

| WS FORM F-6                             |      |      |      |      |   |      |                     |               |            | STATION<br>MOUNT WASHINGTON OBSERVATORY |            |              |      |       |                          |     |                    |                |  |
|---|------|------|------|------|---|------|---------------------|---------------|------------|---|------------|--------------|------|-------|--------------------------|-----|--------------------|----------------|--|
| PRELIMINARY LOCAL CLIMATOLOGICAL DATA   |      |      |      |      |   |      |                     |               |            | MONTH<br>AUGUST                         |            |              |      |       | YEAR<br>2009             |     |                    |                |  |
| LATITUDE<br>44 DEGREES 16 MINUTES NORTH |      |      |      |      | LONGITUDE<br>71 DEGREES 18 MINUTES WEST |      |                     |               |            | GROUND ELEVATION<br>6280 FT             |            |              |      |       | STANDARD TIME<br>EASTERN |     |                    |                |  |
| TEMPERATURE (°F)                        |      |      |      |      |   |      | PRECIPITATION (IN.) |               |            |   | WIND (MPH) |              |      |       | SUNSHINE (MINUTES)       |     | SKY COVER (TENTHS) | WEATHER OCCUR. |  |
| DAY                                     | MAX  | MIN  | AVG  | NORM | DEPART                                  | HEAT | COOL                | TOTAL (EQUIV) | SNOW & ICE | SNOW/ICE ON GROUND-6AM                  | AVG SPEED  | FASTEST MILE | DIR  | TOTAL | % POSS                   |     |                    |                |  |
| 1                                       | 56   | 45   | 51   | 49   | 2                                       | 14   | 0                   | 0.00          | 0.0        | 0                                       | 27.5       | 55           | W    | 323   | 36                       | 9   | 12                 |                |  |
| 2                                       | 52   | 47   | 50   | 49   | 1                                       | 15   | 0                   | 2.16          | 0.0        | 0                                       | 29.8       | 60           | S    | 40    | 36                       | 10  | 12                 |                |  |
| 3                                       | 56   | 41   | 49   | 49   | 0                                       | 16   | 0                   | 0.00          | 0.0        | 0                                       | 22.3       | 59           | W    | 585   | 66                       | 6   | 12                 |                |  |
| 4                                       | 61   | 45   | 53   | 49   | 4                                       | 12   | 0                   | 0.00          | 0.0        | 0                                       | 17.7       | 53           | SW   | 806   | 91                       | 4   | 12                 |                |  |
| 5                                       | 53   | 41   | 47   | 49   | -2                                      | 18   | 0                   | 0.13          | 0.0        | 0                                       | 38.4       | 61           | W    | 160   | 18                       | 8   | 12                 |                |  |
| 6                                       | 49   | 40   | 45   | 49   | -4                                      | 20   | 0                   | 0.00          | 0.0        | 0                                       | 22.9       | 41           | W    | 225   | 26                       | 9   | 12                 |                |  |
| 7                                       | 42   | 36   | 39   | 49   | -10                                     | 26   | 0                   | 0.21          | T          | 0                                       | 36.3       | 72           | W    | 107   | 12                       | 9   | 125*               |                |  |
| 8                                       | 44   | 32   | 38   | 49   | -11                                     | 27   | 0                   | 0.00          | 0.0        | 0                                       | 25.2       | 51           | N    | 517   | 59                       | 6   | 12                 |                |  |
| 9                                       | 53   | 38   | 46   | 49   | -3                                      | 19   | 0                   | 0.06          | 0.0        | 0                                       | 23.0       | 52           | W    | 345   | 40                       | 9   | 12                 |                |  |
| 10                                      | 57   | 52   | 55   | 49   | 6                                       | 10   | 0                   | 0.00          | 0.0        | 0                                       | 37.7       | 59           | W    | 2     | 0                        | 10  | 12                 |                |  |
| 11                                      | 60   | 49   | 55   | 49   | 6                                       | 10   | 0                   | 0.49          | 0.0        | 0                                       | 16.2       | 50           | NW   | 170   | 20                       | 9   | 123                |                |  |
| 12                                      | 58   | 48   | 53   | 48   | 5                                       | 12   | 0                   | 1.05          | 0.0        | 0                                       | 3.5        | 19           | W    | 95    | 11                       | 9   | 123                |                |  |
| 13                                      | 58   | 48   | 53   | 48   | 5                                       | 12   | 0                   | 0.41          | 0.0        | 0                                       | 6.5        | 21           | NW   | 314   | 36                       | 9   | 123                |                |  |
| 14                                      | 63   | 47   | 55   | 48   | 7                                       | 10   | 0                   | 0.00          | 0.0        | 0                                       | 11.0       | 27           | NW   | 745   | 87                       | 4   | 12                 |                |  |
| 15                                      | 59   | 51   | 55   | 48   | 7                                       | 10   | 0                   | 0.00          | 0.0        | 0                                       | 16.9       | 34           | W    | 664   | 78                       | 5   | 12                 |                |  |
| 16                                      | 63   | 51   | 57   | 48   | 9                                       | 8    | 0                   | 0.00          | 0.0        | 0                                       | 17.3       | 32           | W    | 600   | 70                       | 5   | 12                 |                |  |
| 17                                      | 64   | 54   | 59   | 48   | 11                                      | 6    | 0                   | 0.00          | 0.0        | 0                                       | 20.8       | 55           | W    | 570   | 67                       | 5   | 128                |                |  |
| 18                                      | 65   | 55   | 60   | 47   | 13                                      | 5    | 0                   | 0.00          | 0.0        | 0                                       | 36.0       | 62           | W    | 525   | 62                       | 8   | 128                |                |  |
| 19                                      | 57   | 47   | 52   | 47   | 5                                       | 13   | 0                   | 0.20          | 0.0        | 0                                       | 38.5       | 69           | W    | 70    | 8                        | 9   | 123                |                |  |
| 20                                      | 59   | 46   | 53   | 47   | 6                                       | 12   | 0                   | 0.00          | 0.0        | 0                                       | 24.0       | 39           | W    | 583   | 69                       | 6   | 12                 |                |  |
| 21                                      | 60   | 53   | 57   | 47   | 10                                      | 8    | 0                   | 2.38          | 0.0        | 0                                       | 29.2       | 58           | W    | 0     | 0                        | 10  | 123                |                |  |
| 22                                      | 57   | 52   | 55   | 47   | 8                                       | 10   | 0                   | 0.28          | 0.0        | 0                                       | 22.6       | 46           | SW   | 10    | 1                        | 10  | 12                 |                |  |
| 23                                      | 56   | 50   | 53   | 47   | 6                                       | 12   | 0                   | 0.19          | 0.0        | 0                                       | 9.9        | 24           | N    | 50    | 6                        | 10  | 12                 |                |  |
| 24                                      | 54   | 46   | 50   | 46   | 4                                       | 15   | 0                   | 0.53          | 0.0        | 0                                       | 19.8       | 42           | NW   | 35    | 4                        | 10  | 12                 |                |  |
| 25                                      | 57   | 42   | 50   | 46   | 4                                       | 15   | 0                   | 0.00          | 0.0        | 0                                       | 23.9       | 46           | W    | 615   | 74                       | 5   | 12                 |                |  |
| 26                                      | 52   | 31   | 42   | 46   | -4                                      | 23   | 0                   | 0.07          | 0.0        | 0                                       | 50.4       | 80           | W    | 85    | 10                       | 9   | 12                 |                |  |
| 27                                      | 42   | 31   | 37   | 46   | -9                                      | 28   | 0                   | 0.00          | 0.0        | 0                                       | 37.3       | 61           | NW   | 795   | 97                       | 6   | 126                |                |  |
| 28                                      | 48   | 35   | 42   | 46   | -4                                      | 23   | 0                   | 0.01          | 0.0        | 0                                       | 15.6       | 37           | NW   | 703   | 86                       | 9   | 12                 |                |  |
| 29                                      | 51   | 37   | 44   | 45   | -1                                      | 21   | 0                   | 0.66          | 0.0        | 0                                       | 24.1       | 44           | SE   | 0     | 0                        | 10  | 12                 |                |  |
| 30                                      | 50   | 39   | 45   | 45   | 0                                       | 20   | 0                   | 0.12          | 0.0        | 0                                       | 32.6       | 62           | W    | 250   | 31                       | 8   | 12                 |                |  |
| 31                                      | 39   | 31   | 35   | 45   | -10                                     | 30   | 0                   | 0.10          | 0.0        | 0                                       | 41.4       | 73           | W    | 20    | 2                        | 10  | 126                |                |  |
| SUM                                     | 1695 | 1360 | ---- | ---- | ----                                    | 480  | 0                   | 9.05          | T          | ----                                    | 778.3      | ----         | ---- | 10009 | ----                     | 246 | ----               |                |  |
| AVG                                     | 54.7 | 43.9 | ---- | ---- | ----                                    | ---- | ----                | ----          | ----       | ----                                    | 25.1       | FASTEST      | DIR  | POSS  | %                        | SKY | ----               |                |  |
|   |      |      |      |      |   |      |                     |               |            |   | MISC.-->   | 80           | W    | 26399 | 38%                      | 7.9 | ----               |                |  |

  

| TEMPERATURE DATA (°F)           |                    | PRECIPITATION DATA (IN.)    |                 | WEATHER                   |    | SYMBOLS USED IN COLUMN 16   |                               |
|---------------------------------|--------------------|-----------------------------|-----------------|---------------------------|----|-----------------------------|-------------------------------|
| AVERAGE MONTHLY                 | 49.3               | TOTAL FOR THE MONTH         | 9.05            | NUMBER OF DAYS:           |    | 1 = FOG                     |                               |
| DEPARTURE FROM NORMAL           | 1.7                | DEPARTURE FROM NORMAL       | 0.97            | CLEAR (SCALE 0-3)         | 0  | 2 = FOG REDUCING VISIBILITY | TO 1/4 MILE OR LESS           |
| HIGHEST                         | 65 on 18th         | 24 HOUR MAX                 | 2.40 on 21/22nd | PARTLY CLOUDY (SCALE 4-7) | 10 | 3 = THUNDER                 |                               |
| LOWEST                          | 31 on 26, 27, 31st | SNOWFALL, ICE PELLETS (IN.) |                 | CLOUDY (SCALE 8-10)       | 21 | 4 = ICE PELLETS             |                               |
| NUMBER OF DAYS WITH:            |                    | TOTAL FOR THE MONTH         | T               | WITH .01" OR MORE PRECIP  | 17 | 5 = HAIL                    |                               |
| MAX. 32 OR BELOW                | 0                  | 24 HOUR MAX                 | T on 7th        | WITH .10" OR MORE PRECIP  | 14 | 6 = GLAZE OR RIME           |                               |
| MAX. 90 OR ABOVE                | 0                  | MAX DEPTH ON GROUND         | 0 on N/A        | WITH .50" OR MORE PRECIP  | 5  | 7 = BLOWING DUST OR SAND    | RED. VIS. TO 1/2 MILE OR LESS |
| MIN. 32 OR BELOW                | 4                  | PRESSURE DATA (IN.)         |                 | WITH 1.0" OR MORE PRECIP  | 3  | 8 = SMOKE OR HAZE           |                               |
| MIN. 0 OR BELOW                 | 0                  | HIGHEST SEA-LEVEL           | 30.413 on 16th  |                           |    | 9 = BLOWING SNOW            |                               |
| HEATING DEGREE DAYS (BASE 65°F) |                    | LOWEST SEA-LEVEL            | 29.926 on 29th  |                           |    | X = TORNADO                 |                               |
| TOTAL THIS MONTH                | 480                | AVG STATION                 | 23.943          |                           |    |                             |                               |
| DEPARTURE FROM NORMAL           | -61                |                             |                 |                           |    |                             |                               |
| SEASON TOTAL                    | 1057               |                             |                 |                           |    |                             |                               |
| DEPARTURE FROM NORMAL           | 11                 |                             |                 |                           |    |                             |                               |
| COOLING DEGREE DAYS (BASE 65°F) |                    |                             |                 |                           |    |                             |                               |
| TOTAL THIS MONTH                | 0                  |                             |                 |                           |    |                             |                               |
| DEPARTURE FROM NORMAL           | 0                  |                             |                 |                           |    |                             |                               |
| SEASON TOTAL                    | 0                  |                             |                 |                           |    |                             |                               |
| DEPARTURE FROM NORMAL           | 0                  |                             |                 |                           |    |                             |                               |

  

| AVG RELATIVE HUMIDITY FOR EACH SYNOPTIC HOUR |      |      |      |       |
|--|------|------|------|-------|
| 0600   | 1200 | 1800 | 0000 | MONTH |
| 90   | 87   | 94   | 93   | 91    |

NOTE: PEAK GUST (COL. 11) ENTERED IN PLACE OF FASTEST MILE RECORDED FROM PITOT-STATIC TYPE ANEMOMETER. THERE WERE 366 HOURS OF PREVAILING WINDS FROM THE W. 49% OF THE TOTAL HOURS OF THE MONTH.