

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

| UPPER MARLBORO |               |                 |         |                 |         | PRINCE GEORGE MD           |                        |                            |        | 7:00 AM       | February 2016 | EASTERN         |         |                 |                         | REMARKS | AVERAGE WIND SPEED MPH | SOLAR RADIATION |                 |
|----------------|---------------|-----------------|---------|-----------------|---------|----------------------------|------------------------|----------------------------|--------|---------------|---------------|-----------------|---------|-----------------|-------------------------|---------|------------------------|-----------------|-----------------|
| DATE           | TEMPERATURE F |                 |         |                 |         | RAIN, MELTED PRECIP INCHES | SNOW, ICE, HAIL INCHES | SNOW, ICE ON GROUND INCHES | EVAP   |               | WATER TEMP F  |                 |         |                 | time occurrence         |         |                        | watts per sq ft | time occurrence |
|                | maximum       | time occurrence | minimum | time occurrence | present |                            |                        |                            | INCHES | reading after | maximum       | time occurrence | minimum | time occurrence |                         |         |                        |                 |                 |
| 2 1            | 62            | 1310            | 39      | 707             | 51      | 0.00                       |                        | 1                          | 4.27   | 2.91          | 45            | 1310            | 35      | 725             |                         | 7.27    | 1.67                   | 1124            |                 |
| 2 2            | 63            | 1230            | 30      | 643             | 31      | 0.08                       |                        | T                          |        |               | 58            | 1402            | 39      | 659             |                         | 2.91    | 2.09                   | 1216            |                 |
| 2 3            | 52            | 1417            | 31      | 713             | 42      | 0.00                       |                        | 0                          | 2.88   |               | 56            | 1544            | 39      | 808             |                         | 3.02    | 1.49                   | 1219            |                 |
| 2 4            | 61            | 1241            | 42      | 700             | 51      | 0.49                       |                        |                            | 3.37   |               | 56            | 506             | 42      | 714             |                         | 4.81    | 0.53                   | 1203            |                 |
| 2 5            | 52            | 700             | 33      | 304             | 36      | 0.10                       |                        |                            |        |               | 54            | 701             | 36      | 659             |                         | 7.70    | 0.56                   | 1311            |                 |
| 2 6            | 43            | 1424            | 22      | 648             | 22      | 0.08                       | T                      |                            |        |               | 46            | 1532            | 35      | 654             |                         | 4.53    | 2.11                   | 1139            |                 |
| 2 7            | 45            | 1428            | 22      | 708             | 23      | 0.00                       |                        |                            |        |               | 44            | 1604            | 35      | 728             |                         | 2.57    | 2.10                   | 1144            |                 |
| 2 8            | 44            | 1328            | 23      | 700             | 31      | 0.00                       |                        |                            | 3.32   |               | 41            | 1520            | 35      | 721             |                         | 4.52    | 1.12                   | 1244            |                 |
| 2 9            | 47            | 1241            | 31      | 703             | 34      | 0.08                       |                        |                            | 3.42   |               | 49            | 1528            | 35      | 738             |                         | 5.11    | 2.25                   | 1202            |                 |
| 2 10           | 40            | 1456            | 28      | 347             | 30      | 0.14                       | 0.1                    | 0                          | 3.56   |               | 42            | 1608            | 33      | 655             |                         | 2.63    | 1.77                   | 1454            |                 |
| 2 11           | 39            | 1444            | 20      | 645             | 20      | 0.00                       |                        |                            | Frozen |               | 42            | 1452            | 31      | 504             |                         | 8.12    | 2.01                   | 1153            |                 |
| 2 12           | 29            | 1412            | 14      | 649             | 14      | 0.00                       |                        |                            |        |               | 40            | 1503            | 31      | 637             |                         | 6.74    | 2.08                   | 1256            |                 |
| 2 13           | 32            | 1349            | 14      | 702             | 20      | 0.00                       |                        |                            |        |               | 41            | 1426            | 31      | 702             |                         | 4.06    | 2.05                   | 1202            |                 |
| 2 14           | 24            | 1247            | 10      | 647             | 11      | T                          |                        |                            |        |               | 40            | 1418            | 31      | 2107            |                         | 9.23    | 2.24                   | 1311            |                 |
| 2 15           | 27            | 1513            | 10      | 715             | 20      | 0.12                       | 1.9                    | 2                          | Frozen |               | 41            | 1454            | 31      | 2136            |                         | 4.36    | 1.67                   | 1216            |                 |
| 2 16           | 50            | 655             | 20      | 700             | 49      | 0.31                       | 1                      | 2                          |        |               | 32            | 700             | 31      | 1935            |                         | 2.34    | 0.62                   | 1039            |                 |
| 2 17           | 53            | 952             | 27      | 544             | 29      | 0.54                       |                        | 0                          | Frozen |               | 45            | 1559            | 32      | 700             |                         | 5.09    | 2.17                   | 1415            |                 |
| 2 18           | 47            | 1227            | 29      | 702             | 31      | 0.00                       |                        |                            |        |               | 46            | 1344            | 35      | 726             |                         | 4.54    | 2.56                   | 1224            |                 |
| 2 19           | 39            | 1338            | 17      | 542             | 17      | 0.00                       |                        |                            | Frozen |               | 45            | 1227            | 33      | 700             |                         | 5.29    | 1.80                   | 1213            |                 |
| 2 20           | 46            | 620             | 17      | 700             | 45      | 0.00                       |                        |                            |        |               | 41            | 1345            | 33      | 704             |                         | 7.16    | 1.51                   | 1347            |                 |
| 2 21           | 65            | 1615            | 45      | 704             | 49      | 0.00                       |                        |                            |        |               | 53            | 1732            | 38      | 701             |                         | 6.03    | 1.43                   | 1322            |                 |
| 2 22           | 59            | 1342            | 39      | 659             | 39      | 0.10                       |                        |                            | 4.07   |               | 53            | 1641            | 44      | 658             |                         | 2.27    | 1.21                   | 907             |                 |
| 2 23           | 53            | 1430            | 37      | 2228            | 39      | 0.15                       |                        |                            | 4.15   | 3.14          | 58            | 1553            | 42      | 655             |                         | 2.41    | 2.05                   | 1155            |                 |
| 2 24           | 43            | 1644            | 38      | 749             | 41      | 0.42                       |                        |                            | 3.52   |               | 44            | 1416            | 41      | 642             |                         | 4.38    | 0.44                   | 1032            |                 |
| 2 25           | 64            | 1720            | 41      | 700             | 46      | 0.49                       |                        |                            |        |               | 60            | 1926            | 41      | 701             |                         | 10.05   | 0.86                   | 1359            |                 |
| 2 26           | 50            | 955             | 32      | 524             | 34      | 0.00                       |                        |                            | 3.91   |               | 47            | 1018            | 36      | 654             |                         | 9.68    | 1.94                   | 956             |                 |
| 2 27           | 41            | 1420            | 22      | 636             | 22      | 0.00                       |                        |                            |        |               | 48            | 1526            | 35      | 656             |                         | 6.95    | 2.10                   | 1059            |                 |
| 2 28           |               |                 |         |                 |         |                            |                        |                            |        |               |               |                 |         |                 | Data logger malfunction |         |                        |                 |                 |
| 2 29           | 66            | 729             |         |                 |         | 0.00                       |                        |                            | 3.52   |               | 63            | 656             |         |                 |                         |         |                        |                 |                 |
| Average        | 48            |                 | 27      |                 | 33      | Total                      | 3.10                   | 3.0                        |        |               | 47            |                 | 36      |                 |                         | 5.32    | 1.65                   |                 |                 |

Greater: 0.54 1.9