**LOCAL CLIMATOLOGICAL DATA**

**READING 4 SW, PENNSYLVANIA 2004 ANNUAL SUMMARY**

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| ELEVATION 320 TEMPERATURES EXTREME | FEET | MSL LATITUDE 40°19.0'N LONGITUDE 75°59.3'WOBSERVATION TIME (LMT): 24:00PRECIPITATION (IN.) - SNOWFALL (IN.) - TOTAL DEGREE DAYS MONTH MAX MAX MONTH MAX MAX |
| MONTH | MAX | MIN | MAX | MIN | AVG | HEATNG CCOLNG GROWNG | TOTAL | 1-DAY | 24 -HR | TOTAL | 1-DAY 24 -HR | MONTH |
| ***JAN*** | 61 | 2 | 31.2 | 18.4 | 24.8 |  1239 |   | 2.74 | 0.75 | 0.85 | 11.5 | 3.2 | 3.3 | ***JAN*** |
| FEB | 62 | 11 | 42.0 | 23.8 | 32.9 |  924 |   | 3.42 | 2.25 | 2.28 | 2.5 | 2.3 | 2.3 | FEB |
| MAR | 77 | 19 | 53.0 | 34.5 | 43.8 |  652 | 92 | 2.77 | 0.84 | 0.84 | 9.9 | 4.5 | 4.6 | MAR |
| APR | 90 | 30 | 63.2 | 43.6 | 53.4 |  352 11 | 216 | 4.86 | 1.25 | 1.41 | T | T | T | APR |
| MAY | 91 | 40 | 78.3 | 58.3 | 68.3 |  65 172 | 581 | 3.83 | 1.20 | 1.25 |   |   |   | MAY |
| ***JUN*** | 92 | 50 | 79.6 | 59.8 | 69.7 |  23 171 | 593 | 6.76 | 1.81 | 2.00 |   |   |   | JUN |
| JUL | 91 | 58 | 82.6 | 64.9 | 73.8 | 277 | 733 | 15.54 | 5.12 | 5.12 |   |   |   | JUL |
| AUG | 91 | 52 | 82.3 | 64.2 | 73.2 |  5 267 | 717 | 5.28 | 1.52 | 2.25 |   |   |   | AUG |
| SEP | 85 | 45 | 77.5 | 58.4 | 68.0 |  18 113 | 549 | 10.53 | 4.27 | 4.65 |   |   |   | SEP |
| OCT | 78 | 34 | 62.9 | 44.7 | 53.8 |  340 | 219 | 3.07 | 0.97 | 1.02 |   |   |   | OCT |
| NOV | 71 | 24 | 55.7 | 38.3 | 47.0 |  533 | 105 | 3.99 | 1.53 | 1.61 |   |   |   | NOV |
| DEC | 60 | 6 | 43.0 | 27.2 | 35.1 |  919 |   | 3.94 | 1.11 | 1.11 | T | T | T | DEC |
| YEAR | 92 | 2 | 62.7 | 44.7 | 53.7 |  5070 1011 | 3805 | 66.73 | 5.12 | 5.12 | 23.9 | 4.5 | 4.6 | YEAR |
| DEP | -6 | -1 | -1.0 | +1.2 | +0.1  | -43 -32 | +71 | +13.95 |   |   | -6.0 |   |   |   |

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| ANNUAL TEMPERATURE EXTREMES AND FREEZE DATA. | . . |   |
| HIGHEST MAXIMUM TEMPERATURE, DATE(S)  | 92, 6/09 |   |
| LOWEST MAXIMUM TEMPERATURE, DATE(S)  | 17, 1/10 1/23 | 12/20 |
| HIGHEST MINIMUM TEMPERATURE, DATE(S)  | 75, 7/05 |   |
| LOWEST MINIMUM TEMPERATURE, DATE(S)  | 2, 1/10 |   |
| HIGHEST AVERAGE TEMPERATURE, DATE(S)  | 83, 7/05 |   |
| LOWEST AVERAGE TEMPERATURE, DATE(S)  | 10, 1/10 |   |
| NO. OF DAYS WITH MINIMUM OF 32 OR BELOW ..: | 99 (DEP -7) |   |
| NO. OF DAYS WITH MAXIMUM OF 32 OR BELOW ..: | 29 (DEP +12) |   |
| NO. OF DAYS WITH MINIMUM OF 0 OR BELOW ...: | 0 (DEP -1) |   |
| NO. OF DAYS WITH MAXIMUM OF 90 OR ABOVE ..: | 7 (DEP -17) |   |
| TEMPERATURE & DATE OF LAST SPRING FREEZE .: | 31, 4/06 |   |
| TEMPERATURE & DATE OF FIRST FALL FREEZE ..: | 28, 11/09 |   |
| NO. OF DAYS BETWEEN (GROWING SEASON)  | 217 |   |
| ANNUAL PRECIPITATION EXTREMES. . . |   |   |
| NO. OF DAYS WITH A TRACE OF PRECIPITATION : | 36 |   |
| NO. OF DAYS WITH 0.01 TO 0.09 IN. OF PCPN : | 61 |   |
| NO. OF DAYS WITH 0.10 TO 0.49 IN. OF PCPN : | 45 |   |
| NO. OF DAYS WITH 0.50 TO 0.99 IN. OF PCPN : | 22 |   |
| NO. OF DAYS WITH 1.00 TO 1.99 IN. OF PCPN : | 10 |   |
| NO. OF DAYS WITH 0.01 IN. OR GREATER PCPN : | 144 (DEP +13) |   |
| NO. OF DAYS WITH 2.00 OR MORE IN. OF PCPN : | 7 |   |
| MAXIMUM ONE-DAY PRECIPITATION, DATE(S) ...: | 5.12, 7/12 |   |
| MAXIMUM FLOATING 24-HOUR PCPN, DATE(S) | 5.12, 7/12-12 |   |
| NO. OF DAYS WITH A TRACE OF SNOWFALL  | 22 |   |
| NO. OF DAYS WITH 0.1 TO 0.9 IN. OF SNOW ..: | 6 |   |
| 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) • | 4.5, 3/16 |   |
| MAXIMUM FLOATING 24-HOUR SNOW, DATE(S) ...: | 4.6, 3/18-19 |   |
| NO. OF DAYS WITH 1 IN. OR MORE SNOW COVER : | 33 (DEP +2) |   |
| MAXIMUM DEPTH (IN.) OF SNOW & ICE, DATE ..: | 8, 1/27 |   |
| NO. OF DAYS WITH THUNDER HEARD •  | 45 (DEP +10) |   |

General:

The year 2004 seemed like a cooler than average year, even though the average annual temperature
was 0.1 degree above normal. Reasons for this perception may include the following: One, the
daily maximum temperatures averaged 1.0 below normal when the daily minima averaged 1.2
above normal. Maximum temperatures are generally more impressionable. Two, the subnormal
cold of January into February was quite protracted. And three, the summer was almost entirely
lacking of oppressive heat, and by summer's end the considerably above normal warmth of May
was almost forgotten.

It will probably be difficult to find any Reading area resident that would disagree that 2004 was a
wet year. The seemingly endless parade of deluges during July, August, and September was very
impressionable and precluded any notion of a subnormal precipitation year.

Snowfall during the early part was near average, but there were no heavy snowfalls. Then a
virtually snowless late year produced a subnormal snow year overall.

Extremely anomalous temperatures of heat and cold were muted throughout 2004.

Highlights:

Two moderate snowfalls during the March 16 to 19 period was the first occurrence of two separate
snowfalls of at least 4 inches a piece within three days that occurred after the midpoint of March in
many years. The only other such back-to-back occurrence in the Reading area happened during
approximately the same days in 1956. And even more, there was a minor snowfall of about an inch
in between the two. The accumulations melted entirely before the first full day of spring.

Warmth during May was just persistent enough to make it the warmest May on average during the
last 21 years at Reading 4 SW edging 1991 by 0.1 degree. May 2004 was officially the fifth
warmest of 107 for Reading, PA. However, only one day reached at least 90. But it figured that
temperatures returned to subnormal coolness just in time for the Memorial Day weekend.

After a rather dry first eleven days, July turned suddenly soggy with a deluge of 5.12 inches on the
12th. This set a record for the greatest July date or 24-hour rainfall in 22 years of precipitation
records at Reading 4 SW. The southern tip of the city, near Kenhorst borough, got swamped with
8.70. This deluge was the first and greatest in a series which boosted the total for July to 15.54,
enough not only for the wettest July but also the wettest of any month during the last 22 years which
previously was 13.56 during September 1999. Parts pf Robeson Township and southern Exeter
Township, located approximately 10 miles to the east southeast of Reading 4 SW, collected nearly 2
feet of rain during the 31-day period ending at noon, 1 August.

A tropical trifecta of storms Frances, Ivan, and Jeanne contributed at least indirectly to almost the
entire 10.53 rainfall total for September. This amounted to only the third wettest September of 22,
but it produced back-to-back Septembers of 10-plus inches (11.32 in September 2003), and two 10-
plus months of the last three.

Note: Reading 4 SW is actually the development of Lincoln Park which straddles Spring and Cumru
Townships in Berks County, PA.

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