

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
LOCAL CLIMATOLOGICAL DATA

WBAS, RICHMOND, VA.
 BYRD FIELD
 APRIL 1959

Latitude 37° 30' N. Longitude 77° 20' W. Elevation (ground) 162 ft. EASTERN Standard time used

| Date | Temperature (°F) | | | | | Precipitation (Total (in.)) | Snow, Sleet (in.) | Snow, Sleet, or Ice on ground at 7:00AM (in.) | Prevailing direction | Average speed (m. p. h.) | | Fastest mile Speed (m. p. h.) | Direction | Sunshine (Total hours and minutes) | Percent of possible | Sky cover (Sunrise to sunset (tenths)) | Sky cover (Midnight to midnight (tenths)) | Thunderstorm or distant lightning | Weather restricting visibility to ¼ mile or less | Cooling Degree Days (Base 60) | STAGE James River 8:00AM (feet) | Date |
|--|------------------|---------|---------|--------------------------|------------------------------|-----------------------------------|----------------------|---|-------------------------|-----------------------------|---------|-------------------------------------|-----------|--|------------------------|--|---|---|--|----------------------------------|---|------|
| | Maximum | Minimum | Average | Departure from normal | W. Degree days (base 65°) | | | | | Average | Speed | | | | | | | | | | | |
| 1 | 79 | 44 | 62 | +10 | 3 | 0 | 0 | 0 | S | 12.0 | 23 | SE | 12:36 | 100 | 2 | 2 | | | 0 | 2.3 | 1 | |
| 2 | 65 | 42 | 54 | +2 | 11 | .06 | 0 | 0 | S | 12.6 | 21 | SE | 0:00 | 0 | 10 | 10 | T | | 0 | 0.8 | 2 | |
| 3 | 72 | 39 | 56 | +3 | 9 | .11 | 0 | 0 | S | 14.1 | 30 | NW | 8:35 | 68 | 5 | 5 | | | 0 | 0.9 | 3 | |
| 4 | 60 | 40 | 50 | -3 | 15 | .04 | 0 | 0 | WNW | 7.7 | 20 | NW | 8:35 | 67 | 5 | 5 | | | 0 | 0.6 | 4 | |
| 5 | 73 | 35 | 54 | +1 | 11 | 0 | 0 | 0 | S | 10.6 | 21 | SW | 12:46 | 100 | 1 | 2 | | | 0 | 1.4 | 5 | |
| 6 | 71 | 44 | 58 | +5 | 7 | 0 | 0 | 0 | SSW | 10.1 | 22 | NW | 11:49 | 92 | 8 | 6 | | | 0 | 1.4 | 6 | |
| 7 | 75 | 36 | 56 | +2 | 9 | 0 | 0 | 0 | S | 7.5 | 14 | S | 12:49 | 100 | 4 | 3 | | | 0 | 1.9 | 7 | |
| 8 | 89 | 55 | 72 | +18 | 0 | 0 | 0 | 0 | SSW | 11.3 | 17 | SW | 11:29 | 89 | 6 | 3 | | | 0 | 1.9 | 8 | |
| 9 | 90 | 64 | 77 | +23 | 0 | 0 | 0 | 0 | SSW | 10.9 | 17 | SW | 12:54 | 100 | 6 | 3 | | | 11 | 2.1 | 9 | |
| 10 | 84 | 60 | 72 | +17 | 0 | .08 | 0 | 0 | S | 7.9 | 17 | W | 6:34 | 51 | 10 | 8 | | T | | 2.3 | 10 | |
| 11 | 64 | 52 | 58 | +3 | 7 | .14 | 0 | 0 | N | 7.4 | 17 | N | 0:00 | 0 | 10 | 10 | | F | 2 | 2.8 | 11 | |
| 12 | 52 | 36 | 44 | -11 | 21 | 1.54 | 0 | 0 | NNE | 15.2 | 29 | NE | 0:00 | 0 | 10 | 10 | | | 0 | 3.7 | 12 | |
| 13 | 43 | 34 | 39 | -16 | 26 | .03 | 0 | 0 | N | 8.6 | 14 | N | 0:00 | 0 | 10 | 10 | | | 0 | 5.5 | 13 | |
| 14 | 58 | 36 | 47 | -9 | 18 | T | 0 | 0 | NW | 10.0 | 23 | NW | 9:10 | 70 | 5 | 5 | | | 0 | 6.2 | 14 | |
| 15 | 73 | 38 | 56 | 0 | 9 | 0 | 0 | 0 | WSW | 7.4 | 14 | NW | 13:09 | 100 | 2 | 3 | | | 0 | 6.0 | 15 | |
| 16 | 78 | 42 | 60 | +4 | 5 | 0 | 0 | 0 | SW | 6.6 | 12 | SW | 13:11 | 100 | 1 | 1 | | | 0 | 4.3 | 16 | |
| 17 | 83 | 45 | 64 | +7 | 1 | 0 | 0 | 0 | W | 5.1 | 8 | S | 13:14 | 100 | 0 | 0 | | | 0 | 2.7 | 17 | |
| 18 | 83 | 54 | 69 | +12 | 0 | .02 | 0 | 0 | SW | 9.0 | 17 | SW | 9:24 | 71 | 7 | 7 | | | 6 | 1.8 | 18 | |
| 19 | 68 | 59 | 64 | +7 | 1 | .74 | 0 | 0 | S | 7.5 | 14 | S | 0:00 | 0 | 10 | 10 | | T | 5 | 1.2 | 19 | |
| 20 | 79 | 56 | 68 | +10 | 0 | .20 | 0 | 0 | NE | 7.1 | 17 | NE | 3:25 | 26 | 8 | 9 | | | 7 | 1.9 | 20 | |
| 21 | 60 | 49 | 55 | -3 | 10 | .37 | 0 | 0 | NNE | 7.7 | 14 | E | 0:00 | 0 | 10 | 10 | | | 0 | 3.8 | 21 | |
| 22 | 59 | 45 | 52 | -6 | 13 | .17 | 0 | 0 | NE | 10.8 | 19 | NE | 0:00 | 0 | 9 | 10 | | | 0 | 3.4 | 22 | |
| 23 | 57 | 40 | 49 | -10 | 16 | T | 0 | 0 | NW | 7.2 | 15 | NW | 3:41 | 27 | 8 | 6 | | | 0 | 4.1 | 23 | |
| 24 | 74 | 37 | 56 | -3 | 9 | 0 | 0 | 0 | WSW | 6.4 | 15 | NE | 13:29 | 100 | 0 | 0 | | | 0 | 3.5 | 24 | |
| 25 | 78 | 48 | 63 | +4 | 2 | 0 | 0 | 0 | S | 9.9 | 17 | S | 10:39 | 79 | 5 | 5 | | | 1 | 4.0 | 25 | |
| 26 | 84 | 59 | 72 | +13 | 0 | 0 | 0 | 0 | SSW | 10.7 | 19 | S | 12:35 | 93 | 8 | 8 | | | 6 | 4.3 | 26 | |
| 27 | 82 | 62 | 72 | +12 | 0 | T | 0 | 0 | SSW | 8.6 | 17 | SW | 3:22 | 25 | 10 | 9 | | | 8 | 4.0 | 27 | |
| 28 | 63 | 52 | 58 | -2 | 7 | T | 0 | 0 | E | 10.4 | 22 | E | 0:00 | 0 | 10 | 10 | | | 0 | 4.2 | 28 | |
| 29 | 73 | 52 | 63 | +3 | 2 | T | 0 | 0 | SE | 7.0 | 18 | SE | 6:59 | 51 | 8 | 7 | | | 0 | 3.9 | 29 | |
| 30 | 84 | 50 | 67 | +6 | 0 | T | 0 | 0 | SE | 7.2 | 19 | E | 9:58 | 73 | 2 | 3 | | DL | 2 | 3.1 | 30 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | 31 |
| Sum | 1405 | | | | | 4.32 | 0 | | | 274.5 | | | 220:23 | | 190 | 182 | | | 63 | 90.0 | Sum | |
| Avg | 46.8 | | | | | | | | | 9.2 | Fastest | 30 | Dir. | Possible | % | 6.3 | 6.1 | | | 3.0 | Avg. | |
| T in columns 7, 8, 9 and in the Hourly Precipitation table indicates an amount too small to measure. Misc. 30 NW 394:14 56 | | | | | | | | | | | | | | | | | | | | | | |

TEMPERATURE: (°F)
 Average monthly 59.3
 Departure from normal +2.2
 Highest 90 on 9th
 Lowest 41 on 13th
 Number of days with -
 Max. 32° or below 0
 Max. 90° or above 1
 Min. 32° or below 0
 Min. 0° or below 0

HEATING DEGREE DAYS (base 65°):
 Total this month 212
 Departure from normal -59
 Seasonal total (since July 1) 3869
 Seasonal departure from normal -20

BAROMETRIC PRESSURE (In.)
 Avg. station (elev. 164 feet, m. s. l.) 29.820
 Highest sea level 30.25 on 5th
 Lowest sea level 29.39 on 2nd

PRECIPITATION: (In.)
 Total for the month 4.32
 Departure from normal +1.09
 Greatest in 24 hours 1.55 on 12-13
 Snow, Sleet - 0
 Total for the month 0
 Greatest in 24 hours 0 on -
 Greatest depth on ground 0 on -
 Dates of - Hail None
 Sleet None Glaze None

Symbols used in columns 18-19
 A = Hail L = Drizzle
 BS = Blowing snow N = Sand
 DL = Distant lightning R = Rain
 D = Dust S = Snow
 E = Sleet T = Thunderstorm
 F = Fog ZL = Freezing drizzle
 H = Haze ZR = Freezing rain
 K = Smoke

*When this elevation differs from the present station elevation this level was selected to permit comparison of data for a longer period of homogeneous record.

April was the first month of 1959 with above normal precipitation. Although the period from the 10th to the 22nd was rather wet, it was a good month for agriculture, and vegetation made normal progress. No damaging frosts occurred. A new high record for the date was set on the 9th with 90°. NO EXCESSIVE PRECIPITATION.

Experimental calculation of Cooling Degree Days (CDD) and Discomfort Index (DI) was begun April 1, 1959. DI = .55 Temp. + .2 Dew Point + 17.5. "Cooling Degree Days" is equal to the numerical excess of average DI for a day above the base 60.

HOURLY PRECIPITATION (In.)

| Date | A. M. Hour ending at | | | | | | | | | | | | P. M. Hour ending at | | | | | | | | | | | | Date | |
|------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| 3 | | | | | | .06 | .10 | .11 | .07 | .01 | | | | | | | | | | | | | | 3 | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| 5 | .02 | .01 | .01 | T | | | | | | | | | | | | | | | | | | | | 5 | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | 6 | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | 7 | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | 8 | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | 9 | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | 10 | | |
| 11 | T | | | | .01 | T | | | | | | | | | | | | | | | | | T | 11 | | |
| 12 | | T | T | T | T | .01 | .01 | .02 | T | .03 | .14 | .13 | .14 | .03 | .07 | .11 | .21 | .14 | .15 | .14 | .09 | .06 | .01 | T | 12 | |
| 13 | .01 | T | T | T | T | T | T | .01 | | | | | | | | | | | | | | T | T | 13 | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | 14 | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | 15 | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | 16 | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | 17 | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | 18 | | |
| 19 | T | T | .04 | .06 | .04 | .04 | .03 | .11 | .01 | .01 | .01 | .01 | .01 | .01 | T | T | T | T | T | T | T | T | .02 | T | 19 | |
| 20 | .13 | .01 | .01 | T | T | T | T | .01 | | | | | | | | | | | | | | | T | T | .38 | 20 |
| 21 | | | .01 | .01 | T | T | T | T | .01 | T | | | | | | | | | | | | | .06 | .12 | .12 | 21 |
| 22 | .06 | .05 | .03 | .02 | .01 | T | | | | | | | | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | 23 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | 25 |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | 27 |
| 28 | | | | | | | T | T | T | | | | | | | | | | | | | | | | | 28 |
| 29 | T | T | T | | | | | | | | | | | | | | | | | | | | | | | 29 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | 31 |

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