

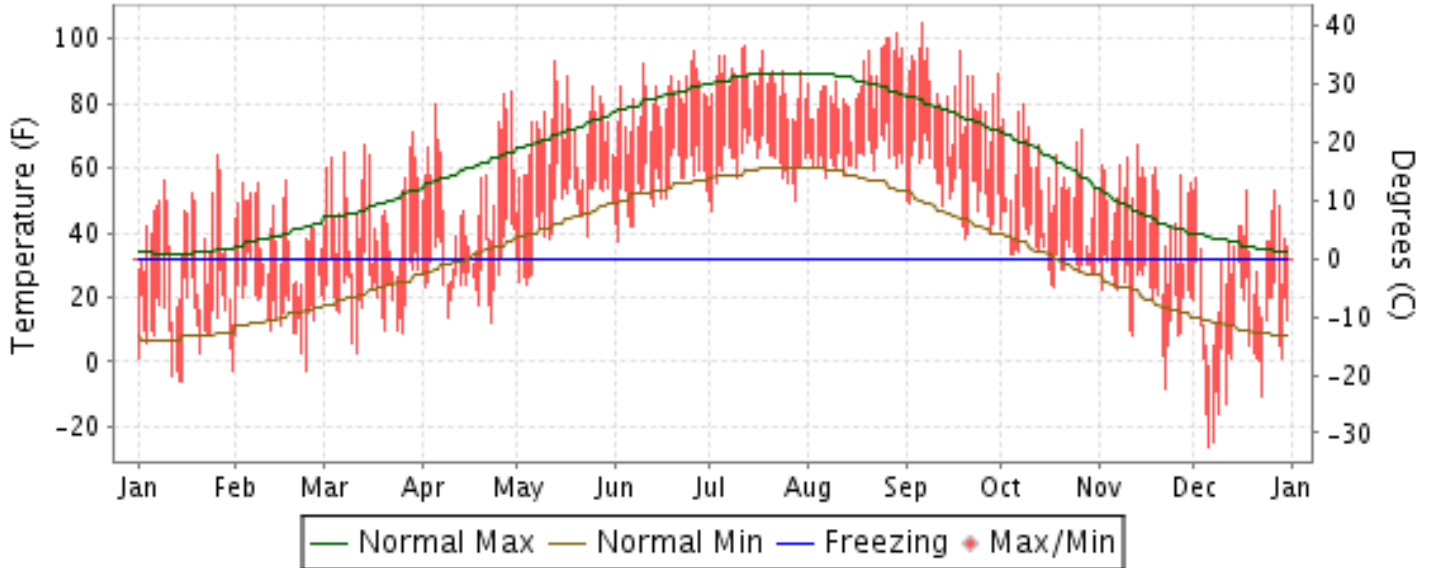


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

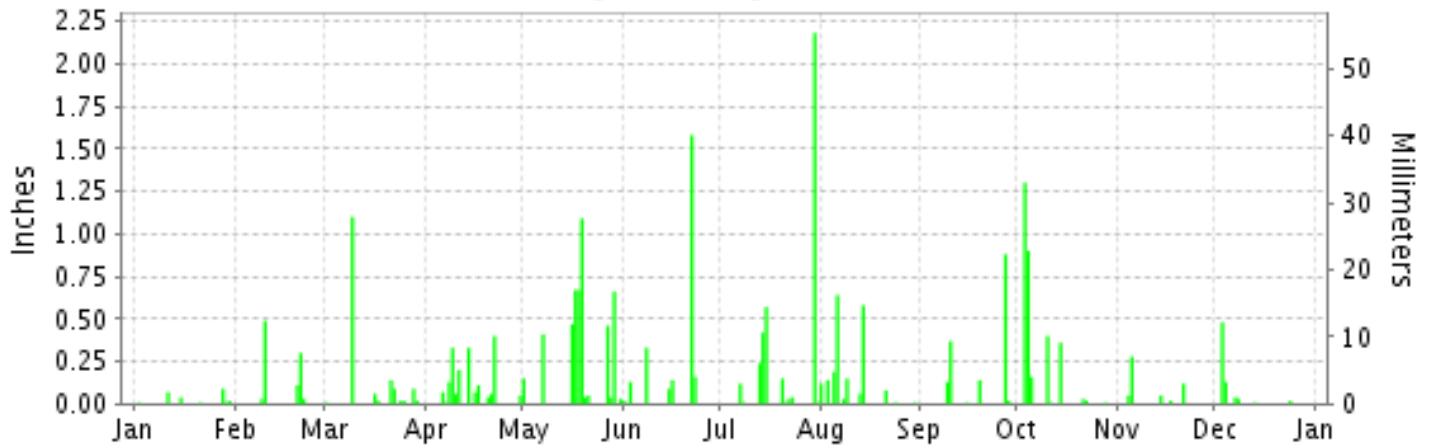
ISSN 0198-3237

VALENTINE, NEBRASKA (KVTN)

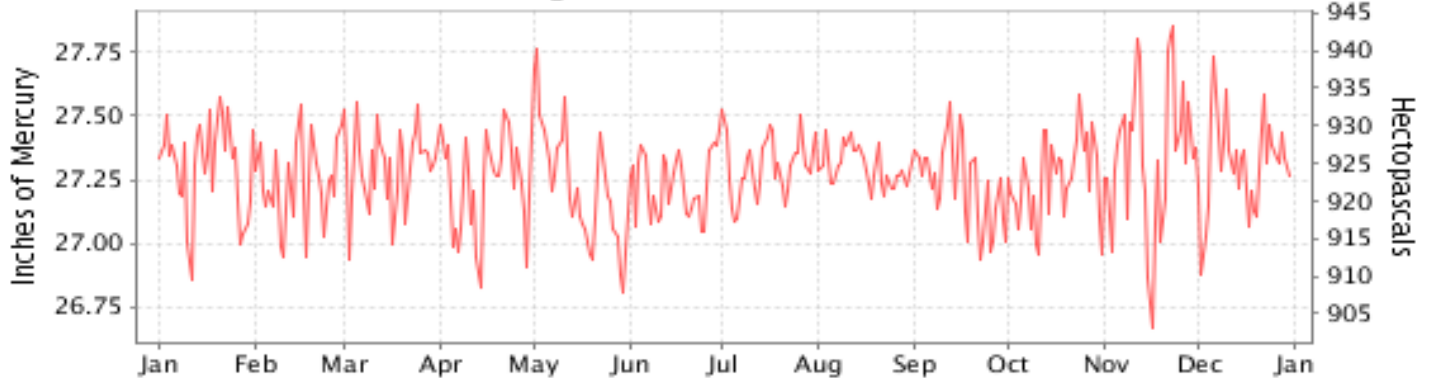
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

NATIONAL
OCEANIC AND
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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

VALENTINE (KVTN)

LATITUDE: 42° 52'N LONGITUDE: 100° 33'W ELEVATION (FT): GRND: 2590 BARO: 2589 TIME ZONE: CENTRAL (UTC -6) WBAN: 24032

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 36.8 | 39.9 | 47.3 | 52.5 | 70.9 | 80.9 | 86.6 | 86.4 | 82.7 | 57.2 | 49.0 | 30.8 | 60.1 | |
| | HIGHEST DAILY MAXIMUM | 64 | 56 | 71 | 84 | 93 | 96 | 98 | 102 | 105 | 80 | 67 | 57 | 105 | |
| | DATE OF OCCURRENCE | 26 | 17 | 29 | 29 | 13 | 26 | 12 | 29 | 06 | 08 | 13 | 02 | SEP 06 | |
| | MEAN DAILY MINIMUM | 11.6 | 16.9 | 20.7 | 28.0 | 45.2 | 54.7 | 61.7 | 63.3 | 54.1 | 34.4 | 20.2 | 6.1 | 34.7 | |
| | LOWEST DAILY MINIMUM | -6 | -3 | 3 | 12 | 24 | 37 | 47 | 57 | 38 | 23 | -8 | -26 | -26 | |
| | DATE OF OCCURRENCE | 15+ | 23 | 11 | 23 | 04 | 02 | 02 | 07 | 20 | 18 | 22 | 06 | DEC 06 | |
| | AVERAGE DRY BULB | 24.2 | 28.4 | 34.0 | 40.3 | 58.0 | 67.8 | 74.2 | 74.9 | 68.4 | 45.8 | 34.6 | 18.5 | 47.4 | |
| | MEAN WET BULB | 20.9 | 25.1 | 28.9 | 34.3 | 49.9 | 59.5 | 64.5 | 66.7 | 58.7 | 41.0 | 29.9 | 16.7 | 41.3 | |
| | MEAN DEW POINT | 15.2 | 19.5 | 21.8 | 26.4 | 41.8 | 53.7 | 58.7 | 62.5 | 52.1 | 35.2 | 23.2 | 11.7 | 35.2 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM >= 90° | 0 | 0 | 0 | 0 | 1 | 4 | 10 | 10 | 8 | 0 | 0 | 0 | 0 | 33 |
| | MAXIMUM <= 32° | 11 | 8 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 14 | 46 | |
| MINIMUM <= 32° | 30 | 27 | 29 | 22 | 6 | 0 | 0 | 0 | 0 | 12 | 29 | 31 | 186 | | |
| MINIMUM <= 0° | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 15 | | |
| H/C | HEATING DEGREE DAYS | 1259 | 1018 | 952 | 737 | 246 | 54 | 3 | 0 | 63 | 589 | 904 | 1433 | 7258 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 39 | 146 | 292 | 316 | 171 | 0 | 0 | 0 | 964 | |
| RH | MEAN (PERCENT) | 72 | 72 | 66 | 64 | 61 | 63 | 62 | 71 | 61 | 71 | 67 | 74 | 67 | |
| | HOUR 00 LST | 80 | 78 | 79 | 73 | 70 | 77 | 73 | 80 | 73 | 81 | 77 | 78 | 77 | |
| | HOUR 06 LST | 78 | 82 | 81 | 81 | 80 | 85 | 84 | 89 | 84 | 85 | 81 | 79 | 82 | |
| | HOUR 12 LST | 61 | 63 | 53 | 53 | 49 | 48 | 49 | 58 | 46 | 59 | 53 | 67 | 55 | |
| | HOUR 18 LST | 67 | 62 | 49 | 48 | 45 | 45 | 46 | 54 | 42 | 60 | 59 | 74 | 54 | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY <= 1/4 MI) | 0 | 2 | 2 | 0 | 3 | 0 | 2 | 2 | 0 | 0 | 1 | 2 | 14 | |
| | THUNDERSTORMS | 0 | 0 | 0 | 1 | 7 | 2 | 7 | 7 | 1 | 3 | 0 | 0 | 28 | |
| PR | MEAN STATION PRESS. (IN.) | 27.31 | 27.24 | 27.31 | 27.24 | 27.24 | 27.24 | 27.31 | 27.30 | 27.23 | 27.25 | 27.36 | 27.33 | 27.28 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.12 | 30.04 | 30.09 | 30.00 | 29.95 | 29.91 | 29.97 | 29.96 | 29.90 | 29.99 | 30.14 | 30.17 | 30.02 | |
| WINDS | RESULTANT SPEED (MPH) | 5.4 | 4.9 | 3.0 | 4.4 | 1.6 | 1.4 | 3.3 | 3.8 | 3.1 | 4.7 | 4.0 | 4.6 | 1.9 | |
| | RES. DIR. (TENS OF DEGS.) | 28 | 31 | 33 | 33 | 02 | 04 | 16 | 15 | 19 | 31 | 27 | 30 | 30 | |
| | MEAN SPEED (MPH) | 9.6 | 10.0 | 10.4 | 12.0 | 11.6 | 9.9 | 9.1 | 8.2 | 10.2 | 10.9 | 9.1 | 8.6 | 10.0 | |
| | PREVAIL.DIR.(TENS OF DEGS.) | 27 | 33 | 31 | 34 | 01 | 16 | 19 | 19 | 17 | 29 | 21 | 32 | 17 | |
| | MAXIMUM 2-MINUTE WIND | | | | | | | | | | | | | | |
| | SPEED (MPH) | 31 | 38 | 38 | 33 | 45 | 37 | 43 | 40 | 35 | 44 | 36 | 38 | 45 | |
| | DIR. (TENS OF DEGS.) | 20 | 31 | 32 | 29 | 29 | 36 | 06 | 20 | 24 | 18 | 33 | 33 | 29 | |
| | DATE OF OCCURRENCE | 09 | 14 | 04 | 14 | 18 | 22 | 30 | 30 | 30 | 11 | 01 | 28 | MAY 18 | |
| | MAXIMUM 3-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 41 | 52 | 51 | 45 | 56 | 48 | 54 | 48 | 44 | 56 | 51 | 52 | 56 | |
| DIR. (TENS OF DEGS.) | 31 | 32 | 32 | 29 | 29 | 32 | 06 | 19 | 25 | 17 | 31 | 32 | 17 | | |
| DATE OF OCCURRENCE | 11 | 14 | 04 | 14 | 18 | 08 | 30 | 30 | 30 | 11 | 01 | 28 | OCT 11 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.25 | 0.96 | 1.57 | 1.86 | 4.74 | 2.45 | 3.78 | 2.01 | 1.55 | 3.19 | 0.52 | 0.71 | 23.59 | |
| | GREATEST 24-HOUR (IN.) | 0.09 | 0.49 | 1.10 | 0.42 | 1.23 | 1.74 | 2.19 | 0.83 | 0.90 | 1.57 | 0.28 | 0.61 | 2.19 | |
| | DATE OF OCCURRENCE | 28 | 10 | 09 | 08-09 | 18-19 | 22-23 | 30-31 | 05-06 | 27-28 | 03-04 | 05 | 03-04 | JUL 30-31 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION 0.01 | 7 | 5 | 10 | 13 | 12 | 7 | 11 | 11 | 6 | 9 | 5 | 6 | 102 | | |
| PRECIPITATION 0.10 | 0 | 3 | 2 | 6 | 8 | 5 | 6 | 6 | 4 | 5 | 2 | 2 | 49 | | |
| PRECIPITATION 1.00 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 5 | | |
| SNOWFALL | SNOW,ICE PELLETS,HAIL | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 4.9 | 9.4 | 10.2 | 14.2 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 5.8 | 12.2 | 59.7 | |
| | GREATEST 24-HOUR (IN.) | 2.1 | 4.0 | 5.3 | 5.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 4.0 | 8.0 | 8.0 | |
| | DATE OF OCCURRENCE | 11 | 10 | 09 | 09 | 01 | | | | | 05 | 05 | 03 | DEC 03 | |
| | MAXIMUM SNOW DEPTH (IN.) | 2 | 5 | 4 | 7 | T | 0 | 0 | 0 | 0 | 0 | 2 | 11 | 11 | |
| | DATE OF OCCURRENCE | 16+ | 22 | 10+ | 11 | 01 | | | | | | 22+ | 05 | DEC 05 | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL >= 1.0 | 1 | 3 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 18 | | |

NORMALS, MEANS, AND EXTREMES VALENTINE (KVTN)

LATITUDE: 42° 52'N **LONGITUDE:** 100° 33'W **ELEVATION (FT):** GRND: 2590 BARO: 2589 **TIME ZONE:** CENTRAL (UTC -6) **WBAN: 24032**

| | ELEMENT | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|-----------------------|---------------------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 36.5 | 40.0 | 49.3 | 60.3 | 70.9 | 81.1 | 88.7 | 87.0 | 77.3 | 63.0 | 47.7 | 36.6 | 61.5 |
| | MEAN DAILY MAXIMUM | 66 | 33.8 | 37.6 | 46.6 | 59.0 | 70.6 | 80.4 | 88.6 | 86.8 | 76.3 | 63.7 | 47.4 | 36.7 | 60.6 |
| | HIGHEST DAILY MAXIMUM | 59 | 72 | 78 | 87 | 100 | 99 | 110 | 114 | 108 | 105 | 96 | 86 | 74 | 114 |
| | YEAR OF OCCURRENCE | | 1987 | 1982 | 2012 | 1992 | 2009 | 1988 | 1990 | 2012 | 2013 | 1993 | 1999 | 1998 | JUL 1990 |
| | MEAN OF EXTREME MAXS. | 66 | 59.4 | 62.7 | 75.6 | 85.0 | 91.7 | 98.1 | 103.7 | 102.0 | 96.5 | 86.6 | 73.0 | 60.8 | 82.9 |
| | NORMAL DAILY MINIMUM | 30 | 10.7 | 14.4 | 23.1 | 33.0 | 44.3 | 54.0 | 60.4 | 58.7 | 47.4 | 33.9 | 21.2 | 11.0 | 34.3 |
| | MEAN DAILY MINIMUM | 66 | 8.1 | 12.6 | 21.3 | 32.6 | 44.2 | 53.7 | 60.5 | 58.3 | 46.6 | 34.2 | 21.1 | 11.3 | 33.7 |
| | LOWEST DAILY MINIMUM | 59 | -30 | -31 | -29 | 3 | 18 | 30 | 38 | 34 | 17 | -1 | -22 | -39 | -39 |
| | YEAR OF OCCURRENCE | | 1988 | 1994 | 1980 | 1997 | 2005 | 1969 | 1971 | 1988 | 1991 | 1991 | 1959 | 1989 | DEC 1989 |
| | MEAN OF EXTREME MINS. | 66 | -15.2 | -11.7 | -1.6 | 15.5 | 27.6 | 40.1 | 47.9 | 44.4 | 29.8 | 16.6 | 0.1 | -13.0 | 15.0 |
| | NORMAL DRY BULB | 30 | 23.6 | 27.2 | 36.2 | 46.7 | 57.6 | 67.5 | 74.5 | 72.8 | 62.3 | 48.5 | 34.4 | 23.8 | 47.9 |
| | MEAN DRY BULB | 66 | 21.0 | 25.1 | 33.9 | 45.8 | 57.4 | 67.2 | 74.6 | 72.6 | 61.5 | 49.0 | 34.3 | 24.0 | 47.2 |
| | MEAN WET BULB | 30 | 18.9 | 21.5 | 29.2 | 37.6 | 48.0 | 57.3 | 62.1 | 60.8 | 50.9 | 39.2 | 27.3 | 19.4 | 39.4 |
| | MEAN DEW POINT | 30 | 15.8 | 18.0 | 25.6 | 33.3 | 44.5 | 54.2 | 59.1 | 57.6 | 47.2 | 35.2 | 24.3 | 16.0 | 35.9 |
| | NORMAL NO. DAYS WITH: MAXIMUM >= 90 | 30 | 0.0 | 0.0 | 0.0 | 0.3 | 1.1 | 5.5 | 13.8 | 12.3 | 4.6 | 0.6 | 0.0 | 0.0 | 38.2 |
| | MAXIMUM <= 32 | 30 | 11.1 | 8.3 | 4.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 4.8 | 10.7 | 40.1 |
| | MINIMUM <= 32 | 30 | 30.7 | 27.0 | 25.3 | 13.2 | 2.5 | 0.0 | 0.0 | 0.0 | 1.4 | 11.8 | 25.7 | 30.6 | 168.2 |
| MINIMUM <= 0 | 30 | 6.6 | 4.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 5.3 | 18.5 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1283 | 1058 | 893 | 554 | 259 | 61 | 8 | 17 | 160 | 517 | 916 | 1277 | 7003 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 4 | 30 | 137 | 304 | 261 | 81 | 4 | 0 | 0 | 821 |
| RH | NORMAL (PERCENT) | 30 | 69 | 67 | 65 | 59 | 61 | 61 | 59 | 61 | 58 | 61 | 67 | 67 | 63 |
| | HOURLY 00 LST | 30 | 73 | 74 | 73 | 68 | 71 | 71 | 70 | 71 | 67 | 69 | 72 | 72 | 71 |
| | HOURLY 06 LST | 30 | 75 | 76 | 79 | 76 | 79 | 79 | 78 | 81 | 76 | 76 | 76 | 74 | 77 |
| | HOURLY 12 LST | 30 | 60 | 58 | 54 | 47 | 47 | 47 | 46 | 47 | 43 | 45 | 54 | 58 | 51 |
| | HOURLY 18 LST | 30 | 63 | 58 | 50 | 44 | 45 | 44 | 42 | 42 | 40 | 46 | 59 | 62 | 50 |
| S | PERCENT POSSIBLE SUNSHINE | 29 | 63 | 62 | 59 | 59 | 62 | 69 | 76 | 76 | 71 | 68 | 61 | 60 | 66 |
| W/O | MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI) | 31 | 1.1 | 1.3 | 1.7 | 1.4 | 0.6 | 0.7 | 1.1 | 1.3 | 1.2 | 1.1 | 1.1 | 0.8 | 13.4 |
| | THUNDERSTORMS | 32 | 0.0 | 0.1 | 0.6 | 2.5 | 6.6 | 10.2 | 11.3 | 9.5 | 4.7 | 1.8 | 0.1 | 0.0 | 47.4 |
| CLOUDINESS | MEAN: SUNRISE-SUNSET (OKTAS) | | | | 6.4 | | | 3.2 | | | | | | | |
| | MIDNIGHT-MIDNIGHT (OKTAS) | | | | | | | 3.2 | | | | | | | |
| | MEAN NO. DAYS WITH: CLEAR | | | 4.0 | 7.0 | | 1.0 | 9.0 | | | | | | | |
| | PARTLY CLOUDY | 1 | 1.0 | 4.0 | 4.0 | | 3.0 | 7.0 | | | | | | | |
| CLOUDY | 1 | 5.0 | 4.0 | 9.0 | | 10.0 | 3.0 | | | | | | | | |
| PR | MEAN STATION PRESSURE(IN) | 30 | 27.30 | 27.29 | 27.25 | 27.22 | 27.21 | 27.22 | 27.27 | 27.29 | 27.29 | 27.29 | 27.28 | 27.29 | 27.27 |
| | MEAN SEA-LEVEL PRES. (IN) | 30 | 30.12 | 30.12 | 30.02 | 29.95 | 29.91 | 29.88 | 29.92 | 29.95 | 29.98 | 30.02 | 30.06 | 30.12 | 30.00 |
| WINDS | MEAN SPEED (MPH) | 30 | 9.3 | 9.4 | 10.3 | 11.2 | 11.1 | 10.1 | 9.2 | 9.2 | 9.7 | 9.7 | 9.5 | 9.3 | 9.8 |
| | PREVAIL.DIR.(TENS OF DEGS) | 30 | 33 | 33 | 34 | 34 | 34 | 17 | 17 | 19 | 19 | 31 | 30 | 30 | 30 |
| | MAXIMUM 2-MINUTE: SPEED (MPH) | 18 | 47 | 52 | 46 | 49 | 54 | 62 | 60 | 62 | 48 | 51 | 52 | 46 | 62 |
| | DIR. (TENS OF DEGS) | | 33 | 30 | 26 | 17 | 09 | 29 | 32 | 28 | 17 | 24 | 33 | 33 | 28 |
| | YEAR OF OCCURRENCE | | 2009 | 1996 | 2012 | 2010 | 2008 | 2010 | 2005 | 2012 | 2011 | 2010 | 2005 | 2008 | AUG 2012 |
| | MAXIMUM 3-SECOND SPEED (MPH) | 18 | 62 | 63 | 63 | 68 | 69 | 76 | 79 | 81 | 59 | 70 | 62 | 62 | 81 |
| | DIR. (TENS OF DEGS) | | 34 | 30 | 27 | 18 | 22 | 29 | 31 | 36 | 17 | 26 | 33 | 34 | 36 |
| | YEAR OF OCCURRENCE | | 2009 | 1996 | 2012 | 2010 | 2010 | 2010 | 2010 | 2005 | 2010 | 2011 | 2010 | 2005 | 2008 |
| PRECIPITATION | NORMAL (IN) | 30 | 0.26 | 0.48 | 1.07 | 2.22 | 3.13 | 3.56 | 3.21 | 2.18 | 1.64 | 1.25 | 0.65 | 0.37 | 20.02 |
| | MAXIMUM MONTHLY (IN) | 58 | 0.82 | 2.27 | 4.23 | 5.49 | 8.96 | 7.71 | 8.96 | 6.71 | 5.91 | 3.97 | 2.62 | 1.81 | 8.96 |
| | YEAR OF OCCURRENCE | | 1979 | 2012 | 1977 | 2001 | 1962 | 2005 | 1983 | 1966 | 1973 | 1995 | 1985 | 1987 | JUL 1983 |
| | MINIMUM MONTHLY (IN) | 58 | T | 0.01 | 0.01 | 0.25 | 0.26 | 0.44 | 0.08 | 0.12 | 0.11 | T | 0.01 | T | 0.01 |
| | YEAR OF OCCURRENCE | | 1961 | 1957 | 1997 | 1967 | 2006 | 1976 | 2012 | 2000 | 1958 | 1958 | 1962 | 1991 | MAR 1997 |
| | MAXIMUM IN 24 HOURS (IN) | 58 | 0.66 | 1.55 | 1.64 | 1.95 | 2.83 | 2.96 | 3.87 | 3.38 | 2.45 | 2.42 | 1.12 | 1.23 | 3.87 |
| | YEAR OF OCCURRENCE | | 1988 | 2012 | 1977 | 2005 | 1962 | 1992 | 1998 | 1971 | 1973 | 1997 | 1985 | 1987 | JUL 1998 |
| | NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01 | 30 | 3.9 | 5.0 | 7.1 | 9.1 | 11.4 | 11.1 | 9.5 | 7.9 | 7.1 | 6.7 | 4.6 | 4.5 | 87.9 |
| PRECIPITATION >= 1.00 | 30 | 0.0 | 0.0 | 0.0 | 0.2 | 0.7 | 0.8 | 0.8 | 0.5 | 0.2 | 0.1 | 0.1 | 0.0 | 3.4 | |
| SNOWFALL | NORMAL (IN) | 30 | 3.8 | 5.6 | 6.5 | 4.6 | 0.1 | 0.0 | 0.0 | 0.0 | 0.7 | 1.5 | 5.4 | 5.1 | 33.3 |
| | MAXIMUM MONTHLY (IN) | 56 | 15.2 | 17.5 | 51.0 | 30.4 | 3.3 | T | 0.0 | T | 18.4 | 12.4 | 34.5 | 22.5 | 51.0 |
| | YEAR OF OCCURRENCE | | 1982 | 1962 | 1977 | 1995 | 1979 | 1991 | 1991 | 1990 | 1985 | 1995 | 1985 | 1987 | MAR 1977 |
| | MAXIMUM IN 24 HOURS (IN) | 56 | 7.1 | 8.3 | 24.0 | 12.8 | 3.3 | T | 0.0 | T | 18.4 | 6.2 | 13.5 | 18.3 | 24.0 |
| | YEAR OF OCCURRENCE' | | 1988 | 1977 | 1977 | 1995 | 1979 | 1991 | 1991 | 1990 | 1985 | 1995 | 1985 | 1987 | MAR 1977 |
| | MAXIMUM SNOW DEPTH (IN) | 51 | 18 | 15 | 16 | 12 | 2 | 0 | 0 | 0 | 10 | 4 | 19 | 22 | 22 |
| | YEAR OF OCCURRENCE | | 1988 | 1979 | 2006 | 1995 | 1979 | 1995 | 1979 | 1995 | 1985 | 1995 | 1985 | 1987 | DEC 1987 |
| | NORMAL NO. DAYS WITH: SNOWFALL >= 1.0 | 30 | 1.5 | 2.0 | 2.1 | 1.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 1.7 | 1.6 | 10.9 |

PRECIPITATION (inches) 2013 VALENTINE (KVTN)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1984 | 0.11 | 0.34 | 0.90 | 3.40 | 2.73 | 2.09 | 6.53 | 1.40 | 0.57 | 0.55 | 0.57 | 0.12 | 19.31 |
| 1985 | 0.56 | 0.06 | 0.57 | 1.54 | 0.70 | 2.23 | 2.03 | 2.90 | 2.58 | 0.82 | 2.62 | 0.29 | 16.90 |
| 1986 | 0.11 | 0.61 | 1.96 | 2.63 | 2.95 | 2.31 | 2.36 | 2.47 | 2.70 | 2.06 | 0.59 | T | 20.75 |
| 1987 | 0.13 | 1.33 | 2.51 | 0.55 | 3.78 | 3.46 | 3.31 | 3.38 | 0.86 | 0.57 | 1.97 | 1.81 | 23.66 |
| 1988 | 0.78 | 0.66 | 0.55 | 1.92 | 4.54 | 3.36 | 2.25 | 3.36 | 1.70 | 0.08 | 0.62 | 0.18 | 20.00 |
| 1989 | 0.02 | 0.74 | 0.74 | 0.48 | 1.24 | 1.33 | 2.85 | 2.05 | 1.95 | 0.57 | 0.12 | 0.33 | 12.42 |
| 1990 | 0.04 | 0.51 | 1.31 | 1.20 | 4.43 | 2.03 | 3.10 | 2.36 | 0.67 | 0.51 | 0.64 | 0.27 | 17.07 |
| 1991 | 0.15 | 0.59 | 1.77 | 2.65 | 4.80 | 5.03 | 2.33 | 2.59 | 0.56 | 1.52 | 1.26 | T | 23.25 |
| 1992 | 0.54 | 0.21 | 1.41 | 0.79 | 0.81 | 5.40 | 2.25 | 4.44 | 1.38 | 0.43 | 0.48 | 0.14 | 18.28 |
| 1993 | 0.43 | 0.74 | 0.99 | 3.54 | 1.11 | 3.92 | 3.23 | 2.40 | 1.78 | 1.08 | 1.08 | 0.50 | 20.80 |
| 1994 | 0.31 | 0.45 | 0.26 | 1.86 | 1.10 | 4.40 | 4.14 | 3.35 | 0.37 | 1.11 | 0.45 | 0.64 | 18.44 |
| 1995 | 0.02 | 0.55 | 1.32 | 3.67 | 5.76 | 3.82 | 1.90 | 0.78 | 2.93 | 3.97 | 0.10 | 0.06 | 24.88 |
| 1996 | 0.53 | 0.17 | 0.13 | 1.27 | 4.63 | 2.33 | .78 | .57 | 4.47 | 1.28 | .41 | .14 | 16.71 |
| 1997 | 0.20 | 0.31 | 0.01 | 3.41 | 2.72 | 3.55 | 4.73 | 1.70 | 1.85 | 2.70 | 0.27 | 0.03 | 21.48 |
| 1998 | 0.10 | 0.24 | 0.96 | 1.25 | 3.44 | 5.07 | 6.15 | 1.67 | 0.62 | 3.54 | 1.43 | 0.04 | 24.51 |
| 1999 | 0.15 | 0.72 | 0.43 | 3.12 | 2.57 | 4.38 | 3.76 | 0.62 | 3.39 | 0.05 | 0.09 | 0.11 | 19.39 |
| 2000 | 0.23 | 1.16 | 0.68 | 2.67 | 3.67 | 3.22 | 4.66 | 0.12 | 0.50 | 2.08 | 0.31 | 0.18 | 19.48 |
| 2001 | 0.50 | 0.23 | 0.33 | 5.49 | 3.11 | 2.13 | 3.05 | 1.72 | 1.93 | 0.50 | 1.57 | T | 20.56 |
| 2002 | 0.01 | 0.25 | 1.25 | 1.48 | 2.72 | 0.49 | 0.65 | 2.47 | 1.18 | 0.48 | 0.04 | 0.20 | 11.22 |
| 2003 | 0.31 | 0.27 | 1.17 | 2.27 | 3.14 | 4.14 | 1.68 | 0.87 | 0.59 | 0.43 | 0.48 | 0.41 | 15.76 |
| 2004 | 0.08 | 0.97 | 1.07 | 0.91 | 3.71 | 3.32 | 1.66 | 1.14 | 3.11 | 0.82 | 0.48 | 0.01 | 17.28 |
| 2005 | 0.56 | 0.20 | 1.29 | 4.57 | 2.63 | 7.71 | 3.31 | 2.40 | 2.39 | 0.61 | 0.35 | 0.23 | 26.25 |
| 2006 | 0.19 | 0.23 | 1.30 | 3.13 | 0.26 | 3.02 | 0.28 | 2.77 | 1.71 | 0.46 | 0.16 | 1.11 | 14.62 |
| 2007 | 0.25 | 0.90 | 2.04 | 2.66 | 5.56 | 5.17 | 0.56 | 3.39 | 0.89 | 2.79 | 0.02 | 0.91 | 25.14 |
| 2008 | 0.24 | 0.48 | 1.04 | 1.39 | 3.53 | 4.48 | 3.66 | 1.06 | 2.31 | 1.98 | 0.34 | 0.24 | 20.75 |
| 2009 | 0.42 | 0.89 | 1.02 | 2.84 | 1.50 | 3.93 | 5.13 | 3.47 | 0.56 | 1.61 | 0.05 | 0.37 | 21.79 |
| 2010 | 0.27 | 0.35 | 1.20 | 3.11 | 1.98 | 3.91 | 2.24 | 2.00 | 0.89 | 0.70 | 0.15 | 0.86 | 17.66 |
| 2011 | 0.74 | 0.87 | 1.42 | 1.87 | 3.87 | 3.56 | 3.08 | 3.12 | 1.09 | 1.71 | 0.44 | 0.20 | 21.97 |
| 2012 | 0.19 | 2.27 | 0.31 | 2.99 | 0.69 | 1.72 | 0.08 | 0.99 | 0.22 | 0.46 | 0.47 | 0.29 | 10.68 |
| 2013 | 0.25 | 0.96 | 1.57 | 1.86 | 4.74 | 2.45 | 3.78 | 2.01 | 1.55 | 3.19 | 0.52 | 0.71 | 23.59 |
| POR= 66 YRS | 0.28 | 0.53 | 0.96 | 2.03 | 3.02 | 3.24 | 2.77 | 2.29 | 1.52 | 1.08 | 0.51 | 0.35 | 18.58 |

WBAN : 24032

AVERAGE TEMPERATURE (°F) 2013 VALENTINE (KVTN)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1984 | 21.8 | 32.0 | 32.2 | 42.5 | 56.7 | 67.8 | 73.9 | 75.0 | 57.3 | 47.5 | 35.2 | 21.3 | 46.9 |
| 1985 | 17.7 | 21.6 | 37.2 | 51.3 | 62.5 | 64.1 | 75.2 | 69.5 | 58.3 | 47.6 | 18.0 | 15.9 | 44.9 |
| 1986 | 26.7 | 24.3 | 41.6 | 45.3 | 56.7 | 70.2 | 74.3 | 68.7 | 59.0 | 48.3 | 31.0 | 29.3 | 48.0 |
| 1987 | 28.5 | 33.0 | 33.2 | 50.9 | 62.8 | 69.7 | 76.5 | 68.9 | 60.2 | 45.4 | 37.8 | 26.2 | 49.4 |
| 1988 | 13.2 | 21.0 | 34.5 | 45.9 | 60.8 | 76.4 | 75.3 | 73.2 | 61.0 | 47.3 | 35.7 | 26.2 | 47.5 |
| 1989 | 27.8 | 13.8 | 32.2 | 48.1 | 58.2 | 65.5 | 76.8 | 73.0 | 61.8 | 49.5 | 35.4 | 16.3 | 46.5 |
| 1990 | 31.7 | 28.2 | 36.9 | 46.0 | 56.0 | 70.3 | 72.2 | 72.4 | 66.2 | 49.0 | 38.3 | 17.2 | 48.7 |
| 1991 | 17.2 | 34.0 | 37.5 | 47.8 | 59.7 | 71.5 | 74.1 | 73.7 | 62.6 | 46.1 | 28.9 | 29.6 | 48.6 |
| 1992 | 28.8 | 34.8 | 39.0 | 48.1 | 59.2 | 64.2 | 65.7 | 66.4 | 62.2 | 49.1 | 30.2 | 20.6 | 47.4 |
| 1993 | 17.7 | 16.5 | 36.0 | 44.0 | 57.1 | 63.9 | 69.9 | 69.5 | 57.3 | 46.8 | 29.0 | 28.7 | 44.7 |
| 1994 | 18.5 | 17.0 | 38.4 | 46.5 | 62.1 | 68.8 | 70.2 | 71.4 | 64.4 | 50.7 | 36.7 | 28.0 | 47.7 |
| 1995 | 26.5 | 31.5 | 35.9 | 40.3 | 52.8 | 66.7 | 74.2 | 77.0 | 62.1 | 46.5 | 35.2 | 28.8 | 48.1 |
| 1996 | 16.4 | 27.7 | 26.9 | 44.4 | 54.9 | 68.1 | 72.0 | 72.4 | 59.6 | 48.5 | 25.4 | 17.4 | 44.5 |
| 1997 | 17.3 | 28.2 | 38.0 | 39.9 | 53.6 | 68.7 | 73.5 | 70.8 | 64.9 | 50.2 | 32.3 | 29.3 | 47.2 |
| 1998 | 24.3 | 34.6 | 28.7 | 46.6 | 59.3 | 62.7 | 75.3 | 73.8 | 69.3 | 49.3 | 39.3 | 28.0 | 49.3 |
| 1999 | 25.3 | 36.3 | 39.1 | 45.2 | 56.4 | 66.7 | 74.5 | 73.3 | 58.2 | 48.6 | 43.4 | 30.9 | 49.8 |
| 2000 | 25.7 | 33.4 | 40.0 | 46.2 | 59.1 | 64.6 | 74.3 | 75.3 | 64.0 | 50.5 | 26.0 | 18.4 | 48.1 |
| 2001 | 29.5 | 22.5 | 35.9 | 49.7 | 58.2 | 67.7 | 77.0 | 74.6 | 63.9 | 49.7 | 40.1 | 26.5 | 49.6 |
| 2002 | 27.2 | 31.1 | 25.3 | 46.7 | 53.7 | 72.5 | 79.6 | 72.9 | 63.1 | 40.4 | 35.5 | 29.9 | 48.2 |
| 2003 | 24.2 | 21.8 | 36.2 | 48.5 | 56.8 | 65.6 | 75.8 | 76.6 | 60.6 | 52.6 | 31.4 | 29.0 | 48.3 |
| 2004 | 23.0 | 26.5 | 41.4 | 49.4 | 58.8 | 62.4 | 73.3 | 68.9 | 65.6 | 50.3 | 37.4 | 30.7 | 49.0 |
| 2005 | 21.2 | 33.1 | 36.8 | 48.5 | 55.8 | 69.7 | 75.3 | 73.0 | 67.2 | 49.7 | 39.0 | 23.0 | 49.4 |
| 2006 | 36.6 | 24.7 | 32.3 | 51.1 | 59.5 | 71.0 | 79.7 | 73.1 | 57.3 | 45.5 | 35.0 | 27.0 | 49.4 |
| 2007 | 21.7 | 19.6 | 44.3 | 45.1 | 61.6 | 68.8 | 77.7 | 74.9 | 64.0 | 51.1 | 38.2 | 22.2 | 49.1 |
| 2008 | 20.3 | 25.5 | 35.6 | 44.1 | 54.4 | 65.2 | 75.2 | 72.9 | 61.5 | 49.0 | 36.0 | 18.8 | 46.5 |
| 2009 | 24.6 | 29.0 | 35.3 | 44.3 | 58.1 | 65.0 | 69.6 | 69.0 | 63.0 | 40.6 | 40.4 | 16.1 | 46.3 |
| 2010 | 22.7 | 22.6 | 40.0 | 49.7 | 55.7 | 68.0 | 76.5 | 75.9 | 62.2 | 53.1 | 34.0 | 23.1 | 48.6 |
| 2011 | 17.1 | 21.9 | 33.7 | 45.4 | 55.1 | 67.5 | 78.3 | 73.9 | 60.0 | 51.3 | 36.9 | 28.5 | 47.5 |
| 2012 | 29.6 | 27.3 | 48.9 | 52.1 | 59.3 | 74.5 | 82.6 | 73.8 | 64.4 | 47.0 | 37.1 | 26.9 | 52.0 |
| 2013 | 24.2 | 28.4 | 34.0 | 40.3 | 58.0 | 67.8 | 74.2 | 74.9 | 68.4 | 45.8 | 34.6 | 18.5 | 47.4 |
| POR= 66 YRS | 21.0 | 25.1 | 33.9 | 45.8 | 57.4 | 67.2 | 74.6 | 72.6 | 61.5 | 49.0 | 34.3 | 24.0 | 47.2 |

HEATING DEGREE DAYS (base 65°F) 2013 VALENTINE (KVTN)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1984-85 | 0 | 0 | 280 | 542 | 886 | 1351 | 1461 | 1211 | 854 | 415 | 136 | 112 | 7248 |
| 1985-86 | 13 | 29 | 279 | 531 | 1404 | 1517 | 1182 | 1134 | 720 | 591 | 264 | 20 | 7684 |
| 1986-87 | 0 | 36 | 189 | 511 | 1013 | 1098 | 1126 | 893 | 976 | 424 | 124 | 35 | 6425 |
| 1987-88 | 10 | 50 | 170 | 601 | 811 | 1198 | 1600 | 1270 | 936 | 570 | 204 | 4 | 7424 |
| 1988-89 | 6 | 21 | 160 | 543 | 871 | 1195 | 1144 | 1428 | 1013 | 523 | 234 | 91 | 7229 |
| 1989-90 | 5 | 11 | 169 | 471 | 882 | 1505 | 1026 | 1025 | 864 | 581 | 292 | 26 | 6857 |
| 1990-91 | 25 | 0 | 117 | 501 | 795 | 1479 | 1476 | 861 | 845 | 514 | 207 | 1 | 6821 |
| 1991-92 | 1 | 2 | 167 | 585 | 1076 | 1089 | 1115 | 867 | 800 | 515 | 211 | 70 | 6498 |
| 1992-93 | 49 | 75 | 141 | 491 | 1039 | 1370 | 1462 | 1354 | 892 | 623 | 244 | 100 | 7840 |
| 1993-94 | 5 | 31 | 253 | 561 | 1076 | 1116 | 1435 | 1339 | 822 | 558 | 149 | 36 | 7381 |
| 1994-95 | 13 | 22 | 111 | 435 | 841 | 1139 | 1190 | 932 | 895 | 733 | 370 | 85 | 6766 |
| 1995-96 | 11 | 3 | 183 | 571 | 885 | 1115 | 1503 | 1073 | 1175 | 611 | 322 | 50 | 7502 |
| 1996-97 | 1 | 0 | 218 | 511 | 1185 | 1466 | 1472 | 1023 | 830 | 745 | 350 | 29 | 7830 |
| 1997-98 | 18 | 16 | 105 | 474 | 974 | 1101 | 1256 | 844 | 1118 | 546 | 211 | 124 | 6787 |
| 1998-99 | 3 | 0 | 52 | 480 | 764 | 1140 | 1221 | 796 | 796 | 589 | 264 | 63 | 6168 |
| 1999-00 | 5 | 6 | 227 | 502 | 642 | 1049 | 1209 | 910 | 769 | 558 | 202 | 99 | 6178 |
| 2000-01 | 2 | 9 | 147 | 444 | 1163 | 1434 | 1095 | 1183 | 897 | 467 | 229 | 85 | 7155 |
| 2001-02 | 5 | 2 | 111 | 472 | 736 | 1187 | 1164 | 941 | 1222 | 541 | 367 | 26 | 6774 |
| 2002-03 | 3 | 13 | 161 | 756 | 877 | 1078 | 1255 | 1202 | 883 | 492 | 269 | 66 | 7055 |
| 2003-04 | 0 | 3 | 204 | 384 | 1003 | 1107 | 1297 | 1112 | 724 | 462 | 225 | 124 | 6645 |
| 2004-05 | 11 | 47 | 103 | 452 | 820 | 1057 | 1352 | 890 | 866 | 489 | 294 | 30 | 6411 |
| 2005-06 | 8 | 14 | 71 | 481 | 771 | 1295 | 872 | 1122 | 1010 | 415 | 231 | 13 | 6303 |
| 2006-07 | 0 | 13 | 240 | 609 | 893 | 1172 | 1335 | 1266 | 634 | 590 | 157 | 37 | 6946 |
| 2007-08 | 0 | 8 | 141 | 431 | 800 | 1322 | 1380 | 1136 | 908 | 621 | 324 | 47 | 7118 |
| 2008-09 | 3 | 3 | 142 | 491 | 866 | 1426 | 1249 | 1002 | 915 | 615 | 242 | 108 | 7062 |
| 2009-10 | 15 | 22 | 111 | 753 | 734 | 1507 | 1305 | 1185 | 768 | 450 | 333 | 36 | 7219 |
| 2010-11 | 0 | 4 | 124 | 371 | 924 | 1291 | 1477 | 1201 | 965 | 582 | 319 | 45 | 7303 |
| 2011-12 | 0 | 0 | 184 | 439 | 832 | 1124 | 1089 | 1088 | 497 | 396 | 211 | 5 | 5865 |
| 2012-13 | 0 | 6 | 112 | 552 | 831 | 1175 | 1259 | 1018 | 952 | 737 | 246 | 54 | 6942 |
| 2013- | 3 | 0 | 63 | 589 | 904 | 1433 | | | | | | | |

WBAN : 24032

COOLING DEGREE DAYS (base 65°F) 2013 VALENTINE (KVTN)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1984 | 0 | 0 | 0 | 0 | 38 | 134 | 280 | 318 | 55 | 5 | 0 | 0 | 830 |
| 1985 | 0 | 0 | 0 | 9 | 66 | 92 | 337 | 176 | 87 | 0 | 0 | 0 | 767 |
| 1986 | 0 | 0 | 0 | 4 | 15 | 185 | 295 | 160 | 15 | 0 | 0 | 0 | 674 |
| 1987 | 0 | 0 | 0 | 11 | 61 | 184 | 372 | 178 | 34 | 0 | 0 | 0 | 840 |
| 1988 | 0 | 0 | 0 | 4 | 80 | 351 | 331 | 285 | 48 | 0 | 0 | 0 | 1099 |
| 1989 | 0 | 0 | 0 | 19 | 29 | 110 | 378 | 265 | 81 | 0 | 0 | 0 | 882 |
| 1990 | 0 | 0 | 0 | 16 | 17 | 192 | 257 | 237 | 160 | 12 | 0 | 0 | 891 |
| 1991 | 0 | 0 | 0 | 4 | 52 | 203 | 290 | 281 | 102 | 5 | 0 | 0 | 937 |
| 1992 | 0 | 0 | 0 | 14 | 41 | 54 | 74 | 125 | 63 | 6 | 0 | 0 | 377 |
| 1993 | 0 | 0 | 0 | 0 | 7 | 73 | 163 | 179 | 28 | 5 | 0 | 0 | 455 |
| 1994 | 0 | 0 | 0 | 9 | 67 | 156 | 183 | 227 | 97 | 0 | 0 | 0 | 739 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 147 | 304 | 383 | 103 | 5 | 0 | 0 | 942 |
| 1996 | 0 | 0 | 0 | 0 | 18 | 149 | 224 | 233 | 64 | 6 | 0 | 0 | 694 |
| 1997 | 0 | 0 | 0 | 0 | 6 | 146 | 287 | 204 | 110 | 23 | 0 | 0 | 776 |
| 1998 | 0 | 0 | 0 | 1 | 42 | 61 | 331 | 282 | 189 | 0 | 0 | 0 | 906 |
| 1999 | 0 | 0 | 0 | 0 | 8 | 121 | 308 | 271 | 31 | 2 | 0 | 0 | 741 |
| 2000 | 0 | 0 | 0 | 0 | 27 | 93 | 299 | 333 | 124 | 0 | 0 | 0 | 876 |
| 2001 | 0 | 0 | 0 | 16 | 27 | 171 | 383 | 308 | 85 | 3 | 0 | 0 | 993 |
| 2002 | 0 | 0 | 0 | 1 | 20 | 256 | 463 | 265 | 112 | 0 | 0 | 0 | 1117 |
| 2003 | 0 | 0 | 0 | 7 | 23 | 90 | 340 | 370 | 79 | 6 | 0 | 0 | 915 |
| 2004 | 0 | 0 | 0 | 0 | 40 | 55 | 275 | 175 | 128 | 1 | 0 | 0 | 674 |
| 2005 | 0 | 0 | 0 | 0 | 19 | 177 | 338 | 267 | 144 | 12 | 0 | 0 | 957 |
| 2006 | 0 | 0 | 0 | 4 | 65 | 201 | 464 | 268 | 20 | 11 | 0 | 0 | 1033 |
| 2007 | 0 | 0 | 0 | 1 | 56 | 160 | 403 | 320 | 118 | 8 | 0 | 0 | 1066 |
| 2008 | 0 | 0 | 0 | 0 | 1 | 59 | 327 | 255 | 45 | 4 | 0 | 0 | 691 |
| 2009 | 0 | 0 | 0 | 2 | 34 | 116 | 165 | 153 | 55 | 0 | 0 | 0 | 525 |
| 2010 | 0 | 0 | 0 | 0 | 53 | 133 | 360 | 348 | 49 | 9 | 0 | 0 | 952 |
| 2011 | 0 | 0 | 0 | 0 | 18 | 128 | 420 | 284 | 41 | 21 | 0 | 0 | 912 |
| 2012 | 0 | 0 | 6 | 15 | 39 | 298 | 553 | 287 | 105 | 0 | 0 | 0 | 1303 |
| 2013 | 0 | 0 | 0 | 0 | 39 | 146 | 292 | 316 | 171 | 0 | 0 | 0 | 964 |

SNOWFALL (inches) 2013 VALENTINE (KVTN)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|------|------|------|------|-----|------|------|------|-----|-----|-------|
| 1984-85 | 0.0 | 0.0 | 0.1 | 0.3 | 1.5 | 1.5 | 5.5 | 0.7 | 3.0 | 0.1 | 0.0 | 0.0 | 12.7 |
| 1985-86 | 0.0 | 0.0 | 18.4 | T | 34.5 | 4.9 | 1.6 | 2.6 | 6.9 | 3.6 | 0.0 | 0.0 | 72.5 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 1.0 | 5.7 | T | 1.9 | 12.3 | 15.7 | T | 0.0 | 0.0 | 36.6 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.7 | 3.2 | 22.5 | 9.6 | 5.9 | 5.9 | 13.2 | 0.0 | 0.0 | 61.0 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 2.2 | 0.3 | 12.0 | 13.8 | T | T | T | 31.5 |
| 1989-90 | 0.0 | 0.0 | 0.0 | T | T | 5.0 | 0.4 | 8.6 | 10.9 | T | 0.0 | T | 24.9 |
| 1990-91 | 0.0 | T | 0.0 | 1.8 | 6.4 | 3.8 | 3.2 | 6.3 | 6.6 | 2.2 | T | T | 30.3 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 4.6 | 11.9 | T | 5.4 | 1.1 | 3.2 | T | T | 0.0 | 26.2 |
| 1992-93 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 1.9 | 7.3 | 14.4 | 1.4 | 12.6 | 0.0 | 0.0 | 42.6 |
| 1993-94 | 0.0 | 0.0 | T | 0.6 | 6.4 | 4.8 | 5.0 | 10.1 | 1.5 | 5.8 | 0.0 | 0.0 | 34.2 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 8.4 | 0.2 | 2.0 | 5.5 | 30.4 | T | 0.0 | 49.9 |
| 1995-96 | 0.0 | 0.0 | 1.0 | 12.4 | 1.0 | | | | | | | | |
| 1996-97 | | | | | 7.0 | 4.6 | | | | 9.0 | T | 0.0 | |
| 1997-98 | 0.0 | 0.0 | 0.0 | 4.4 | 3.5 | 0.7 | 2.5 | 2.3 | | 0.0 | 0.0 | 0.0 | |
| 1998-99 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 | 2.5 | 4.5 | 10.1 | 1.2 | 1.1 | 0.0 | 0.0 | 31.4 |
| 1999-00 | 0.0 | 0.0 | 0.0 | T | 1.0 | 3.1 | 5.7 | 4.3 | 0.2 | T | 0.0 | 0.0 | 14.3 |
| 2000-01 | 0.0 | 0.0 | 0.0 | T | 5.8 | 5.1 | 8.9 | 6.2 | 1.5 | 2.8 | 0.0 | 0.0 | 30.3 |
| 2001-02 | 0.0 | 0.0 | 0.0 | 0.0 | 12.0 | T | T | 6.6 | 17.7 | 2.4 | 1.1 | 0.0 | 39.8 |
| 2002-03 | 0.0 | 0.0 | 0.0 | 7.7 | 1.0 | 2.0 | 5.7 | 5.1 | 5.1 | 8.0 | T | 0.0 | 34.6 |
| 2003-04 | 0.0 | 0.0 | 0.0 | T | 6.4 | 8.5 | 3.0 | 7.3 | 1.5 | 0.1 | 0.0 | 0.0 | 26.8 |
| 2004-05 | 0.0 | 0.0 | 0.0 | T | 1.0 | T | 6.8 | 2.2 | 10.3 | 5.6 | T | 0.0 | 25.9 |
| 2005-06 | 0.0 | 0.0 | 0.0 | T | 2.7 | 5.4 | 0.3 | 4.8 | 24.8 | 6.0 | 0.0 | 0.0 | 44.0 |
| 2006-07 | 0.0 | 0.0 | 0.0 | 2.9 | 1.0 | 9.1 | 3.5 | 7.1 | 0.5 | 1.0 | 0.0 | 0.0 | 25.1 |
| 2007-08 | 0.0 | 0.0 | 0.0 | 0.0 | T | 5.1 | 5.3 | 6.0 | 8.3 | 10.1 | 1.0 | 0.0 | 35.8 |
| 2008-09 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 3.6 | 6.3 | 6.5 | 5.1 | 7.5 | 0.0 | 0.0 | 31.4 |
| 2009-10 | 0.0 | 0.0 | 0.0 | 3.2 | T | 7.5 | 1.7 | 3.9 | 2.3 | T | 0.0 | 0.0 | 18.6 |
| 2010-11 | 0.0 | 0.0 | 0.0 | T | 0.6 | 7.2 | 9.3 | 6.5 | 17.3 | 9.5 | T | 0.0 | 50.4 |
| 2011-12 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 1.4 | 0.9 | 11.0 | T | 0.0 | 0.0 | 0.0 | 15.9 |
| 2012-13 | 0.0 | 0.0 | 0.0 | 3.0 | 7.7 | 2.6 | 4.9 | 9.4 | 10.2 | 14.2 | 2.0 | 0.0 | 54.0 |
| 2013- | 0.0 | 0.0 | 0.0 | 1.0 | 5.8 | 12.2 | | | | | | | |
| POR= 65 YRS | 0.0 | T | 0.3 | 1.2 | 4.5 | 4.9 | 4.4 | 5.9 | 7.5 | 4.3 | 0.3 | T | 33.3 |

WBAN : 24032

REFERENCE NOTES :

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| <p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN</p> | <p>PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> |
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2013 VALENTINE NEBRASKA (KVTN)

Valentine, located near the northern edge of the Sandhills and cattle country of Nebraska, is near the extreme northern border of the state. The city lies in the valley of the Niobrara River, a branch of the Missouri River, about 160 miles above the junction with the Missouri. It is the county seat of Cherry County and had its beginning in the fall of 1882. The name, Valentine, was selected for the new town in honor of Congressman E. K. Valentine, who represented the Third Congressional District of which Cherry County was a part.

The inland location offers a wide variety of weather. The high afternoon temperatures during the two warmest months, July and August, average nearly 90 degrees and the corresponding humidity averages about 40 percent. Uncomfortably warm nights are few with low morning temperatures averaging about 60 degrees. The temperature seldom reaches 100 degrees or more during the summer. The two coldest months are January and February. The minimum temperature generally reaches -20 degrees or colder once each winter.

Valentine's location frequently places it in the path of cold Canadian air mass outbreaks during the cold season, alternating with mild, dry air moving across the Rockies from the Pacific. One or two bitterly cold days usually occur each winter when the temperature will stay below zero throughout the day. Blizzards are not frequent, but at least one is likely each winter season. An occasional severe blizzard occurs about once in every three or four winters. Blowing and drifting

snow reduce visibility to zero and bring outdoor activities and travel to a complete stop. Lives may be lost for anyone caught away from shelter, and there is usually loss of livestock which varies with the intensity and duration of the storm. Temperatures below 32 degrees have occurred as late as mid-June and as early as early September, and low temperature records in the 30s have occurred during the summer with light frost in low places. However, these are rare occurrences and temperatures below 50 degrees are not common in July and August.

About 65 percent of the annual precipitation falls during the growing season, May through September, and is predominantly the nighttime thunderstorm type with June being the wettest month.

The spring and fall seasons have mostly pleasant days, with the fall season having the most uniform character with lighter winds and gradually falling temperatures as the season progresses. In the spring the weather is windy and extremely variable, with summer-like days mixed with some of cold of winter. The widest extremes of temperature occur in March.

Some of the damaging weather elements other than blizzards, are high winds, which dig blow outs in the sand hills, and an occasional hailstorm. Damage from hail is not extensive and confined mostly to buildings and gardens since the area is mostly prairie. Floods are unknown. Tornadoes occasionally occur but seldom do much damage because ranches and towns are widely scattered.

Station History

VALENTINE, NE

| NAME | Begin Date | End Date | Latitude | Longitude | Elevation Feet | Relocation | Platform |
|------------------------|------------|------------|----------|-----------|----------------|------------|-------------------|
| VALENTINE | 1897-01-01 | 1901-12-31 | 42° 52' | -100° 33' | | | WXSVCS |
| VALENTINE MILLER FIELD | 1956-01-01 | 1973-01-01 | 42° 52' | -100° 33' | 2587 | | AIRWAYS, COOP |
| VALENTINE | 1947-12-01 | 1955-08-01 | 42° 52' | -100° 33' | 2582 | | COOP, WXSVC |
| VALENTINE MILLER FIELD | 1973-01-01 | 1995-10-01 | 42° 52' | -100° 33' | 2587 | | COOP, WXSVC |
| VALENTINE MILLER FIELD | 1996-10-01 | 1999-06-01 | 42° 51' | -100° 33' | 2590 | .25 MI S | ASOS, COOP, WXSVC |
| VALENTINE MILLER FIELD | 1995-10-01 | 1996-10-01 | 42° 51' | -100° 33' | 2587 | | ASOS, COOP, WXSVC |
| VALENTINE MILLER FIELD | 2010-08-10 | Present | 42° 52' | -100° 33' | 2590 | | ASOS, COOP, WXSVC |
| VALENTINE | 1889-01-01 | 1889-12-31 | 42° 52' | -100° 33' | | | WXSVCS |
| VALENTINE WSO AP | 1955-08-01 | 1955-08-10 | 42° 52' | -100° 33' | 2587 | | COOP, WXSVC |
| VALENTINE MILLER FIELD | 1999-06-01 | 2010-08-10 | 42° 52' | -100° 33' | 2590 | | ASOS, COOP, WXSVC |
| VALENTINE | 1886-01-01 | 1887-12-31 | 42° 52' | -100° 33' | | | WXSVCS |
| VALENTINE | 1893-02-01 | 1894-12-31 | 42° 52' | -100° 33' | | | WXSVCS |
| VALENTINE MILLER FIELD | 1955-08-10 | 1956-01-01 | 42° 52' | -100° 33' | 2587 | | COOP, WXSVC |

Element History

| Element | Begin Date | End Date | Frequency | Time Of Observation | Equipment * | Equipment * Modifications | Equipment Exposure |
|---------|------------|------------|-----------|---------------------|-------------|---------------------------|--------------------|
| PRECIP | 1897-01-01 | 1901-12-31 | DAILY | 2400 | UNIV | RCRD | |
| PRECIP | 1947-12-01 | 1982-01-01 | DAILY | 2400 | UNIV | RCRD | |
| TEMP | 1947-12-01 | 1982-01-01 | DAILY | 2400 | | | |
| PRECIP | 1982-01-01 | 1987-09-02 | HOURLY | 2400 | | | |
| TEMP | 1982-01-01 | 1987-09-02 | DAILY | 2400 | | | |
| TEMP | 2010-08-10 | Present | DAILY | 2400 | HYGR | | |
| PRECIP | 1987-09-02 | 1995-07-01 | DAILY | 2400 | UNIV | RCRD | |
| PRECIP | 1996-10-01 | 2010-08-10 | HOURLY | 2400 | TB | RCRD | |
| TEMP | 1996-10-01 | 2010-08-10 | DAILY | 2400 | HYGR | | |
| TEMP | 1897-01-01 | 1901-12-31 | DAILY | 2400 | | | |
| PRECIP | 1987-09-02 | 1995-07-01 | HOURLY | 2400 | | | |
| TEMP | 1987-09-02 | 1995-07-01 | DAILY | 2400 | MXMN | | |
| PRECIP | 1995-07-01 | 1996-10-01 | HOURLY | 2400 | UNIV | RCRD | |
| PRECIP | 1996-10-01 | 2010-08-10 | DAILY | 2400 | TB | RCRD | |
| PRECIP | 2010-08-10 | Present | DAILY | 2400 | PCPN1 | | |
| PRECIP | 1886-01-01 | 1894-12-31 | DAILY | 2400 | UNIV | RCRD | |
| TEMP | 1886-01-01 | 1894-12-31 | DAILY | 2400 | | | |
| PRECIP | 1995-07-01 | 1996-10-01 | DAILY | 2400 | UNIV | RCRD | |
| PRECIP | 1982-01-01 | 1987-09-02 | DAILY | 2400 | UNIV | RCRD | |
| TEMP | 1995-07-01 | 1996-10-01 | DAILY | 2400 | MXMN | | |
| PRECIP | 2010-08-10 | Present | HOURLY | 2400 | TB | RCRD | |

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: www.ncdc.noaa.gov