5.18 (+0.78)
40.42 (+4.48)
1.48 on 21st
1.78 on 20th-21st
0.0 (-0.0)

0.0 (-0.0)

0.0 on

0.0 on

0

6 (-0)

**Reading 4 *SW;*** Berks County, PA; Lat 40°19.0'N,

CoCoRaHS ID: PA-BR-2, Reading 3.5 SW

Observer in Charge: Jeffrey R. Stoudt

Period of Record: Precipitation/Snow - January

**August 2007**

Lon 75°59.3'W, Elev 320 ft MSL
Observation time: 2359 EST

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| --- | --- | --- |
| 1983, | Temperatures - June | 1984 |

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

TEMPERATURES
DAY MAX MIN OBS

1 91 67 73

2 95 67 80

3 93 71 77

4 94 71 72

5 88 65 74

6 88 73 78

7 89 73 **84**

8 **96 77** 80

9 89 71 74

10 87 60 60

11 86 60 65

12 90 61 72

13 89 68 72

14 84 **57** 63

15 88 58 76

16 88 73 77

17 89 72 72

18 79 62 64

19 70 61 61

20 65 61 61

21 **61** 58 **59**

22 66 58 64

23 78 63 73

24 85 71 75

25 95 75 75

26 85 66 66

27 84 61 66

28 87 62 70

29 87 62 70

30 90 66 77

31 82 65 65

SUM 2633 2055 5.18

PCPN SNOW DEPTH REMARKS (all times are military EST)

 0.03 Light shower late evening.

 0.03 Light showers before dawn.

 0.28 Morning showers, mostly near dawn.

 0.46 TSRA early aftn (0.26), early eve (0.16),

 0.40 and around midnight EST (0.04+0.40).

 0.06 -TSRA very late evening.

 0.04 Occasional -RA late morning.

 0.37 Late AM sprinkles then steady rain PM.

 0.96 Rain much of the time.

 **1.48** Ditto and also some TS -2000.

 0.06 Rain ended by dawn but remained low OVC.

 0.02 Weakened TS early eve. +TSRA to N and S.

 0.99 TS before dawn, +TSRA -0200.

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MONTHLY STATISTICS

Average Monthly Temperature (Dep):
Average Maximum Temperature (Dep):
Average Minimum Temperature (Dep):
Extreme Daily High Maximum Temp:
Extreme Daily High Minimum Temp:
Extreme Daily Low Minimum Temp:
Extreme Daily Low Maximum Temp:
Heating Degree Days (Season):
Cooling Degree Days (Season):

-- more --

75.4 (+1.5)

85.1 (+0.9)

65.6 (+2.1)

96 (+2) on 8th

77 on 8th

57 (+5) on 14th

61 on 21st

10 (10)

341 (1022)

Total Monthly Precipitation (Dep):
Total Annual Pcpn through Month:
Greatest Calendar Day Pcpn:
Greatest Floating 24-Hour Pcpn:
Total Monthly Snowfall (Dep):
Total Season Snowfall (Dep):
Greatest Calendar Day Snowfall:
Greatest Floating 24-Hour Snowfl:
Maximum Depth of Snow/Ice:

Days with Hail:

Days with Thunder (Dep):

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|  |  |  |
| --- | --- | --- |
| Highest Wind Gust (MPH): Maximum Barometric Pressure: Minimum Barometric Pressure: | 27 on30.1729.70 | 26th on 18th, 19thon 8h |

Average 4-Inch Soil Temps ranged diurnally from the mid 70s to low 80s on most
days except much cooler from the 19th through 24th. For the month, they ranged
from 64 on the 2211c1 to 89 on the 7th.

HIGHLIGHTS

Typical moderate summer heat prevailed during August, but the heat never reached
extreme levels. Although in a small minority, the coolness claimed the most
anomalous temperature departures of the month but could offset only about half
of the persistent moderate plus departures. Maxima of 61 and 66 at both Reading
4 SW and at the airport (RDG) on the 21st and 22nd respectively were record low
max temperatures for the dates. At Reading 4 SW, the 61 was a new record low
maximum temperature of any August day in at least 24 years. This cool period
occurred while very warm and humid air came in aloft and was bolstered by very
dry air from the north wedging under expansive rain clouds resulting in runaway
evaporational cooling. Those 70s dew points aloft contacting -60 air near the
ground resulted in a sun-blocking stratus deck that took a day and a half after
the rain stopped to partially clear. Early in the month, the min of 77 on the
8th edged one degree above the high minimum record for that date.

Rainfall totaled 5.18, moderately above normal for August, and virtually tied
July's total which was 5.14. Slightly more than half of it fell during the 60-
hour period ending late evening of the 21st. Although the first half of August
was somewhat dry, there was enough moisture available for ample evapo-
transpiration which limited a few would-be -100 degree maximum temperatures to
the mid 90s. For example, the month's maximum temperature of 96 on the 8th came
after an early day moderate shower. Areas to the near south that missed this
rain reached 100 or slightly above. And the temperature reached 95 on the 25th
despite grounds that were quite wet from the nearly 3" of rain that soaked the
area a few days earlier. The downsides were dew points around 80 that
accompanied the maxima on both of those days.

RANKINGS AND EXTREMES FOR THIS MONTH

Avg Temp 75.4 - Eighth warmest of 24 Augusts (69.7 in 1992 to 77.4 in 2005)

Precip 5.18 - Seventh wettest of 25 Augusts (0.22 in 1995 to 9.16 in 1986)

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