**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

**August 2023**

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

 TEMPERATURES

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

 1 82 60 60

 2 83 57 64

 3 85 61 70 0.06 Showers in vicinity early evening

 4 82 68 70

 5 86 69 70

 **6** 90 65 72 0.20 Showers late evening into post-midnight

 7 88 68 69 0.69 Sprinkle forenoon; TSTM early eve, strong ~1745

 8 84 69 70

 9 89 65 70

10 78 66 66 0.03 Occasional light rain daybreak to forenoon

11 88 62 64

12 **92** 62 69 **1.48** VCTS mid-aft (T); strong TSTM near midnight

**13** 88 67 68 T TSTM ended few minutes after cal. day rollover

14 88 66 74 T Few drops near sunset

15 89 **71** 74 0.45 Heavy shower ~0135 (0.43); light ~ 2008 (0.02)

16 86 67 67 T Light rain in area shortly after midnight

17 90 65 **76** T Fog (1/4 mi), little drizzle at daybreak

18 81 64 65 0.46 Showers in area 03 hr, very heavy few min ~0327

19 81 **56** 61

**20** 88 57 68

21 89 65 76

22 82 61 61

23 78 57 69

24 **75** 68 68 0.12 Showers, drizzle at times daylight hours

25 87 68 74 0.40 T-showers predawn then light rain till 0800

26 87 68 68

**27** 86 63 73

28 80 66 67 0.23 Showers post-midnight (much before dawn)

29 80 67 73

30 84 66 66 0.12 Showers dawn to daybreak

31 80 58 **58**

SUM 2626 1990 4.24 0.0 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 74.5 (-0.1)

Average Maximum Temperature (Dep): 84.7 (-0.1)

Average Minimum Temperature (Dep): 64.2 (-0.1)

Extreme Daily High Max Temp (Dep): 92 (-2) on 12th (record 101 on 2 Aug 2002)

Extreme Daily High Minimum Temp: 71 on 15th (record 81 on 02 Aug 2006)

Extreme Daily Low Min Temp (Dep): 56 (+3) on 19th (record 42 on 30 Aug 1986)

Extreme Daily Low Maximum Temp: 75 on 24th (record 61 on 21 Aug 2007)

Heating Degree Days (Season): 0 (0)

Cooling Degree Days (Season): 301 (950)

+ Most recent of more than one occurrence

 -- more --

Total Monthly Precipitation (Dep): 4.24 (-0.42)

Total Annual Pcpn through Month: 31.67 (-3.32)

Greatest Calendar Day Pcpn: 1.48 on 12th (record 4.44 31 Aug 2018)

Greatest Floating 24-Hour Pcpn: 1.48 on 12th-13th (rec 4.47 31-01 A-S 2018)

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 Aug 0000)

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

Maximum Depth of Snow/Ice: 0 on

Days with Hail: 0

Days with Thunder (Dep): 5 (-1)

Highest Wind Gust (MPH): 29 on 12th

Maximum Barometric Pressure: 30.25 on 2nd

Minimum Barometric Pressure: 29.61 on 10th

HIGHLIGHTS

August 2023 at Reading 4 SW averaged low-end normal in temperature at 74.5°F (-0.1). And the averages of the daily highs and lows of 84.7 and 64.2 respectively both departed -0.1 from normal. The month’s warmest of 92 on 12th and coolest of 56 on 19th were slightly less extreme than usual. Further, only three days heated to at least 90 and only one day failed to cool below 70 to reinforce the idea of a mild summer month of temperatures. Last August (2022) was much warmer at 78.4 which included 18 days that heated to at least 90. Officially for Reading PA (RDG), temperatures averaged to 74.3 with extremes of 90/56.

Rainfall this August accumulated to 4.24”, which is slightly below the 1990-2020 30-year average of 4.66 and included a typical distribution of showers and thunderstorms. However, the great majority of heavy showers and thundershowers occurred sometime between around midnight and dawn rather than the climatologically favored mid-afternoon to mid-evening period of day, and was keyed by a heavy thunderstorm downpour of 1.48” between midnight EDT (11 PM of 12th EST) and midnight EST of the 12th. As a result, nearby stations whose observational days end at midnight EDT had most or all the rain having fallen on the 13th. August 2022 was extremely dry with only 0.45” of rain. August rainfall totals in Berks County were mostly in the range of 3 to 5 inches, greatest 5.65” at Hamburg. So there were no really hefty date or monthly total rainfalls in the County which resulted in no worse than isolated minor flooding. RDG collected 3.72” (-0.77).

RANKINGS AND EXTREMES FOR THIS MONTH (AUGUST)

Avg Temp 74.5 – 16th (3-way) coolest of 40 (69.7 in 1992 to 78.4 in 2022)

Precip 4.24 – 23rd driest of 41 (0.22 in 1995 to 17.08 in 2018)

Snowfall 0.0 – Snow was never observed here during August.

Statistical summer (months JJA) averaged 74.4°F (exactly normal) in temperature, with extremes of 97 and 45 only six days apart on 2 and 8 June respectively. The summer brought 24 days that heated to at least 90 which is slightly above average. Precipitation totaled 18.54” (+3.31), bolstered by 11.25” during July which was keyed by 4.48” on 9 July. Rains of 6 to 9 inches within a few hours that same day several miles to NE caused severe flooding there.