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

**September 2019**

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

 TEMPERATURES

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

 **1** 80 60 68

 2 83 65 66 **1.36** [LaborDay] VCTS at times 0600 to 2000; downpour 0640-0720…

 3 84 61 67 …few near-miss downpours PM

 4 90 65 70

 5 76 62 63

 6 68 55 55

 7 79 51 63

 **8** 80 55 67

 9 83 62 67

10 85 63 68

11 **91** **67** **75** 0.05 VCTS toward sunset at times till midnight

12 88 62 62 0.54 Light showers b4 dawn; VCTS ~1500 then rain/…

13 **66** 61 63 0.03 …at times overnight, then less frequent

14 74 61 66 0.02 Little rain midday

**15** 83 64 66 Foggy around daybreak

16 82 64 69

17 79 56 56

18 75 50 54

19 72 47 48

20 79 **44** 56

21 87 51 62

**22** 89 59 74

23 **91** **67** 68 0.09 Sprinkles late day; moderate shower early night

24 78 55 55

25 81 50 58

26 80 55 56 0.07 Early, mid-afternoon light showers

27 78 49 61

28 82 56 70 0.02 TSTM complex in vicinity dusk to late evening

**29** 82 64 66

30 70 60 64 0.02 Sprinkle forenoon; light rain/drizzle early eve

31 -- -- --

SUM 2415 1741 2.20 0.0 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 69.3 (+2.7)

Average Maximum Temperature (Dep): 80.5 (+3.5)

Average Minimum Temperature (Dep): 58.0 (+1.9)

Extreme Daily High Max Temp (Dep): 91 (+1) on 11,23 (record 97 on 02 Sep 2010+)

Extreme Daily High Minimum Temp: 67 on 11th (record 76 on 09 Sep 2016+)

Extreme Daily Low Min Temp (Dep): 44 (+2) on 20th (record 35 on 29 Sep 2000)

Extreme Daily Low Maximum Temp: 66 on 13th (record 53 on 28 Sep 1984)

Heating Degree Days (Season): 15 (15)

Cooling Degree Days (Season): 151 (1220)

+ Most recent of more than one occurrence

 -- more --

Total Monthly Precipitation (Dep): 2.20 (-2.92)

Total Annual Pcpn through Month: 50.92 (+11.80)

Greatest Calendar Day Pcpn: 1.35 on 2nd (record 5.95 19 Sep 1999) Greatest Floating 24-Hour Pcpn: 1.35 on 2nd-2nd (rec 6.83 30-01 S-O 2010)

Total Monthly Snowfall (Dep): 0 (-0.0)

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

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

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

Maximum Depth of Snow/Ice: 0

Days with Hail: 0

Days with Thunder (Dep): 4 (+1)

Highest Wind Gust (MPH): 18 on 24th

Maximum Barometric Pressure: 30.43 on 15th

Minimum Barometric Pressure: 29.75 on 28th

HIGHLIGHTS

September 2019 at Reading 4 SW was moderately warmer than normal and substantially drier than normal. After a benign Sunday the 1st, Labor Day the 2nd began stormy with a heavy thunderstorm soon after daybreak which poured 1.3” in 40 minutes as a warm front pushed into then stalled over the area. The sun broke through by noontime, but scattered new thunderstorms developed early afternoon and prowled near enough to the south for occasional distant thunder to be audible. Those moved away in time for late afternoon to be quiet. But new cells developed all around early evening and delivered another inch or so of rain to some neighborhoods within a few miles but only one more hundredth here. The unsettled weather suppressed many outside Labor Day activities. And attendance was very low at swimming pools, which are normally crowded on Labor Day. The rest of September brought long dry periods but was punctuated by a few episodes of unsettled weather toward mid-month and again near month end. Showers and thunderstorm downpours were more miss than hit on the 11th, 12th, and 28th. While few places in the Reading area got locally heavy rain, most, including Reading 4 SW, received only light to moderate rains. As it turned out, 1.3 of the whole month total of 2.20 at Reading 4 SW fell within 40 minutes Labor Day morning. September 2019 finished at 9th driest September in 37 years. A majority of Berks County, including Reading 4 SW, had monthly totals close to 2”. But a peppering of locales, where downpours hit more often, collected closer to 3”, including 3.30 at Mohnton, 2.5 miles south of Reading 4 SW. The official final accumulation for Reading (RDG) was 2.01. September last year (2018) was much wetter with 7.56.

September 2019 averaged moderately warmer than normal at 69.3, which now ranks seventh warmest of 36. The monthly extremes of 91 and 44 were typical. A majority of fair-weather days of plenteous sunshine and clear, calm nights fostered many summery daily highs in the 80s to low 90s but also several rather cool lows. The result was the average of the daily highs further above normal (+3.5) than the average of the daily lows (+1.9). The northern edge of Hurricane Dorian’s cloud shield covered the sky (and sun) from dawn to dusk of the 6th, sandwiched between two clear nights, which optimized cooling that day and night. Also, a few shallow incursions of cool air from the north prevented this September from being exceptionally warm like it was over U.S. regions to the south and west. The official average temperature at RDG was also 69.3, which was not nearly warm enough to rank in the top ten warmest of 122. September 2018 was warmer, averaging 70.5 at Reading 4 SW with extremes of 94/49.

RANKINGS AND EXTREMES FOR THIS MONTH (SEPTEMBER)

Avg Temp 69.3 – 7th warmest of 36 (63.7 in 2000 to 71.2 in 2005)

Precip 2.20 – 9th driest of 37 (0.83 in 2005 to 13.56 in 1999)

Snowfall 0.0 – Snow was never observed here during September.