**LOCAL CLIMATOLOGICAL DATA**

**READING 4 SW, PENNSYLVANIA 2005 ANNUAL SUMMARY**

ELEVATION 320 FEET MSL LATITUDE 40°19.0'N LONGITUDE 75°59.3'W

OBSERVATION TIME (LMT): 24:00

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | TEMPERATURES  EXTREME | | |  | (°F) | TOTAL DEGREE DAYS | |
| MONTH | MAX | NUN | MAX | MIN | AVG | HEATNG COOLNG GROWNG | |
| *JAN* | *67* | *4* | 36.9 | 23.2 | 30.1 | 1077 |  |
| FEB | 57 | 8 | 43.4 | 26.1 | 34.8 | 840 |  |
| MAR | 67 | 16 | 46.8 | 28.7 | 37.7 | 838 | 39 |
| APR | 86 | 32 | 66.8 | 42.6 | 54.7 | 311 10 | 269 |
| MAY | 87 | 33 | 69.9 | 45.5 | 57.7 | 231 12 | 327 |
| *JUN* | 94 | 53 | 84.5 | 64.2 | 74.4 | 6 296 | 706 |
| JUL | 95 | 58 | 87.1 | 67.6 | 77.4 | 392 | 818 |
| AUG | 97 | 54 | 86.5 | 68.3 | 77.4 | 393 | 820 |
| SEP | 93 | 42 | 83.0 | 59.4 | 71.2 | 18 213 | 639 |
| OCT | 82 | 34 | 65.2 | 49.5 | 57.3 | 251 21 | 295 |
| NOV | 75 | 20 | 58.2 | 36.2 | 47.2 | 527 | 160 |
| DEC | 56 | 5 | 38.8 | 25.1 | 32.0 | 1015 |  |
| YEAR | 97 | 4 | 64.0 | 44.8 | 54.4 | 5114 1337 | 4073 |
| DEP | -1 | +1 | +0.3 | +1.2 | +0.8 | -9 +295 | +335 |

PRECIPITATION (IN.) - SNOWFALL (IN.) -

MONTH MAX MAX MONTH MAX MAX

TOTAL 1-DAY 24-HR TOTAL 1-DAY 24-HR MONTH  
5.02 1.37 1.64 12.4 6.6 8.0 *JAN*2.66 0.79 0.80 13.5 6.3 8.2 FEB   
4.58 1.97 2.30 2.3 1.9 1.9 MAR

5.33 1.91 1.91 APR

1.15 0.38 0.38 MAY

4.77 3.24 3.24 JUN

6.79 1.78 1.93 JUL

1.46 0.32 0.48 AUG

0.83 0.24 0.40 SEP

12.83 7.24 7.83 OCT

3.47 1.15 1.15 0.8 0.8 0.8 NOV   
4.09 1.02 1.46 10.6 7.5 7.5 DEC   
52.98 7.24 7.83 39.6 7.5 8.2 YEAR

+0.20 +9.7 DEP

ANNUAL TEMPERATURE EXTREMES AND FREEZE DATA. . .

HIGHEST MAXIMUM TEMPERATURE, DATE(S) 97, 8/13

LOWEST MAXIMUM TEMPERATURE, DATE(S) 15, 1/22

HIGHEST MINIMUM TEMPERATURE, DATE(S) 79, 8/13

LOWEST MINIMUM TEMPERATURE, DATE(S) 4, 1/28 1/29

HIGHEST AVERAGE TEMPERATURE, DATE(S) 88, 8/13

LOWEST AVERAGE TEMPERATURE, DATE(S) 10, 1/22

NO. OF DAYS WITH MINIMUM OF 32 OR BELOW ..: 103

NO. OF DAYS WITH MAXIMUM OF 32 OR BELOW ..: 17

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 .: 32, 4/16

TEMPERATURE & DATE OF FIRST FALL FREEZE ..: 32, 11/11

NO. OF DAYS BETWEEN (GROWING SEASON) • 209

ANNUAL PRECIPITATION EXTREMES. . .

NO. OF DAYS WITH A TRACE OF PRECIPITATION : 28   
NO. OF DAYS WITH 0.01 TO 0.09 IN. OF PCPN : 55   
NO. OF DAYS WITH 0.10 TO 0.49 IN. OF PCPN : 51   
NO. OF DAYS WITH 0.50 TO 0.99 IN. OF PCPN : 15   
NO. OF DAYS WITH 1.00 TO 1.99 IN. OF PCPN : 10   
NO. OF DAYS WITH 2.00 OR MORE IN. OF PCPN : 3

MAXIMUM ONE-DAY PRECIPITATION, DATE(S) : 7.24, 10/08

MAXIMUM FLOATING 24-HOUR PCPN, DATE(S) : 7.83, 10/07-08

NO. OF DAYS THUNDER OBSERVED 26 (DEP -9)

NO. OF DAYS WITH A TRACE OF SNOWFALL 15   
NO. OF DAYS WITH 0.1 TO 0.9 IN. OF SNOW ..: 14   
NO. OF DAYS WITH 1.0 TO 3.9 IN. OF SNOW ..: 7   
NO. OF DAYS WITH 4.0 TO 7.9 IN. OF SNOW ..: 3   
NO. OF DAYS WITH 8.0 OR MORE IN. OF SNOW .: 0

MAXIMUM ONE-DAY SNOWFALL, DATE(S) 7.5, 12/09

MAXIMUM FLOATING 24-HOUR SNOW, DATE(S) 8.2, 2/28-3/01   
NO. OF DAYS WITH 1 IN. OR MORE SNOW COVER : 50 (DEP +19)   
MAXIMUM DEPTH (IN.) OF SNOW & ICE, DATE ..: 8, 1/24

HIGHLIGHTS... •

* Year began unseasonably warm with max temp of 64 on 1 January.
* Balmy pre-dawn max temp of 67 on 14 January (no record) was grand finale to a persistently warmer than normal first half of January.
* Winter's first major snowfall of 8.0" spanned 22-23 January.
* Year's min temperature of 4 above occurred on 28 and 29 January.
* Persistent harsh cold of later January more than offset the warm first half such that January finished 0.9 degrees colder than average.
* A crescendo of snowfalls during the second half of February culminated with the   
  year's greatest single snowfall of 8.2" during the 28 February into 1 March

overnight and a February to 1 March total of 15.4".

* Four soaking rainfalls in quick succession totaled 7.47" from 22 March to   
  predawn of 8 April.
* A reversal of prolonged temperature anomalies during early June resulted in the   
  hottest June (74.4) following the coldest May (57.7) in 22 years of temperature   
  records.
* Regenerating thunderstorm downpours over Reading's western suburbs during the   
  mid-afternoon of 6 June resulted in 3.24" rainfall and penny-size hail. The   
  deluge was localized as the airport (KRDG), 4 miles to the N, collected only 0.21.
* Thunderstorms were in the area almost daily during the middle third of July;   
  however, their downpours were hit or miss. On 17 July, the table was turned as   
  KRDG collected 3.24" while Reading 4 SW collected 0.58. Reading 4 SW did collect   
  a total of 3.82" between 12 July and 19 July.
* The hottest day of 2005 came on 13 August with a max temp of 97 and a min temp   
  of 79, a new record for the warmest daily min temp in August.
* Both August and September set new hottest month records at Reading 4 SW with   
  averages of 77.4 and 71.2 respectively. However, ground moisture became scarce   
  despite many humid days because of a two-month rainfall total of only 2.29"   
  including a new September drought record of 0.83".

\*\* The incipient drought of 2005 was washed away in a big way during October whose rainfall totaled a strong new record of 12.83. The great contributor was the deluges of 7 and 8 October which brought 2.09" and 7.24" respectively. During 23 years of precipitation records, the 7.24" became the new greatest calendar day   
amount, and 7.83", spanned over those two days, became the new greatest floating   
24-hour amount.

* Winter came in like a Cheetah early with the arrival of the month of December.   
  The mad dash resulted in a series of pre-solstice snow and ice storms and harsh   
  cold including a 7.5" snowfall on 9 December and an unusually frigid combo on 14   
  December with a min temp of 5 above and a max temp of only 22. But this fast   
  winter cat quickly became exhausted by the winter solstice resulting in a   
  mellowing of the harsh conditions during the post-solstice part of December and   
  beyond. The “Cheetah” is still trying to catch its breath as of this writing on 10 January 2006.

•

•