| PAGE #1 | | July | 2020 | West Her | nrico Co | Glen Al | len Weat | her Cen | ter 37.6 | 65537° N | . 77.569 | 29° W | Koontz | | | | | |
|-----------|------------|--------|--------------|----------|--------------|---------|----------|---------|----------|----------|----------|-----------|------------|----------|---------|---------|---------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| July | Week | | TEMPERA | | | | TEMPERA | | | | KY | | ECIPITATIO | | | PRECIP. | | PERIOD |
| 2020 | Day | MAX. | Time | MIN. | Time | RANGE | MEAN | CHANGE | SOIL | AM | PM | Liquid | 1 Hr. | 5 Min. | NEW | GROUND | START | END |
| July-01 | Wed | 90.1 | 14:06 | 68.6 | 17:39 | 21.5 | 79.4 | -0.3 | 77 | 1 | 1 | 2.95 | 2.66 | 0.38 | | | 0210 | 0300 |
| July-02 | Thu | 89.4 | 15:30 | 66.4 | 4:36 | 23 | 77.9 | -1.4 | 76 | 0 | 1 | | | | | | | |
| July-03 | Fri | 94.3 | 16:41 | 67.3 | 5:50 | 27 | 80.8 | 2.9 | 76 | 0 | 0 | | | | | | | |
| July-04 | Sat | 93.4 | 15:56 | 71.4 | 6:18 | 22 | 82.4 | 1.6 | 77 | 0 | 0 | | | | | | | |
| July-05 | Sun | 91.6 | 15:56 | 73.4 | 6:15 | 18.2 | 82.5 | 0.1 | 78 | 2 | 1 | | | | | | | |
| July-06 | Mon | 94.6 | 15:51 | 73.6 | 6:49 | 21 | 84.1 | 1.6 | 79 | 0 | 1 | | | | | | | |
| July-07 | Tue | 92.0 | 14:04 | 75.4 | 5:58 | 16.6 | 83.7 | -0.4 | 79 | 0 | 0 | | | | | | | |
| July-08 | Wed | 90.1 | 16:00 | 71.7 | 5:56 | 18.4 | 80.9 | -2.8 | 79 | 1 | 1 | | | | | | | |
| July-09 | Thu | 90.7 | 15:07 | 71.6 | 4:14 | 19.1 | 81.2 | 0.3 | 79 | 2 | 1 | | | | | | | |
| July-10 | Fri | 94.1 | 17:33 | 72.5 | 6:08 | 21.6 | 83.3 | 2.1 | 79 | 1 | 1 | 0.40 | 0.40 | 0.12 | | | 2247 | 2400 |
| July-11 | Sat | 91.6 | 16:42 | 71.8 | 6:03 | 19.8 | 81.7 | -1.6 | 80 | 0 | 0 | 0.06 | 0.06 | 0.01 | | | 0001 | 0122 |
| July-12 | Sun | 91.4 | 11:50 | 65.8 | 6:01 | 25.6 | 78.6 | -3.1 | 79 | 0 | 1 | | | | | | | |
| July-13 | Mon | 91.3 | 17:47 | 68.8 | 6:06 | 22.5 | 80.1 | 1.5 | 79 | 1 | 0 | 0.01 | 0.01 | Т | | | 0649 | 0722 |
| July-14 | Tue | 91.4 | 16:25 | 68.3 | 5:51 | 23.1 | 79.9 | -0.2 | 79 | 0 | 0 | | | | | | | |
| July-15 | Wed | 92.5 | 17:19 | 71.1 | 6:19 | 21.4 | 81.8 | 2.0 | 79 | 0 | 1 | | | | | | | |
| July-16 | Thu | 91.2 | 15:23 | 73.5 | 6:30 | 17.7 | 82.4 | 0.5 | 79 | 2 | 1 | | | | | | | |
| July-17 | Fri | 97.0 | 14:42 | 74.5 | 6:06 | 22.5 | 85.8 | 3.4 | 79 | 1 | 2 | | | | | | | |
| July-18 | Sat | 98.6 | 17:04 | 72.8 | 6:24 | 25.8 | 85.7 | -0.1 | 79 | 0 | 0 | | | | | | | |
| July-19 | Sun | 99.9 | 16:29 | 75.8 | 6:37 | 24.1 | 87.9 | 2.2 | 80 | 0 | 1 | | | | | | | |
| July-20 | Mon | 100.1 | 15:15 | 76.9 | 6:27 | 23.2 | 88.5 | 0.7 | 80 | 1 | 1 | | | | | | | |
| July-21 | Tue | 101.2 | 16:26 | 76.2 | 23:58 | 25 | 88.7 | 0.2 | 81 | 1 | 0 | 0.38 | 0.29 | 0.09 | | | 1815 | 2400 |
| July-22 | Wed | 95.6 | 14:20 | 72.6 | 6:04 | 23 | 84.1 | -4.6 | 81 | 0 | 2 | 0.46 | 0.26 | 0.16 | | | 0050 | 0300 |
| July-23 | Thu | 95.4 | 17:20 | 72.8 | 0:52 | 22.6 | 84.1 | 0.0 | 81 | 1 | 0 | 0.07 | 0.06 | 0.01 | | | 0135 | 0225 |
| July-24 | Fri | 91.0 | 17:59 | 73.4 | 5:33 | 17.6 | 82.2 | -1.9 | 81 | 2 | 2 | 0.01 | 0.01 | Т | | | 0255 | 0400 |
| July-25 | Sat | 94.1 | 15:22 | 70.6 | 6:27 | 23.5 | 82.4 | 0.1 | 80 | 0 | 1 | | | | | | | |
| July-26 | Sun | 96.3 | 15:10 | 74.0 | 6:19 | 22.3 | 85.2 | 2.8 | 81 | 0 | 0 | | | | | | | |
| July-27 | Mon | 98.3 | 15:46 | 75.6 | 6:17 | 22.7 | 87.0 | 1.8 | 81 | 0 | 0 | | | | | | | |
| July-28 | Tue | 100.0 | 15:18 | 75.7 | 6:00 | 24.3 | 87.9 | 0.9 | 81 | 0 | 0 | Т | Т | Т | | | 2215 | 2220 |
| July-29 | Wed | 93.1 | 14:42 | 73.7 | 6:22 | 19.4 | 83.4 | -4.4 | 82 | 1 | 1 | | | | | | | |
| July-30 | Thu | 95.5 | 16:24 | 73.2 | 6:28 | 22.3 | 84.4 | 0.9 | 81 | 0 | 2 | 0.85 | 0.61 | 0.13 | | | 1815 | 1930 |
| July-31 | Fri | 91.2 | 16:01 | 73.4 | 3:22 | 17.8 | 82.3 | -2.0 | 81 | 2 | 2 | 0.60 | 0.40 | 0.15 | | | 0001 | 0240 |
| TOTAL | | 2917 | | 2242 | | 674.6 | 2580 | 2.7 | 2463 | 19 | 24 | 5.79 | 4.76 | 1.05 | 0.00 | 0.00 | Co | 1.26-27 |
| NUMBER | | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 10 | 10 | 8 | 0 | 0 | DAILY | AVE RH |
| AVERAGE | | 94.10 | 15:49 | 72.34 | 6:46 | 21.76 | 83.22 | | 79.45 | 0.61 | 0.77 | Ave. Tot. | Ave. Max | Ave. Max | | | 71.9 | Percent |
| NORMALS | | 90.13 | | 70.03 | | 20.30 | 80.02 | | 79.0 | 0.94 | 1.09 | 4.24 | 0.84 | 0.27 | | | 70.4 | Percent |
| DEPARTUR | ES | 3.96 | | 2.31 | | 1.46 | 3.19 | | 0.5 | -0.32 | -0.32 | 1.55 | 1.82 | 0.11 | | | 1.5 | Percent |
| Max. Temp | s. >= 90°F | 101.2 | Ave.High Max | 76.9 | Ave.High Min | 27 | 88.7 | 3.4 | 82.0 | Who | le Day | 2.95 | 2.66 | 0.38 | | | Precip. | 24 Hr. |
| 2020 | 30 | Jul-21 | 99.0 | Jul-20 | 77.3 | Jul-03 | Jul-21 | Jul-17 | Jul-29 | AVE. | 0.69 | Jul-01 | Jul-01 | Jul-01 | | | Amount | 2.95 |
| Ave. | 17.3 | | Dep. | | Dep. | | | | | Normal | 1.01 | | | | | | Date | Jul 01 |
| Departure | 12.7 | | 2.2 | | -0.4 | | | | | Depart. | -0.32 | | | | | | Date | |
| Min. Temp | s. >= 70°F | 89.4 | Ave.Low Max | 65.8 | Ave.Low Min | 16.6 | 77.9 | -4.6 | 76.0 | SKY | AM | PM | >= 0.10 | INCHES | >= 1.00 | INCHES | >= 2.00 | INCHES |
| 2020 | 25 | Jul-02 | 77.8 | Jul-12 | 59.9 | Jul-07 | Jul-02 | Jul-22 | Jul-02 | CLEAR | 17 | 12 | 6 | DAYS | 1 | DAYS | 1 | DAYS |
| Ave. | 18.7 | | Dep. | | Dep. | | | | Jul-03 | PT. CLO. | 9 | 14 | HOTTEST | 88.7 | Highest | Lowest | COOLEST | 77.9 |
| Departure | | | 11.6 | | 5.9 | | | | | CLOUDY | 5 | 5 | DAY | 7-21 | Mean | Mean | DAY | 7-02 |
| Days Max. | <=32 °F | 0 | | | MAX. | >=100 | >=95 | >=90 | >=85 | >=80 | >=75 | >=70 | >=65 | >=60 | >=55 | >=50 | >=45 | >=40 |
| Days Max. | | 30 | | | DAYS | 4 | 12 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |

| PAGE #2 | July | 2020 | West He | nrico Co | Glen A | llen Wea | ther Cer | nter 37.6 | 5537° N. | 77.56929 | 9° W K | oontz | | | | | | |
|-----------------|---------------|--------|-----------------------|------------------|------------------------|-------------------|-------------------|------------------------|------------------------|------------------------|-----------|--------------|------------|-------|-----|-----|--------|-------|
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| July | 2nd PE | ERIOD | | WIND | | REL. HU | JMIDITY | | BAROMETRI | C PRESSUR | E | | | | | K | | |
| 2020 | START | END | RUN | MAX. | TIME | MAX. | MIN. | MAX. | MIN. | AVE. | CHANGE | GLAZE | SLEET | SNOW | FOG | 1 | DEW | FROST |
| Jul-01 | 1625 | 1815 | 45.4 | 18 | 16:43 | 95 | 60 | 29.90 | 29.80 | 29.85 | -0.04 | | | | | 3 | 1 | |
| Jul-02 | <u> </u> | | 45.4 | 12 | 14:55 | 97 | 52 | 29.93 | 29.86 | 29.90 | 0.04 | | | | | | Р | |
| Jul-03 | | | 28.0 | 11 | 14:54 | 94 | 45 | 29.94 | 29.85 | 29.90 | 0.00 | | | | | | 4 | |
| Jul-04 | <u> </u> | | 52.9 | 11 | 9:20 | 92 | 52 | 29.95 | 29.87 | 29.91 | 0.01 | | | | | | 4 | |
| Jul-05 | | | 70.9 | 15 | 12:30 | 92 | 63 | 30.02 | 29.93 | 29.98 | 0.07 | | | | | | 2 | |
| Jul-06 | 1 | | 78.3 | 17 | 15:30 | 90 | 55 | 30.06 | 29.98 | 30.02 | 0.04 | | | | | | 2 | |
| Jul-07 | 1 | | 78.1 | 15 | 16:21 | 92 | 52 | 30.07 | 29.97 | 30.02 | 0.00 | | | | | | 3 | |
| Jul-08 | | | 55.3 | 14 | 11:25 | 94 | 56 | 30.03 | 29.90 | 29.97 | -0.05 | | | | | | 4 | |
| Jul-09 | - | | 67.8 | 18 | 13:28 | 96 | 60 | 29.97 | 29.88 | 29.93 | -0.04 | | | | 1 | | 5 | |
| Jul-10 | | | 54.6 | 15 | 22:30 | 95 | 50 | 29.91 | 29.75 | 29.83 | -0.09 | | | | | 1 | 5 | |
| Jul-11 | | | 60.5 | 16 | 14:14 | 96 | 47 | 29.82 | 29.72 | 29.77 | -0.06 | | | | | 1 | P | |
| Jul-12 | <u> </u> | | 44.5 | 16 | 14:57 | 93 | 44 | 29.84 | 29.73 | 29.79 | 0.02 | | | | | 1 | 4 | |
| Jul-13 | | | 32.9 | 13 | 13:28 | 93 | 51 | 29.91 | 29.80 | 29.86 | 0.07 | | | | | 1 | 3 | |
| Jul-14 | - | | 49.8 | 13 | 15:35 | 93 | 44 | 30.08 | 29.89 | 29.99 | 0.13 | | | | | | 3 | |
| Jul-15 | | | 49.1 | 15 | 21:36 | 94 | 48 | 30.17 | 30.07 | 30.12 | 0.14 | | | | | | 4 | |
| Jul-16 | | | 80.9 | 16 | 16:37 | 84 | 50 | 30.23 | 30.13 | 30.18 | 0.06 | | | | | | N | |
| Jul-17 | | | 79.1 | 16 | 10:55 | 91 | 55 | 30.17 | 30.04 | 30.11 | -0.07 | | | | | | 1 | |
| Jul-18 | | | 31.6 | 11 | 11:42 | 95 | 41 | 30.10 | 29.98 | 30.04 | -0.07 | | | | | | 4 | |
| Jul-19 | | | 43.9 | 12 | 16:49 | 91 | 44 | 30.02 | 29.89 | 29.96 | -0.09 | | | | | | 3 | |
| Jul-20 | | | 49.4 | 15 | 15:28 | 86 | 45 | 29.98 | 29.87 | 29.93 | -0.03 | | | | | | N | |
| Jul-21 | | | 53.9 | 17 | 17:41 | 94 | 41 | 30.08 | 29.94 | 30.01 | 0.08 | | | | | 4 | 1 | |
| Jul-22 | 1825 | 1735 | 62.1 | 23 | 17:10 | 96 | 57 | 30.11 | 29.98 | 30.05 | 0.04 | | | | | 1 | P | |
| Jul-23 | 0323 | 0545 | 64.5 | 23 | 20:29 | 96 | 47 | 30.12 | 30.00 | 30.06 | 0.02 | | | | | 1 | P | |
| Jul-24 | 0545 | 0550 | 42.6 | 11 | 23:00 | 95 | 60 | 30.13 | 30.02 | 30.08 | 0.01 | | | | | | P | |
| Jul-25 | | | 35.4 | 12 | 17:25 | 96 | 56 | 30.13 | 30.04 | 30.09 | 0.01 | | | | | | 4 | |
| Jul-26 | | | 41.6 | 13 | 13:47 | 95 | 38 | 30.10 | 29.98 | 30.04 | -0.05 | | | | | | 4 | |
| Jul-27 | | | 59.2 | 17 | 18:27 | 90 | 39 | 30.11 | 29.84 | 29.98 | -0.06 | | | | | 4 | 3 | |
| Jul-28 | | | 57.4 | 14 | 14:06 | 88 | 45 | 29.96 | 29.83 | 29.90 | -0.08 | | | | | 1 | 2 | |
| Jul-29 | | | 66.1 | 13 | 16:46 | 92 | 53 | 30.00 | 29.90 | 29.95 | 0.05 | | | | | 4 | 3 | |
| Jul-30 | 2015 | 2400 | 69.4 | 15 | 11:47 | 95 | 53 | 29.94 | 29.79 | 29.87 | -0.08 | | | | 1 | 1 | 4 P | |
| Jul-31 TOTAL | 0350 Colum | 0420 | 40.1 1690.7 | 14 461 | 16:05 | 96 2886 | 70 1573 | 29.89 930.67 | 29.75 926.98 | 29.82 928.83 | -0.05 | 0 | 0 | 0 | 2 | 9 | 23 | 0 |
| NUMBER | Mar. Wir | | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | Normal | 0.0 | 0.0 | 0.0 | 1.6 | 7.1 | 18.1 | 0.0 |
| AVE. | Total | 1690.7 | 54.5 | 14.9 | 15:40 | 93.10 | 50.74 | 30.02 | 29.90 | 29.96 | Depart. | 0.0 | 0.0 | 0.0 | 0.4 | 1.9 | 4.9 | 0.0 |
| NORMALS | Miles | 1343.8 | 61.8 | 18.8 | Directions | 92.6 | 48.1 | 30.02 | 29.92 | 29.98 | Rating ▶ | 0.0 | 0.0 | 0.0 | 2 | 14 | 73 | 0.0 |
| Departures | Miles | 346.9 | -7.3 | -3.9 | Directions Date Order | 0.5 | 2.7 | -0.01 | -0.02 | -0.02 | Intensity | | | | | | | |
| | MAXIMUM | | 80.9 | 23 | WNW | 97 | 70 | 30.23 | 30.13 | 30.18 | 0.14 | GLAZE | SLEET | SNOW | F0G | 7 | Dew | Frost |
| | DATES | 1 | Jul-16 | Jul-22 | 17:10 | Jul-02 | Jul-31 | Jul-16 | Jul-16 | Jul-16 | Jul-15 | G. | SL | S | ш | 17 | Δ | Ē. |
| | 57.123 | 2 | Jul-10 | Jul-22 Jul-23 | 20:29 | Our OZ | ouor | oui-10 | oui-10 | oui-10 | | 5. Very Hea | | eme | | | | |
| | | 3 | | | | | | | | | | 4. Heavy-U | - | | | | | |
| Min. Temps. | >= 70°F | 4 | | | Ave. Max. | | | | | | | 3. Modera | | | | | | |
| 2020 | - | Dates | 28.0 | 11 | 28.5 | 84 | 38 | 29.82 | 29.72 | 29.77 | -0.09 | 2. Light - < | | | | | | |
| Ave. | | 1 | Jul-03 | Jul-03 | Dep. | Jul-16 | Jul-26 | Jul-11 | Jul-11 | Jul-11 | | 1. Very Liq | | Trace | | | | |
| Departure | 6.3 | 2 | oui oo | Jul-04 | -5.5 | Jul 10 | 00.20 | our II | Varia | Vui II | | M - Event | • | | | | | |
| Days Min. | | 0 | ≤ 75 | ≤ 70 | ≤ 65 | ≤ 60 | ≤ 55 | ≤ 50 | ≤ 45 | ≤ 40 | ≤ 35 | N- None No | | - | | | | |
| Days Min. | | 25 | 25 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | | P- Precap. | | | | | | |
| Dayonini | • • | | | | | <u>`</u> _ | | U U | U | J | , , | . recap. | provent on | | | | | |

| PAGE #3 | West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz |
|------------------|--|
| July 2020 | REMARKS FOR THE MONTH July - 2020 |
| Jul-01 | TS RATED 3-2-5 HEAVIEST RAIN SINCE JUNE 7, 2019 WHEN 3.81 INS. WAS OBSERVED |
| Jul-02 | CLEAR UNTIL 1130 THEN A FEW FAIR WEATHER CUMULUS THAT BECAME NUMEROUS BY 1300 UNTIL 1615 THEN CLEAR AGAIN |
| Jul-03 | A CLEAR SKY WITH HIGH TEMPS. AND ONLY 0.3 °F FROM HOTTEST DAY IN 2020 |
| Jul-04 | HEAVY DEW ON GRASS ONLY-VERY CLEAR AM WITH CUMULUS COMING IN AT NOON AND PM WAS ABOUT 30% CLOUDY |
| Jul-05 | VEIL OF CIRRUS AND CIRROSTRATUS STO NOON THEN CLEARING WITH SCATTERED CUMULUS THEN CIRRUS, CIRROSTRATUS AND ALTOSTRATUS CAME IN AT 1615 |
| Jul-06 | TODAY WAS HOTTEST DAY OF 2020 BY 0.1 °F - AM WAS ALMOST CLEAR-PM WAS ABOUT 45-55% CLOUDY |
| Jul-07 | CLEAR AM AND CUMULUS CAME IN AT 1300 BUT ONLY A FEW FAIR WEATHER CUMULUS AND CLEAR AGAIN BY 1445 THEN CIRRUS AFTER 1830 |
| Jul-08 | CUMULUS CLOUDS CAME IN AT 0850 GIVING A PC AM AND PM |
| Jul-09 | LIGHT FOG AT 0645-TODAY WAS BREEZY AFTER 0915-AM WAS MOSTLY CLOUDY AND PM CLOUDS DECREASED AT 1445 |
| Jul-10 | TWO THUNDERS HEARD THE 1st AT 2209 -TS RATED 1-1-2-MANY HIGH DEFINITION CUMULUS CLOUDS AGAINST A DEEP BLUE SKY-HOT & HUMID DAY-AM EST. 45-55% CLOUDY & PM EST. 35-40% CLOUDY |
| Jul-11 | DEEP BLUE SKY AGAIN TODAY WITH CUMULUS CLOUDS FROM 1230-1400 OTHERWISE A VERY CLEAR DAY WITH LOW HUMIDITY |
| Jul-11 | VERY CLEAR AM WITH FIRST CLOUDS ARRIVING AROUND NOON AND MOSTLY CLO. FROM 1230-1530-LOW PM REL. HUMIDITY-PM EST. 45-55% CLOUDY |
| Jul-12 Jul-13 | FULL RAINBOW ENDING AT 0648 FIRST MORNING RAINBOW I REMEMBER SINCE MOVING TO RICHMOND 12 YRS AGO-CLOUDS CLEARED BY 0850 THEN THIN CIRRUS TO 1115 AND CUMULUS AFTER 1245 |
| | |
| Jul-14 | AM WAS VERY CLEAR THEN CUMULUS CAME IN AT 1230-SCATTERED CUMULUS UNTIL 1730-PM EST. 30% CLOUDY |
| Jul-15 Jul-16 | CLEAR TO 1145 THEN CUMULUS CAME IN AND WAS MOSTLY CLOUDY TO 1515 THEN CLEARING AGAIN AM WAS MAINLY CLOUDY EXCEPT FOR PD. 0915-1005 AND PM WAS PC BUT THEN CLEARED AFTER 1815 |
| Jul-17 | |
| Jul-17 Jul-18 | HOTTEST DAY OF 2020 AND HOTTEST SINCE OCT. 3, 2019 WHEN IT WAS 98.4 °F - ALSO HIGH REL. HUMIDITY TODAY |
| Jul-18 Jul-19 | VERY CLEAR AM UNTIL 1110 THEN CUMULUS CAME IN - MOSTLY CLO. WITH CUMULUS FROM NOON TO 1530 THEN MOSTLY CLEAR-A DEW POINT FRONT PASSED AROUND 1000 HOTTEST DAY OF 2020 AND HOTTEST SINCE JULY 21, 2019 WHEN IT WAS 102.3 °F |
| Jul-19 Jul-20 | ABOUT 45 MINS. OF POWER OUTAGE AT 0200-HOTTEST DAY OF 2020-ABOUT 55-65% CLO. ALL DAY |
| Jul-21 | TS RATED 4-2-2 THE TS HAD MUCH LIGHTNING BUT MANY STRIKES IN THE AREA NEAR SPRINGFIELD PARK - AGAIN HOTTEST OF 2020 AND HOTTEST SINCE JULY 21, 2019 WHEN IT WAS 102.3 °F |
| | TS RATED 1-1-2 WITH 0.39 INCHES RAIN AND A 2ND TS WAS ALSO WEAK RATED 1-1-1 WITH 4 THUNDERS 1901, 1905, 1909, 1920 & 0.09 RAIN & A 11 MPH MAX. WIND |
| Jul-22 | |
| Jul-23 Jul-24 | TS RATED 1-3-1 RAIN PD. 2051-2335 TS PASSED TO OUR W AND NW |
| | CLOUDS MADE FOR A LITTLE COOLER DAY BUT IT WAS MORE HUMID WITH 9 PDS OF VERY LIGHT SPRINKLES |
| Jul-25 Jul-26 | VERY CLEAR FROM 0820-1030 WHEN CUMULUS CAME IN AND PC TO 1800 THEN CLEAR AGAIN UNTIL DARK A VERY CLEAR DAY AND HOT BUT WITH LOWER HUMIDITY THAN IS USUAL |
| Jul-27 | A VERY CLEAR HOT DAY WITH LOW HUMIDITY AND A BREEZY AFTERNOON |
| Jul-28 | |
| | A VERY HOT CLEAR DAY WITH CLOUDS AFTER 1730 AND A TS PASSED TO NW OF US-ONE THUNDER HEARD AT 1803 |
| Jul-29 | NOT AS HOT BUT MORE CLOUDS AND MORE HUMIDITY WITH A BREEZY AFTERNOON] |
| Jul-30 Jul-31 | TS RATED 1-1-3 A PM TS THAT PASSED TO OUR WEST. WAS RATED 1-1-1 WITH SOME HEAVY RAIN TO OUR WEST. HOT BUT WITH MORE HUMIDITY WITH AM CIRRUS. AND A CLOUDY PM TS RATED 1-1-2 - THUNDER 1725, 1728, 1731, AND CLOUDY AND HUMID MOST OF THE DAY - THE 3RD PERIOD OF PRECIP.1000 TO 1005 AND A 4TH PERIOD WITH A WEAK TS 1635-1830 |
| DATE | EXTENSION OF LENGTHY DAILY REMARKS |
| Jul-13 | TS RATED 1-1-1 AS ONE DISTANT THUNDER HEARD WHILE LOOKING AT THE MORNING RAINBOW |
| 041-15 | TO WILLS IT THO ONE DIOTHY THOUSENING WHILE LOOKING AT THE WORKING WHILE ON THE WORKING WHILE SO WING WHILE SO WIN |
| Jul-23 | ON THE 23 THE SECOND WIND GUST OF 23 MPH OCCURRED FROM THE WSW |
| | NOTE 2 TS ON THE 22 SO INSTEAD OF 8 TS FOR THE MONTH THERE ARE 9 TS |
| | ALL DEW POINTS THIS MONTH AND THE SUMMER ARE REDUCED BY 2 - 3 DEGREES F AS THE DAVIS INSTRUMENT OVERRATES DEW POINTS. |
| | |
| | |
| II | |
| | |
| | |
| | |
| | The daily records for the month are listed on page # 4 and not found in the remarks. |
| | The link below explains how observations are taken at the Glen Allen Weather Station - Note the Numbers match the column numbers on the Observation Sheet |
| | Rules for making Observations in 2020 |

| Page 4 | West Henrico Co Glen Allen Weather Center 37.65537° N. 77.56929° W Koontz |
|----------|--|
| 41 | DAILY RECORDS FOR THE MONTH |
| July | |
| 2020 | The Glen Allen Station had 12 Records or Record Ties in July 2020 |
| 1 | The daily precipitation on the 1st was 2.95 inches, a new 12 year HIGH daily precipitation record for the date - the old record was 0.73 inches in 2013. |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | The maximum temperature on the 10th was 94.1 °F, a new 12-year daily HIGH maximum temperature record for the date - the old record was 93.1 °F in 2018. |
| 11 | |
| 12 | The daily temperature range on the 12th was 25.6 °F , a new 12-year HIGH daily temperature range record for the date - the old record was 24 °F in 2008. |
| 13 | |
| 14 | |
| 15 | |
| 16 17 | |
| 18 | |
| 19 | The maximum temperature on the 10th was 94.1 °F , a new 12-year daily HIGH maximum temperature record for the date - the old record was 93.1 °F in 2018. |
| 20 | The maximum temperature on the 20th was 100.1 °F , a new 12-year daily HIGH maximum temperature record for the date - the old record was 100 °F in 2019. |
| 21 | |
| 22 | The daily precipitation on the 22nd was 0.46 inches, a new 12-year HIGH daily precipitation record for the date - the old record was 0.11 inches in 2018. |
| 23 | |
| 24 | |
| 25 | |
| 26 | |
| 27 | The maximum temperature on the 27th was 98.3 °F , a new 12-year daily HIGH maximum temperature record for the date - the old record was 98 °F in 2012. |
| 28 | The minimum temperature on the 27th was 75.6 °F , a new 12-year warm daily minimum temperature record for the date - the old record was 74 °F in 2015. The minimum temperature on the 28th was 75.7 °F , a new 12-year warm daily minimum temperature record for the date - the old record was 74.2 °F in 2016. |
| 28 | The maximum temperature on the 28th was 100 °F , a new 12-year warm daily minimum temperature record for the date - the old record was 74.2 °F in 2016. The maximum temperature on the 28th was 100 °F , a new 12-year daily HIGH maximum temperature record for the date - the old record was 97 °F in 2011. |
| 29 | The maximum temperature on the zoni was 100 1, a new 12-year daily mort maximum temperature record for the date - the old record was 37 1 in 2011. |
| 30 | The daily precipitation on the 30th was 0.85 inches, a new 12-year HIGH daily precipitation record for the date - the old record was 0.63 inches in 2012. |
| 31 | The daily precipitation on the 31st was 0.60 inches, a new 12-year HIGH daily precipitation record for the date - the old record was 0.57 inches in 2016. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

July 2020 Springfield Park, Glen Allen, Virginia

July was the hottest on record and tied for the second greatest precipitation total with very clear skies. Only July 2011 had clearer skies in the past 12 years.

The July mean temperature here was 83.2°F a +3.2 °F departure. July had 30 days with 90°F or above temperatures and the maximum temperature for July was 101.2°F recorded on July 21st which is the highest maximum temperature here since July 21, 2019 when 102.3°F was recorded. The highest minimum temperature here for July was 76.9°F on the 20th. On 25 nights the minimum temperature was 70 °F or higher. Springfield Park had 29 consecutive days of ≥90°F from July 3rd to the 31st which was a new record. The average maximum temperature 94.1°F set a new record for July. The lowest minimum temperature was 65.8°F on the 12th which was the 2nd highest on record for July; only 2012 had a higher reading. The high temperature range for July was 27°F on the 3rd and the lowest monthly daily temperature range was 16.6°F on the 7th. The average temperature range for July was 21.8°F which was the 4th highest in the past 12 years.

Springfield Park had 2.95 inches of precip. on the 1st of July which was 51 percent of the month's total and had only ten days with measurable precipitation. The 2.95 inches was the most rain in a calendar day and also broke the record for the most rain in a 24-hour period and the most in one hour. Springfield Park had 5.79 inches of precip. for July and only July 2013 had more precip. This was the wettest July since 2016 which also recorded 5.79 inches. The 0.38 inches of rain that occurred in five minutes on the 1st was the 3rd most intense rain on record for July. The Richmond International Airport had 2.99 inches less rain for the month than Springfield Park

This July's highest wind gust of 23 mph on the 22nd and 23rd is tied for the 2nd lowest on record for July. We had 9 thunderstorms and all were weak in terms of wind.

Richmond International Airport

July was extremely hot and the Richmond International Airport had a mean monthly average of 82.9°F. July was the hottest on record for Richmond in the past 139 years or since 1880. The previous record was 82.8°F in 2010 at the Airport. July also tied Richmond's hottest month which was August 1900 with a mean temperature of 82.9°F. Also, a point of interest. The early temperature records of Richmond are rooftop readings which have a warm bias and we are now exceeding these observations.

The Richmond International Airport's average mean temperature was 82.9°F was a departure of 3.6°F. The lowest max temp was 88°F on July 1st which was the highest on record for the 123-year period and was 5°F more than the previous record. **There were no real breaks from the heat during this July; it was continuous!** The graph shows very few negative departures. The average maximum temperature was 93.6°F, a 3.9°F departure and is the 3rd warmest since 1897. The average minimum was 72.2°F which was a 3.3°F departure and is the 3rd warmest since 1897. The highest min. temp. was 78°F and only 6 years were warmer. The Airport had 22 consecutive days of ≥90°F from the 10th to the 31st and for the month they had 26 days of ≥90°F heat. the Airport record ties the 26 days set in 1993 and 1894 checking records back to 1880. July also had 27 nights the low temperature was 70°F or higher; the average is 14.4 for the 123-year period. The lowest temp recorded during July was 66°F and only 1994 with 67°F was warmer. The lowest daily mean temp. was 77.5°F which is the highest ever recorded for Richmond; the previous record was 77.0°F in 1994.

The Airport had only 2.80 inches as rainfall amounts varied greatly because of thunderstorms. July was the 32nd driest in the past 133 years with a departure of -1.71 inches.

The Richmond International Airport had 5 daily records set in July.

Record High Maximums Jul 19th 101°F Tied the record set in 1942

Record High Minimums Jul 20th 78°F Tied the record set in 2013

Jul 28th 76°F New record – the old record was 75°F in 2006, 1958, 1949, 1919

Record High Daily Mean Jul 19th 88.0°F Tied the record set in 1942

Jul 28th 88.5°F New Record - The old record was 87.5°F in 1941, 1952.

ACON - VA/NC/SC

The Atlantic Coast Observer Network: Virginia, North Carolina, South Carolina

July 2020

Station summary of Climatological Data

Observer: Lowell L. Koontz West Henrico - Glen Allen, VA

Observation Times: Temps Recorded 2400 Precipitation Recorded 2400

TEMPERATURE °F

| MEAN MAXIMUM | 94.10 |
|---------------------|---|
| MEAN MINIMUM | 72.34 |
| MEAN MONTHLY | 83.22 |
| MEAN TEMP DEP. | 3.2 |
| MAXIMUM | 101.2 |
| DATE(s) OF MAX. | Jul-21 |
| MINIMUM | 65.8 |
| DATE(s) OF MIN. | Jul-12 |
| # DAYS MAX. > = 90° | 30 |
| | 0 |
| MIN. < = 32° | 0 |
| MIN. >= 70° | 25 |
| | 71.9 |
| | MEAN MINIMUM MEAN MONTHLY MEAN TEMP DEP. MAXIMUM DATE(s) OF MAX. MINIMUM DATE(s) OF MIN. # DAYS MAX. > = 90° # MAX. < = 32° |

WIND MPH

| L | MAX. GUST | 23 |
|---|-----------------|-----------------|
| M | DIRECT. OF GUST | WNW & WSW |
| N | DATE | Jul 22 & Jul 23 |
| | TIME | 1710 & 2029 |
| | | |

NUMBER DAYS WITH -

| 0 | THUNDER | 9 |
|---|------------------------|---|
| Р | HAIL | 0 |
| Q | GLAZE | 0 |
| R | ICE PELLETS (SLEET) | 0 |
| | DENSE FOG < = 1/4 MILE | 0 |

PRECIPITATION INCHES

| Т | MONTH TOTAL | 5.79 |
|----|---------------------|--------|
| U | CALENDAR DAY MAX. | 2.95 |
| U1 | DATE OF MAX. | Jul-01 |
| ٧ | 24-HR. PERIOD MAX. | 2.95 |
| V1 | DATE(s) OF MAX. PD. | Jul-01 |
| w | # DAYS > = 0.01" | 10 |
| X | # DAYS > = 1.00" | 1 |
| Υ | YR. TO DATE TOT. | 26.91 |
| | MAX. 1 HR. PRECIP. | 2.66 |
| | MAX.5 MIN PRECIP. | 0.38 |
| | | |

SNOWFALL INCHES

| z | DAILY MAXIMUM | 0.0 |
|---|---------------------------|-----|
| 1 | DATE OF MAX. | |
| 2 | DAYS= > TRACE | 0.0 |
| 3 | DAYS > = 1.0" | 0.0 |
| 4 | MONTHLY TOTAL | 0.0 |
| - | | |
| 5 | 2019 - 2020 SEASON'S TOT. | 0.4 |

BAROMETER

| 6 | MAXIMUM | 30.23 |
|-----|-------------------------|---------|
| 6A | DATE | Jul-16 |
| 7 | MINIMUM | 29.72 |
| 7A | DATE | Jul-11 |
| 8 | AVE. MONTHLY PRESSURE | 29.96 |
| CWA | NWS COUNTY WARNING AREA | Henrico |

SPRINGFIELD PARK'S JULY TEMPERATURE & WIND GRAPH 100 99.9 100.1 100.0 98.3 100 97.0 95.5 95 94.3 93.4 90.1 90 90 91.9 91.6 91.6 90.9 91.0 91.2 90.3 90.4 89.7 89.8 89.5 89.1 89.1 89.5 89.3 88.9 88.6 88.6 88.8 88.1 85 75.8 76.9 76.2 75.6 75.7 74.5 74.0 73.4 73.6 73.5 72.6 72.8 73.4 73.2 73. 72.5 71.8 80 71.6 70 71.7 71.3 71.5 70.6 70.6 70.8 70.3 70.2 70.2 70.0 69.4 69.1 75 69.0 68.8 68.0 68.0 60 70 Maximum Wind Speed in MPH Temperature in Degrees 65 60 55 27.0 50 25.8 25.6 25.0 24.1 24.3 22.5 23.1 23.2 23.0 22.6 23.5 22.3 22.7 22. 22.3 21.5 21.6 21.4 21.0 18.4 19.1 45 40 10 4.8 35 1.: 0.8 30 -0.7 -1.6 -2.0 25 -10 20 18 17 -20 17 16 15 15 14 15 -30 02 03 16 19 20 21 22 23 05 06 07 80 09 10 11 12 13 14 15 17 18 24 25 26 27 28 29 30 31 **Days of the Month Low-Departure** High-Departure Max-Wind --- High -Range **⊸**Low ---Ave-High ---Ave-Low