**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 2024**

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

TEMPERATURES

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

1. **81** 62 **65**
2. 87 **58** 71

3 88 62 69

4 94 67 76 0.51 Early to mid-evening showers, little thunder

5 95 74 **81** 0.02 Brief shower ~1405; brief heavy fog early

6 97 **80** 80 0.01 Light shower during dawn

**7** 95 73 73

8 98 68 **81**

9 98 75 79 0.16 VCTS 1400-1830, brief downpour ~1427

10 96 77 78 0.33 TSTM late eve, 3-min intense rain ~2152

11 83 68 68

12 83 66 75 0.03 Light rain after 0700, much more off than on

13 93 73 76 **2.08** Rain, some very heavy till daybreak

**14** 94 73 78 0.05 VCTS forenoon > early afternoon, mainly to N

15 98 73 **81**

16 **100** 74 74 0.61 Aft’n TSTM, 1½ hours fair wx, early eve TSTM

17 94 71 71 0.91 VCTS much of aft’n into eve, hvy rain 1800-1830

18 85 67 67

19 86 62 67

20 85 65 71

**21** 92 67 74 0.11 Few drops ~1340; TSTM to S after 2300

22 84 68 72 0.91 N edge of TSTM complex, flooding to S b4 dawn

23 87 70 75 0.05 Shower around midnight

24 88 73 76 0.01 Light rain predawn; few later traces

25 85 68 68

26 85 63 70

27 88 60 **65**

**28** 89 59 68

29 89 65 74

30 88 73 77 T Drizzle at 2200

31 94 75 75 T Very light rain 0700 hour

SUM 2799 2129 5.79 0.0 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 79.5 (+2.9)

Average Maximum Temperature (Dep): 90.3 (+3.4)

Average Minimum Temperature (Dep): 68.7 (+2.4)

Extreme Daily High Max Temp (Dep): 100 (+4) on 16th (record 105 on 22 Jul 2011)

Extreme Daily High Minimum Temp: 80 on 6th (record 82 on 05 Jul 1999)

Extreme Daily Low Min Temp (Dep): 58 (+3) on 2nd (record 49 on 01 Jul 1988)+

Extreme Daily Low Maximum Temp: 81 on 1st (record 65 on 24 Jul 1997)+

Heating Degree Days (Season): 0 (0)

Cooling Degree Days (Season): 458 (952)

+ Most recent of more than one occurrence

-- more --

Total Monthly Precipitation (Dep): 5.79 (+0.52)

Total Annual Pcpn through Month: 31.90 (+1.57)

Greatest Calendar Day Pcpn: 2.08 on 13th (record 5.12 12 Jul 2004)

Greatest Floating 24-Hour Pcpn: 2.11 on 12th-13th (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): 8 (-0)

Highest Wind Gust (MPH): 22 on 10th

Maximum Barometric Pressure: 30.28 on 2nd

Minimum Barometric Pressure: 29.70 on 10th

HIGHLIGHTS

The pattern of frequent heat that developed during June continued through July. Cool temperatures were very brief and not unusual. Fourteen days heated to at least 90 degrees, above the average of 10 days, and the highest of which was 100 on the 16th. Besides, all 31 days warmed to at least 80 for the third consecutive July, the coolest daily high of which was 81 on the 1st. On the low temperature side, only two days cooled below 60, the lower of which was 58 on the 2nd. In contrast, 14 days failed to cool below 70, including a daily low of 80 on the 6th. This was one of five days in 41 years of continuous temperature records that failed to cool below 80, the warmest 82 on 5 July 1999. Therefore, warmth was certainly dominant with a final average temperature of 79.5 (+2.9) which placed fifth warmest of 41. The average of the daily highs, 90.3 (+3.4), contributed more to the anomaly than the daily lows average of 68.7 (+2.4). Further, much of the heat was accompanied by dew points in the 70s to 80 and resulted in feels-like temperatures several degrees hotter. July 2023 averaged 78.5 with extremes of 61/95. July 2022 averaged the same. Officially for Reading PA (RDG), the average temperature was similar at 79.3 with extremes of 59/98.

Despite a few dry periods, rainfall totaled slightly above the 1991-2020 30-year average of 5.27” at 5.79, which was welcome after moderately dry May and June, and was keyed by 2.11” during the midnight and predawn periods of the 12th-13th. Thunder was observed on eight days, which is average, but none during that overnight rainstorm. Substantial rain from thunderstorms occurred on 4th, 16th, 17th, and 22nd. And four other days with thunder had only minor rain. Areal downpours were hit or miss in character and resulted in large variability of rainfall amounts within and near Berks County. The few that hit Reading 4 SW missed many others and vice-versa. The moderate rainfall of 0.51” at Reading 4 SW the evening of 4 July was much exceeded and disruptive to nearby N where RDG collected 1.62, but reached around 2” over northern Reading, mostly in an hour, and halted the minor league baseball game, but the “Mega” fireworks show at the stadium still went on. A “surprise” thunderstorm complex during predawn of the 22nd brought 0.91” to Reading 4 SW but 2 to nearly 5” few to several miles to E and SE where some flooding was reported. July 2023 at Reading 4 SW was very wet at 11.25”, keyed by 4.38” on the 9th. July 2022 collected the same 5.79” as this July. Berks County July total rainfalls varied widely from around 2” to nearly 10” with greater amounts mainly interior southern Berks and most of lowest in western and north-central Berks, and included 5.19” at RDG.

RANKINGS AND EXTREMES FOR THIS MONTH (JULY)

Avg Temp 79.5 – 5th warmest of 41 (71.9 in 2000 to 81.1 in 2011)

Precip 5.79 – 16th (2-way) wettest of 42 (0.29 in 1999 to 15.54 in 2004)

Snowfall 0.0 – Snow was never observed here during July.