**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

Observer in Charge: Jeffrey R. Stoudt

Period of Record: Precipitation/Snow - January 1983, Temperatures - June 1984

**September 2008**

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| DAILY DETAILS (monthly extremesTEMPERATURES DAY MAX MIN 0BS PCPN SNOW DEPTH 1 87 53 62 2 91 57 65 3 90 60 71 4 **93** 64 **78** | in **bold)**REMARKS (all times are military EST) |
| 5 | 90 | **72** | 73 | 0.06 |   | -SHRA late eve, beginning of T.S. Hanna |
| 6 | 76 | 70 | 72 | **3.04** |   | RA mostly daytime, +RA early afternoon. |
| 7 | 82 | 62 | 63 |   |   |   |
| 8 | 83 | 57 | 72 |   |   |   |
| 9 | 75 | 67 | 68 | 0.74 |   | +TSRA 0750-0830 w/ 1/8" hail; -RA till 0930. |
| 10 | 75 | 56 | 60 |   |   |   |
| 11 | 75 | 56 | 66 |   |   |   |
| 12 | 71 | 65 | 71 | 0.87 |   | Steady -RA/RA 1100-2030. |
| 13 | 84 | 68 | 73 |   |   |   |
| 14 | 92 | 70 | 81 |   |   |   |
| 15 | 83 | 65 | 65 |   |   |   |
| 16 | 70 | 55 | 55 |   |   |   |
| 17 | 77 | 50 | 56 |   |   |   |
| 18 | 76 | 52 | 57 |   |   |   |
| 19 | 70 | 48 | **51** |   |   |   |
| 20 | 73 | **45** | 52 |   |   |   |
| 21 | 83 | 48 | 60 |   |   |   |
| 22 | 75 | 54 | 54 |   |   |   |
| 23 | 74 | 54 | 54 |   |   |   |
| 24 | 74 | 48 | 58 |   |   |   |
| 25 | **66** | 52 | 56 | 0.25 |   | -RA/RA after 2000. |
| 26 | **66** | 56 | 66 | 0.13 |   | Occasional -RA/-DZ |
| 27 | 70 | 64 | 68 | 0.15 |   | Ditto. Much heavier RA nearby W. |
| 28 | 76 | 65 | 66 | 0.36 |   | RA before dawn; few -SHRA daytime, much heavier |
| 29 | 72 | 54 | 54 |   |   | ...nearby E. |
| 30 | 74 | 50 | 61 | 0.41 |   | TSRA -2000, -RA till 2100; heavier immediate S. |
| 31 | --  |   |   |   |   |   |
| SUM | 2343 | 1739 |   | 6.01 | 0.0 |   |

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| MONTHLY | STATISTICS |   |   |   |   |   |   |   |   |
| Average | Monthly Temperature (Dep): | 68.0 (+1.5) |   |   |   |   |   |   |   |
| Average | Maximum Temperature (Dep): | 78.1 (+1.1) |   |   |   |   |   |   |   |
| Average | Minimum Temperature (Dep): | 58.0 (+2.0) |   |   |   |   |   |   |   |
| Extreme | Daily High Maximum Temp: | 93 (+4) on | 4th | (record | 94 | on | 10 | Sep | 2002+) |
| Extreme | Daily High Minimum Temp: | 72 on 5th |   | (record | 76 | on | 05 | Sep | 1985) |
| Extreme | Daily Low Minimum Temp: | 45 (+5) on | 20th | (record | 53 | on | 28 | Sep | 1984) |
| Extreme | Daily Low Maximum Temp: | 66 on 25th,26th | (record | 35 | on | 29 | Sep | 2000) |
| Heating | Degree Days (Season): | 36 (36) |   |   |   |   |   |   |   |
| Cooling | Degree Days (Season): | 131 (1065) |   |   |   |   |   |   |   |
| -- more | --  |   |   |   |   |   |   |   |   |

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| Total Monthly Precipitation (Dep): | 6.01 | (+1.03) |   |   |   |   |   |
| Total Annual Pcpn | through Month: | 37.12 | (-2.41) |   |   |   |   |   |
| Greatest Calendar | Day Pcpn: | 3.04 | on 6th | (record | 5.95 | 16 Sep | 1999) | • |
| Greatest Floating | 24-Hour Pcpn: | 3.10 | on 5th-6th | (record | 6.10 | 15-16 | Sep 1999) |   |

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| Total Monthly Snowfall (Dep):Total Season Snowfall (Dep): |  0.0 (-0.0) 0.0 (-0.0) |   |
| Greatest Calendar Day Snowfall: | 0.0 |   |   |
| Greatest Floating 24-Hour Snowfl: | 0.0 |   |   |
| Maximum Depth of Snow/Ice: | 0 |   |   |
| Days with Hail: | 1 |   |   |
| Days with Thunder (Dep): | 3 (-0) |   |   |
| Highest Wind Gust (MPH): | 19 on | 6th |   |
| Maximum Barometric Pressure: | 30.43 | on | 23rd |
| Minimum Barometric Pressure: | 29.55 | on | 6th |

Average 4-Inch Soil Temps ranged mostly from the upper 60s through the 70s
during the early half then cooled to the low 60s to around 70 for the latter
half after peaking around 80 late in the early half.

HIGHLIGHTS

After failing to reach 90 degrees during August, September produced five days of
at least 90, the hottest 93 on the 4th. Combined with several warmer minimum
temperatures also, the early half of September averaged approx 2 degrees warmer
than the month of August. The latter half of September was seasonable for early
autumn, and when combined with the early half, produced a moderately warmer than
normal September overall which was almost as much above normal as August was
below. Daily maximum temperatures of 94 on the 4th and 92 on the 14th at RDG
tied official Reading area record high maxes for those dates.

This growing season had been rather dry, and especially recently, going into
September. Therefore, soaking rainfalls were welcome and beneficial. The rain
parade was led by Tropical Storm Hanna moisture which deposited 3.10 on
neighborhood soils. Some areas several miles to the east received 3.5 to 4.25
inches from Hanna. Then two fronts of extra-tropical origin brought moderate
rainfalls on the 9th and 12th. The month-to-date tally of 4.61 as of this date
constituted a wet start; but alas, a long dry spell followed such that soils
became dry again by the 25th just ahead of the next rain event. However, said
rain event, a slow-moving mid-latitude trough which spanned four days, totaled
only 0.89. And that was quite disappointing considering most of the Middle
Atlantic States Region received 1.5 to 3 and even locally 4 inches from this
system. The copious rainfalls skirted all the way around this area during the
course of the event. An end-of-month cold front passage triggered an evening
thunderstorm on the 30th to account for the final 0.41 while areas as close as 2
to 3 miles to the S and SW got nearly 1 inch. The half foot of rain during
September at Reading 4 SW would still be considered moderately wet but not among
one of the wettest Septembers as the six wettest of 26 have totals of at least
8.99 with three of those over 10.50. Nevertheless, nearly half of Berks County
tallied close to 7 inches or more and as great as 8.76 at Topton this September.

RANKINGS AND EXTREMES FOR THIS MONTH

Avg Temp 68.0 - Tie 5th warmest 25 Septembers (71.2 in 2005 to 63.7 in 2000)

Precip 6.01 - 8th wettest of 26 Septembers (0.83 in 2005 to 13.56 in 1999)
Snowfall 0.0 - None has been observed in September (excluding hail).

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