**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

**November 2019**

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

 TEMPERATURES

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

 1 52 35 35 0.02 Final light shower from 31 Oct eve before 0200

 2 53 30 34

 **3** 54 31 32

 4 58 29 46

 5 61 **39** 48

 6 55 34 38

 7 53 38 39 0.26 Rain, mainly light, forenoon to early evening

 8 42 26 26 T T 0 Snow shower ~0715

 9 42 21 32

**10** 52 31 38

11 **64** 33 **56**

12 56 25 **25** 0.20 Rain predawn to 0700

13 **34** **20** 28

14 42 24 31

15 51 26 39

16 43 25 26

**17** 44 25 37

18 47 35 39 T Few drops mid-afternoon

19 52 36 40

20 52 **39** 42

21 54 **39** 48 T Few drops toward midnight

22 51 34 34 0.05 Light rain forenoon, drizzle noon hour

23 43 28 37 0.26 Rain after 1800

**24** 47 34 36 **0.77** T 0 Rain overnight, ended mixed with snow forenoon

25 55 31 36

26 62 31 36

27 60 36 50 T Few sprinkles afternoon

28 51 **39** 39 T Few sprinkles before sunrise THANKSGIVING

29 41 33 35

30 42 30 31

31

SUM 1513 987 1.56 T 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 40.8 (-4.2)

Average Maximum Temperature (Dep): 50.4 (-3.8)

Average Minimum Temperature (Dep): 31.2 (-4.5)

Extreme Daily High Max Temp (Dep): 64 (-9) on 11th (record 81 on 03 Nov 2003)

Extreme Daily High Minimum Temp: 39 on 4 diff days (record 64 on 06 Nov 2015)

Extreme Daily Low Min Temp (Dep): 20 (-1) on 13th (record 14 on 23 Nov 2018)

Extreme Daily Low Maximum Temp: 34 on 13th (record 30 on 22 Nov 2018)+

Heating Degree Days (Season): 716 (957)

Cooling Degree Days (Season): 0 (1247)

+ Most recent of more than one occurrence

 -- more --

Total Monthly Precipitation (Dep): 1.56 (-2.57)

Total Annual Pcpn through Month: 60.76 (+13.04)

Greatest Calendar Day Pcpn: 0.77 on 24th (record 2.91 08 on Nov 1996) Greatest Floating 24-Hour Pcpn: 1.03 on 23rd-24th (rec 2.98 8-9 on Nov 1996)

Total Monthly Snowfall (Dep): T (-0.6)

Total Season Snowfall (Dep): T (-0.6)

Greatest Calendar Day Snowfall: T on 8th, 24th (record 5.6 on 15 Nov 2018)

Greatest Floating 24-Hour Snowfl: T on 24th-24th+ (rec 5.6 on 15-16 Nov 2018)

Maximum Depth of Snow/Ice: 0

Days with Hail: 0

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

Highest Wind Gust (MPH): 34 on 27th

Maximum Barometric Pressure: 30.46 on 16th

Minimum Barometric Pressure: 29.40 on 24th

HIGHLIGHTS

An abrupt weather change from warm and wet to cold and dry occurred only a few hours before the beginning of November 2019 at Reading 4 SW, resulting in a temperature departure of +15 on 31 October, then -5 on 1 November. Only 3.5 hours delay of that cold front passage would have resulted in 1.02 more precipitation and a month extreme maximum temperature of 77 rather than 64. Only one November in 36 had a lower extreme maximum, 62 during November 1997. Twenty-nine of the 36 had a maximum of at least 70. The timing of this November’s 64 was favorable; it occurred on Veterans’ Day, the 11th. Below normal departures then dominated with a few greater than 10. Above normal departures were few, and none was by much. The result was the third coldest November of 36 with a final average of 40.8 (-4.2). Only the back-to-back Novembers of 1995 and 1996 were colder at 38.3 and 38.8 respectively. Historically, Reading (RDG) ended eleventh coldest of 122 at 40.6. The cold was keyed by a minimum of 20 on the 13th; 19 at RDG was a new date record low, besting 21 from 1976. Cold was more anomalous during the first half with a running average of 40.3 at the midpoint. Then the second half still averaged slightly colder than normal, but was not as cold as the first during a month which normally trends colder. Thanksgiving Day, the 28th, might appear mild on paper with a departure of +3, but it actually felt much cooler due to wind and cloudiness. November last year (2018) averaged cold also at 41.5 (-3.5) and was keyed by a new record for the coldest Thanksgiving Day in at least 122 years.

Precipitation was rather scarce and quite deficient with a final total of only 1.56 (-2.57) and good for fourth driest of 37. Of that, 1.03 fell within 24 hours, mainly from evening of 23rd to midday of the 24th and ended mixed with snow which did not accumulate at Reading 4 SW, but did cover the ground briefly with up to 3 inches one county to the west and south. One other trace of snow, a brief snow shower morning of the 8th, was quite early and only six days after the first freeze of fall. Precipitation totals in Berks County were all deficient in a rather narrow range of 1.33 to 2.05; RDG was lowest of 50-some reports at 1.33. In contrast, November 2018 became the new wettest at 9.50 and included the melt of a record November snowfall of 5.6 at midmonth.

RANKINGS AND EXTREMES FOR THIS MONTH (NOVEMBER)

Avg Temp 40.8 – 3rd Coldest of 36 (38.5 in 1995 to 49.6 in 2015)

Precip 1.56 – 4th driest of 37 (1.17 in 2012 to 9.50 in 2018)

Snowfall T – 10th Least (15-way) of 37 (0.0 in 9 years to 5.6 2018)

Statistical (meteorological) autumn (months SON) 2019 averaged 56.2 (+0.9) in temperature with 12.04” (-1.61”) precipitation and with a trace of snow. Temperatures ranged from 94 on 2 October to 20 on 13 November. Rainiest day was 1.75 on 16 October. Cold November did not quite offset warm September and October, and wet October did not quite make up for the deficits of September and November.