**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

**December 2007**

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

1983, Temperatures - June 1984

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

|  |  |
| --- | --- |
|   | TEMPERATURES DAY MAX MIN OBS |
|   | 1 | 38 | 28 | 29 |
|   | 2 | 34 | 25 | 34 |
|   | 3 | 46 | 33 | 34 |
|   | 4 | 36 | 29 | 29 |
|   | 5 | **31** | 26 | 27 |
|   | 6 | 33 | **15** | **20** |
|   | 7 | 35 | 18 | 35 |
|   | 8 | 43 | 31 | 32 |
|   | 9 | 36 | 32 | 35 |
|   | 10 | 43 | 35 | 41 |
|   | 11 | 47 | **38** | **47** |
|   | 12 | 52 | 35 | 35 |
|   | 13 | 35 | 32 | 34 |
|   | 14 | 41 | 32 | 34 |
|   | 15 | 36 | 28 | 31 |
|   | 16 | 38 | 31 | 31 |
|   | 17 | 37 | 29 | 31 |
| • | 1819 | 3942 | 2428 | 2835 |
|   | 20 | 45 | 31 | 31 |
|   | 21 | 39 | 29 | 37 |
|   | 22 | 41 | 35 | 38 |
|   | 23 | **63** | 37 | 43 |
|   | 24 | 48 | 34 | 34 |
|   | 25 | 45 | 28 | 28 |
|   | 26 | 37 | 27 | 36 |
|   | 27 | 43 | 36 | 43 |
|   | 28 | 48 | 33 | 42 |
|   | 29 | 51 | 31 | 31 |
|   | 30 | 40 | 28 | 35 |
|   | 31 | 45 | 29 | 32 |
|   | SUM | 1287 | 927 |   |

PCPN SNOW DEPTH REMARKS (all times are military EST)

0.42 T Some -RA/PL early; RA late eve till a...

0.09 T ...little past midnight; sct soft glaze.

T T Few feeble flurries 3rd and 4th.

0.24 **1.5 1+** -SN late morn till mid eve, very small flakes.
**1-**

0.05 0.3 T Period of -SN/PL early afternoon.

0.02 -RA toward daybreak; sct soft glaze.

0.61 RA 1700-2200; occasional -DZ other times.

0.06 Occasional -RA/DZ.

0.03 Ditto.

0.02 -SHRA early morning.

**1.06** 0.3 T RA/PL, ocnl +RA; slight glazing; no snow.

0.23 T T FZRA/PL late eve till near dawn then plain RA..

0.96 T ...ocnl +RA into afternoon; few flurries eve.

T T Feeble flurries.

0.06 T Frequent -RA PM with a little slush.

0.55 Periods of DZ and few SHRA till 2010.

|  |  |
| --- | --- |
| 0.18 T0.020.400.370.39 T0.11 0.25.97 2.3 | -RA mid aftn into eve began mixed with -PL.Occasional -RA 0800-noon.RA evening.RA ended before daybreak.RA after 1500 mixed with PL toward midnight.Mixed precip ended as -SN long before dawn. |

MONTHLY STATISTICS

Average
Average
Average
Extreme
Extreme
Extreme
Extreme
Heating
Cooling

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):

35.7 (+0.4)

41.5 (-1.7)

29.9 (+2.5)

63 (+2) on 23rd

38 on 11th

15 (+1) on 24th

31 on 5th

901 (1743)

0 (1281)

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-- more --

Total Monthly Precipitation (Dep): 5.97 (+2.13)

Total Annual Pcpn through Month: 57.79 (+5.01)

Greatest Calendar Day Pcpn: 1.06 on 13th

Greatest Floating 24-Hour Pcpn: 1.19 on 15th-15th

Total Monthly Snowfall (Dep): 2.3 (-1.7)

Total Season Snowfall (Dep): 4.1 (-0.6)

Greatest Calendar Day Snowfall: 1.5 on 5th
Greatest Floating 24-Hour Snowfl: 1.5 on 5th-5th

Maximum Depth of Snow/Ice: 1+ on 5th

Days with Hail: 0

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

Highest Wind Gust (MPH): 27 on 3rd, 23rd

Maximum Barometric Pressure: 30.52 on 1st

Minimum Barometric Pressure: 29.17 on 16th

Average 4-Inch Soil Temps remained mostly in the mid 30s to low 40s and ranged
from 31 on the 17th to 53 on the 23rd.

HIGHLIGHTS

This December was atypical in that the harshest conditions came early, and most
of the milder conditions came later, like an early-starting winter backing out
somewhat. Included in the more-wintry first half was a light snow accumulation
on the 5th which was followed by a fresh light coating on the 7th. The month's
coldest period was during and immediately following the former snowfall with a
daily maximum temperature of 31, the only sub-freezing maximum, and a minimum of
15 early the next morning. A minimum of 18 the following morning was the only
other sub-20 temperature. Then two storms of rain and sleet, including some
glaze ice, came just prior to the month's midpoint. The glaze ice impact of the
first, on the 13th, was minor. And the ice accretion from the latter storm
(15th-16th) also was minor in the immediate Reading 4 SW area with about 0.1
inch. However, nearby higher terrain was glazed with ice accretions of 0.5 to
1.0 inch. And those heavy accretions resulted in power outages to tens of
thousands, some for as long as four days, across southern Berks County while
northern Berks became covered with 1 to 3 inches of sleet. Then the second half
of December brought mostly rain and small amounts of sleet and snow as well as
the month's maximum temperature of 63 on the 23rd which tied the 1990 date
record. KRDG also registered 63 which tied the 1990 record officially for the
Reading area. Altogether, sleet was observed at Reading 4 SW on eight different
days, and glaze ice was observed on five. I believe both of these counts may be
monthly record highs during the 25 years of record keeping at Reading 4 SW.
Also significant was the 20 days with measurable precipitation which tied
February 1986 with the greatest calendar month count. However, that February
retains the top spot because it had 28 chances versus December's 31. As a
result, December was a very volatile month for snow and ice potential. But the
outcome was rather benign except for the mid-month ice storm. Nevertheless,
total monthly precipitation finished above normal to complete another wet year.

RANKINGS AND EXTREMES FOR THIS MONTH

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Avg Temp 35.7 - Tied with 1997 for 12th warmest of 24 Decembers
(41.7 in 1984 and 2006 to 23.8 in 1989)

Precip 5.97 - 6th wettest of 25 Decembers (0.65 in 1998 to 11.76 in 1983)

Snowfall 2.3 - 12th snowiest of 25 Decembers

(Traces in five Decembers to 17.3 in 1995)

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