**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

**October 2020**

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

 TEMPERATURES

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

1. 73 56 58

 2 68 46 46 0.12 Light rain before 0700, AM min temp 56

 3 66 42 44

 **4** 69 39 49

 5 62 47 47 0.03 Light rain predawn, dawn

 6 72 42 61

 7 **80** 51 59

 8 67 44 44

 9 74 40 58

10 75 53 64

**11** 68 58 58 0.24 Rain PM, all measurable after dusk

12 58 52 55 0.67 Frq rain till dawn then ocnl lgt rain, drizzle

13 64 47 47 0.14 Ocnl lgt rain, drizzle AM; clearing sunset

14 73 40 52

15 77 47 **67**

16 67 49 49 0.02 Occasional light rain early and mid-morning

17 61 37 38

**18** 67 33 54

19 69 49 58

20 76 57 57

21 74 56 61 T Morning fog (1/4 mi), drizzle then clearing

22 75 **61** 63 0.01 Ditto; foggy again late evening

23 74 60 64 T Dense fog, drizzle before dawn

24 72 46 46 T Feeble drops early afternoon

**25** 52 41 45 0.23 Occasional light rain, drizzle forenoon onward

26 58 45 56 0.16 Light rain, drizzle AM, foggy late PM

27 60 52 54 0.01 Foggy early midnight; light rain late midnight

28 57 52 53 0.10 Light rain AM

29 54 47 47 **1.18** Frequent rain, drizzle

30 50 37 38 0.45 Rain, drizzle AM; stray sprinkle late aft’n

31 **47** **32 37**

SUM 2059 1458 3.36 0.0 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 56.7 (+2.1)

Average Maximum Temperature (Dep): 66.4 (+1.2)

Average Minimum Temperature (Dep): 47.0 (+2.9)

Extreme Daily High Max Temp (Dep): 80 (-2) on 7th (record 94 on 02 Oct 2019)

Extreme Daily High Minimum Temp: 61 on 22nd (record 74 on 08 Oct 2017)

Extreme Daily Low Min Temp (Dep): 32 (+1) on 31st (record 22 on 31 Oct 2000)

Extreme Daily Low Maximum Temp: 47 on 31st (record 38 on 30 Oct 2003)

Heating Degree Days (Season): 258 (325)

Cooling Degree Days (Season): 8 (1302)

+ Most recent of more than one occurrence

 -- more --

Total Monthly Precipitation (Dep): 3.36 (-1.04)

Total Annual Pcpn through Month: 45.48 (+2.03)

Greatest Calendar Day Pcpn: 1.18 on 29th (record 7.24 on 08 Oct 2005)

Greatest Floating 24-Hour Pcpn: 1.41 on 29-30th (rec 7.83 on 07-08 Oct 2005)

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

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

Greatest Calendar Day Snowfall: 0.0 on (record 5.5 on 29 Oct 2011)

Greatest Floating 24-Hour Snowfl: 0.0 on (rec 5.5 on 29-29 Oct 2011)

Maximum Depth of Snow/Ice: 0 on

Days with Hail: 0

Days with Thunder (Dep): 0 (-1)

Highest Wind Gust (MPH): 24 on 7th

Maximum Barometric Pressure: 30.56 on 31st

Minimum Barometric Pressure: 29.52 on 29th

HIGHLIGHTS

October 2020 brought no really unusual weather at Reading 4 SW. The month was moderately both warmer and drier than average. Daily temperature departures from normal were small except for a four-day period from the 20th to 23rd inclusive, which each had a departure in the range of plus 12 to 16, bolstered by maximums in the middle 70s and minimums in the upper 50s or low 60s. It was these four days which tipped the monthly average temperature to the warmer side of average at 56.7 (+2.1). Officially for Reading (RDG), this October’s average temperature was a very similar 56.8. Several mild minimums contributed more to the anomaly than warm maximums. The warmest of which was a modest 80 on the 7th. Not all the minimums were mild. Four in the 30s is typical, including 33 on the 18th with moderate frost (non-killing) then 32 on the 31st with light frost and was non-killing probably because it came as a brief downward spike from the middle 30s during dawn when conditions became briefly clear and calm after an overnight of patchy cloudiness with some wind. Nevertheless, the very short duration of freezing ended the statistical growing season. The aforementioned stretch of warmth was also moist which allowed radiational dense fog and drizzle to form toward dawn after clear and calm overnights of the 21st, 22nd, and 23rd. Said fog and low stratus clouds persisted till late afternoon and prevented full warming to near record maximums in the low or middle 80s that some counties to the north and west observed where days were mostly sunny. Heavy or dense fog occurred on three additional days, 26th to 28th, but with cooler temperatures and light rain. October 2019 averaged warmer at 58.3 with extremes of 94 and 34.

Rainfall was rather scant through the 28th, during when only 1.73” accrued. For the second consecutive month, copious rains fell during the 29th into the 30th, 1.63 this October. For both months, the end-of-month rain rallies fell short of erasing the substantial deficiencies that had accrued heretofore. This October, the precipitation count ended at 3.36, 1.04 short of the 4.40 long-term mean but only slightly below the median. October 2019 was much wetter at 8.28. A quasi-stationary frontal zone over Pennsylvania supported the aforementioned rainstorm. However, moisture from the remnant low, which was Hurricane Zeta and passed well south of Pennsylvania, contributed somewhat during the early part of this rainstorm. October rainfall totals in Berks County were subnormal throughout and nearly all in the range of 2¼ and 3¾ inches, including 2.40 at RDG. An exception was 4.40 on the ridgetop of Blue Mountain at 1388 feet ASL near the western tip of Berks County, a few miles NW of Bethel village.

RANKINGS AND EXTREMES FOR THIS MONTH (OCTOBER)

Avg Temp 56.7 – 12th (2-way) warmest of 37 (49.7 in 1987 to 62.5 in 2007)

Precip 3.36 – 18th driest of 38 (0.83 in 2001 to 12.83 in 2005)

Snowfall 0.0 – Least (35-way) of 38 (0.0 in 35 years to 5.5 in 2011)