |
|        | 18-20          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.8  | 96.1 | 77.1 | 40.1 | 11.9 | 78.1                 | 916        |
|        | 21-23          | 100.0                                                  | 100.0 | 100.0 | 100.0 | 100.0 | 96.7 | 77.8 | 43.4 | 12.9 | 78.6                 | 916        |
| TOTALS |                | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.8  | 95.0 | 75.4 | 39.3 | 11.8 | 77.9                 | 7307       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-87  
MONTH: ALL

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |      |      |      |      |      |                      | MEAN       | TOTAL |
|--------|----------------|--------------------------------------------------------|-------|-------|-------|------|------|------|------|------|----------------------|------------|-------|
|        |                | 10%                                                    | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  | RELATIVE<br>HUMIDITY | NUM<br>OBS |       |
| JAN    | ALL            | 100.0                                                  | 100.0 | 100.0 | 99.9  | 98.6 | 89.5 | 62.0 | 34.7 | 8.7  | 75.2                 | 7425       |       |
| FEB    |                | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.0 | 90.5 | 61.9 | 33.1 | 10.0 | 75.2                 | 6726       |       |
| MAR    |                | 100.0                                                  | 100.0 | 100.0 | 99.9  | 97.4 | 88.9 | 66.8 | 36.8 | 9.3  | 75.7                 | 7434       |       |
| APR    |                | 100.0                                                  | 100.0 | 100.0 | 99.2  | 93.5 | 79.9 | 57.8 | 28.6 | 7.6  | 72.3                 | 7231       |       |
| MAY    |                | 100.0                                                  | 100.0 | 100.0 | 99.0  | 93.8 | 81.7 | 63.8 | 30.3 | 9.2  | 73.2                 | 7402       |       |
| JUN    |                | 100.0                                                  | 100.0 | 100.0 | 99.6  | 95.1 | 79.5 | 58.3 | 23.9 | 5.7  | 71.6                 | 7186       |       |
| JUL    |                | 100.0                                                  | 100.0 | 99.9  | 99.3  | 93.6 | 79.3 | 60.0 | 27.9 | 9.6  | 72.5                 | 7305       |       |
| AUG    |                | 100.0                                                  | 100.0 | 100.0 | 98.6  | 93.2 | 78.9 | 62.9 | 33.9 | 12.6 | 73.8                 | 7438       |       |
| SEP    |                | 100.0                                                  | 100.0 | 100.0 | 99.2  | 95.0 | 82.9 | 64.9 | 29.9 | 6.2  | 73.4                 | 7201       |       |
| OCT    |                | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.0 | 92.7 | 76.0 | 41.1 | 17.9 | 77.4                 | 7434       |       |
| NOV    |                | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.1 | 93.9 | 70.8 | 29.0 | 4.9  | 75.4                 | 7371       |       |
| DEC    |                | 100.0                                                  | 100.0 | 100.0 | 100.0 | 99.8 | 95.0 | 75.4 | 39.3 | 11.8 | 77.9                 | 7377       |       |
| TOTALS |                | 100.0                                                  | 100.0 | 100.0 | 99.6  | 96.4 | 86.1 | 65.1 | 32.4 | 8.9  | 74.5                 | 77785      |       |

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PRESSURE SUMMARIES

STATION PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

SEA LEVEL PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

STATION PRESSURE IN INCHES HG FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 035963 STATION NAME: RAF BENTWATERS UNITED KINGDOM

PERIOD OF RECORD: 77-87

| HOURS<br>LST | STATS   | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | ANN    |
|--------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 00           | MEAN    | 29.866 | 29.934 | 29.770 | 29.879 | 29.845 | 29.891 | 29.934 | 29.905 | 29.909 | 29.848 | 29.892 | 29.779 | 29.870 |
|              | SD      | .386   | .359   | .373   | .300   | .244   | .211   | .191   | .188   | .251   | .351   | .338   | .435   | .316   |
|              | TOT OBS | 307    | 280    | 309    | 300    | 309    | 299    | 305    | 310    | 300    | 310    | 296    | 300    | 3625   |
| 03           | MEAN    | 29.856 | 29.923 | 29.755 | 29.867 | 29.833 | 29.879 | 29.922 | 29.895 | 29.897 | 29.837 | 29.881 | 29.770 | 29.859 |
|              | SD      | .389   | .359   | .374   | .298   | .244   | .213   | .193   | .190   | .254   | .351   | .344   | .431   | .317   |
|              | TOT OBS | 308    | 280    | 309    | 300    | 309    | 299    | 305    | 310    | 300    | 310    | 296    | 301    | 3627   |
| 06           | MEAN    | 29.844 | 29.920 | 29.751 | 29.871 | 29.836 | 29.884 | 29.923 | 29.895 | 29.898 | 29.836 | 29.878 | 29.764 | 29.858 |
|              | SD      | .393   | .358   | .376   | .297   | .247   | .216   | .198   | .199   | .256   | .351   | .342   | .427   | .318   |
|              | TOT OBS | 309    | 281    | 309    | 300    | 309    | 299    | 305    | 310    | 300    | 310    | 296    | 301    | 3629   |
| 09           | MEAN    | 29.856 | 29.940 | 29.766 | 29.887 | 29.849 | 29.895 | 29.933 | 29.911 | 29.915 | 29.855 | 29.897 | 29.775 | 29.872 |
|              | SD      | .400   | .357   | .384   | .299   | .250   | .216   | .200   | .197   | .259   | .349   | .341   | .421   | .320   |
|              | TOT OBS | 309    | 281    | 308    | 300    | 308    | 300    | 304    | 310    | 300    | 310    | 295    | 307    | 3632   |
| 12           | MEAN    | 29.852 | 29.945 | 29.767 | 29.886 | 29.846 | 29.896 | 29.932 | 29.905 | 29.912 | 29.855 | 29.895 | 29.773 | 29.871 |
|              | SD      | .401   | .356   | .384   | .300   | .249   | .213   | .199   | .196   | .257   | .343   | .338   | .419   | .318   |
|              | TOT OBS | 309    | 281    | 308    | 300    | 309    | 300    | 304    | 310    | 300    | 310    | 294    | 306    | 3631   |
| 15           | MEAN    | 29.840 | 29.926 | 29.754 | 29.872 | 29.841 | 29.889 | 29.926 | 29.899 | 29.898 | 29.840 | 29.881 | 29.761 | 29.860 |
|              | SD      | .402   | .355   | .376   | .299   | .247   | .210   | .196   | .190   | .249   | .340   | .338   | .418   | .316   |
|              | TOT OBS | 309    | 280    | 308    | 300    | 308    | 300    | 305    | 310    | 300    | 310    | 294    | 306    | 3630   |
| 18           | MEAN    | 29.851 | 29.930 | 29.756 | 29.870 | 29.834 | 29.883 | 29.918 | 29.887 | 29.897 | 29.846 | 29.892 | 29.770 | 29.861 |
|              | SD      | .400   | .354   | .373   | .297   | .248   | .208   | .191   | .199   | .245   | .342   | .337   | .420   | .315   |
|              | TOT OBS | 309    | 280    | 309    | 300    | 308    | 300    | 305    | 310    | 300    | 310    | 294    | 306    | 3631   |
| 21           | MEAN    | 29.861 | 29.938 | 29.769 | 29.884 | 29.854 | 29.894 | 29.930 | 29.911 | 29.912 | 29.852 | 29.890 | 29.772 | 29.872 |
|              | SD      | .395   | .355   | .373   | .299   | .244   | .210   | .189   | .185   | .247   | .348   | .339   | .425   | .315   |
|              | TOT OBS | 309    | 280    | 309    | 300    | 309    | 299    | 304    | 310    | 300    | 310    | 294    | 306    | 3630   |
| ALL          | MEAN    | 29.853 | 29.932 | 29.761 | 29.877 | 29.842 | 29.889 | 29.927 | 29.901 | 29.905 | 29.846 | 29.889 | 29.770 | 29.865 |
|              | SD      | .395   | .356   | .377   | .296   | .247   | .212   | .194   | .193   | .252   | .346   | .339   | .424   | .317   |
| HOURS        | TOT OBS | 2469   | 2243   | 2469   | 2400   | 2469   | 2396   | 2437   | 2480   | 2400   | 2480   | 2359   | 2433   | 29035  |

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