**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

**September 2021**

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

 TEMPERATURES

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

 1 73 63 64 **5.56** Heavy rain from tropical rainstorm “Ida”

 2 78 57 57

 3 75 53 58

 4 80 55 63

 **5** 74 62 68 0.10 Light rain, drizzle mostly 0730-1030

 6 85 61 61 Very nice weather for Labor Day

 7 84 55 73

 8 88 68 68 1.20 Strong TSTM after 2100

 9 75 59 59 0.37 Rain before dawn; few drops ~1800

10 76 56 56

11 79 52 66

**12** 86 63 71

13 85 69 70

14 87 65 75

15 **89** **69** 69 0.21 TSTMs in area evening, mainly near W

16 83 67 72 0.01 Light rain well before dawn

17 78 68 71 0.02 Drizzle 0730-1030

18 87 68 71 Moderate fog at daybreak

**19** 81 57 57

20 80 52 59

21 80 56 69

22 82 68 **76** 0.02 Little rain at times after 0700 /mainly\

23 76 56 56 1.36 Rain, some heavy w/ little thunder, 0730-1200

24 72 **48** 52

25 77 **48** 57

**26** 74 55 58

27 82 52 63

28 75 57 58 0.24 Light showers AM, heavier late aft; little T

29 71 50 57

30 **70** 51 51

31 -- -- --

SUM 2382 1760 9.09 0.0 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 69.0 (+1.7)

Average Maximum Temperature (Dep): 79.4 (+1.6)

Average Minimum Temperature (Dep): 58.7 (+1.8)

Extreme Daily High Max Temp (Dep): 89 (-1) on 15th (record 97 on 02 Sep 2010)

Extreme Daily High Minimum Temp: 69 on 15th (record 76 on 09 Sep 2016)+

Extreme Daily Low Min Temp (Dep): 48 (+6) on 24,25th (record 35 on 29 Sep 2000)

Extreme Daily Low Maximum Temp: 70 on 30th (record 53 on 28 Sep 1984)

Heating Degree Days (Season): 16 (16)

Cooling Degree Days (Season): 142 (1270)

+ Most recent of more than one occurrence

 -- more --

Total Monthly Precipitation (Dep): 9.09 (+3.83)

Total Annual Pcpn through Month: 44.71 (+4.46)

Greatest Calendar Day Pcpn: 5.56 on 1st (record 5.95 on 19 Sep 1999)

Greatest Floating 24-Hour Pcpn: 5.56 on 1st-1st (rec 6.83 on 30-01 S-O 2010)

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 Sep 0000)

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

Maximum Depth of Snow/Ice: 0 on

Days with Hail: 0

Days with Thunder (Dep): 4 (+1)

Highest Wind Gust (MPH): 31 on 8th

Maximum Barometric Pressure: 30.35 on 20th

Minimum Barometric Pressure: 29.54 on 1st

HIGHLIGHTS

This month’s, September 2021, key weather came at the very beginning with heavy rain from tropical rainstorm Ida. Rain of 5.56” without thunder fell all on the 1st and marked the fourth greatest calendar day rainfall during 39 Septembers at Reading 4 SW, behind 5.95 on 16th in 1999, 5.94 on 30th/2010, 5.58 on 8th/1987, and just ahead of 4.97 on 27th/1985. Reading 4 SW was in a swath of central Berks County that was flanked to both west and east by even greater rainfalls of 6” or more. The rain caused widespread flooding, which was severe or extreme in the hardest-hit areas of southeastern PA. The “remnant” low of Ida still carried quite a punch after its long inland journey as it tracked across southern PA, bringing a low barometer of 29.54 in\*Hg at Reading 4 SW. And enough spin remained to generate a major tornado outbreak beginning just east of Berks County. This rain contributed 61 percent of the whole month’s total of 9.09, which ranked sixth rainiest of 39. Thunderstorms on the 8th and 23rd contributed 1.20 and 1.36 respectively. Both of those storm systems brought greater amounts of 2 to 3 inches to some nearby areas. Monthly rainfalls in Berks County ranged from 6 to 13 inches, mostly 8 to 12, with greatest number (mode) of 10-point-something. Some of the 11s and 12s occurred few to several miles S and W of Reading 4 SW, where the greatest August amounts occurred. Officially for Reading (RDG), the total was 8.22, which included 4.95 from Ida. Last September (2020), 4.42 fell at Reading 4 SW, including 2.58 during the last overnight.

September was the third consecutive month that ran significantly cooler than normal during the first third, but then ended with a warmer-than-normal final average. September ended with an average temperature of 69.0 (+1.7), good for seventh warmest of 38. None of the cool nor warm days was unusually so. Extremes of 89 on 15th and 48 on 24th, 25th were both blunt September extremes. Overall, pleasant late summer weather dominated, despite the high rainfall total. The official RDG average was a similar 68.9 and included extremes of 89, 49. September 2020 at Reading 4 SW averaged a slightly cool 66.7 with three unusual daily lows in the upper 30s and a highest of only 86. Septembers 2020 and 2021 were the only two of the last ten that failed to rise to at least 90 on at least one day.

RANKINGS AND EXTREMES FOR THIS MONTH (SEPTEMBER)

Avg Temp 69.0 – 7th warmest of 38 (63.7 in 2000 to 71.2 in 2005)

Precip 9.09 – 6th wettest of 39 (0.83 in 2005 to 13.56 in 1999)

Snowfall 0.0 – Snow was never observed here during September.

Rain year, October 2020 through September 2021, brought total precipitation of 56.26 inches, moderately above the 1991-2020 normal of 52.79.