**Reading 4 SW**; Berks County, PA; Lat 40.316251, Lon -75.988661, Elev 320 ft 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

**February 2022**

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

TEMPERATURES

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

1 41 13 25 T

2 46 21 41 0 Intermittent dense fog between 0800 and 1100

3 54 40 54 **1.48** Steady light to moderate rain after 0100

4 57 27 27 0.68 T Rain AM, then sprinkles, ended wintry mix 1730

5 **29** 18 18 0.01 0.2 0 Flurries, embedded snow squall late AM, melted

**6** 36 14 27

7 39 25 35 0.02 0.1 0 Light snow mid morn, melted; PM sprinkles

8 40 25 25

9 53 21 37

10 56 29 29 T Few drops wee hours

11 61 24 53

12 55 38 38

**13** 38 20 20 0.21 **4.7** 3 Surprise snowstorm AM; 4” in 90 min predawn

14 **29** 15 **15** 2

15 33 **11** 21 1

16 49 19 46 0

17 65 **46** **60** 0.40 Windy; rain after 1600

18 61 27 27 0.10 Brief heavy shower then light rain predawn

19 43 22 22 0.02 0.2 0 Snow squall 1340-1400; melted by 1500

**20** 40 17 29

21 62 24 39

22 61 36 59 0.20 Mostly light rain forenoon till early evening

23 **69** 36 36 0.01 Little rain predawn

24 36 30 31 0.04 T T Feeble snow midday; sleet, fz rain after 2300

25 45 31 32 0.58 T 0 Fz rain, sleet before dawn; rain till 1000

26 40 25 25

**27** 52 21 36

28 41 27 29

29 -- -- --

30 -- -- --

31 -- -- --

SUM 1331 702 3.75 5.2 3

MONTHLY STATISTICS

Average Monthly Temperature (Dep): 36.3 (+2.4)

Average Maximum Temperature (Dep): 47.5 (+5.0)

Average Minimum Temperature (Dep): 25.1 (-0.2)

Extreme Daily High Max Temp (Dep): 69 (+7) on 23rd (record 83 on 21 Feb 2018)

Extreme Daily High Minimum Temp: 46 on 17th (record 53 on 24 Feb 2017)

Extreme Daily Low Min Temp (Dep): 11 (+1) on 15th (record -3 on 6 Feb 1996)+

Extreme Daily Low Maximum Temp: 29 on 5th 14th (record 14 on 15 Feb 2015)

Heating Degree Days (Season): 797 (3455)

Cooling Degree Days (Season): 0 (0)

+ Most recent of more than one occurrence

-- more --

Total Monthly Precipitation (Dep): 3.75 (+0.54)

Total Annual Pcpn through Month: 6.96 (-0.07)

Greatest Calendar Day Pcpn: 1.48 on 3rd (record 2.81 13 Feb 2008)

Greatest Floating 24-Hour Pcpn: 1.86 on 3rd-4th (rec 3.25 12-13 Feb 2008)

Total Monthly Snowfall (Dep): 5.2 (-3.6)

Total Season Snowfall (Dep): 14.2 (-8.8)

Greatest Calendar Day Snowfall: 4.7 on 13th (record 26.0 on 11 Feb 1983)

Greatest Floating 24-Hour Snowfl: 4.7 on 13th-13th (rec 26.0 on 11-11 Feb 1983)

Maximum Depth of Snow/Ice: 5 (short) on 13th

Days with Hail: 0

Days with Thunder (Dep): 0 (-0)

Highest Wind Gust (MPH): 32 on 18th

Maximum Barometric Pressure: 30.70 on 15th 16th

Minimum Barometric Pressure: 29.33 on 18th

HIGHLIGHTS

February 2022 featured wild temperature ups and downs in which the mild out-dueled the cool and resulted in a final average of 36.3 (+2.4). Case in point is when it rebounded to 65 only 50-some hours after the month’s low of 11 on the 15th. Weather turned sharply colder again only briefly then rebounded even warmer to highs of 62, 61, and then the months highest of 69 on the 23rd. Altogether, six days warmed above 60 while three chilled below 15. The daily high temperatures contributed the entire plus anomaly. The daily lows actually averaged low-end normal. Dominant high pressure fostered numerous clear, calm, frosty nights which are conducive to cold air drainage into this low-lying area. Barometric pressure fluctuated widely at times too. The highest SLP of 30.70 in\*Hg coincided with the coldest on the 15th and then plummeted to the months lowest of 29.33 early on the 18th as 60-degree warmth was about to be abruptly terminated by a strong cold front passage. Temperature changes last February (2021) were blunted by dominant low pressure, cloudiness, and precipitation which resulted in an average of 32.4 with modest range of 13 to 55. Officially for Reading (RDG), the average was a similar 36.1 with range also 11 to 69.

Precipitation this February was slightly in excess totaling 3.75” (+0.54) and was keyed by a soaking of 2.16” spanning the 3rd and 4th, which brought much relief from the deficiencies of December and January. Snow was scarce and came mostly from localized squalls and a narrow band of heavy snow. All of these hit Reading 4 SW hard, totaled 5.2” (-3.6), and was keyed by a 4.7-inch thumping morning of the 13th of which 4” accumulated within 90 minutes before dawn. Many areas of Berks County got only fringe effects or completely missed most of these snow events and ended with monthly totals of only 1 to 3 inches. Whether rather much or little snow, most grounds were snow covered only a few days of the month. However, the key wintry weather event was a storm of freezing rain and some sleet from around midnight then through most of the morning of the 25th. Ice accreted to around ¼ inch on trees and grasses but hardly any on pavements, whether treated or not. Therefore, societal impact was low despite so much ice. Month total precipitation for most places in Berks County was 3-point-something, including 3.22” at RDG. February 2021 was much different with 5.62” and included the melt of 28.1” of snow, which kept most grounds covered the entire month from beginning to end.

RANKINGS AND EXTREMES FOR THIS MONTH (FEBRUARY)

Avg Temp 36.3 – 10th warmest of 38 (22.4 in 2015 to 41.7 in 2017)

Precip 3.75 – 14th (2-way) wettest of 40 (0.67 in 2009+ to 7.22 in 2008)

Snowfall 5.2 – 19th least of 40 (T in 2020+ to 43.5 in 2010)

Statistical (meteorological) winter (calendar months DJF) 2021-22 ended milder than average at 35.6 (+1.7), bolstered by much warmer Dec. (42.0) which more than offset colder Jan. (28.5), and ranged from 6 (1/14) to 69 (2/23). Precipitation was quite deficient at 7.97” (-3.31), especially 1.01” (-2.81) of Dec, as was snowfall of 14.2” (-8.0), all of which accumulated after New Year’s Day.