



| 20            |               | 21     | 22     | 23    | 24     | 25            | 26     | 27                  | 28     | 29     | 30  | 31    | 32    | 33   | 34  | 35      | 36  | 37    | 38 |
|---------------|---------------|--------|--------|-------|--------|---------------|--------|---------------------|--------|--------|---|-------|-------|------|-----|---------|-----|-------|----|
| Jun<br>2013   | 2nd PERIOD    |        | WIND   |       |        | REL. HUMIDITY |        | BAROMETRIC PRESSURE |        |        |   | GLAZE | SLEET | SNOW | FOG | Thunder | DEW | FROST |    |
|               | START         | END    | RUN    | MAX.  | TIME   | MAX.          | MIN.   | MAX.                | MIN.   | AVE.   | CHANGE  |       |       |      |     |         |     |       |    |
| Jun-01        |               |        | 138.7  | 24    | 14:02  | 91            | 46     | 30.09               | 29.97  | 30.03  | -0.10   |       |       |      |     |         |     | 2     |    |
| Jun-02        |               |        | 144.5  | 27    | 13:09  | 95            | 54     | 29.99               | 29.88  | 29.94  | -0.10   |       |       |      |     | 1       |     | 1     |    |
| Jun-03        | 1230          | 1235   |        | 14    | 19:55  | 99            | 54     | 29.96               | 29.83  | 29.90  | -0.04   |       |       |      |     |         |     | R     |    |
| Jun-04        |               |        | 66.2   | 20    | 8:30   | 96            | 30     | 30.14               | 29.96  | 30.05  | 0.16  |       |       |      |     |         |     | R     |    |
| Jun-05        |               |        | 30.7   | 15    | 22:55  | 86            | 37     | 30.17               | 30.07  | 30.12  | 0.07  |       |       |      |     |         |     | 3     |    |
| Jun-06        | 2045          | 2100   | 74.3   | 19    | 15:12  | 93            | 61     | 30.08               | 29.84  | 29.96  | -0.16   |       |       |      |     |         |     | N     |    |
| Jun-07        |               |        | 76.5   | 19    | 16:38  | 99            | 90     | 29.84               | 29.56  | 29.70  | -0.26   |       |       |      |     |         |     | R     |    |
| Jun-08        | 0800          | 1200   | 18.0   | 13    | 16:31  | 99            | 55     | 30.10               | 29.76  | 29.93  | 0.23  |       |       |      |     |         |     | R     |    |
| Jun-09        | 2000          | 2030   | 38.3   | 18    | 19:06  | 98            | 47     | 30.17               | 30.05  | 30.11  | 0.18  |       |       |      |     | 2       |     | 4     |    |
| Jun-10        | 1230          | 1310   | 91.2   | 25    | 18:02  | 97            | 71     | 30.09               | 29.83  | 29.96  | -0.15   |       |       |      |     |         |     | R     |    |
| Jun-11        |               |        | 71.5   | 19    | 13:11  | 100           | 52     | 29.90               | 29.82  | 29.86  | -0.10   |       |       |      |     |         |     | R     |    |
| Jun-12        |               |        | 46.8   | 16    | 14:43  | 92            | 50     | 29.91               | 29.81  | 29.86  | 0.00  |       |       |      |     |         |     | 4     |    |
| Jun-13        |               |        | 93.2   | 29    | 14:34  | 96            | 49     | 29.82               | 29.51  | 29.67  | -0.20   |       |       |      |     | 3       |     | 3     |    |
| Jun-14        |               |        | 76.1   | 20    | 7:47   | 95            | 44     | 30.00               | 29.65  | 29.83  | 0.16  |       |       |      |     |         |     | R     |    |
| Jun-15        |               |        | 22.9   | 16    | 13:35  | 97            | 38     | 30.09               | 30.00  | 30.05  | 0.22  |       |       |      |     |         |     | 4     |    |
| Jun-16        | 2305          | 2330   | 100.8  | 20    | 11:10  | 87            | 50     | 30.04               | 29.93  | 29.99  | -0.06   |       |       |      |     | 1       |     | 1     |    |
| Jun-17        |               |        | 62.8   | 15    | 6:29   | 97            | 59     | 30.00               | 29.90  | 29.95  | -0.04   |       |       |      |     |         |     | R     |    |
| Jun-18        |               |        | 54.9   | 21    | 16:31  | 96            | 81     | 29.95               | 29.76  | 29.86  | -0.09   |       |       |      |     | 3       |     | 2     |    |
| Jun-19        |               |        | 27.6   | 11    | 10:48  | 98            | 64     | 30.15               | 29.88  | 30.02  | 0.16  |       |       |      |     |         |     | 5     |    |
| Jun-20        |               |        | 27.8   | 11    | 16:20  | 97            | 45     | 30.27               | 30.15  | 30.21  | 0.20  |       |       |      |     |         |     | 4     |    |
| Jun-21        |               |        | 29.6   | 12    | 13:30  | 95            | 36     | 30.29               | 30.24  | 30.27  | 0.05  |       |       |      |     |         |     | 4     |    |
| Jun-22        | 2055          | 2135   | 35.6   | 16    | 19:24  | 97            | 54     | 30.26               | 30.16  | 30.21  | -0.05   |       |       |      |     | 1       |     | 4     |    |
| Jun-23        |               |        | 49.3   | 15    | 18:53  | 99            | 56     | 30.19               | 30.10  | 30.15  | -0.06   |       |       |      |     |         |     | R     |    |
| Jun-24        |               |        | 68.7   | 17    | 15:19  | 96            | 51     | 30.16               | 30.05  | 30.11  | -0.04   |       |       |      |     |         |     | 3     |    |
| Jun-25        |               |        | 71.7   | 15    | 6:42   | 93            | 46     | 30.07               | 29.93  | 30.00  | -0.11   |       |       |      |     |         |     | 3     |    |
| Jun-26        |               |        | 75.9   | 17    | 12:36  | 96            | 51     | 29.96               | 29.83  | 29.90  | -0.11   |       |       |      |     | 2       |     | 3     |    |
| Jun-27        |               |        | 85.8   | 29    | 16:38  | 97            | 58     | 29.87               | 29.67  | 29.77  | -0.12   |       |       |      |     |         |     | R     |    |
| Jun-28        |               |        | 102.4  | 31    | 16:50  | 97            | 51     | 29.69               | 29.51  | 29.60  | -0.17   |       |       |      |     |         |     | 3     |    |
| Jun-29        |               |        | 82.8   | 17    | 14:07  | 93            | 44     | 29.71               | 29.55  | 29.63  | 0.03  |       |       |      |     |         |     | N     |    |
| Jun-30        | 1900          | 2025   | 60.3   | 16    | 16:50  | 96            | 59     | 29.88               | 29.71  | 29.80  | 0.16  |       |       |      |     | 1       |     | N     |    |
| TOTAL         | Column 23     |        | 1961.0 | 557   |        | 2867          | 1583   | 900.84              | 895.91 | 898.38 | -0.33   | GLAZE | SLEET | SNOW | FOG | THUNDER | DEW | FROST |    |
| Number        | Mar. Wind Run |        | 30     | 30    | 30     | 30            | 30     | 30                  | 30     | 30     | 30  |       |       |      |     |         |     |       |    |
| AVE.          | Total         | 1961.0 | 65.37  | 18.57 | 14:39  | 95.6          | 52.8   | 30.03               | 29.86  | 29.95  |   |       |       |      |     |         |     |       |    |
| Normals       | Miles         | 1099.5 | 33.8   | 33.8  |        | 92.0          | 44.5   | 29.98               | 29.85  | 29.92  |   |       |       |      |     |         |     |       |    |
| Departures    | Miles         | 861.6  | 31.5   | -15.3 |        | 3.5           | 8.3    | 0.04                | 0.01   | 0.03   |   |       |       |      |     |         |     |       |    |
| MAXIMUM DATES | Dates         | 144.5  | 31     | SSW   | 100    | 90            | 30.29  | 30.24               | 30.27  | 0.23   | 5. Very Heavy<br>4. Heavy-Unusual<br>3. Moderate - Ave.<br>2. Light - < Ave.<br>1. Very Light - Slight - Trace<br>M - Event with intensity missing<br>R - Rain hindering Dew Observation<br>N- NONE |       |       |      |     |         |     |       |    |
|               | 1             | Jun-02 | Jun-28 | 16:50 | Jun-11 | Jun-07        | Jun-21 | Jun-21              | Jun-21 | Jun-08 |   |       |       |      |     |         |     |       |    |
|               | 2             |        |        | HOUR  |        |               |        |                     |        |        |   |       |       |      |     |         |     |       |    |
|               | 3             |        |        |       |        |               |        |                     |        |        |   |       |       |      |     |         |     |       |    |
| MINIMUM DATES | Dates         | 18.0   | 11     |       | 86     | 30            | 29.69  | 29.51               | 29.60  | -0.26  |   |       |       |      |     |         |     |       |    |
|               | 1             | Jun-08 | Jun-19 |       | Jun-05 | Jun-04        | Jun-28 | Jun-13              | Jun-28 | Jun-07 |   |       |       |      |     |         |     |       |    |
|               | 2             |        | Jun-20 |       |        |               |        | Jun-28              |        |        |   |       |       |      |     |         |     |       |    |
| MINIMUM       | <=75          | <=70   | <=65   | <=60  | <=55   | <=50          | <=45   | <=40                | <=35   | <=30   |   |       |       |      |     |         |     |       |    |
|               | 30            | 26     | 12     | 5     | 1      | 0             | 0      | 0                   | 0      | 0      |   |       |       |      |     |         |     |       |    |

## REMARKS FOR THE MONTH

June - 2013

|               |  |
|---------------|--|
| <b>Jun-01</b> | ONLY A FEW CUMULUS DURING DAY-BEAUTIFUL DAY OTHER THAN A LITTLE ON THE HOT SIDE  |
| <b>Jun-02</b> | CLEAR UNTIL 0945 THEN PC TO NOON   |
| <b>Jun-03</b> | 3RD PD. OF VERY LIGHT RAIN 2100-2115-NOT VERY HOT BUT VERY HUMID   |
| <b>Jun-04</b> | A REALLY BEAUTIFUL SPRING DAY-DEEP BLUE SKY AND LOW REL. HUMIDITY OF 30% AND A LOW DEW POINT 41.4 °F AT 1404   |
| <b>Jun-05</b> | AM SKY MAINLY CIRRUS AND AFTER 1500 BROKEN CUMULUS   |
| <b>Jun-06</b> | 3RD PD. OF RAIN 2145-2400  |
| <b>Jun-07</b> | ALL DAY RAIN - TROPICAL STORM ANDREA PASSED TO EAST OF RICHMOND  |
| <b>Jun-08</b> | AM RAIN AND CLEARING STARTED AT 1315 AND TOTALLY CLEAR BY 1800   |
| <b>Jun-09</b> | CLOUDY ABOUT 1/2 OF DAY AND PC THE OTHER HALF-AM EST. 55-60% CLOUDY AND PM 70-80% CLOUDY   |
| <b>Jun-10</b> | 3RD PD. OF RAIN 1830-2020-WETTEST EARLY SUMMER ON RECORD AT OUR GLEN ALLEN STATION   |
| <b>Jun-11</b> | BLUE SKY WITH CUMULUS MOST OF THE DAY-MAX. DEW POINT 71.0 °F AT 1113 AND THEN A WEAK COLD FRONT LOWERED DEW POINTS                                   |
| <b>Jun-12</b> | PM WAS ABOUT 35-45% CLOUDY BUT VERY HUMID-MAX. DEW POINT 74.3 °F AT 1438   |
| <b>Jun-13</b> | PC FROM 1230-1420-MESO SCALE COMPLEX PASSED TO NORTH OF RICHMOND WITH NO RAIN-PM SQUALL LINE DID BRING RAIN  |
| <b>Jun-14</b> | NICE COOL DAY FOR SEASON WITH A LOW DEW POINT OF 52.3 °F   |
| <b>Jun-15</b> | 6 DEGREES WARMER TODAY BUT STILL PLEASANT FOR THE SEASON-ONLY A FEW PM CUMULUS AND AM WAS VERY CLEAR   |
| <b>Jun-16</b> | CLOUDS CAME IN AROUND 1230 AND WAS THEN A BROKEN OVERCAST THAT BECAME A FULL OVERCAST BY 1645  |
| <b>Jun-17</b> | EARLY MORNING LIGHT RAIN AND CLOUDY SKIES BECAME BROKEN AT 1315-PM AVERAGED ABOUT 60-65% CLOUDY  |
| <b>Jun-18</b> | CLOUDY ALL DAY AND HEAVIEST RAIN OCCURRED BETWEEN 1595-1640 IN A THUNDERSTORM-VERY HUMID WITH A MAX. DEW POINT OF 74 °F                              |
| <b>Jun-19</b> | VERY PLEASANT SPRING DAY   |
| <b>Jun-20</b> | ANOTHER NICE DAY FOR THE SEASON AND WETTEST SPRING SINCE WE MOVED TO GLEN ALLEN IN 2008  |
| <b>Jun-21</b> | COOLEST NIGHT FOR JUNE 21 SINCE 2005-REALLY A BEAUTIFUL DAY FOR THE SEASON   |
| <b>Jun-22</b> | CLEAR UNTIL 1110 THEN PC TO 1500 THEN CLOUDY AS THE LOW MOVED UP THE FRONT WELL OFFSHORE-3RD PD. OF PRECIP. 2345-2400-ONLY ONE THUNDER IN RAIN FROM  |
| <b>Jun-23</b> | IT STARTED CLEARING AT 1230 AND MOSTLY CLEAR AFTER 1530-1830 THEN BECAME CLOUDY AGAIN  |
| <b>Jun-24</b> | VERY HUMID-HIGH DEW POINT WAS 76.5 °F AT 1109-CLOUDS CAME IN AT 1015   |
| <b>Jun-25</b> | WARMEST NIGHT SINCE SEPT. 5, 2012 AND WARMEST DAY SINCE AUG. 31, 2012 WHEN IT WAS 95 °F  |
| <b>Jun-26</b> | STRONGEST THUNDERSTORM WENT TO OUR SOUTH WITH A QUICK CLOCKWISE CHANGE IN DIRECTION-VERY HUMID - MAX. DEW POINT 76.3 °F AT 1115-WARMEST DAY SINCE    |
| <b>Jun-27</b> | A LITTLE MORNING DRIZZLE BUT SO LIGHT IT WASN'T DISCERNIBLE UNLESS YOU WERE OUTSIDE-FIRST CLEARING AT 1430   |
| <b>Jun-28</b> | SEVERE THUNDERSTORMS PASSED BOTH NORTH AND SOUTH OF GLEN ALLEN AND ONLY A TRACE OF RAIN HERE   |
| <b>Jun-29</b> | THE ONLY CLOUDY PD. TODAY WAS BET. 1315-1415-TOO MUCH WIND FOR AM DEW  |
| <b>Jun-30</b> | SOME CLEARING AROUND 1115 AND THE AM WAS ABOUT 95% CLOUDY AND THE PM WAS ABOUT 75 % CLOUDY-- VERY HUMID WITH MAX. DEW POINT OF 74.9 °F AT 1205 - THE |

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|-------------|---|
| <b>DATE</b> | <b>EXTENSION OF LENGTHY DAILY REMARKS</b> |
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|---------------|---|
| <b>Jun-22</b> | 1605-1700                                   |
| <b>Jun-26</b> | AUG. 31,2012 WHEN IT WAS 95 °F              |
| <b>Jun-27</b> | THIRD PERIOD OF RAIN WAS FROM 2130 TO 2400. |