**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 2020**

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

 TEMPERATURES

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

 1 90 68 75 0.03 Light rain after 2330

 **2** 92 73 **80** 1.69 TSTM complex midnight to daybreak

 3 88 71 72 0.25 Hvy shower ~1745, one T-clap; ocnl lgt rain eve

 4 83 67 71 **3.91** TS Isaias rain AM, heaviest 0800-1100

 5 85 64 67

 6 84 66 72 0.07 Shower 0600 hour; few drops ~1800

 7 78 66 68 1.04 (T-)showers daybreak; VCTS mid-late aft (0.72)

 8 85 68 70

 **9** 90 67 75

10 93 71 77

11 92 **75** 78

12 93 74 74 VCTS late aft; up to 1.5 rain nearby, none here

13 86 73 73

14 88 71 71

15 84 67 69 0.05 Light rain late eve

**16** **74** 64 64 0.08 Light rain till daybreak then ocnl drizzle

17 85 60 68 T Few drops ~1300; late aft TSTMs skirted around

18 86 63 67

19 84 62 62 0.09 Light rain daybreak till 0800

20 84 **55** 66 Early morning low temp 81

21 88 64 75

22 91 71 72

**23** 90 69 73 T VCTS late aft E-SE-S-SW, downpours missed

24 91 68 73 T Few drops late afternoon

25 92 70 71

26 83 65 70

27 **96** 68 77 0.06 Fast-moving TSTM late dusk, brief heavy shower

28 89 70 72 0.26 VCTS mid-afternoon, in between downpours

29 86 70 70 0.06 Ocnl light rain AM; early eve SQLN split around

**30** 82 61 **61**

31 76 59 66 0.05 Light rain late afternoon, eve sprinkles

SUM 2688 2080 7.64 0.0 0

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 76.6 (+2.9)

Average Maximum Temperature (Dep): 86.7 (+2.4)

Average Minimum Temperature (Dep): 67.1 (+3.4)

Extreme Daily High Max Temp (Dep): 96 (+2) on 27th (record 101 on 2 Aug 2002)

Extreme Daily High Minimum Temp: 75 on 11th (record 81 on 02 Aug 2006)

Extreme Daily Low Min Temp (Dep): 55 (+2) on 20th (record 42 on 30 Aug 1986)

Extreme Daily Low Maximum Temp: 74 on 16th (record 61 on 21 Aug 2007)

Heating Degree Days (Season): 0 (0)

Cooling Degree Days (Season): 372 (1169)

+ Most recent of more than one occurrence

 -- more --

Total Monthly Precipitation (Dep): 7.64 (+3.65)

Total Annual Pcpn through Month: 37.70 (+3.71)

Greatest Calendar Day Pcpn: 3.91 on 4th (record 4.44 31 Aug 2018)

Greatest Floating 24-Hour Pcpn: 4.16 on 3rd-4th (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): 7 (+1)

Highest Wind Gust (MPH): 25 on 4th

Maximum Barometric Pressure: 30.18 on 8th

Minimum Barometric Pressure: 29.47 on 29th

HIGHLIGHTS

Rainfall from TS Isaias, 4.16 within 24 hours, was the key and middle of three heavy rainstorms during the first week of August, which combined added to 6.99. Heavy rainfall from Isaias was widespread throughout eastern PA and had an axis of maximum rainfall of 6 to 8 inches 20 to 40 miles NE and SE of Reading 4 SW, including nearly 7.5 in District Township in northeastern Berks County. The other two were thunderstorm complexes whose heavy rains were more scattered. The first, late evening of the 1st into morning of the 2nd, brought 1.72 to Reading 4 SW but 6 to 7.5 over Reading’s northern suburbs, where flooding was severe. The other, on the 7th, brought 1.04 but 1.5 to 2.5 to some nearby locations. Heavy downpours prowled Berks and surrounding counties on several August days after the 7th, but were all miss at Reading 4 SW, which collected only 0.65 more the remaining 24 days. Top soils became quite dry by month’s end despite a 7.64 monthly total, fifth wettest August of the last 38. The front-end loading of rainfall characterized June and July also, but was most blatant during August. August rainfall totals in Berks County ranged mostly 6 to 13 inches but ranged from around 5 far west to over 13 from Reading’s northern suburbs northeast to Kutztown. Officially, Reading (RDG) accrued 11.41, 10.47 by the 7th, to place 4th wettest August of 152. Last August (2019), Reading 4 SW collected 4.47.

The consistency of very warm to moderately hot weather that began at the summer solstice continued through August with few brief interruptions of cooler, but not unusually so; lowest was 55 on the 20th. August averaged 76.9, 5th warmest of 37, without any severe heat. Eleven days did heat to at least 90, highest 96 on the 27th, for 38 this year so far. RDG’s average of 77.0, highest also 96, was 5th warmest of 123. August 2019 at Reading 4 SW averaged 74.8 with extremes of 55/93.

RANKINGS AND EXTREMES FOR THIS MONTH (AUGUST)

Avg Temp 76.9 – 5th (2-way) warmest of 37 (69.7 in 1992 to 77.9 in 2016)

Precip 7.64 – 5th wettest of 38 (0.22 in 1995 to 17.08 in 2018)

Snowfall 0.0 – Snow was never observed here during August.

Statistical summer (months JJA) averaged 76.6 (+2.5) in temperature, second to 77.0 of summer 2010, with extremes a near record low 44 on 1 June and 98 on 6 July. RDG averaged also 76.6 which edged over 76.5 from 1949 for new hottest summer. Precipitation totaled 17.59 (+3.36) and was keyed by TS Isaias rainfall of 4.16 on 3-4 August. RDG’s summer total of 21.26 placed 6th wettest.