

| SUNDAY JANUARY 1 2023   |                       |                          |                          | Meteorological Observatory<br>University Park, PA |                      |                       |
|-------------------------|-----------------------|--------------------------|--------------------------|---|----------------------|-----------------------|
| Temp. (°F)              | Wind (mph)            | Barom. (in.Hg)           | Temperature              | General Observations                              |                      |                       |
| Maximum<br>49           | Direction<br>W        | 74                       | 74                       | SHRA 1600-1800LT                                  |                      |                       |
| Minimum<br>38           | Velocity<br>4MPH      | 28.80                    | 28.80                    | BRIEF - SHRA ~ 2120-2140LT                        |                      |                       |
| Set<br>41               | Character<br>STEADY   | Corrected<br>28.67       | Corrected<br>28.67       | 0700  | 1300                 | 1900                  |
| Ovrt. Low<br>41         | 24 hr. Mov.<br>—      | Sea Level<br>30.06       | Sea Level<br>30.06       | Clouds<br>9/10 St                                 | Clouds<br>—          | Clouds<br>9/10 St     |
| Rel. Humidity<br>85%    | Precip. Solid<br>0.0" | 3 hr. Tendancy<br>+1.7mb | 3 hr. Tendancy<br>+1.7mb | Wx<br>—   | Wx<br>—              | Wx<br>—               |
| Precip. Liquid<br>0.09" | Snow Depth<br>T       | Observer<br>FJG          | Observer<br>FJG          | Visibility (mi)<br>25                             | Visibility (mi)<br>— | Visibility (mi)<br>25 |

| MONDAY 3 JAN 2023       |                       |                          |                          | Meteorological Observatory<br>University Park, PA |                          |                            |
|-------------------------|-----------------------|--------------------------|--------------------------|---|--------------------------|----------------------------|
| Temp. (°F)              | Wind (mph)            | Barom. (in.Hg)           | Temperature              | General Observations                              |                          |                            |
| Maximum<br>54           | Direction<br>—        | 76                       | 76                       | -SHRA - 2100 - 2200                               |                          |                            |
| Minimum<br>41           | Velocity<br>0         | 28.96                    | 28.96                    |   |                          |                            |
| Set<br>46               | Character<br>CALM     | Corrected<br>28.84       | Corrected<br>28.84       | 0700  | 1300                     | 1900                       |
| Ovrt. Low<br>46         | 24 hr. Mov.<br>—      | Sea Level<br>30.22       | Sea Level<br>30.22       | Clouds<br>10/10 St                                | Clouds<br>10/10 NS       | Clouds<br>10/10 St         |
| Rel. Humidity<br>96%    | Precip. Solid<br>0.0" | 3 hr. Tendancy<br>+1.4mb | 3 hr. Tendancy<br>+1.4mb | Wx<br>—   | Wx<br>-DZ                | Wx<br>—                    |
| Precip. Liquid<br>0.02" | Snow Depth<br>0"      | Observer<br>WVS          | Observer<br>WVS          | Visibility (mi)<br>25                             | Visibility (mi)<br>15 mi | Visibility (mi)<br>20-25mi |

| TUESDAY 7 JANUARY 3 2023 |                       |                           |                           | Meteorological Observatory<br>University Park, PA |                          |                          |
|--------------------------|-----------------------|---------------------------|---------------------------|---|--------------------------|--------------------------|
| Temp. (°F)               | Wind (mph)            | Barom. (in.Hg)            | Temperature               | General Observations                              |                          |                          |
| Maximum<br>51            | Direction<br>SSW      | 74                        | 74                        | -DZ 0745-0830                                     |                          |                          |
| Minimum<br>45            | Velocity<br>1 MPH     | 28.87                     | 28.87                     | -RA 1000L -DZ ~ 1300 - 2153                       |                          |                          |
| Set<br>46                | Character<br>light    | Corrected<br>28.74        | Corrected<br>28.74        | 0700  | 1300                     | 1900                     |
| Ovrt. Low<br>46          | 24 hr. Mov.<br>—      | Sea Level<br>30.11        | Sea Level<br>30.11        | Clouds<br>10/10 St                                | Clouds<br>9/10 Sc        | Clouds<br>8/10 St        |
| Rel. Humidity<br>89.1%   | Precip. Solid<br>0.0" | 3 hr. Tendancy<br>-2.7 mb | 3 hr. Tendancy<br>-2.7 mb | Wx<br>-RA   | Wx<br>—                  | Wx<br>—                  |
| Precip. Liquid<br>0.15"  | Snow Depth<br>0"      | Observer<br>AS            | Observer<br>AS            | Visibility (mi)<br>0-5 mi                         | Visibility (mi)<br>25 mi | Visibility (mi)<br>25 mi |

| WEDNESDAY 8 JANUARY 4 2023 |                       |                         |                         | Meteorological Observatory<br>University Park, PA |                          |                          |
|----------------------------|-----------------------|-------------------------|-------------------------|---|--------------------------|--------------------------|
| Temp. (°F)                 | Wind (mph)            | Barom. (in.Hg)          | Temperature             | General Observations                              |                          |                          |
| Maximum<br>58              | Direction<br>SW       | 73                      | 73                      | RA ~ 0753 - 1053                                  |                          |                          |
| Minimum<br>45              | Velocity<br>1 MPH     | 28.74                   | 28.74                   | -RA ~ 1353 - 1553                                 |                          |                          |
| Set<br>54                  | Character<br>light    | Corrected<br>28.61      | Corrected<br>28.61      | 0700  | 1300                     | 1900                     |
| Ovrt. Low<br>54            | 24 hr. Mov.<br>—      | Sea Level<br>29.96      | Sea Level<br>29.96      | Clouds<br>8/10 Cu Ci                              | Clouds<br>10/10 St       | Clouds<br>10/10 St       |
| Rel. Humidity<br>100.1%    | Precip. Solid<br>0.0" | 3 hr. Tendancy<br>+1.02 | 3 hr. Tendancy<br>+1.02 | Wx<br>—   | Wx<br>VCFG               | Wx<br>—                  |
| Precip. Liquid<br>0.70"    | Snow Depth<br>0"      | Observer<br>AS          | Observer<br>AS          | Visibility (mi)<br>25 mi                          | Visibility (mi)<br>25 mi | Visibility (mi)<br>25 mi |

| THURSDAY 9 JANUARY 5 2023 |                       |                           |                           | Meteorological Observatory<br>University Park, PA |                          |                          |
|---------------------------|-----------------------|---------------------------|---------------------------|---|--------------------------|--------------------------|
| Temp. (°F)                | Wind (mph)            | Barom. (in.Hg)            | Temperature               | General Observations                              |                          |                          |
| Maximum<br>59             | Direction<br>W        | 73                        | 73                        | RA ~ 1453   |                          |                          |
| Minimum<br>41             | Velocity<br>2 MPH     | 28.82                     | 28.82                     | -DZ ~ 2053  |                          |                          |
| Set<br>42                 | Character<br>light    | Corrected<br>28.69        | Corrected<br>28.69        | 0700  | 1300                     | 1900                     |
| Ovrt. Low<br>42           | 24 hr. Mov.<br>—      | Sea Level<br>30.07        | Sea Level<br>30.07        | Clouds<br>9/10 St                                 | Clouds<br>5/10 Cu        | Clouds<br>6/10 Cu        |
| Rel. Humidity<br>89.1%    | Precip. Solid<br>0.0" | 3 hr. Tendancy<br>N +0.34 | 3 hr. Tendancy<br>N +0.34 | Wx<br>—   | Wx<br>—                  | Wx<br>—                  |
| Precip. Liquid<br>0.08"   | Snow Depth<br>0"      | Observer<br>AS            | Observer<br>AS            | Visibility (mi)<br>25 mi                          | Visibility (mi)<br>25 mi | Visibility (mi)<br>25 mi |

| FRIDAY 9 JANUARY 6 2023 |                       |                         |                         | Meteorological Observatory<br>University Park, PA |                           |                         |
|-------------------------|-----------------------|-------------------------|-------------------------|---|---------------------------|-------------------------|
| Temp. (°F)              | Wind (mph)            | Barom. (in.Hg)          | Temperature             | General Observations                              |                           |                         |
| Maximum<br>53           | Direction<br>SW       | 75                      | 75                      | -DZ ~ 0315 - 0355                                 |                           |                         |
| Minimum<br>34           | Velocity<br>3 MPH     | 28.87                   | 28.87                   | -RA ~ 0415  |                           |                         |
| Set<br>37               | Character<br>slight   | Corrected<br>28.74      | Corrected<br>28.74      | 0700  | 1300                      | 1900                    |
| Ovrt. Low<br>37         | 24 hr. Mov.<br>—      | Sea Level<br>30.14      | Sea Level<br>30.14      | Clouds<br>10/10 NS                                | Clouds<br>10/10 NS        | Clouds<br>10/10 St      |
| Rel. Humidity<br>96.1%  | Precip. Solid<br>0.0" | 3 hr. Tendancy<br>+0.04 | 3 hr. Tendancy<br>+0.04 | Wx<br>DZ  | Wx<br>-SHSN               | Wx<br>—                 |
| Precip. Liquid<br>0.10" | Snow Depth<br>0"      | Observer<br>AS          | Observer<br>AS          | Visibility (mi)<br>0-5 mi                         | Visibility (mi)<br>35-25V | Visibility (mi)<br>10mi |

| SATURDAY 10 JANUARY 7 2023 |                    |                         |                         | Meteorological Observatory<br>University Park, PA |                      |                       |
|----------------------------|--------------------|-------------------------|-------------------------|---|----------------------|-----------------------|
| Temp. (°F)                 | Wind (mph)         | Barom. (in.Hg)          | Temperature             | General Observations                              |                      |                       |
| Maximum<br>38              | Direction<br>SW    | 70                      | 70                      | -DZ 0700-0730                                     |                      |                       |
| Minimum<br>31              | Velocity<br>3 MPH  | 29.55                   | 29.55                   | -SHSN 12:30-12:45                                 |                      |                       |
| Set<br>35                  | Character<br>DRIZZ | Corrected<br>29.42      | Corrected<br>29.42      | 0700  | 1300                 | 1900                  |
| Ovrt. Low<br>35            | 24 hr. Mov.<br>—   | Sea Level<br>30.87      | Sea Level<br>30.87      | Clouds<br>5/10 Cu                                 | Clouds<br>—          | Clouds<br>7/10 Cu     |
| Rel. Humidity<br>85%       | Precip. Solid<br>T | 3 hr. Tendancy<br>+0.10 | 3 hr. Tendancy<br>+0.10 | Wx<br>—   | Wx<br>—              | Wx<br>—               |
| Precip. Liquid<br>T        | Snow Depth<br>0    | Observer<br>LGT         | Observer<br>LGT         | Visibility (mi)<br>20mi                           | Visibility (mi)<br>— | Visibility (mi)<br>25 |

| SUNDAY 10 JANUARY 8 2023 |                     |                     |                     | Meteorological Observatory<br>University Park, PA |                      |                       |
|--------------------------|---------------------|---------------------|---------------------|---|----------------------|-----------------------|
| Temp. (°F)               | Wind (mph)          | Barom. (in.Hg)      | Temperature         | General Observations                              |                      |                       |
| Maximum<br>39            | Direction<br>NWE    | 74                  | 74                  | SHSN ~ 0600 - 1200                                |                      |                       |
| Minimum<br>31            | Velocity<br>3 MPH   | 29.28               | 29.28               |   |                      |                       |
| Set<br>31                | Character<br>Slight | Corrected<br>29.14  | Corrected<br>29.14  | 0700  | 1300                 | 1900                  |
| Ovrt. Low<br>31          | 24 hr. Mov.<br>—    | Sea Level<br>30.56  | Sea Level<br>30.56  | Clouds<br>8/10 St                                 | Clouds<br>—          | Clouds<br>4/10 Cu     |
| Rel. Humidity<br>81%     | Precip. Solid<br>T  | 3 hr. Tendancy<br>— | 3 hr. Tendancy<br>— | Wx<br>—   | Wx<br>—              | Wx<br>—               |
| Precip. Liquid<br>T      | Snow Depth<br>T     | Observer<br>LZ      | Observer<br>LZ      | Visibility (mi)<br>25                             | Visibility (mi)<br>— | Visibility (mi)<br>25 |

| MONDAY 9 JANUARY 9 2023 |                       |                          |                          | Meteorological Observatory<br>University Park, PA |                          |                          |
|-------------------------|-----------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|
| Temp. (°F)              | Wind (mph)            | Barom. (in.Hg)           | Temperature              | General Observations                              |                          |                          |
| Maximum<br>40           | Direction<br>W        | 76                       | 76                       | -SU 0100 - 0245                                   |                          |                          |
| Minimum<br>28           | Velocity<br>7 MPH     | 28.70                    | 28.70                    |   |                          |                          |
| Set<br>31               | Character<br>Breezy   | Corrected<br>28.56       | Corrected<br>28.56       | 0700  | 1300                     | 1900                     |
| Ovrt. Low<br>31         | 24 hr. Mov.<br>—      | Sea Level<br>29.96       | Sea Level<br>29.96       | Clouds<br>8/10                                    | Clouds<br>1/10 Sc        | Clouds<br>0/10           |
| Rel. Humidity<br>81%    | Precip. Solid<br>0.2" | 3 hr. Tendancy<br>+0.7mb | 3 hr. Tendancy<br>+0.7mb | Wx<br>—   | Wx<br>—                  | Wx<br>—                  |
| Precip. Liquid<br>0.01" | Snow Depth<br>T       | Observer<br>SL           | Observer<br>SL           | Visibility (mi)<br>25                             | Visibility (mi)<br>25 mi | Visibility (mi)<br>25 mi |

| TUESDAY 10 JANUARY 10 2022 |                       |                        |                        | Meteorological Observatory<br>University Park, PA |                       |                         |
|----------------------------|-----------------------|------------------------|------------------------|---|-----------------------|-------------------------|
| Temp. (°F)                 | Wind (mph)            | Barom. (in.Hg)         | Temperature            | General Observations                              |                       |                         |
| Maximum<br>39              | Direction<br>W        | 75                     | 75                     |   |                       |                         |
| Minimum<br>29              | Velocity<br>1 MPH     | 28.81                  | 28.81                  |   |                       |                         |
| Set<br>32                  | Character<br>light    | Corrected<br>28.68     | Corrected<br>28.68     | 0700  | 1300                  | 1900                    |
| Ovrt. Low<br>32            | 24 hr. Mov.<br>—      | Sea Level<br>30.08     | Sea Level<br>30.08     | Clouds<br>8/10 Cu                                 | Clouds<br>10/10 St    | Clouds<br>5/10 Cu       |
| Rel. Humidity<br>82%       | Precip. Solid<br>0.0" | 3 hr. Tendancy<br>+0.3 | 3 hr. Tendancy<br>+0.3 | Wx<br>—   | Wx<br>—               | Wx<br>—                 |
| Precip. Liquid<br>0.0      | Snow Depth<br>0"      | Observer<br>KP         | Observer<br>KP         | Visibility (mi)<br>20mi                           | Visibility (mi)<br>20 | Visibility (mi)<br>20mi |

|                       |       |                     |           |                  |    |
|-----------------------|-------|---------------------|-----------|------------------|----|
| TAVG:                 | 44    | T <sub>Roof</sub> : | 41/36     | T <sub>w</sub> : | 39 |
| HDD:                  | 21    | T <sub>UNV</sub> :  | 39/35     | T <sub>D</sub> : | 36 |
| ΣHDD:                 | 21    | MMTS:               | 48/38/41  |                  |    |
| CDD:                  | 0     |                     |           |                  |    |
| ΣCDD:                 | 0     |                     |           |                  |    |
| ΣPCN <sub>Liq</sub> : | 0.09" |                     |           |                  |    |
| ΣPCN <sub>sol</sub> : | 0.0"  | Date:               | 11/1/2023 |                  |    |

|                       |       |                     |            |                  |    |
|-----------------------|-------|---------------------|------------|------------------|----|
| TAVG:                 | 48    | T <sub>Roof</sub> : | 45/43      | T <sub>w</sub> : | 45 |
| HDD:                  | 17    | T <sub>UNV</sub> :  | 46/43      | T <sub>D</sub> : | 43 |
| ΣHDD:                 | 55    | MMTS:               | 50/44/44   |                  |    |
| CDD:                  | 0     |                     |            |                  |    |
| ΣCDD:                 | 0     |                     |            |                  |    |
| ΣPCN <sub>Liq</sub> : | 0.26" |                     |            |                  |    |
| ΣPCN <sub>sol</sub> : | 0.0"  | Date:               | 01/03/2023 |                  |    |

|                       |       |                     |            |                  |    |
|-----------------------|-------|---------------------|------------|------------------|----|
| TAVG:                 | 50    | T <sub>Roof</sub> : | 42/39      | T <sub>w</sub> : | 41 |
| HDD:                  | 15    | T <sub>UNV</sub> :  | 56/51      | T <sub>D</sub> : | 39 |
| ΣHDD:                 | 83    | MMTS:               | 59/41/42   |                  |    |
| CDD:                  | 0     |                     |            |                  |    |
| ΣCDD:                 | 0     |                     |            |                  |    |
| ΣPCN <sub>Liq</sub> : | 1.04" |                     |            |                  |    |
| ΣPCN <sub>sol</sub> : | 0.0"  | Date:               | 01/05/2023 |                  |    |

|                       |       |                     |            |                  |    |
|-----------------------|-------|---------------------|------------|------------------|----|
| TAVG:                 | 36    | T <sub>Roof</sub> : | 34/30      | T <sub>w</sub> : | 30 |
| HDD:                  | 29    | T <sub>UNV</sub> :  | 34/30      | T <sub>D</sub> : | 30 |
| ΣHDD:                 | 133   | MMTS:               | 30/34/34   |                  |    |
| CDD:                  | 0     |                     |            |                  |    |
| ΣCDD:                 | 0     |                     |            |                  |    |
| ΣPCN <sub>Liq</sub> : | 1.14" |                     |            |                  |    |
| ΣPCN <sub>sol</sub> : | D.O"  | Date:               | 01/07/2023 |                  |    |

|                       |       |                     |          |                  |    |
|-----------------------|-------|---------------------|----------|------------------|----|
| TAVG:                 | 34    | T <sub>Roof</sub> : | 30/26    | T <sub>w</sub> : | -  |
| HDD:                  | 31    | T <sub>UNV</sub> :  | 30/25    | T <sub>D</sub> : | 26 |
| ΣHDD:                 | 194   | MMTS:               | 38/28/30 |                  |    |
| CDD:                  | 0     |                     |          |                  |    |
| ΣCDD:                 | 0     |                     |          |                  |    |
| ΣPCN <sub>Liq</sub> : | 1.15" |                     |          |                  |    |
| ΣPCN <sub>sol</sub> : | 0.2"  | Date:               | 1/9/2023 |                  |    |

|                       |       |                     |          |                  |      |
|-----------------------|-------|---------------------|----------|------------------|------|
| TAVG:                 | 48    | T <sub>Roof</sub> : | 46/44    | T <sub>w</sub> : | 45.5 |
| HDD:                  | 17    | T <sub>UNV</sub> :  | 45/45    | T <sub>D</sub> : | 45   |
| ΣHDD:                 | 38    | MMTS:               | 52/41/45 |                  |      |
| CDD:                  | 0     |                     |          |                  |      |
| ΣCDD:                 | 0     |                     |          |                  |      |
| ΣPCN <sub>Liq</sub> : | 0.11" |                     |          |                  |      |
| ΣPCN <sub>sol</sub> : | 0.0"  | Date:               | 1/2/23   |                  |      |

|                       |       |                     |            |                  |    |
|-----------------------|-------|---------------------|------------|------------------|----|
| TAVG:                 | 52    | T <sub>Roof</sub> : | 56/53      | T <sub>w</sub> : | 53 |
| HDD:                  | 13    | T <sub>UNV</sub> :  | 55/51      | T <sub>D</sub> : | 54 |
| ΣHDD:                 | 68    | MMTS:               | 58/44/51   |                  |    |
| CDD:                  | 0     |                     |            |                  |    |
| ΣCDD:                 | 0     |                     |            |                  |    |
| ΣPCN <sub>Liq</sub> : | 0.96" |                     |            |                  |    |
| ΣPCN <sub>sol</sub> : | 0.0"  | Date:               | 01/04/2023 |                  |    |

|                       |       |                     |            |                  |    |
|-----------------------|-------|---------------------|------------|------------------|----|
| TAVG:                 | 44    | T <sub>Roof</sub> : | 36/34      | T <sub>w</sub> : | 36 |
| HDD:                  | 21    | T <sub>UNV</sub> :  | 44/32      | T <sub>D</sub> : | 36 |
| ΣHDD:                 | 104   | MMTS:               | 51/34/36   |                  |    |
| CDD:                  | 0     |                     |            |                  |    |
| ΣCDD:                 | 0     |                     |            |                  |    |
| ΣPCN <sub>Liq</sub> : | 1.14" |                     |            |                  |    |
| ΣPCN <sub>sol</sub> : | 0.0"  | Date:               | 01/06/2023 |                  |    |

|                       |       |                     |          |                  |    |
|-----------------------|-------|---------------------|----------|------------------|----|
| TAVG:                 | 35    | T <sub>Roof</sub> : | 31/26    | T <sub>w</sub> : | 26 |
| HDD:                  | 30    | T <sub>UNV</sub> :  | 32/25    | T <sub>D</sub> : | 26 |
| ΣHDD:                 | 163   | MMTS:               | 37/31/31 |                  |    |
| CDD:                  | 0     |                     |          |                  |    |
| ΣCDD:                 | 0     |                     |          |                  |    |
| ΣPCN <sub>Liq</sub> : | 1.14" |                     |          |                  |    |
| ΣPCN <sub>sol</sub> : | T     | Date:               | 1/8/23   |                  |    |

|                       |       |                     |            |                  |    |
|-----------------------|-------|---------------------|------------|------------------|----|
| TAVG:                 | 34    | T <sub>Roof</sub> : | 32/27      | T <sub>w</sub> : | -  |
| HDD:                  | 31    | T <sub>UNV</sub> :  | 32/25      | T <sub>D</sub> : | 27 |
| ΣHDD:                 | 225   | MMTS:               | 38/29/32   |                  |    |
| CDD:                  | 0     |                     |            |                  |    |
| ΣCDD:                 | 0     |                     |            |                  |    |
| ΣPCN <sub>Liq</sub> : | 1.15" |                     |            |                  |    |
| ΣPCN <sub>sol</sub> : | 0.2"  | Date:               | 01/10/2023 |                  |    |

**Wednesday, January 11, 2023** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                   |               |               |                |                |                |
|----------------|---------------|-----------------|----------------|-------------------|---------------|---------------|----------------|----------------|----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction         | Velocity      | Reading       | 0700           | 1300           | 1900           |
| Maximum 38     | WSW           | 741             | 74             | WSW               | 4 mph         | 28.87         | Clouds 3/10 St | Clouds 4/10 St | Clouds 4/10 St |
| Minimum 28     | Velocity      | Corrected       | Corrected      | Character         | Corrected     | Corrected     | Wx             | Wx             | Wx             |
| Set 28         | 0.0 mph       | Observer        | Observer       | Precip. Solid     | Precip. Solid | Precip. Solid | Wx             | Wx             | Wx             |
| Ovnt. Low 28   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity 89% | Precip. Solid | Precip. Solid | Wx             | Wx             | Wx             |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx             | Wx             | Wx             |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx             | Wx             | Wx             |
| 0.0"           | 0.0"          | LZ              | LZ             | 0.0"              | 0.0"          | 0.0"          | 25 mi          | 25 mi          | 25 mi          |

**Friday, January 13, 2023** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                   |               |               |                 |                 |                 |
|----------------|---------------|-----------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|-----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction         | Velocity      | Reading       | 0700            | 1300            | 1900            |
| Maximum 44     | W             | 74              | 74             | W                 | 10 mph        | 28.53         | Clouds 10/10 St | Clouds 10/10 St | Clouds 10/10 St |
| Minimum 36     | Velocity      | Corrected       | Corrected      | Character         | Corrected     | Corrected     | Wx              | Wx              | Wx              |
| Set 37         | Breezy        | Observer        | Observer       | Precip. Solid     | Precip. Solid | Precip. Solid | Wx              | Wx              | Wx              |
| Ovnt. Low 37   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity 89% | Precip. Solid | Precip. Solid | Wx              | Wx              | Wx              |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx              | Wx              |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx              | Wx              |
| 0.53"          | 0"            | AS              | AS             | 0.53"             | 0"            | 0"            | 25 mi           | 25 mi           | 25 mi           |

**Sun 14, Jan 15, 2022** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                   |               |               |                |                |                |
|----------------|---------------|-----------------|----------------|-------------------|---------------|---------------|----------------|----------------|----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction         | Velocity      | Reading       | 0700           | 1300           | 1900           |
| Maximum 28     | MMW           | 75              | 75             | MMW               | 2 mph         | 29.00         | Clouds 4/10 St | Clouds 9/10 Cl | Clouds 9/10 Cl |
| Minimum 24     | Velocity      | Corrected       | Corrected      | Character         | Corrected     | Corrected     | Wx             | Wx             | Wx             |
| Set 24         | Light         | Observer        | Observer       | Precip. Solid     | Precip. Solid | Precip. Solid | Wx             | Wx             | Wx             |
| Ovnt. Low 24   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity 80% | Precip. Solid | Precip. Solid | Wx             | Wx             | Wx             |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx             | Wx             | Wx             |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx             | Wx             | Wx             |
| 0.0"           | 0"            | M102            | M102           | 0.0"              | 0"            | 0"            | 25 mi          | 25 mi          | 25 mi          |

**Tuesday, January 17, 2023** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                |               |               |                 |                |                |
|----------------|---------------|-----------------|----------------|----------------|---------------|---------------|-----------------|----------------|----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction      | Velocity      | Reading       | 0700            | 1300           | 1900           |
| Maximum 50     | SE            | 76              | 76             | SE             | 1 mph         | 28.54         | Clouds 10/10 NS | Clouds 7/10 CU | Clouds 7/10 CU |
| Minimum 23     | Velocity      | Corrected       | Corrected      | Character      | Corrected     | Corrected     | Wx              | Wx             | Wx             |
| Set 32         | Light         | Observer        | Observer       | Precip. Solid  | Precip. Solid | Precip. Solid | Wx              | Wx             | Wx             |
| Ovnt. Low 32   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity  | Precip. Solid | Precip. Solid | Wx              | Wx             | Wx             |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid | Snow Depth    | Snow Depth    | Wx              | Wx             | Wx             |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid | Snow Depth    | Snow Depth    | Wx              | Wx             | Wx             |
| 0.04"          | 0"            | LZ              | LZ             | 0.04"          | 0"            | 0"            | 25 mi           | 25 mi          | 25 mi          |

**Thursday, January 19, 2023** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                   |               |               |                 |                 |                 |
|----------------|---------------|-----------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|-----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction         | Velocity      | Reading       | 0700            | 1300            | 1900            |
| Maximum 43     | —             | 74              | 74             | —                 | 0 mph         | 28.97         | Clouds 10/10 NS | Clouds 10/10 NS | Clouds 10/10 NS |
| Minimum 36     | Velocity      | Corrected       | Corrected      | Character         | Corrected     | Corrected     | Wx              | Wx              | Wx              |
| Set 36         | Cal           | Observer        | Observer       | Precip. Solid     | Precip. Solid | Precip. Solid | Wx              | Wx              | Wx              |
| Ovnt. Low 36   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity 96% | Precip. Solid | Precip. Solid | Wx              | Wx              | Wx              |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx              | Wx              |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx              | Wx              |
| 0.36"          | 0"            | D.O.            | D.O.           | 0.36"             | 0"            | 0"            | 25 mi           | 25 mi           | 25 mi           |

**Thursday, January 12, 2022** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                   |               |               |                 |                 |                 |
|----------------|---------------|-----------------|----------------|-------------------|---------------|---------------|-----------------|-----------------|-----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction         | Velocity      | Reading       | 0700            | 1300            | 1900            |
| Maximum 42     | WSW           | 76              | 76             | WSW               | 4 mph         | 29.18         | Clouds 10/10 St | Clouds 10/10 St | Clouds 10/10 St |
| Minimum 28     | Velocity      | Corrected       | Corrected      | Character         | Corrected     | Corrected     | Wx              | Wx              | Wx              |
| Set 37         | WMM           | Observer        | Observer       | Precip. Solid     | Precip. Solid | Precip. Solid | Wx              | Wx              | Wx              |
| Ovnt. Low 36   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity 91% | Precip. Solid | Precip. Solid | Wx              | Wx              | Wx              |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx              | Wx              |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx              | Wx              |
| 0.0"           | 0.0"          | LZ              | LZ             | 0.0"              | 0.0"          | 0.0"          | 20-25 mi        | 20-25 mi        | 20-25 mi        |

**Wednesday, January 14, 2023** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                   |               |               |                 |                |                |
|----------------|---------------|-----------------|----------------|-------------------|---------------|---------------|-----------------|----------------|----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction         | Velocity      | Reading       | 0700            | 1300           | 1900           |
| Maximum 38     | NW            | 74              | 74             | NW                | 12 mph        | 28.78         | Clouds 10/10 St | Clouds 8/10 St | Clouds 8/10 St |
| Minimum 26     | Velocity      | Corrected       | Corrected      | Character         | Corrected     | Corrected     | Wx              | Wx             | Wx             |
| Set 26         | Breezy        | Observer        | Observer       | Precip. Solid     | Precip. Solid | Precip. Solid | Wx              | Wx             | Wx             |
| Ovnt. Low 26   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity 77% | Precip. Solid | Precip. Solid | Wx              | Wx             | Wx             |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx             | Wx             |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx             | Wx             |
| 0.0"           | 0"            | KE              | KE             | 0.0"              | 0"            | 0"            | 20              | 20             | 25             |

**Monday, January 16, 2023** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                   |               |               |                |                |                |
|----------------|---------------|-----------------|----------------|-------------------|---------------|---------------|----------------|----------------|----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction         | Velocity      | Reading       | 0700           | 1300           | 1900           |
| Maximum 40     | NW            | 75              | 75             | NW                | 2 mph         | 28.81         | Clouds 7/10 St | Clouds 7/10 St | Clouds 3/10 Cl |
| Minimum 21     | Velocity      | Corrected       | Corrected      | Character         | Corrected     | Corrected     | Wx             | Wx             | Wx             |
| Set 23         | Light         | Observer        | Observer       | Precip. Solid     | Precip. Solid | Precip. Solid | Wx             | Wx             | Wx             |
| Ovnt. Low 21   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity 80% | Precip. Solid | Precip. Solid | Wx             | Wx             | Wx             |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx             | Wx             | Wx             |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx             | Wx             | Wx             |
| 0.0"           | 0"            | SL              | SL             | 0.0"              | 0"            | 0"            | 25 mi          | 25 mi          | 25 mi          |

**Sunday, January 20, 2023** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                   |               |               |                |                |                |
|----------------|---------------|-----------------|----------------|-------------------|---------------|---------------|----------------|----------------|----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction         | Velocity      | Reading       | 0700           | 1300           | 1900           |
| Maximum 50     | SW            | 74              | 74             | SW                | 9 mph         | 28.61         | Clouds 9/10 CU | Clouds 9/10 CU | Clouds 9/10 NS |
| Minimum 32     | Velocity      | Corrected       | Corrected      | Character         | Corrected     | Corrected     | Wx             | Wx             | Wx             |
| Set 41         | BMSK          | Observer        | Observer       | Precip. Solid     | Precip. Solid | Precip. Solid | Wx             | Wx             | Wx             |
| Ovnt. Low 40   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity 82% | Precip. Solid | Precip. Solid | Wx             | Wx             | Wx             |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx             | Wx             | Wx             |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx             | Wx             | Wx             |
| 0.04"          | 0.0"          | LZ              | LZ             | 0.04"             | 0.0"          | 0.0"          | 25 mi          | 25 mi          | 25 mi          |

**Friday, January 20, 2023** Meteorological Observatory University Park, PA  
 0700 EST  
 General Observations

|                |               |                 |                |                   |               |               |                 |                |                 |
|----------------|---------------|-----------------|----------------|-------------------|---------------|---------------|-----------------|----------------|-----------------|
| Temp. (°F)     | Wind (mph)    | Barom. (in. Hg) | Temperature    | Direction         | Velocity      | Reading       | 0700            | 1300           | 1900            |
| Maximum 44     | SW            | 74              | 74             | SW                | 9 mph         | 28.61         | Clouds 10/10 NS | Clouds 9/10 NS | Clouds 10/10 St |
| Minimum 30     | Velocity      | Corrected       | Corrected      | Character         | Corrected     | Corrected     | Wx              | Wx             | Wx              |
| Set 37         | Breezy        | Observer        | Observer       | Precip. Solid     | Precip. Solid | Precip. Solid | Wx              | Wx             | Wx              |
| Ovnt. Low 37   | 24 hr. Mov.   | Sea Level       | Sea Level      | Rel. Humidity 82% | Precip. Solid | Precip. Solid | Wx              | Wx             | Wx              |
| Rel. Humidity  | Precip. Solid | 3 hr. Tendency  | 3 hr. Tendency | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx             | Wx              |
| Precip. Liquid | Snow Depth    | Observer        | Observer       | Precip. Liquid    | Snow Depth    | Snow Depth    | Wx              | Wx             | Wx              |
| 0.72"          | 0"            | AS              | AS             | 0.72"             | 0"            | 0"            | 25 mi           | 25 mi          | 25 mi           |

|                        |      |                     |            |                  |    |
|------------------------|------|---------------------|------------|------------------|----|
| TAVG:                  | 33   | T <sub>Roof</sub> : | 29/26      | T <sub>w</sub> : | 26 |
| HDD:                   | 32   | T <sub>UNV</sub> :  | 27/22      | T <sub>D</sub> : | 26 |
| ΣHDD:                  | 257  | MMTS:               | 37/2/28    |                  |    |
| CDD:                   | 0    |                     |            |                  |    |
| ΣCDD:                  | 0    |                     |            |                  |    |
| ΣPCN <sub>Liq</sub> :  | 1.5" |                     |            |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2" | Date:               | 01/11/2023 |                  |    |

|                        |       |                     |            |                  |    |
|------------------------|-------|---------------------|------------|------------------|----|
| TAVG:                  | 40    | T <sub>Roof</sub> : | 36/32      | T <sub>w</sub> : | 36 |
| HDD:                   | 25    | T <sub>UNV</sub> :  | 41/39      | T <sub>D</sub> : | 34 |
| ΣHDD:                  | 312   | MMTS:               | 44/36/36   |                  |    |
| CDD:                   | 0     |                     |            |                  |    |
| ΣCDD:                  | 0     |                     |            |                  |    |
| ΣPCN <sub>Liq</sub> :  | 1.75" |                     |            |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2"  | Date:               | 01/13/2023 |                  |    |

|                        |       |                     |          |                  |    |
|------------------------|-------|---------------------|----------|------------------|----|
| TAVG:                  | 26    | T <sub>Roof</sub> : | 25/19    | T <sub>w</sub> : | —  |
| HDD:                   | 39    | T <sub>UNV</sub> :  | 25/17    | T <sub>D</sub> : | 19 |
| ΣHDD:                  | 384   | MMTS:               | 28/29/24 |                  |    |
| CDD:                   | 0     |                     |          |                  |    |
| ΣCDD:                  | 0     |                     |          |                  |    |
| ΣPCN <sub>Liq</sub> :  | 1.75" |                     |          |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2"  | Date:               | 11/5/23  |                  |    |

|                        |       |                     |          |                  |    |
|------------------------|-------|---------------------|----------|------------------|----|
| TAVG:                  | 37    | T <sub>Roof</sub> : | 32/29    | T <sub>w</sub> : | —  |
| HDD:                   | 28    | T <sub>UNV</sub> :  | 32/30    | T <sub>D</sub> : | 29 |
| ΣHDD:                  | 446   | MMTS:               | 48/22/32 |                  |    |
| CDD:                   | 0     |                     |          |                  |    |
| ΣCDD:                  | 0     |                     |          |                  |    |
| ΣPCN <sub>Liq</sub> :  | 1.79" |                     |          |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2"  | Date:               | 01/17/23 |                  |    |

|                        |      |                     |          |                  |    |
|------------------------|------|---------------------|----------|------------------|----|
| TAVG:                  | 40   | T <sub>Roof</sub> : | 38/35    | T <sub>w</sub> : | —  |
| HDD:                   | 25   | T <sub>UNV</sub> :  | 36/36    | T <sub>D</sub> : | 35 |
| ΣHDD:                  | 495  | MMTS:               | 41/36/37 |                  |    |
| CDD:                   | 0    |                     |          |                  |    |
| ΣCDD:                  | 0    |                     |          |                  |    |
| ΣPCN <sub>Liq</sub> :  | 2.19 |                     |          |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2" | Date:               | 01/19/23 |                  |    |

|                        |       |                     |          |                  |    |
|------------------------|-------|---------------------|----------|------------------|----|
| TAVG:                  | 35    | T <sub>Roof</sub> : | 37/34    | T <sub>w</sub> : | 34 |
| HDD:                   | 30    | T <sub>UNV</sub> :  | 36/36    | T <sub>D</sub> : | 34 |
| ΣHDD:                  | 287   | MMTS:               | 41/27/37 |                  |    |
| CDD:                   | 0     |                     |          |                  |    |
| ΣCDD:                  | 0     |                     |          |                  |    |
| ΣPCN <sub>Liq</sub> :  | 1.22" |                     |          |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2"  | Date:               | 01/21/23 |                  |    |

|                        |       |                     |          |                  |    |
|------------------------|-------|---------------------|----------|------------------|----|
| TAVG:                  | 32    | T <sub>Roof</sub> : | 26/21    | T <sub>w</sub> : | 24 |
| HDD:                   | 33    | T <sub>UNV</sub> :  | 27/19    | T <sub>D</sub> : | 20 |
| ΣHDD:                  | 345   | MMTS:               | 36/26/26 |                  |    |
| CDD:                   | 0     |                     |          |                  |    |
| ΣCDD:                  | 0     |                     |          |                  |    |
| ΣPCN <sub>Liq</sub> :  | 1.75" |                     |          |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2"  | Date:               | 01/14/23 |                  |    |

|                        |       |                     |          |                  |    |
|------------------------|-------|---------------------|----------|------------------|----|
| TAVG:                  | 31    | T <sub>Roof</sub> : | 24/18    | T <sub>w</sub> : | —  |
| HDD:                   | 34    | T <sub>UNV</sub> :  | 23/16    | T <sub>D</sub> : | 18 |
| ΣHDD:                  | 418   | MMTS:               | 38/21/22 |                  |    |
| CDD:                   | 0     |                     |          |                  |    |
| ΣCDD:                  | 0     |                     |          |                  |    |
| ΣPCN <sub>Liq</sub> :  | 1.75" |                     |          |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2"  | Date:               | 11/6/23  |                  |    |

|                        |       |                     |          |                  |    |
|------------------------|-------|---------------------|----------|------------------|----|
| TAVG:                  | 41    | T <sub>Roof</sub> : | 41/36    | T <sub>w</sub> : | —  |
| HDD:                   | 24    | T <sub>UNV</sub> :  | 41/36    | T <sub>D</sub> : | 36 |
| ΣHDD:                  | 479   | MMTS:               | 49/32/41 |                  |    |
| CDD:                   | 0     |                     |          |                  |    |
| ΣCDD:                  | 0     |                     |          |                  |    |
| ΣPCN <sub>Liq</sub> :  | 1.83" |                     |          |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2"  | Date:               | 01/18/23 |                  |    |

|                        |       |                     |            |                  |    |
|------------------------|-------|---------------------|------------|------------------|----|
| TAVG:                  | 40    | T <sub>Roof</sub> : | 36/33      | T <sub>w</sub> : | —  |
| HDD:                   | 25    | T <sub>UNV</sub> :  | 42/36      | T <sub>D</sub> : | 32 |
| ΣHDD:                  | 520   | MMTS:               | 44/36/36   |                  |    |
| CDD:                   | 0     |                     |            |                  |    |
| ΣCDD:                  | 0     |                     |            |                  |    |
| ΣPCN <sub>Liq</sub> :  | 2.91" |                     |            |                  |    |
| ΣPCN <sub>soli</sub> : | 0.2"  | Date:               | 01/20/2023 |                  |    |

| Meteorological Observatory<br>University Park, PA |                     |                         |   |                       |                       |                      |                    |                         |                       |                       |                          |
|---|---------------------|-------------------------|---|-----------------------|-----------------------|----------------------|--------------------|-------------------------|-----------------------|-----------------------|--------------------------|
| Temp. (°F)  | Wind (mph)          | Barom. (in.Hg)          | General Observations  |                       |                       | Temp. (°F)           | Wind (mph)         | Barom. (in.Hg)          | General Observations  |                       |                          |
| Maximum<br>38                                     | Direction<br>NW     | Temperature<br>74°      | -SHSN ~ 0940-1000<br>-SHSN ~ 1145-1215<br>-SHSN ~ 1315-1445 |                       |                       | Maximum<br>35        | Direction<br>SE    | Temperature<br>74       | OCUL-STSN: 1000-1500  |                       |                          |
| Minimum<br>33                                     | Velocity<br>8 mph   | Reading<br>29.04"       | -SN ~ 1945-2215<br>-SN ~ 0055-0115<br>-Br ~ 0115-0135       |                       |                       | Minimum<br>30        | Velocity<br>6      | Reading<br>28.85        |                       |                       |                          |
| Set<br>33   | Character<br>Breezy | Corrected<br>28.91"     | 0700  | 1300                  | 1900                  | Set<br>31            | Character<br>light | Corrected<br>28.72      | 0700                  | 1300                  | 1900                     |
| Ovnt. Low<br>-                                    | 24 hr. Mov.<br>-    | Sea Level<br>30.32"     | Clouds<br>st  | Clouds                | Clouds<br>10/10 st    | Ovnt. Low<br>-       | 24 hr. Mov.<br>-   | Sea Level<br>30.14      | Clouds<br>cu          | Clouds                | Clouds<br>10/10 st       |
| Rel. Humidity<br>82%                              | Precip. Solid<br>T  | 3 hr. Tendancy<br>+2.37 | Wx<br>-   | Wx                    | Wx<br>-               | Rel. Humidity<br>72% | Precip. Solid<br>T | 3 hr. Tendancy<br>-2.37 | Wx<br>-               | Wx                    | Wx<br>RASN               |
| Precip. Liquid<br>0.01"                           | Snow Depth<br>0"    | Observer<br>KE          | Visibility (mi)<br>25                                       | Visibility (mi)<br>25 | Visibility (mi)<br>25 | Precip. Liquid<br>T  | Snow Depth<br>0"   | Observer<br>MRZ         | Visibility (mi)<br>25 | Visibility (mi)<br>25 | Visibility (mi)<br>15 mi |

| Meteorological Observatory<br>University Park, PA |                       |                         |  |                             |                          |                         |                       |                         |  |                          |                          |
|---|-----------------------|-------------------------|--|-----------------------------|--------------------------|-------------------------|-----------------------|-------------------------|--|--------------------------|--------------------------|
| Temp. (°F)  | Wind (mph)            | Barom. (in.Hg)          | General Observations   |                             |                          | Temp. (°F)              | Wind (mph)            | Barom. (in.Hg)          | General Observations   |                          |                          |
| Maximum<br>37                                     | Direction<br>NW       | Temperature<br>75       | -SN: 20:00-16:00<br>-RU: 20:00-18:00<br>-SN: ~ 19:00-22:00<br>BR: ~ 22:15-02:00<br>-SN: ~ 02:15-03:00, 4:00-7:00<br>-SN: ~ 03:00-03:35 |                             |                          | Maximum<br>36           | Direction<br>SW       | Temperature<br>74       | -SN: 0855-1000<br>SN 1000-1130 OCCL +SN<br>-SN 1130-1235 OCCL SN<br>-SN PL 1235-1250<br>-SN 1250-1310 (over) |                          |                          |
| Minimum<br>31                                     | Velocity<br>0         | Reading<br>28.36        | 0700   | 1300                        | 1900                     | Minimum<br>30           | Velocity<br>12 mph    | Reading<br>28.88        | 0700   | 1300                     | 1900                     |
| Set<br>33   | Character<br>calm     | Corrected<br>28.23      | Clouds   | Clouds                      | Clouds                   | Set<br>31               | Character<br>breezy   | Corrected<br>28.75      | Clouds<br>9/10 SC  | Clouds<br>10/10 SC       | Clouds<br>9/10           |
| Ovnt. Low<br>33                                   | 24 hr. Mov.<br>-      | Sea Level<br>29.61      | Clouds<br>10/10 st   | Clouds<br>10/10 st          | Clouds<br>10/10 st       | Ovnt. Low<br>-          | 24 hr. Mov.<br>-      | Sea Level<br>30.17      | Clouds<br>9/10 SC  | Clouds<br>10/10 SC       | Clouds<br>9/10           |
| Rel. Humidity<br>92%                              | Precip. Solid<br>2.3" | 3 hr. Tendancy<br>+1.02 | Wx<br>-SN  | Wx<br>-                     | Wx<br>-                  | Rel. Humidity<br>-      | Precip. Solid<br>0.2" | 3 hr. Tendancy<br>+0.67 | Wx<br>-  | Wx<br>-                  | Wx<br>-                  |
| Precip. Liquid<br>0.37"                           | Snow Depth<br>2       | Observer<br>SL          | Visibility (mi)<br>3 mi  | Visibility (mi)<br>15-20 mi | Visibility (mi)<br>25 mi | Precip. Liquid<br>0.02" | Snow Depth<br>T       | Observer<br>KPD         | Visibility (mi)<br>25 mi   | Visibility (mi)<br>20 mi | Visibility (mi)<br>25 mi |

| Meteorological Observatory<br>University Park, PA |                     |                            |                                     |                         |                          |                        |                       |                         |   |                          |                             |
|---|---------------------|----------------------------|-------------------------------------|-------------------------|--------------------------|------------------------|-----------------------|-------------------------|---|--------------------------|-----------------------------|
| Temp. (°F)  | Wind (mph)          | Barom. (in.Hg)             | General Observations                |                         |                          | Temp. (°F)             | Wind (mph)            | Barom. (in.Hg)          | General Observations  |                          |                             |
| Maximum<br>34                                     | Direction<br>ENE    | Temperature<br>74          | -SN OCCL 1130-1215<br>-DZ 1245-1240 |                         |                          | Maximum<br>38          | Direction<br>WSW      | Temperature<br>75       | -SN 0855-1000<br>SN 1000-1130 OCCL +SN<br>-SN 1130-1235 OCCL SN<br>-SN PL 1235-1250<br>-SN 1250-1310 (over) |                          |                             |
| Minimum<br>26                                     | Velocity<br>4 mpm   | Reading<br>29.01           | 0700                                | 1300                    | 1900                     | Minimum<br>29          | Velocity<br>10 mpm    | Reading<br>28.54        | 0700  | 1300                     | 1900                        |
| Set<br>30   | Character<br>breezy | Corrected<br>28.88         | Clouds<br>cu                        | Clouds<br>10/10 st      | Clouds<br>10/10 st       | Set<br>35              | Character<br>gusty    | Corrected<br>28.41      | Clouds<br>9/10 st   | Clouds<br>10/10 st       | Clouds<br>10/10 st          |
| Ovnt. Low<br>-                                    | 24 hr. Mov.<br>-    | Sea Level<br>30.29         | Clouds<br>10/10 st                  | Clouds<br>10/10 st      | Clouds<br>10/10 st       | Ovnt. Low<br>34        | 24 hr. Mov.<br>-      | Sea Level<br>29.81      | Clouds<br>10/10 st  | Clouds<br>10/10 st       | Clouds<br>10/10 st          |
| Rel. Humidity<br>80%                              | Precip. Solid<br>T  | 3 hr. Tendancy<br>-0.11 mb | Wx<br>-                             | Wx<br>-SN               | Wx<br>-                  | Rel. Humidity<br>73%   | Precip. Solid<br>2.9" | 3 hr. Tendancy<br>+1.02 | Wx<br>-SN   | Wx<br>-SN                | Wx<br>-                     |
| Precip. Liquid<br>T                               | Snow Depth<br>T     | Observer<br>LZ             | Visibility (mi)<br>25               | Visibility (mi)<br>5-15 | Visibility (mi)<br>15 mi | Precip. Liquid<br>0.26 | Snow Depth<br>2"      | Observer<br>D.O.        | Visibility (mi)<br>20 mi  | Visibility (mi)<br>10 mi | Visibility (mi)<br>20-25 mi |

| Meteorological Observatory<br>University Park, PA |                       |                         |  |                       |                       |                        |                    |                         |                       |                       |                       |
|---|-----------------------|-------------------------|--|-----------------------|-----------------------|------------------------|--------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| Temp. (°F)  | Wind (mph)            | Barom. (in.Hg)          | General Observations   |                       |                       | Temp. (°F)             | Wind (mph)         | Barom. (in.Hg)          | General Observations  |                       |                       |
| Maximum<br>40                                     | Direction<br>W        | Temperature<br>74       | -SN ~ 1053-1353<br>-SN ~ 1753<br>-SN ~ 2053-2215<br>-SN ~ 2315-2355<br>-SN ~ 0055-0135 |                       |                       | Maximum<br>42          | Direction<br>WN    | Temperature<br>74       | -SHSN 0855-1120       |                       |                       |
| Minimum<br>29                                     | Velocity<br>7 mph     | Reading<br>28.93        | 0700   | 1300                  | 1900                  | Minimum<br>29          | Velocity<br>15 mph | Reading<br>29.03"       | 0700                  | 1300                  | 1900                  |
| Set<br>31   | Character<br>breezy   | Corrected<br>28.80      | Clouds<br>NS   | Clouds<br>7/10 st     | Clouds<br>cu 9/10     | Set<br>41              | Character<br>windy | Corrected<br>28.90"     | Clouds<br>4/10 cu     | Clouds                | Clouds<br>8/10 st cu  |
| Ovnt. Low<br>-                                    | 24 hr. Mov.<br>-      | Sea Level<br>30.23      | Clouds<br>9/10 st  | Clouds<br>7/10 st     | Clouds<br>cu 9/10     | Ovnt. Low<br>30        | 24 hr. Mov.<br>-   | Sea Level<br>30.29"     | Clouds<br>4/10 cu     | Clouds                | Clouds<br>8/10 st cu  |
| Rel. Humidity<br>72%                              | Precip. Solid<br>0.3" | 3 hr. Tendancy<br>+1.69 | Wx<br>-SN  | Wx<br>-               | Wx<br>-               | Rel. Humidity<br>70%   | Precip. Solid<br>T | 3 hr. Tendancy<br>+2.37 | Wx<br>-               | Wx                    | Wx<br>-               |
| Precip. Liquid<br>0.07"                           | Snow Depth<br>2"      | Observer<br>AS          | Visibility (mi)<br>10-15 mi  | Visibility (mi)<br>25 | Visibility (mi)<br>25 | Precip. Liquid<br>0.01 | Snow Depth<br>2"   | Observer<br>KE          | Visibility (mi)<br>25 | Visibility (mi)<br>25 | Visibility (mi)<br>25 |

| Meteorological Observatory<br>University Park, PA |                       |                         |  |                       |                       |                         |                       |                         |  |                       |                       |
|---|-----------------------|-------------------------|--|-----------------------|-----------------------|-------------------------|-----------------------|-------------------------|--|-----------------------|-----------------------|
| Temp. (°F)  | Wind (mph)            | Barom. (in.Hg)          | General Observations   |                       |                       | Temp. (°F)              | Wind (mph)            | Barom. (in.Hg)          | General Observations   |                       |                       |
| Maximum<br>50                                     | Direction<br>SW       | Temperature<br>74       | -DE: 11:30-12:00<br>20:30-21:00<br>RN: 23:30-00:15, 01:30-02:00<br>DE: 00:30-01:00<br>-RU: 02:30-02:45 |                       |                       | Maximum<br>44           | Direction<br>SW       | Temperature<br>74       | -DE: 11:30-12:00<br>20:30-21:00<br>RN: 23:30-00:15, 01:30-02:00<br>DE: 00:30-01:00<br>-RU: 02:30-02:45 |                       |                       |
| Minimum<br>31                                     | Velocity<br>3         | Reading<br>28.97        | 0700   | 1300                  | 1900                  | Minimum<br>33           | Velocity<br>0         | Reading<br>28.81        | 0700   | 1300                  | 1900                  |
| Set<br>34   | Character<br>light    | Corrected<br>28.84      | Clouds   | Clouds                | Clouds                | Set<br>39               | Character<br>calm     | Corrected<br>28.68      | Clouds<br>9/10 st  | Clouds<br>9/10 st     | Clouds<br>10/10 st    |
| Ovnt. Low<br>-                                    | 24 hr. Mov.<br>-      | Sea Level<br>30.25      | Clouds<br>9/10 st  | Clouds<br>10/10 st    | Clouds<br>10/10 st    | Ovnt. Low<br>39         | 24 hr. Mov.<br>-      | Sea Level<br>30.06      | Clouds<br>10/10 st   | Clouds<br>9/10 st     | Clouds<br>10/10 st    |
| Rel. Humidity<br>75%                              | Precip. Solid<br>0.0" | 3 hr. Tendancy<br>-1.13 | Wx<br>-  | Wx<br>-               | Wx<br>-               | Rel. Humidity<br>93%    | Precip. Solid<br>2.0" | 3 hr. Tendancy<br>-1.02 | Wx<br>-  | Wx<br>-               | Wx<br>-               |
| Precip. Liquid<br>0.00"                           | Snow Depth<br>0"      | Observer<br>MRZ         | Visibility (mi)<br>25  | Visibility (mi)<br>25 | Visibility (mi)<br>25 | Precip. Liquid<br>0.03" | Snow Depth<br>2"      | Observer<br>SL          | Visibility (mi)<br>25  | Visibility (mi)<br>25 | Visibility (mi)<br>20 |

|                       |       |         |            |     |    |
|-----------------------|-------|---------|------------|-----|----|
| TAVG:                 | 36    | T_Roof: | 33/26      | Tw: | 34 |
| HDD:                  | 29    | T_UNV:  | 32/23      | Td: | 31 |
| ΣHDD:                 | 549   | MMTS:   | 37/32/32   |     |    |
| CDD:                  | 0     |         |            |     |    |
| ΣCDD:                 | 0     |         |            |     |    |
| SPCN <sub>Liq</sub> : | 2.92" |         |            |     |    |
| ΣPCN <sub>sol</sub> : | 0.21" | Date:   | 01/21/2023 |     |    |

|                       |       |         |          |     |    |
|-----------------------|-------|---------|----------|-----|----|
| TAVG:                 | 34    | T_Roof: | 33/31    | Tw: | -  |
| HDD:                  | 34    | T_UNV:  | 32/32    | Td: | 31 |
| ΣHDD:                 | 612   | MMTS:   | 36/30/33 |     |    |
| CDD:                  | 0     |         |          |     |    |
| ΣCDD:                 | 0     |         |          |     |    |
| SPCN <sub>Liq</sub> : | 3.29" |         |          |     |    |
| ΣPCN <sub>sol</sub> : | 0.5"  | Date:   | 1/23/23  |     |    |

|                       |       |         |            |     |    |
|-----------------------|-------|---------|------------|-----|----|
| TAVG:                 | 30    | T_Roof: | 31/25      | Tw: | -  |
| HDD:                  | 35    | T_UNV:  | 28/25      | Td: | 25 |
| ΣHDD:                 | 679   | MMTS:   | 33/24/30   |     |    |
| CDD:                  | 0     |         |            |     |    |
| ΣCDD:                 | 0     |         |            |     |    |
| SPCN <sub>Liq</sub> : | 3.31" |         |            |     |    |
| ΣPCN <sub>sol</sub> : | 2.7"  | Date:   | 01/25/2023 |     |    |

|                       |       |         |            |     |    |
|-----------------------|-------|---------|------------|-----|----|
| TAVG:                 | 35    | T_Roof: | 29/24      | Tw: | -  |
| HDD:                  | 30    | T_UNV:  | 33/31      | Td: | 23 |
| ΣHDD:                 | 740   | MMTS:   | 36/28/29   |     |    |
| CDD:                  | 0     |         |            |     |    |
| ΣCDD:                 | 0     |         |            |     |    |
| SPCN <sub>Liq</sub> : | 3.64" |         |            |     |    |
| ΣPCN <sub>sol</sub> : | 5.9"  | Date:   | 01/27/2023 |     |    |

|                       |       |         |          |     |    |
|-----------------------|-------|---------|----------|-----|----|
| TAVG:                 | 41    | T_Roof: | 36/29    | Tw: | 34 |
| HDD:                  | 24    | T_UNV:  | 30/27    | Td: | 29 |
| ΣHDD:                 | 793   | MMTS:   | 49/31/34 |     |    |
| CDD:                  | 0     |         |          |     |    |
| ΣCDD:                 | 0     |         |          |     |    |
| SPCN <sub>Liq</sub> : | 3.65" |         |          |     |    |
| ΣPCN <sub>sol</sub> : | 5.9"  | Date:   | 1/29/23  |     |    |

|                       |       |         |          |     |    |
|-----------------------|-------|---------|----------|-----|----|
| TAVG:                 | 33    | T_Roof: | M/M      | Tw: | -  |
| HDD:                  | 32    | T_UNV:  | 30/23    | Td: | 23 |
| ΣHDD:                 | 581   | MMTS:   | 33/30/30 |     |    |
| CDD:                  | 0     |         |          |     |    |
| ΣCDD:                 | 0     |         |          |     |    |
| SPCN <sub>Liq</sub> : | 2.92" |         |          |     |    |
| ΣPCN <sub>sol</sub> : | 0.21" | Date:   | 1/22/23  |     |    |

|                       |       |         |            |     |    |
|-----------------------|-------|---------|------------|-----|----|
| TAVG:                 | 33    | T_Roof: | 31/24      | Tw: | -  |
| HDD:                  | 32    | T_UNV:  | 30/23      | Td: | 24 |
| ΣHDD:                 | 644   | MMTS:   | 35/30/30   |     |    |
| CDD:                  | 0     |         |            |     |    |
| ΣCDD:                 | 0     |         |            |     |    |
| SPCN <sub>Liq</sub> : | 3.31" |         |            |     |    |
| ΣPCN <sub>sol</sub> : | 2.7"  | Date:   | 01/24/2023 |     |    |

|                       |      |         |              |      |    |
|-----------------------|------|---------|--------------|------|----|
| TAVG:                 | 34   | T_Roof: | 35/30        | Tw:  | -  |
| HDD:                  | 31   | T_UNV:  | 36/28        | Td:  | 30 |
| ΣHDD:                 | 710  | MMTS:   | 38/28/35     |      |    |
| CDD:                  | 0    |         |              |      |    |
| ΣCDD:                 | 0    |         |              |      |    |
|                       |      | - RA    | 1525-1800    | 0cc1 |    |
|                       |      | - RA    | 0130 -- 0150 |      |    |
|                       |      | - SN    | 0550 -- 0700 |      |    |
| SPCN <sub>Liq</sub> : | 3.51 |         |              |      |    |
| ΣPCN <sub>sol</sub> : | 5.6" | Date:   | 01/26/23     |      |    |

|                       |       |         |            |     |    |
|-----------------------|-------|---------|------------|-----|----|
| TAVG:                 | 36    | T_Roof: | 41/29      | Tw: | 40 |
| HDD:                  | 29    | T_UNV:  | 39/27      | Td: | 35 |
| ΣHDD:                 | 769   | MMTS:   | 42/39/40   |     |    |
| CDD:                  | 0     |         |            |     |    |
| ΣCDD:                 | 0     |         |            |     |    |
| SPCN <sub>Liq</sub> : | 3.65" |         |            |     |    |
| ΣPCN <sub>sol</sub> : | 5.9"  | Date:   | 01/28/2023 |     |    |

|                       |       |         |          |     |    |
|-----------------------|-------|---------|----------|-----|----|
| TAVG:                 | 39    | T_Roof: | 39/37    | Tw: | 39 |
| HDD:                  | 26    | T_UNV:  | 37/32    | Td: | 32 |
| ΣHDD:                 | 819   | MMTS:   | 43/33/39 |     |    |
| CDD:                  | 0     |         |          |     |    |
| ΣCDD:                 | 0     |         |          |     |    |
| SPCN <sub>Liq</sub> : | 3.68" |         |          |     |    |
| ΣPCN <sub>sol</sub> : | 5.9"  | Date:   | 1/30/23  |     |    |

Tuesday January 31, 2023  
0700 EST

Meteorological Observatory  
University Park, PA

General Observations

-D2:18:30-19:30  
-SHA: 19:30-20:30  
-SN: 0100-0145

| Temp. (°F)              | Wind (mph)          | Barom. (in. Hg)         | General Observations   |                        |                        |
|-------------------------|---------------------|-------------------------|------------------------|------------------------|------------------------|
| Maximum<br>49           | Direction<br>W      | Temperature<br>74       |                        |                        |                        |
| Minimum<br>30           | Velocity<br>6 mph   | Reading<br>28.96        |                        |                        |                        |
| Set<br>30               | Character<br>breezy | Corrected<br>28.83      | 0700                   | 1300                   | 1900                   |
| Ovrt. Low<br>—          | 24 hr. Mov.<br>—    | Sea Level<br>30.23      | Clouds<br>10/10 sc     | Clouds<br>6/10 sc      | Clouds<br>8/10 S+      |
| Rel. Humidity<br>80%    | Precip. Solid<br>T  | 3 hr. Tendency<br>+1.02 | Wx<br>—                | Wx<br>—                | Wx<br>—                |
| Precip. Liquid<br>0.02" | Snow Depth<br>0"    | Observer<br>KP          | Visibility (mi)<br>2.5 | Visibility (mi)<br>2.5 | Visibility (mi)<br>2.5 |

|                             |                                   |                     |
|-----------------------------|-----------------------------------|---------------------|
| T <sub>AVG</sub> : 40       | T <sub>Roof</sub> : 30/24         | T <sub>w</sub> : —  |
| HDD: 25                     | T <sub>INV</sub> : 30/23          | T <sub>D</sub> : 24 |
| ΣHDD: 844                   | MMTS: 48/30/30                    |                     |
| CDD: 0                      |                                   |                     |
| ΣCDD: 0                     | JAN 72MMOS                        |                     |
|                             | T <sub>max</sub> : 43.2°F         |                     |
|                             | T <sub>min</sub> : 31.8°F         |                     |
|                             | T <sub>TPW</sub> : 37.53°F +10.82 |                     |
| ΣPCN <sub>Liq</sub> : 3.70" |                                   |                     |
| ΣPCN <sub>soi</sub> : 5.9"  |                                   | Date: 01/31/2023    |