

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

| UPPER MARLBORO |               | PRINCE GEORGE MD  |         |                   |         |                                     | 7:00 AM                         |                                     | April 2007 |                  | EASTERN      |                   |         |                   |                      | REMARKS | AVERAGE | SOLAR RADIATION       |                  |  |
|----------------|---------------|-------------------|---------|-------------------|---------|-------------------------------------|---------------------------------|-------------------------------------|------------|------------------|--------------|-------------------|---------|-------------------|----------------------|---------|---------|-----------------------|------------------|--|
| DATE           | TEMPERATURE F |                   |         |                   |         | RAIN,<br>MELTED<br>PRECIP<br>INCHES | SNOW,<br>ICE,<br>HAIL<br>INCHES | SNOW,<br>ICE ON<br>GROUND<br>INCHES | EVAP       |                  | WATER TEMP F |                   |         |                   | WIND<br>SPEED<br>MPH |         |         | watts<br>per<br>sq ft | time<br>occurene |  |
|                | maximum       | time<br>occurance | minimum | time<br>occurance | present |                                     |                                 |                                     | INCHES     | reading<br>after | maximum      | time<br>occurance | minimum | time<br>occurance |                      |         |         |                       |                  |  |
| 4 1            | 61            | 1235              | 45      | 700               | 47      | 0.00                                |                                 |                                     |            |                  | 71           | 1357              | 42      | 700               |                      | 5.64    | 68.20   | 1351                  |                  |  |
| 4 2            | 61            | 1438              | 47      | 629               | 50      | 0.00                                |                                 |                                     |            | 0.77             | 2.21         | 65                | 1507    | 46                | 701                  |         | 3.70    | 64.99                 | 1244             |  |
| 4 3            | 82            | 1548              | 47      | 554               | 51      | 0.00                                |                                 |                                     |            | 1.97             |              | 80                | 1434    | 50                | 701                  |         | 4.46    | 66.16                 | 1256             |  |
| 4 4            | 72            | 1009              | 45      | 440               | 45      | 0.50                                |                                 |                                     |            | 2.22             |              | 81                | 1405    | 46                | 635                  |         | 7.93    | 53.51                 | 1217             |  |
| 4 5            | 55            | 1354              | 37      | 700               | 37      | 0.02                                |                                 |                                     |            | 2.14             |              | 58                | 1423    | 38                | 530                  |         | 6.84    | 29.54                 | 1340             |  |
| 4 6            | 48            | 1412              | 33      | 614               | 34      | 0.00                                |                                 |                                     |            | 1.98             |              | 58                | 1446    | 35                | 614                  |         | 8.71    | 77.68                 | 1125             |  |
| 4 7            | 49            | 1528              | 31      | 542               | 31      | 0.04                                | 0.2                             | T                                   |            | 1.87             |              | 65                | 1506    | 35                | 554                  |         | 6.14    | 68.95                 | 1200             |  |
| 4 8            | 43            | 1424              | 29      | 526               | 32      | 0.00                                |                                 |                                     |            | 1.75             |              | 52                | 1553    | 34                | 609                  |         | 6.98    | 79.63                 | 1348             |  |
| 4 9            | 46            | 1539              | 27      | 341               | 33      | 0.00                                |                                 |                                     |            | 1.66             |              | 50                | 1557    | 34                | 700                  |         | 5.46    | 84.00                 | 1152             |  |
| 4 10           | 48            | 1355              | 29      | 155               | 36      | 0.00                                |                                 |                                     |            | 1.56             |              | 57                | 1418    | 35                | 700                  |         | 3.64    | 90.50                 | 1202             |  |
| 4 11           | 53            | 1554              | 28      | 533               | 33      | 0.00                                |                                 |                                     |            | 1.46             |              | 63                | 1432    | 37                | 702                  |         | 2.62    | 75.45                 | 1304             |  |
| 4 12           | 55            | 1314              | 33      | 700               | 46      | 0.79                                |                                 |                                     |            | 2.10             |              | 55                | 1414    | 39                | 757                  |         | 7.92    | 66.53                 | 1313             |  |
| 4 13           | 64            | 1410              | 44      | 609               | 44      | 0.23                                |                                 |                                     |            | 2.16             |              | 71                | 1409    | 42                | 659                  |         | 5.97    | 72.76                 | 1207             |  |
| 4 14           | 57            | 1620              | 32      | 453               | 38      | 0.00                                |                                 |                                     |            |                  |              | 61                | 1624    | 38                | 431                  |         | 4.89    | 77.68                 | 1255             |  |
| 4 15           | 57            | 1333              | 38      | 702               | 44      | 1.00                                |                                 |                                     |            |                  |              | 62                | 1421    | 39                | 730                  |         | 6.09    | 73.50                 | 1338             |  |
| 4 16           | 47            | 1434              | 42      | 2348              | 44      | 1.63                                |                                 |                                     |            | 4.40             | 3.02         | 48                | 1453    | 40                | 652                  |         | 11.50   | 19.40                 | 1257             |  |
| 4 17           | 47            | 1352              | 42      | 1001              | 46      | 0.00                                |                                 |                                     |            | 2.92             |              | 48                | 1401    | 40                | 714                  |         | 13.76   | 85.86                 | 1105             |  |
| 4 18           | 54            | 1155              | 40      | 513               | 45      | 0.00                                |                                 |                                     |            | 2.79             |              | 56                | 1525    | 39                | 634                  |         | 8.58    | 91.53                 | 1148             |  |
| 4 19           | 54            | 1457              | 45      | 707               | 48      | 0.00                                |                                 |                                     |            | 2.69             |              | 59                | 1604    | 40                | 700                  |         | 2.39    | 68.67                 | 1034             |  |
| 4 20           | 56            | 1443              | 39      | 508               | 49      | 0.00                                |                                 |                                     |            | 2.61             |              | 60                | 1458    | 45                | 604                  |         | 1.73    | 33.40                 | 1205             |  |
| 4 21           | 71            | 1503              | 40      | 541               | 48      | 0.00                                |                                 |                                     |            |                  |              | 81                | 1507    | 46                | 700                  |         | 3.06    | 61.45                 | 1158             |  |
| 4 22           | 78            | 1519              | 41      | 508               | 49      | 0.00                                |                                 |                                     |            |                  |              | 84                | 1546    | 47                | 700                  |         | 2.23    | 60.49                 | 1225             |  |
| 4 23           | 83            | 1440              | 49      | 700               | 63      | 0.00                                |                                 |                                     |            | 1.91             |              | 88                | 1503    | 50                | 700                  |         | 4.08    | 59.78                 | 1226             |  |
| 4 24           | 86            | 1421              | 63      | 701               | 68      | T                                   |                                 |                                     |            | 1.55             |              | 87                | 1403    | 53                | 700                  |         | 8.10    | 58.36                 | 1222             |  |
| 4 25           | 83            | 1632              | 56      | 545               | 60      | 0.00                                |                                 |                                     |            | 1.34             |              | 85                | 1441    | 56                | 630                  |         | 3.74    | 76.19                 | 1121             |  |
| 4 26           | 75            | 1609              | 51      | 526               | 52      | 0.00                                |                                 |                                     |            | 1.11             |              | 83                | 1300    | 52                | 602                  |         | 5.05    | 70.71                 | 1306             |  |
| 4 27           | 61            | 1438              | 49      | 34                | 51      | 0.29                                |                                 |                                     |            | 1.30             |              | 66                | 1442    | 52                | 610                  |         | 4.18    | 59.83                 | 1432             |  |
| 4 28           | 72            | 1628              | 51      | 701               | 57      | 0.17                                |                                 |                                     |            |                  |              | 77                | 1630    | 52                | 701                  |         | 1.18    | 73.13                 | 1353             |  |
| 4 29           | 71            | 1323              | 47      | 527               | 56      | 0.00                                |                                 |                                     |            |                  |              | 77                | 1343    | 51                | 618                  |         | 2.93    | 79.63                 | 1200             |  |
| 4 30           | 76            | 1441              | 47      | 454               | 62      | 0.00                                |                                 |                                     |            | 1.06             |              | 84                | 1410    | 51                | 554                  |         | 4.02    | 72.94                 | 1317             |  |
| Average        | 62            |                   | 41      |                   | 47      | Total                               | 4.67                            | 0.2                                 |            |                  |              | 68                |         | 43                |                      |         | 5.45    | 67.35                 |                  |  |
|                |               |                   |         |                   |         | Greatest                            | 1.63                            | 0.2                                 |            |                  |              |                   |         |                   |                      |         |         |                       |                  |  |

S. No. 18-9070-4