**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

**June 2023**

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

TEMPERATURES

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

1 93 49 65

2 **97** 57 70 T Vicinity showers to west PM

3 84 61 61 0.02 T-storm sideswipe to west early evening

**4** 81 56 56

5 81 49 59

6 85 51 58 0.01 VCTS N-NE mid-aft’n, W-SW late-aft’n

7 76 50 **52** Smoke pollution from Quebec, vsby down to ¾ mi

8 77 **45** 61 Smoke decreased during the day

9 76 52 56 0.04 Showers in vicinity early evening

10 85 51 62

**11** 90 58 **76**

12 80 62 62 **1.32** Showers, midday-sunset; steady & heavy 1700 hr

13 79 55 61

14 78 58 63 0.19 Rain late morning; VCTS SW-E, N-NE early aft’n

15 80 55 59

16 75 56 63 0.17 Strong, heavy TSTM S-SE 1000 hour

17 82 59 60

**18** 85 53 62

19 88 57 69

20 83 66 66

21 75 60 60 0.05 Light rain during evening, mostly late

22 **69** 60 66 0.01 Little rain, drizzle early daylight

23 71 65 69 0.09 Occasional drizzle, showers; faint T to W ~1550

24 88 **69** 72 0.69 Showers heavy late morn, light few other times

**25** 88 67 70 0.01 VCTS most of afternoon, missed downpours

26 90 68 69 0.11 VCTS most of calendar day but no rain till late

27 83 66 67 0.34 VCTS most of PM, only brief downpour sideswipe

28 81 62 65 Light smoke from Quebec wildfires

29 84 60 63 Smoke heavier all day, visibility down to 2 mi

30 87 59 69 Continued smoky

31 -- -- --

SUM 2471 1736 3.05 0.0 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 70.1 (-1.8)

Average Maximum Temperature (Dep): 82.4 (-0.1)

Average Minimum Temperature (Dep): 57.9 (-3.5)

Extreme Daily High Max Temp (Dep): 97 (+3) on 2nd (record 100 on 15 Jun 1988)

Extreme Daily High Minimum Temp: 69 on 24th (record 77 on 28 Jun 1999)

Extreme Daily Low Min Temp (Dep): 45 (-2) on 8th (record 38 on 03 Jun 1986)

Extreme Daily Low Maximum Temp: 69 on 22nd (record 59 on 02 Jun 2015)+

Heating Degree Days (Season): 7 (4276)

Cooling Degree Days (Season): 167 (224)

+ Most recent of more than one occurrence

-- more --

Total Monthly Precipitation (Dep): 3.05 (-2.26)

Total Annual Pcpn through Month: 16.18 (-8.88)

Greatest Calendar Day Pcpn: 1.32 on 12th (record 3.64 on 19 Jun 2019)

Greatest Floating 24-Hour Pcpn: 1.32 on 12th-12th(rec 4.87 on 19-20 Jun 2019)

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

Total Season Snowfall (Dep): 3.7 (-24.6)

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

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

Maximum Depth of Snow/Ice: 0 on

Days with Hail: 0

Days with Thunder (Dep): 8 (+1)

Highest Wind Gust (MPH): 27 on 14th

Maximum Barometric Pressure: 30.21 on 21st

Minimum Barometric Pressure: 29.46 on 14th

HIGHLIGHTS

Rainfall after a record-breaking dry May continued very scarce until 12June when midday-to-sunset showers, which were heavy early evening, delivered 1.32” of sorely needed rain. That slight relief was brief. Downpours became numerous regionally thereafter, but were almost all miss at Reading 4 SW. Few which hit were brief. The resulting June final rainfall of 3.05” was 2.26” subnormal. Therefore, the severe drought worsened locally despite ample to excessive rains within parts of the region, especially in the Delaware Valley including Wilmington, Philadelphia, and Easton areas where drought was quickly ended. Precipitation through first half (Jan-Jun) of 2023 reached only 16.18”, which is well under the previous lowest of 17.32” in 2012 during 41 years of continuous record at Reading 4 SW. This June became fourth consecutive with subnormal rainfall. Thunder was observed eight or nine days in the Reading area, slightly above average, but was mostly faint and distant, none really close. Rain totals in Berks County ranged from slightly under 3 to over 7 inches, greatest near borders with Lebanon, Schuylkill, and Chester Counties and least within a few miles of Reading 4 SW. Officially, Reading (RDG) collected 3.76.

June began with a pair of “shiver to swelter” days with lows of 49 and 57 coupled with highs of 93 and 97 with ranges of 44 and 40 degrees respectively and marked three consecutive days with ranges of at least 40 (44/86 on 31 May). Ranges of at least 40 have been rare, as is desert-like conditions which there is very little water available to evaporate. Remaining 28 days had much smaller ranges and were mostly seasonable or cooler, keyed by low of 45 on 8th and high of 69 on 22nd, which resulted in a cool final average of 70.1 (-1.8). Numerous cool daily low temperatures contributed to most of the temperature deficiency. June 2022 averaged a low-end normal 71.7 with extremes of 47/94. RDG officially averaged 69.8 (-1.8) with extremes of 45/96 of which 96 on 2nd bettered the 95 from 1925. Both Reading 4 SW and RDG marked coolest June since 2009 this year.

RANKINGS AND EXTREMES FOR THIS MONTH (JUNE)

Avg Temp 70.1 – 7th coolest of 40 (68.3 in 2003 to 75.2 in 2010)

Precip 3.05 – 11th driest of 41 (1.15 in 1986 to 9.73 in 2007)

Snowfall 0.0 – Snow was never observed here during June.

The snow and heating years ended 30 June. Of the meager total of 3.7” (-24.6), 2.9” came within 3 hours on 25 January then melted within 12 hours. A few brief minor coatings during Dec, Jan, and Feb accounted for the remaining 0.8”. Only the 3.6” of 2019-2020 was less. Heating Degree Days (HDD) totaled 4276 (normal 4957) and was second least to only 3999 during 2011-2012. The greatest month this season was December with 903 keyed by three-day arctic blast at Christmastime.