**Reading 4 SW;** Berks County, PA; Lat 40°19.0'N, Lon 75°59.3'W, Elev 320 ft MSL

CoCoRaHS ID: PA-BR-2, Reading 3.5 SW Observation time: 2359 EST

**September 2006**

Daily details (monthly extremes in **bold):**

TEMPERATURES

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

 1 65 59 59 0.41 Ocnl light rain PM, ocnl moderate eve.

 2 68 59 65 2.36 Rain, mostly during daylight. (TS Ernesto)

3 73 58 60

4 79 58 65

 5 68 61 62 0.28 Ocnl light rain except brief mdt late aftn.

6 76 60 60

7 81 56 62

8 83 58 67

9 **85** 62 64

10 78 59 66

11 68 56 56

12 70 53 57

 13 63 56 62 0.08 Occasional light rain after 0900.

 14 68 62 65 1.33 Continuous light to ocnl moderate rain.

 15 69 **65** 66 0.26 Rain afternoon; much heavier nearby S; [ ]

 16 74 63 63 0.23 Occasional rain before noon. ^

 17 82 57 62 a rumble of thunder.

18 84 58 67

19 77 60 60 0.01

20 67 53 54

21 69 45 49

22 70 45 64

23 79 62 73 0.16 Morning showers, mostly before dawn.

24 79 63 63 0.01



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25 72 53 53

26 73 52 53

27 74 48 57

28 76 55 58 **3.86**

29 64 48 **48** Tr

30 **61 41** 59 Tr

31

SUM 2195 1685 8.99 0.0

Intense early eve t-storms then much lgtr rain.

Sprinkles till dawn.

Few sprinkles.

Monthly

Average
Average
Average
Extreme
Extreme
Extreme
Extreme
Heating
Cooling

statistics:

Monthly Temperature (Dep):
Maximum Temperature (Dep):
Minimum Temperature (Dep):
Daily High Maximum Temp:
Daily High Minimum Temp:
Daily Low Minimum Temp:
Daily Low Maximum Temp:
Degree Days (Season):
Degree Days (Season):

64.7 (-1.7)
73.2 (-3.7)
56.2 (+0.3)
85 (-4) on 9th

65 on 15th

41 (+1) on 30th

61 on 30th

66 (66)

65 (1097)

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-- more --

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):

8.99 (+3.98)

45.37 (+3.41)

3.86 on 28th

3.86 on 28th-29th

0.0 (-0.0)

0.0 (-0.0)

0.0 on

0.0 on

0

0

2 (-1)

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Highest
Maximum
Minimum

Wind Gust (MPH):
Barometric Pressure:
Barometric Pressure:

28 on 1st
30.32 on 11th
29.60 on 28th

Average 4-Inch Soil Temps trended downward only slightly and stayed mostly in
the 60s but ranged from 76 on the 8th to 59 on the 30th.

Highlights:

The trend for copious rainfalls that began in late August continued through
September, even though there were long periods of little rain. September
rainfall combined with late August rainfall produced a total of 15.60 in 33
days. And when combined with the last 12 months, including the October 2005
deluges, resulted in a water year total of 65.76. There were three episodes of
heavy rain distributed evenly over the beginning, middle, and near the end of
the month. The first was moisture attributed to TS Ernesto and totaled 2.77"
which came slowly but steadily over 30 hours and caused isolated minor flooding
at worst. The much-feared severe flooding did not materialize as rainfall
totals were only one half as expected and only one third of what was plausible.
The middle rainstorm came as the result of a slow moving mid-latitude low
pressure complex. It too caused minimal flooding at worst as it was spread over
72 hours. However, the third was the greatest and came torrentially within a
few hours. This torrential rain was focused in a band no more than 10 miles
wide along the US Route 222 corridor from Lancaster to the Reading area. But
within that band, considerable flash flooding resulted, and several high water
rescues were performed. Automated equipment indicated rainfall of 2.55 in the
60-minute period ending at 1830. It's likely other floating 60-minute periods
produced greater amounts. The 3.86 amount on the 28th ranks as the ninth
greatest calendar day amount in nearly 24 years of record at Reading 4 SW.

This September's below normal temperatures contrasted greatly with the warmth of

September 2005. The maximum temperatures accounted for all of the anomaly and
averaged a full degree cooler than the previous lowest 74.3 average from
September 2000, and none were warmer than 85. Meanwhile, minimum temperatures
averaged a small fraction above normal, and the overall average computed to a
degree above the 63.7 from 2000. The minimum of 41 on the last day was typical.

Rankings this month:

Avg Temp 64.7 - Sixth coolest of 23 Septembers

Precip 8.99 - Fifth wettest of 24 Septembers

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