**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

**July 2021**

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

TEMPERATURES

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

1 81 69 69 1.08 Rain after 0900; drenching TSTM 1330-1345

2 81 62 62 0.02 Lgt rain before dawn; lgt t-shower late aft

3 **76** 60 **60** 0.58 TSTMs alternate with sunshine midday, aft

**4** 84 58 64 T Patchy fog early, sprinkle ~1510

5 89 60 76

6 **96** 72 79

7 **96** **73** **81**

8 88 70 71 0.42 (T-)showers in area mid-afternoon into eve

9 87 69 71 0.05 Light rain before dawn, TSTM in area early aft

10 85 68 68

**11** 87 66 71 1.13 Morning showers (0.24); late eve TSTM (0.85)

12 94 71 74 0.44 TSTM in area both midnights; TSTM late aft

13 86 71 76 **1.66** Flashy, raucous, heavy TSTM post-midnight

14 91 **73** 74 0.19 Edge of heavy TSTM to S ~1525

15 92 70 80

16 94 72 78

17 94 71 71 0.27 TSTMs in vicinity afternoon, light rain mid eve

**18** 77 71 72 T Few sprinkles early AM

19 88 66 70

20 88 66 72

21 85 64 64 0.80 TSTM early aft (0.49), sun, TSTM late aft (.31)

22 81 59 63

23 84 58 65

24 85 60 75

**25** 90 72 77 Line Cb distant S late aft; dsnt LTG after dusk

26 92 71 71

27 92 66 72

28 87 65 68

29 82 66 74 0.31 TSTMS in area late afternoon

30 86 64 64

31 80 **55** 62

SUM 2698 2058 6.95 0.0 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 76.7 (+0.1)

Average Maximum Temperature (Dep): 87.0 (+0.1)

Average Minimum Temperature (Dep): 66.4 (+0.1)

Extreme Daily High Max Temp (Dep): 96 (-0) on 6,7th (record 105 on 22 Jul 2011)

Extreme Daily High Minimum Temp: 73 on 7th, 14th (record 82 on 05 Jul 1999)

Extreme Daily Low Min Temp (Dep): 55 (-0) on 31st (record 49 on 01 Jul 1988)+

Extreme Daily Low Maximum Temp: 76 on 3rd (record 65 on 24 Jul 1997)+

Heating Degree Days (Season): 0 (0)

Cooling Degree Days (Season): 369 (736)

+ Most recent of more than one occurrence

-- more --

Total Monthly Precipitation (Dep): 6.95 (+1.68)

Total Annual Pcpn through Month: 27.27 (-3.06)

Greatest Calendar Day Pcpn: 1.66 on 13th (record 5.12 12 Jul 2004)

Greatest Floating 24-Hour Pcpn: 2.08 on 12th-13th (rec 5.12 12-12 Jul 2004)

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 Jul 0000)

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

Maximum Depth of Snow/Ice: 0 on

Days with Hail: 0

Days with Thunder (Dep): 12 (+4)

Highest Wind Gust (MPH): 20 on 21st

Maximum Barometric Pressure: 30.21 on 13th

Minimum Barometric Pressure: 29.71 on 2nd

HIGHLIGHTS

July 2021 might be remembered by some as another hot July. It contained ten days which heated to at least 90 degrees. However, the heat of this July cannot hold a torch to some recent months of July, especially last July (2020), which contained 21 days which heated to at least 90 (max 98) and no temperature below 62, contributing to an average of 80.0. This July could boast no higher than 96, and seven days cooled below 62, including a lowest of 55. The final average temperature of this July came to a near-normal 76.7 (+0.1), and the averages of both the daily highs and lows ended at plus 0.1. That lowest of 55 is typical for July, but was atypical as to when it occurred, on the last day, as lows below 60 in late July have been rare. Any low of 55 or below is more likely early in July. The warmest daily low temperature of 73 was also rather modest. Officially for Reading PA (RDG), the mean temperature was a similar 76.6 and included extremes of 55/95. The 55 at RDG was only 2 degrees above the historic 31 July record low of 53 from 1981.

This July was rather replete of thunderstorms. Thunder was heard on 12 different days at Reading 4 SW. The most remains 13 days during July of both 1988 and 2006. As is usually the case, the strong thunderstorm downpours are usually more miss than hit, and was so this July. Most were sideswipes, narrow misses, brief, or weakening. One that did hit strongly at Reading 4 SW and nearby areas came post-midnight of the 13th. It was very flashy and raucous, while delivering 1.66” of rain, mostly during the first hour of that calendar day (EST), which was key to the substantial monthly total rainfall of 6.95 (+1.68). Cedar Top, 3 miles SE of Reading 4 SW, got 3.48 from this storm. A Cumru Township official reported mudslides in that vicinity. Significant downpours occurred also on the 1st and 11th. Minimal rainfall of 0.05 came from the far-western edge of TS Elsa on the 9th. The early half of this July brought 5.57 of the 6.95 total, which alleviated antecedent aridity. However, slightly dry conditions returned by month end. July 2020 was rather rainy as well with total of 6.37. July rainfall totals in Berks County varied greatly and depended largely on the number and duration of thunderstorm downpours. The greatest of 7 to 9 inches occurred at many locations within a few miles W-SW-S-SE of Reading 4 SW, while the least of 3 to 5 inches occurred mostly over townships of northeastern Berks County. RDG was near the middle with officially 4.90. Flooding in the County was spotty, brief, and minor.

RANKINGS AND EXTREMES FOR THIS MONTH (JULY)

Avg Temp 76.7 – 19th warmest of 38 (71.9 in 2000 to 81.1 in 2011)

Precip 6.95 – 10th wettest of 39 (0.29 in 1999 to 15.54 in 2004)

Snowfall 0.0 – Snow was never observed here during July.