**LOCAL CLIMATOLOGICAL DATA**

**READING 4 SW, PENNSYLVANIA 2007 ANNUAL SUMMARY**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ELEVATION 320 FEET MSL LATITUDE 40°19.0'N  OBSERVATION TIME (LMT): 24:00  TEMPERATURES (SF) PRECIPITATION | | | | | | | | | | LONGITUDE 75°59.3'W  (IN.) - SNOWFALL (IN.) - | | | |
|  | EXTREME | | |  |  | TOTAL DEGREE DAYS | | MONTH | MAX | MAX | MONTH | MAX MAX |  |
| MONTH | MAX | MIN | MAX | MIN | AVG | NEATNG COOLNG GROWNG | | TOTAL | 1-DAY | 24 -HR | TOTAL | 1-DAY 24 -HR | MONTH |
| *JAN* | *71* | *6* | 43.4 | 29.0 | 36.2 | 881 |  | 3.24 | 1.14 | 1.22 | 2.8 | 2.0 2.0 | *JAN* |
| FEB | 50 | 7 | 34.4 | 19.9 | 27.1 | 1055 |  | 3.67 | 2.53 | 2.75 | 9.3 | 4.6 6.5 | FEB |
| MAR | 83 | 9 | 53.2 | 31.5 | 42.3 | 696 | 124 | 4.41 | 1.41 | 1.49 | 7.9 | 6.3 6.3 | *MAR* |
| *APR* | 87 | 26 | 59.2 | 40.1 | 49.7 | 460 6 | 173 | 5.95 | 2.58 | 2.60 | T | T T | APR |
| MAY | 93 | 38 | 78.9 | 51.8 | 65.3 | 94 111 | 513 | 3.10 | 1.17 | 1.21 |  |  | MAY |
| *JUN* | 95 | 50 | 03.4 | 62.6 | 73.0 | 9 253 | 673 | 9.73 | 2.76 | 3.93 |  |  | *JUN* |
| JUL | 96 | 52 | B5.3 | 64.5 | 74.9 | 311 | 751 | 5.14 | 2.93 | 2.98 |  |  | *JUL* |
| AUG | 96 | 57 | 85.1 | 65.6 | 75.4 | 10 341 | 757 | 5.18 | 1.48 | 1.78 |  |  | AUG |
| SEP | 92 | 42 | 81.5 | 57.4 | 69.5 | 30 170 | 592 | 1.17 | 0.92 | 0.92 |  |  | SEP |
| OCT | 91 | 31 | 72.9 | 52.0 | 62.5 | 160 89 | 441 | 5.96 | 1.78 | 2.98 |  |  | OCT |
| NOV | 70 | 22 | 51.7 | 35.0 | 43.4 | 642 | 71 | 4.27 | 1.48 | 1.48 | 1.8 | 1.8 1.8 | *NOV* |
| DEC | 63 | 15 | 41.5 | 29.9 | 35.7 | 901 |  | 5.97 | 1.06 | 1.19 | 2.3 | 1.5 1.5 | DEC |
| YEAR | 96 | 6 | 64.4 | 45.1 | 54.8 | 4938 1281 | 4095 | 57.79 | 2.93 | 3.93 | 24.1 | 6.3 6.5 | YEAR |
| DEP | -1 | -0 | +0.6 | +1.3 | +1.0 | -131 +113 | +319 | +5.01 |  |  |  |  | DEP |

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| ANNUAL TEMPERATURE EXTREMES AND FREEZE DATA  HIGHEST MAXIMUM TEMPERATURE, DATE(S) •  LOWEST MAXIMUM TEMPERATURE, DATE(S)  HIGHEST MINIMUM TEMPERATURE, DATE(S)  LOWEST MINIMUM TEMPERATURE, DATE(S)  HIGHEST AVERAGE TEMPERATURE, DATE(S)  LOWEST AVERAGE TEMPERATURE, DATE(S) | .  96,  17,  77,  6,  87,  12, | 7/10 8/08  2/05  8/08  1/26  8/08  2/05 |
| NO. OF DAYS WITH MINIMUM OF 32 OR BELOW ..: | 104 |  |
| NO. OF DAYS WITH MAXIMUM OF 32 OR BELOW ..: | 21 |  |
| NO. OF DAYS WITH MINIMUM OF 0 OR BELOW ...: | 0 |  |
| NO. OF DAYS WITH MAXIMUM OF 90 OR ABOVE ..: | 30 |  |
| TEMPERATURE & DATE OF LAST SPRING FREEZE .: | 26, | 4/11 |
| TEMPERATURE & DATE OF FIRST FALL FREEZE ..: | 31, | 10/29 |
| NO. OF DAYS BETWEEN (GROWING SEASON) | 201 |  |
| ANNUAL PRECIPITATION EXTREMES. . . |  |  |

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| --- | --- |
| NO. OF DAYS WITH A TRACE OF PRECIPITATION : | 35 |
| NO. OF DAYS WITH 0.01 TO 0.09 IN. OF PCPN : | 50 |
| NO. OF DAYS WITH 0.10 TO 0.49 IN. OF PCPN : | 58 |
| NO. OF DAYS WITH 0.50 TO 0.99 IN. OF PCPN : | 16 |
| NO. OF DAYS WITH 1.00 TO 1.99 IN. OF PCPN : | 14 |
| NO. OF DAYS WITH 2.00 OR MORE IN. OF PCPN : | 5 |
| MAXIMUM ONE-DAY PRECIPITATION, DATE(S) ...: | 2.93, 7/05 |
| MAXIMUM FLOATING 24-HOUR PCPN, DATE(S) ...: | 3.93, 5/31-6/01 |
| NO. OF DAYS WITH A TRACE OF SNOWFALL • | 27 |
| NO. OF DAYS WITH 0.1 TO 0.9 IN. OF SNOW ..: | 9 |
| NO. OF DAYS WITH 1.0 TO 3.9 IN. OF SNOW ..: | 6 |
| NO. OF DAYS WITH 4.0 TO 7.9 IN. OF SNOW ..: | 2 |
| NO. OF DAYS WITH 8.0 OR MORE IN. OF SNOW .: | 0 |
| MAXIMUM ONE-DAY SNOWFALL, DATE(S) • | 6.3, 3/16 |
| MAXIMUM FLOATING 24-HOUR SNOW, DATE(S) | 6.5, 2/13-14 |
| NO. OF DAYS WITH 1 IN. OR MORE SNOW COVER : | 30 |
| MAXIMUM DEPTH (IN.) OF SNOW & ICE, DATE ..: | 7, 2/14 |
| THUNDER DAYS | 38 |

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**YEAR 2007 HIGHLIGHTS - READING 4 SW, PA**In Quasi-Chronological Order

1 The anomalously warm weather pattern that dominated the last two months of 2006   
continued into January 2007 and culminated with a record high maximum temperature of 71   
on the 6th which became a new station record high for January since at least 1985. The   
previous January high was 69. Mild January conditions continued for another ten days.

1. The pattern switched to much colder at exactly mid January. Although the cold was   
   persistent, it was not severe by mid winter standards. Numerous snow flurries and snow   
   showers accompanied the second-half-of-January chill, but measurable amounts were   
   isolated with each episode. A locally heavy snow squall hit Reading 4 SW during mid   
   evening of 25 January with 2 inches of powder. However, some areas only a mile and a   
   half away received only a light dusting. This fresh snow cover helped to produce the   
   coldest temperature of the winter (and year) of 6 above early 26 January.
2. Cold weather dominated and persisted through February, enough to produce the second   
   coldest February since at least 1985 with a monthly average of 27.1. February 5 turned out   
   to be the coldest day overall of the winter (and year) with a minimum temperature of 7   
   above and a maximum of 17.
3. The harshest winter storm of the year came on 13-14 February with a combination of sleet, freezing rain, and snow which accumulated to 7.1 inches, mostly as sleet, which melted to 2.88 rainfall equivalent. The voluminous fall of sleet and freezing rain during the late morning of the 14th contributed to a massive clogging of a long stretch of Interstate Highway 78, stranding thousands of vehicles for 24 hours, across northern Berks County where up to 6 inches of sleet and cementing ice accumulated mostly within six hours and contained the equivalence of up to 4.5 inches of rain. This storm should be at least a strong candidate for the greatest fall of sleet in Berks County and has been dubbed by some, the "Valentines Day Storm."
4. March 2007 featured wild weather changes, demonstrating the real meaning of "March   
   Madness", as the lingering winter and the coming spring seasons vied for dominance. The   
   most dramatic was the occurrence of a harsh winter storm of snow and sleet, which   
   accumulated to 6.3 inches on the 16th, less than 48 hours after an 80-degree temperature on   
   the 14th. "Beware the Ides of March." This abrupt change from 80-degree warmth to a   
   major winter storm was unprecedented during the previous 137 years in the Reading area.   
   This was the second major fall of sleet in the Reading area this year. After a white Saint   
   Patrick's Day, even balmier temperatures returned ten days later with a high of 83 on the   
   27th.

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