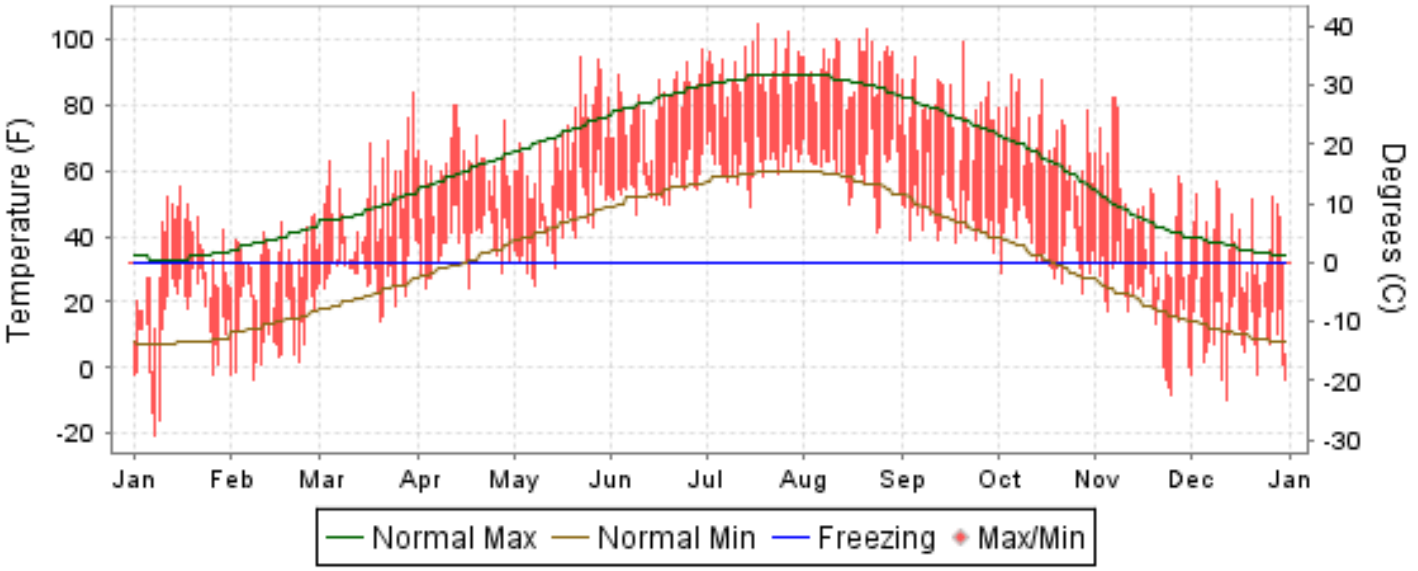
2010
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

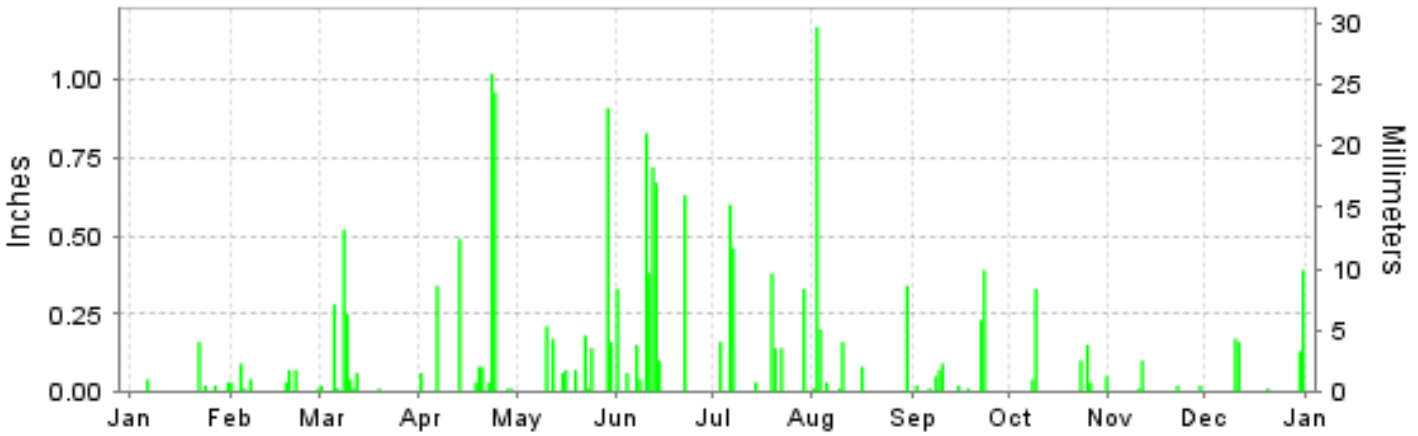
ISSN 0198-3237

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.

Thomas R. Karl

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 2010
VALENTINE (KVTN)

LATITUDE: 42 ° 51'N **LONGITUDE:** -100° 33'W **ELEVATION (FT):** GRND: 2589 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	32.8	33.5	51.1	61.7	68.1	80.3	90.5	91.0	78.1	68.6	48.4	36.3	61.7
	HIGHEST DAILY MAXIMUM	55	47	84	80	95	97	105	103	99	89	82	57	105
	DATE OF OCCURRENCE	16	27	30	13+	22	30	17	21	20	05	07+	09	JUL 17
	MEAN DAILY MINIMUM	12.5	11.6	28.9	37.7	43.3	55.7	62.4	60.8	46.3	37.6	19.6	9.9	35.5
	LOWEST DAILY MINIMUM	-21	-4	14	24	25	47	49	41	35	23	-8	-10	-21
	DATE OF OCCURRENCE	08	08	20	17+	08	09	15	24	30	28	25	12	JAN 08
	AVERAGE DRY BULB	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
	MEAN WET BULB	19.7	20.4	34.1	43.2	48.7	60.5	65.8	64.0	53.6	44.7	29.0	20.4	42.0
	MEAN DEW POINT	15.0	15.9	27.0	35.2	41.6	55.4	60.1	56.8	46.6	36.3	21.7	15.2	35.6
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	0	3	3	15	19	2	0	0	0	42
	MAXIMUM <= 32°	15	12	0	0	0	0	0	0	0	0	7	13	47
	MINIMUM <= 32°	31	28	25	8	5	0	0	0	0	12	26	31	166
	MINIMUM <= 0°	7	3	0	0	0	0	0	0	0	0	5	5	20
H/C	HEATING DEGREE DAYS	1305	1185	768	450	333	36	0	4	124	371	924	1291	6791
	COOLING DEGREE DAYS	0	0	0	0	53	133	360	348	49	9	0	0	952
RH	MEAN (PERCENT)	75	77	68	61	61	67	63	58	63	59	67	74	66
	HOUR 00 LST	81	83	75	72	72	81	76	74	76	70	75	80	76
	HOUR 06 LST	80	83	82	80	79	87	88	82	87	78	82	81	82
	HOUR 12 LST	68	69	59	47	48	51	45	41	45	44	51	65	53
	HOUR 18 LST	73	69	54	48	48	49	40	37	41	44	56	68	52
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	1	1	6	3	1	2	1	3	3	1	2	2	26
	THUNDERSTORMS	0	0	0	5	4	5	6	5	3	1	0	0	29
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (<= 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (<= 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	27.31	27.32	27.24	27.14	27.22	27.23	27.25	27.22	27.27	27.29	27.25	27.28	27.25
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.15	30.00	29.84	29.91	29.90	29.89	29.87	29.95	30.01	30.03	30.09	29.98
WINDS	RESULTANT SPEED (MPH)	3.2	3.4	3.5	1.4	2.8	0.3	3.5	5.2	0.8	3.8	4.2	3.7	2.0
	RES. DIR. (TENS OF DEGS.)	28	33	31	26	18	21	18	21	26	26	29	30	27
	MEAN SPEED (MPH)	9.0	7.7	9.8	11.9	12.3	10.0	10.5	10.5	10.1	10.2	9.5	9.0	10.0
	PREVAIL.DIR.(TENS OF DEGS.)	32	32	32	16	15	16	18	18	18	30	32	33	32
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	40	35	35	49	48	62	43	55	39	51	37	37	62
	DIR. (TENS OF DEGS.)	32	33	19	17	17	29	30	36	18	24	33	32	29
	DATE OF OCCURRENCE	24	14	26	13	24	22	03	02	08	08	29	10	JUN 22
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	53	48	44	68	69	76	56	81	48	70	51	48	81
	DIR. (TENS OF DEGS.)	32	32	34	18	22	29	30	36	32	26	33	32	36
	DATE OF OCCURRENCE	24	14	27	13	24	22	03	02	06	08	29	11	AUG 02
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	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
	GREATEST 24-HOUR (IN.)	0.16	0.10	0.72	1.77	1.07	1.04	1.06	1.18	0.55	0.37	0.10	0.39	1.77
	DATE OF OCCURRENCE	22	04-05	08-09	23-24	29-30	10-11	06-07	01-02	22-23	08-09	11	31	APR 23-24
	NUMBER OF DAYS WITH:													
	PRECIPITATION 0.01	5	8	9	11	10	10	8	8	9	6	4	5	93
	PRECIPITATION 0.10	1	0	3	4	6	8	7	4	2	3	1	4	43
	PRECIPITATION 1.00	0	0	0	1	0	0	0	1	0	0	0	0	2
SNOWFALL	SNOW,ICE PELLETS,HAIL													
	TOTAL (IN.)	1.7	3.9	2.3	T	0.0	0.0	0.0	0.0	0.0	T	0.6	7.2	15.7
	GREATEST 24-HOUR (IN.)	0.5	0.8	0.6	T	0.0	0.0	0.0	0.0	0.0	T	0.3	5.3	5.3
	DATE OF OCCURRENCE	24	21+	12+	26						27	29	31	DEC 31
	MAXIMUM SNOW DEPTH (IN.)	2	1	1	0	0	0	0	0	0	0	T	3	3
	DATE OF OCCURRENCE	10+	22+	10+								30	31	DEC 31
	NUMBER OF DAYS WITH:													
	SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	1	1

NORMALS, MEANS, AND EXTREMES
VALENTINE (KVTN)

LATITUDE: 42 ° 51'N **LONGITUDE:** -100° 33'W **ELEVATION (FT):** GRND: 2589 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	33.8	39.4	48.4	59.8	71.2	81.9	88.3	86.9	77.2	63.5	45.9	36.7	61.1
	MEAN DAILY MAXIMUM	63	33.7	37.5	46.3	59.1	70.7	80.2	88.4	86.7	76.1	63.8	47.2	36.6	60.5
	HIGHEST DAILY MAXIMUM	56	72	78	85	100	99	110	114	108	104	96	86	74	114
	YEAR OF OCCURRENCE		1987	1982	2004	1992	2009	1988	1990	1965	1998	1993	1999	1998	JUL 1990
	MEAN OF EXTREME MAXS.	63	59.2	62.9	75.4	85.0	91.7	97.9	103.7	101.8	96.3	86.6	73.1	60.7	82.9
	NORMAL DAILY MINIMUM	30	7.8	13.7	22.1	32.4	43.7	53.2	59.1	57.3	45.8	33.1	20.1	10.5	33.2
	MEAN DAILY MINIMUM	63	8.0	12.6	21.1	32.6	44.2	53.6	60.3	58.2	46.6	34.2	21.0	11.3	33.6
	LOWEST DAILY MINIMUM	56	-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.	63	-15.3	-11.7	-1.8	15.5	27.7	40.2	47.7	44.1	29.6	16.4	0.0	-13.0	15.0
	NORMAL DRY BULB	30	20.8	26.6	35.3	46.1	57.5	67.6	73.7	72.1	61.5	48.3	33.0	23.6	47.2
	MEAN DRY BULB	63	20.9	25.1	33.7	45.8	57.4	67.1	74.4	72.5	61.4	49.0	34.2	24.0	47.1
	MEAN WET BULB	27	19.4	22.1	29.6	38.3	48.7	57.7	62.4	61.2	51.7	39.9	27.8	19.9	39.9
	MEAN DEW POINT	27	15.3	17.5	24.8	32.6	43.9	53.6	58.2	56.9	46.5	34.5	23.5	15.4	35.2
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.0	0.3	1.2	6.9	13.9	12.9	5.8	0.4	0.0	0.0	41.4
	MAXIMUM <= 32	30	13.8	9.5	4.7	0.7	0.0	0.0	0.0	0.0	0.0	0.4	5.8	11.3	46.2
	MINIMUM <= 32	30	30.7	27.6	26.9	15.2	2.6	*	0.0	0.0	2.1	13.4	27.0	30.8	176.3
	MINIMUM <= 0	30	9.7	5.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	*	1.7	6.2	24.3
H/C	NORMAL HEATING DEG. DAYS	30	1386	1091	932	571	260	57	11	19	175	516	952	1285	7255
	NORMAL COOLING DEG. DAYS	30	0	0	0	5	27	141	286	242	75	3	0	0	779
RH	NORMAL (PERCENT)	30	69	67	65	59	61	61	59	61	58	61	67	67	63
	HOUR 00 LST	30	73	74	73	68	71	71	70	71	67	69	72	72	71
	HOUR 06 LST	30	75	76	79	76	79	79	78	81	76	76	76	74	77
	HOUR 12 LST	30	60	58	54	47	47	47	46	47	43	45	54	58	51
	HOUR 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)	28	1.1	1.3	1.6	1.4	0.5	0.7	1.0	1.3	1.2	1.2	1.1	0.9	13.3
	THUNDERSTORMS	29	0.0	0.1	0.6	2.7	6.8	10.6	11.8	9.7	5.0	1.8	0.1	0.0	49.2
CLOUDNESS	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)	27	27.30	27.30	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)	27	30.13	30.12	30.02	29.95	29.91	29.89	29.92	29.95	29.97	30.02	30.06	30.12	30.01
WINDS	MEAN SPEED (MPH)	27	9.2	9.3	10.3	11.1	11.0	10.0	9.1	9.3	9.8	9.6	9.5	9.3	9.8
	PREVAIL.DIR(TENS OF DEGS)	27	33	33	34	34	34	17	20	17	19	31	30	30	30
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	15	47	52	45	49	54	62	60	55	45	51	52	46	62
	DIR. (TENS OF DEGS)		33	30	32	17	09	29	32	36	18	24	33	33	29
	YEAR OF OCCURRENCE		2009	1996	2009	2010	2008	2010	2005	2010	2004	2010	2005	2008	JUN 2010
	MAXIMUM 3-SECOND														
	SPEED (MPH)	15	62	63	62	68	69	76	79	81	54	70	62	62	81
	DIR. (TENS OF DEGS)		34	30	31	18	22	29	31	36	18	26	33	34	36
	YEAR OF OCCURRENCE		2009	1996	2009	2010	2010	2010	2005	2010	2004	2010	2005	2008	AUG 2010
PRECIPITATION	NORMAL (IN)	30	0.30	0.48	1.11	1.97	3.20	3.01	3.37	2.20	1.61	1.22	0.72	0.33	19.52
	MAXIMUM MONTHLY (IN)	55	0.82	1.43	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	1962	1977	2001	1962	2005	1983	1966	1973	1995	1985	1987	JUL 1983
	MINIMUM MONTHLY (IN)	55	T	0.01	0.01	0.25	0.26	0.44	0.28	0.12	0.11	T	0.01	T	T
	YEAR OF OCCURRENCE		1961	1957	1997	1967	2006	1976	2006	2000	1958	1958	1962	1991	DEC 1991
	MAXIMUM IN 24 HOURS (IN)	55	0.66	0.95	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	2000	1977	2005	1962	1992	1998	1971	1973	1997	1985	1987	JUL 1998
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	4.6	4.6	7.0	9.3	11.3	10.6	10.0	8.0	6.7	5.4	5.0	4.4	86.9
	PRECIPITATION >= 1.00	30	0.0	0.0	0.1	0.1	0.7	0.6	0.9	0.5	0.2	0.1	0.1	*	3.3
SNOWFALL	NORMAL (IN)	30	4.8	6.2	8.1	4.4	0.1	0.0	0.0	0.0	0.7	1.5	6.3	4.8	36.9
	MAXIMUM MONTHLY (IN)	53	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		1990	1985	1995	1985	1987	MAR 1977
	MAXIMUM IN 24 HOURS (IN)	53	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		1990	1985	1995	1985	1987	MAR 1977
	MAXIMUM SNOW DEPTH (IN)	48	18	15	16	12	2	0	0	0	10	4	19	22	22
	YEAR OF OCCURRENCE		1988	1979	2006	1995	1979				1985	1995	1985	1987	DEC 1987
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	1.4	2.1	2.3	1.2	0.0	0.0	0.0	0.0	0.1	0.5	1.9	1.6	11.1

PRECIPITATION (inches) 2010 VALENTINE (KVTN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	0.09	0.13	1.30	0.49	2.73	1.28	5.51	3.65	0.88	1.95	0.67	0.76	19.44
1982	0.50	0.07	1.05	0.74	6.70	2.11	3.20	3.37	2.70	1.80	0.88	0.53	23.65
1983	0.10	0.06	1.31	1.39	5.19	7.09	8.96	0.83	1.18	0.66	1.17	0.56	28.50
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
POR= 63 YRS	0.28	0.49	0.95	2.02	3.01	3.27	2.79	2.31	1.54	1.05	0.51	0.35	18.57

WBAN : 24032

AVERAGE TEMPERATURE (°F) 2010 VALENTINE (KVTN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	28.5	26.4	38.7	54.1	54.7	68.3	73.9	71.2	63.3	48.2	39.8	23.6	49.2
1982	10.2	25.6	34.6	42.8	57.0	62.5	75.1	73.9	61.0	47.5	31.4	26.6	45.7
1983	29.5	34.4	34.7	40.5	52.7	65.1	75.4	78.3	63.3	50.0	34.7	3.9	46.9
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
POR= 63 YRS	20.9	25.1	33.7	45.8	57.4	67.1	74.4	72.5	61.4	49.0	34.2	24.0	47.1

HEATING DEGREE DAYS (base 65°F) 2010 VALENTINE (KVTN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1981-82	21	7	114	514	748	1274	1697	1100	936	659	250	108	7428
1982-83	1	16	189	536	1000	1183	1096	850	931	730	385	91	7008
1983-84	6	0	168	461	903	1892	1334	952	1008	667	288	43	7722
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-	0	4	124	371	924	1291							

WBAN : 24032

COOLING DEGREE DAYS (base 65°F) 2010 VALENTINE (KVTN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1981	0	0	0	6	16	145	304	207	70	0	0	0	748
1982	0	0	0	0	10	39	321	299	73	0	0	0	742
1983	0	0	0	0	12	99	338	422	125	0	0	0	996
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

SNOWFALL (inches) 2010 VALENTINE (KVTN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1981-82	0.0	0.0	0.0	1.4	8.0	11.2	15.2	1.5	6.0	4.6	0.0	0.0	47.9
1982-83	0.0	0.0	0.0	3.0	2.0	5.3	0.8	0.2	5.7	1.9	0.0	0.0	18.9
1983-84	0.0	0.0	T	0.0	12.0	12.4	1.5	4.0	7.2	8.5	0.1	0.0	45.7
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-	0.0	0.0	0.0	T	0.6	7.2							
POR= 62 YRS	0.0	T	0.3	1.2	4.5	4.9	4.4	5.8	7.4	4.1	0.3	T	32.9

WBAN : 24032

REFERENCE NOTES :

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).

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).

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.
NORMALS ARE 30-YEAR AVERAGES (1971 - 2000).
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 AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.
THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.
WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.

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 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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.
STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm
SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:
The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

2010
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.

Valentines 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.

Non-Subscription Request:
NCDC Customer Services;
Phone: 828-271-4800
Fax: 828-271-4876
Email: ncdc.orders@noaa.gov

OFFICAL BUSINESS
PENALTY FOR PRIVATE USE $300
CHANGE SERVICE REQUESTED

FIRST CLASS
POSTAGE & FEES PAID
United States Department of Commerce
NOAA Permit No. G - 19

INQUIRES/COMMENTS CALL: Toll Free (866) 742-3322
Visit our Web Site for other weather data: www.ncdc.noa.gov

For Hard Copy Subscription:
Price and ordering information: NCDC Subscripting Service Center, 310 State Route 956, Building 300, Rocket Center, WV 26726.