**Reading 4 SW**; Berks County, PA; Lat 40.316251, Lon -75.988661, Elev 320 feet ASL

CoCoRaHS ID: PA-BR-2, Reading 3.5 SW; CWOP ID: FW1703 Observation time: 2359 EST

Observer in Charge: Jeffrey R. Stoudt

Period of Record: Precipitation/Snow - January 1983, Temperatures - June 1984

**July 2023**

DAILY DETAILS (Sundays, monthly extremes in **bold**)

 TEMPERATURES

DAY MAX MIN OBS PCPN SNOW DEPTH REMARKS (all times are military EST)

 1 85 66 72 0.02 Light rain daybreak, midnight; a bit smoky

 **2** 90 71 74 0.97 T-showers(2) w/ downpours early eve

 3 91 70 74 0.06 Shower at crack of dawn

 4 91 73 74 0.01 Light rain before dawn; sprinkle mid-aft’n

 5 **95** 69 77

 6 93 71 73 0.92 Pop-up tropical t-showers forenoon

 7 89 71 73 0.22 T-storms early aft’n; very heavy over city

 8 91 70 72

 **9** **81** 67 67 **4.38** Freq TSTM downpours 1000-1600 then light rain

10 87 64 69 Fog before dawn; otherwise fair weather

11 90 62 69 Good drying stretch through 14th

12 91 65 78

13 94 71 **82**

14 93 75 75

15 94 71 77 0.01 TSTM in area afternoon, but not right here

**16** 86 72 72 1.17 (T-)showers AM, 1” rain in 20 min ending 0220

17 90 67 72 [also 1.17 16 July 2022]

18 88 68 70

19 85 70 72 0.01 Light rain before dawn

20 88 68 75 0.48 At northern edge of hvy pop-up shower mid-aft’n

21 85 65 68 1.00 (exactly) Strong TSTM ~0130, mod-light rain till daybreak

22 85 63 **64**

**23** 90 **61** 70

24 88 67 70 1.85 Drenching gusty TSTM late afternoon

25 82 66 67 0.05 TSTMs wee hours, forenoon skirted around

26 90 62 76

27 94 **76** 80

28 **95** 72 74 0.09 TSTMs dusk > midnight; heavy S then E

29 92 70 70 0.01 TSTM ended by 0010; sprinkle late afternoon

**30** 82 63 65

31 85 **61** 67

SUM 2760 2107 11.25 0.0 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 78.5 (+1.9)

Average Maximum Temperature (Dep): 89.0 (+2.1)

Average Minimum Temperature (Dep): 68.0 (+1.7)

Extreme Daily High Max Temp (Dep): 95 (-1) on 5,28th (record 105 on 22 Jul 2011)

Extreme Daily High Minimum Temp: 76 on 27th (record 82 on 05 Jul 1999)

Extreme Daily Low Min Temp (Dep): 61 (+6) on 23,31 (record 49 on 01 Jul 1988)+

Extreme Daily Low Maximum Temp: 81 on 9th (record 65 on 24 Jul 1997)+

Heating Degree Days (Season): 0 (0)

Cooling Degree Days (Season): 425 (649)

+ Most recent of more than one occurrence

 -- more --

Total Monthly Precipitation (Dep): 11.25 (+5.98)

Total Annual Pcpn through Month: 27.43 (-2.90)

Greatest Calendar Day Pcpn: 4.38 on 9th (record 5.12 12 Jul 2004)

Greatest Floating 24-Hour Pcpn: 4.38 on 9th-9th (rec 5.12 12-12 Jul 2004)

Total Monthly Snowfall (Dep): 0.0 (-0.0)

Total Season Snowfall (Dep): 0.0 (-0.0)

Greatest Calendar Day Snowfall: 0.0 on (record 0.0 on 00 Jul 0000)

Greatest Floating 24-Hour Snowfl: 0.0 on (rec 0.0 on 00-00 Jul 0000)

Maximum Depth of Snow/Ice: 0 on

Days with Hail: 0

Days with Thunder (Dep): 11 (+3)

Highest Wind Gust (MPH): 28 on 2nd

Maximum Barometric Pressure: 30.13 on 26th

Minimum Barometric Pressure: 29.68 on 29th

HIGHLIGHTS

July 2023 at Reading 4 SW brought copious rains on several days, keyed by 4.38” on the 9th, to produce a final total of 11.25” (+5.98) which surpassed 10.32” from 1988 but still a distant second to 15.54” from 2004. Plentiful rains much alleviated severe drought that was in place when this July began. However, torrential rains of 5 to 9 inches within a few hours over Reading (city) and its northern semicircle outward several miles caused severe flooding in these parts and prompted numerous swift- or high-water rescues which were all successful. However, property damage was very heavy. Officially, Reading (RDG) collected 5.35” which edged above 5.32 (7/12/2004) and 5.28 (7/21/1916) for greatest calendar day precipitation in July. Severely heavy rain drenched approximately 2/3 of Berks County that day. Few vicinity of Reading 4 SW rainfalls: Cornwall Terrace (1.3 mile WSW) 5.55, West Lawn (1.2 mile NW) 6.69, Wyomissing (0.9 mile E) 4.05. Providentially, six days with no or little rain and much drying followed this deluge. Several other days this July brought copious rains to only scattered locations which varied geographically among the occurrences. Other heavy rains (GE 1.00) hit Reading 4 SW on 16th, 21st, and 24th and narrowly missed on a few other days. Despite all this rain, minor long-term drought persisted. Two to 3 inches more than normal over the next few months would be needed to completely eradicate the drought. July 2022 rainfall ended high-end normal at 5.79”. July rainfall totals in Berks County ranged widely from 3.5 to 14.5 inches with the majority nearer the higher end. The lowest occurred near the southern and western extremities. The 10.07” final total at RDG placed 5th rainiest July since 1869.

Heat of this July was moderately above normal on average (78.5/+1.9), the same as July 2022, and was bolstered by 11 days which heated to at least 90, the highest of which was a rather modest 95 on 5th and 28th. Also like last July, all 31 days warmed to at least 81. In addition, no day cooled below 61; lowest 61 on 31st. And 14 days failed to cool below 70 of which the warmest low was 76 on 27th. Therefore, both severe heat and unusual cool were denied this July. Instead, the consistency of seasonably very warm or low heat comprised the rather toasty final average of which the average of the daily highs contributed slightly more to the anomaly than the average of the daily lows. Further, high humidity levels with dew points frequently in the 70s exacerbated discomfort and resulted in increased cooling demand. The final average temperature at RDG of 78.1 (+2.0) included extremes of 94 and 62.

RANKINGS AND EXTREMES FOR THIS MONTH (JULY)

Avg Temp 78.5 – 10th (2-way) warmest of 40 (71.9 in 2000 to 81.1 in 2011)

Precip 11.25 – 2nd wettest of 41 (0.29 in 1999 to 15.54 in 2004)

Snowfall 0.0 – Snow was never observed here during July.