

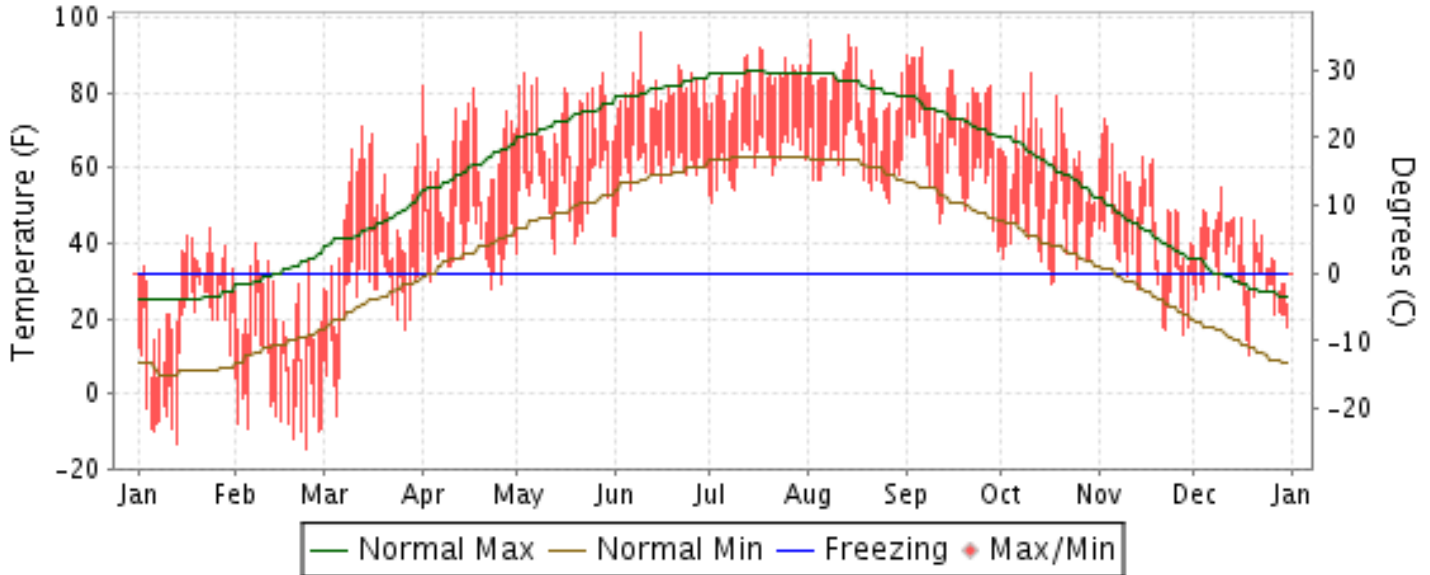


2015 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

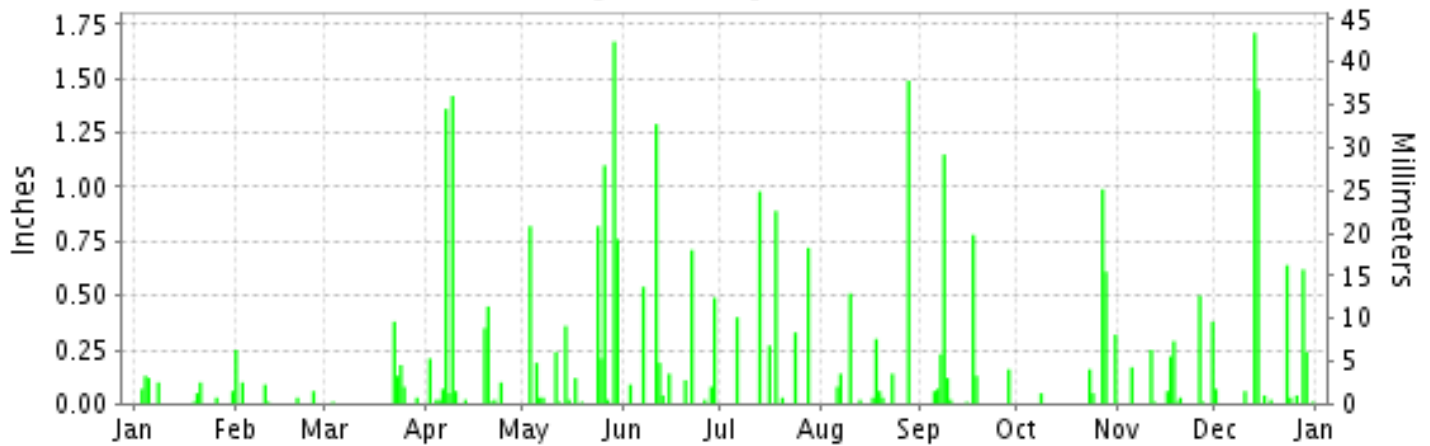
ISSN 0198-5701

LA CROSSE, WISCONSIN (KLSE)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
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NATIONAL CENTERS for
ENVIRONMENTAL INFORMATION (NCEI)
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NCEI

METEOROLOGICAL DATA FOR 2015

LA CROSSE (KLSE)

LATITUDE: 43° 52'N LONGITUDE: 91° 15'W ELEVATION (FT): GRND: 652 BARO: 658 TIME ZONE: CENTRAL (UTC -6) WBAN: 14920

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	28.6	21.5	47.5	63.1	72.0	79.9	82.9	81.0	79.3	63.6	51.4	39.4	59.2	
	HIGHEST DAILY MAXIMUM	44	40	71	82	85	96	92	95	92	85	73	55	96	
	DATE OF OCCURRENCE	24	07	13	01	28+	09	17	14	06	11	03	10	JUN 09	
	MEAN DAILY MINIMUM	12.7	1.0	25.0	38.8	52.3	59.9	62.5	61.4	59.3	42.3	34.8	29.1	39.9	
	LOWEST DAILY MINIMUM	-13	-15	-6	28	37	42	51	51	38	29	16	10	-15	
	DATE OF OCCURRENCE	13	23	05	23	13+	01	02	27	30	17	28	19	FEB 23	
	AVERAGE DRY BULB	20.6	11.3	36.2	51.0	62.1	69.9	72.7	71.2	69.3	52.9	43.1	34.2	49.5	
	MEAN WET BULB	19.1	10.5	31.0	42.7	54.9	62.7	65.6	64.3	62.5	46.9	38.8	31.9	44.2	
	MEAN DEW POINT	13.3	2.8	21.8	32.4	48.7	57.9	61.2	60.1	58.2	40.7	33.0	27.8	38.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	1	3	4	2	0	0	0	0	10
	MAXIMUM <= 32°	17	23	4	0	0	0	0	0	0	0	2	6	52	
MINIMUM <= 32°	31	28	23	5	0	0	0	0	0	2	12	21	122		
MINIMUM <= 0°	9	16	1	0	0	0	0	0	0	0	0	0	26		
H/C	HEATING DEGREE DAYS	1368	1499	886	415	147	12	3	11	49	375	648	949	6362	
	COOLING DEGREE DAYS	0	0	0	1	64	167	250	209	187	9	0	0	887	
RH	MEAN (PERCENT)	72	64	59	54	65	69	69	71	71	67	69	78	67	
	HOUR 00 LST	75	67	67	62	74	79	84	81	81	73	76	79	75	
	HOUR 06 LST	76	71	73	72	76	83	83	86	86	80	77	82	79	
	HOUR 12 LST	66	60	48	41	53	58	55	58	55	54	59	74	57	
	HOUR 18 LST	68	58	46	42	55	55	55	57	62	61	66	76	58	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	2	0	0	5	1	2	2	2	0	2	16	
	THUNDERSTORMS	0	0	0	2	6	4	2	1	3	0	1	1	20	
PR	MEAN STATION PRESS. (IN.)	29.43	29.48	29.41	29.24	29.31	29.23	29.23	29.25	29.31	29.34	29.30	29.21	29.31	
	MEAN SEA-LEVEL PRESS. (IN.)	30.19	30.26	30.15	29.95	30.01	29.91	29.90	29.93	30.00	30.05	30.02	29.94	30.03	
WINDS	RESULTANT SPEED (MPH)	1.8	2.4	2.3	1.4	2.4	0.9	2.1	2.7	3.3	1.5	4.1	2.4	1.7	
	RES. DIR. (TENS OF DEGS.)	26	30	23	32	18	16	19	23	16	23	20	24	22	
	MEAN SPEED (MPH)	8.0	8.3	8.4	9.3	8.8	7.0	7.3	7.9	7.8	8.5	10.1	9.0	8.4	
	PREVAIL.DIR.(TENS OF DEGS.)	17	32	17	32	13	16	16	18	17	16	17	17	17	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	33	30	33	35	30	26	39	29	26	33	32	35	39	
	DIR. (TENS OF DEGS.)	31	30	28	19	27	24	31	18	33	28	27	20	31	
	DATE OF OCCURRENCE	08	24	29	01	25	22	18	22	19	12	19	16	JUL 18	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	44	41	43	47	38	35	49	37	35	43	47	42	49	
DIR. (TENS OF DEGS.)	31	31	27	20	26	25	31	18	20	28	30	21	31		
DATE OF OCCURRENCE	08	24	29	01	25	22	18	22	15	12	12	16	JUL 18		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.67	0.54	0.81	4.16	6.41	3.70	3.62	2.80	2.73	2.18	1.93	4.93	34.48	
	GREATEST 24-HOUR (IN.)	0.15	0.25	0.51	1.42	2.40	1.48	0.98	1.49	1.15	1.53	0.51	2.06	2.40	
	DATE OF OCCURRENCE	20-21	01	22-23	09	29-30	11-12	13	28	08	27-28	26-27	13-14	MAY 29-30	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	9	6	6	14	16	11	7	10	10	6	11	12	118		
PRECIPITATION 0.10	4	2	3	6	10	7	6	5	6	4	6	5	64		
PRECIPITATION 1.00	0	0	0	2	2	1	0	1	1	0	0	2	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	9.4	9.2	9.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.9	11.6	41.5	
	GREATEST 24-HOUR (IN.)	1.8	5.0	4.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	7.5	7.5	
	DATE OF OCCURRENCE	04	01	22	09							20	28	DEC 28	
	MAXIMUM SNOW DEPTH (IN.)	5	8	7	T	0	0	0	0	0	0	1	9	9	
	DATE OF OCCURRENCE	15+	06+	23	10							21	31+	DEC 31+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	4	2	4	0	0	0	0	0	0	0	0	2	12		

NORMALS, MEANS, AND EXTREMES LA CROSSE (KLSE)

LATITUDE: 43° 52'N **LONGITUDE:** 91° 15'W **ELEVATION (FT):** GRND: 652 BARO: 658 **TIME ZONE:** CENTRAL (UTC -6) **WBAN: 14920**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	25.9	31.4	43.9	59.3	70.7	80.0	84.1	81.5	73.2	59.9	43.8	29.1	56.9
	MEAN DAILY MAXIMUM	72	24.9	29.9	42.0	58.0	70.3	79.2	84.0	81.8	72.6	60.9	43.4	29.6	56.4
	HIGHEST DAILY MAXIMUM	63	57	64	84	93	95	102	108	105	100	93	75	67	108
	YEAR OF OCCURRENCE		1981	2000	1986	1980	2006	1988	1995	1988	1978	1963	2008	1998	JUL 1995
	MEAN OF EXTREME MAXS.	74	43.8	48.2	65.7	80.8	88.0	93.1	95.2	93.8	89.2	80.2	64.3	49.1	74.3
	NORMAL DAILY MINIMUM	30	8.9	13.6	25.2	37.9	48.7	58.5	63.2	61.3	52.4	40.4	28.1	14.2	37.7
	MEAN DAILY MINIMUM	72	6.9	11.1	23.4	37.0	48.4	57.9	62.7	60.7	51.5	40.7	27.8	14.2	36.9
	LOWEST DAILY MINIMUM	64	-37	-36	-28	7	26	37	33	40	28	14	-9	-30	-37
	YEAR OF OCCURRENCE		1951	1971	1962	1982	1989	1978	1982	2004	1967	1988	1977	1983	JAN 1951
	MEAN OF EXTREME MINS.	74	-16.9	-12.5	1.5	21.9	33.7	44.5	51.2	48.3	36.0	25.1	10.2	-8.6	19.5
	NORMAL DRY BULB	30	17.4	22.5	34.5	48.6	59.7	69.2	73.7	71.4	62.8	50.2	35.9	21.6	47.3
	MEAN DRY BULB	72	15.9	20.5	32.7	47.5	59.4	68.7	73.3	71.3	62.1	50.8	35.6	21.9	46.6
	MEAN WET BULB	31	20.9	22.7	32.2	42.1	51.9	60.8	64.5	63.5	57.2	45.5	34.9	25.4	43.5
	MEAN DEW POINT	31	19.1	20.5	30.0	39.1	49.6	59.0	63.2	62.2	55.8	43.7	33.4	23.7	41.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.6	3.0	5.5	3.3	0.8	0.0	0.0	0.0	13.3
	MAXIMUM <= 32	30	20.4	13.7	4.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.5	17.7	61.0
MINIMUM <= 32	30	30.2	26.0	23.3	7.7	0.4	0.0	0.0	0.0	0.2	5.7	19.6	29.2	142.3	
MINIMUM <= 0	30	8.9	5.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	5.1	20.1	
H/C	NORMAL HEATING DEG. DAYS	30	1475	1190	944	499	205	38	5	15	140	468	872	1344	7195
	NORMAL COOLING DEG. DAYS	30	0	0	0	7	41	166	273	213	74	8	0	0	782
RH	NORMAL (PERCENT)	30	74	73	70	63	65	69	72	76	76	70	74	77	72
	HOURLY 00 LST	30	77	78	77	72	75	80	85	88	86	78	79	80	80
	HOURLY 06 LST	30	79	80	81	79	81	84	88	91	91	83	82	82	83
	HOURLY 12 LST	30	69	66	61	52	52	55	58	61	62	58	67	72	61
	HOURLY 18 LST	30	72	68	62	52	52	55	58	62	66	63	71	75	63
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	51	1.3	1.0	2.1	0.6	1.0	1.4	1.6	3.5	3.5	1.8	1.3	1.4	20.5
	THUNDERSTORMS	67	0.0	0.2	1.1	2.8	5.0	7.3	7.0	6.5	4.3	2.0	0.5	0.2	36.9
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	17	5.4	5.0	5.4	5.4	5.2	5.0	4.2	4.3	4.4	4.3	5.3	5.3	4.9
	MIDNIGHT-MIDNIGHT (OKTAS)	5	3.8	3.3	4.0	4.4	3.8	3.8	2.9	3.1	3.5	3.0	4.1	3.8	3.6
	MEAN NO. DAYS WITH: CLEAR	17	7.4	7.9	7.4	6.8	6.9	7.3	9.8	9.5	9.1	10.8	5.8	6.8	95.5
	PARTLY CLOUDY	17	6.9	7.1	7.1	7.1	9.1	10.4	10.9	10.6	8.9	6.9	6.1	5.8	96.9
	CLOUDY	17	16.7	13.2	16.5	16.1	15.0	12.3	10.4	10.9	11.9	13.4	18.1	18.5	173.0
PR	MEAN STATION PRESSURE(IN)	31	29.29	29.31	29.28	29.22	29.22	29.21	29.24	29.25	29.27	29.27	29.27	29.30	29.26
	MEAN SEA-LEVEL PRES. (IN)	31	30.04	30.06	30.02	29.94	29.94	29.92	29.94	29.96	29.99	29.99	30.01	30.05	29.99
WINDS	MEAN SPEED (MPH)	31	8.7	8.7	9.0	9.8	8.9	8.1	7.5	7.2	8.0	8.8	9.3	8.6	8.6
	PREVAIL.DIR.(TENS OF DEGS)	42	33	33	33	34	19	19	19	19	19	19	17	34	33
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	39	37	39	49	45	44	53	44	52	47	37	38	53
	DIR. (TENS OF DEGS)		32	32	20	22	24	24	28	33	28	25	21	32	28
	YEAR OF OCCURRENCE		2012	2014	2005	2001	2007	2003	2003	2007	2011	2004	2008	2004	JUL 2003
	MAXIMUM 3-SECOND SPEED (MPH)	15	51	46	51	61	59	62	66	64	63	60	47	47	66
	DIR. (TENS OF DEGS)		29	22	20	24	27	23	29	01	28	26	30	32	29
YEAR OF OCCURRENCE		2013	2009	2005	2001	2005	2003	2003	2007	2011	2004	2015	2004	JUL 2003	
PRECIPITATION	NORMAL (IN)	30	1.12	1.05	2.04	3.34	3.52	4.34	4.26	4.29	3.56	2.17	2.01	1.36	33.06
	MAXIMUM MONTHLY (IN)	63	3.03	2.71	3.82	7.31	9.73	10.79	9.35	13.75	10.52	5.67	6.23	4.93	13.75
	YEAR OF OCCURRENCE		1996	1998	1951	1973	2004	1993	1987	2007	1965	2009	1991	2015	AUG 2007
	MINIMUM MONTHLY (IN)	63	0.14	0.05	0.30	0.60	0.94	1.33	0.16	0.54	0.42	0.02	T	0.30	0.02
	YEAR OF OCCURRENCE		1981	1969	1978	1966	1988	1989	1967	1976	1952	1952	1976	1962	OCT 1952
	MAXIMUM IN 24 HOURS (IN)	63	1.31	1.21	1.82	3.84	2.87	5.30	5.24	5.98	3.84	2.51	2.80	2.06	5.98
	YEAR OF OCCURRENCE		1967	2012	2011	1954	2000	2011	1987	2007	2010	2013	1991	2015	AUG 2007
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.1	8.0	9.8	11.2	11.9	11.5	10.4	9.8	9.6	9.3	9.0	9.2	118.8
PRECIPITATION >= 1.00	30	0.0	0.1	0.3	0.9	0.8	1.1	1.1	1.0	1.0	0.4	0.3	0.1	7.1	
SNOWFALL	NORMAL (IN)	30	10.7	8.2	7.1	1.7	0.0	0.0	0.0	0.0	0.0	0.2	4.1	11.3	43.3
	MAXIMUM MONTHLY (IN)	63	35.0	31.0	33.5	17.0	0.8	T	T	T	T	1.8	30.3	32.7	35.0
	YEAR OF OCCURRENCE		1996	1959	1959	1973	2013	1997	2013	1995	1994	1992	1991	2008	JAN 1996
	MAXIMUM IN 24 HOURS (IN)	49	12.0	10.9	15.7	7.3	0.8	T	T	T	T	1.8	13.0	14.4	15.7
	YEAR OF OCCURRENCE		1996	1959	1959	1952	2013	1997	2013	1995	1994	1992	1991	1990	MAR 1959
	MAXIMUM SNOW DEPTH (IN)	66	34	29	31	16	T	0	0	0	0	1	15	21	34
	YEAR OF OCCURRENCE		1979	1979	1959	1973	2013					1992	1991	2010	JAN 1979
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.6	2.6	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.1	1.2	3.4	13.2	

PRECIPITATION (inches) 2015 LA CROSSE (KLSE)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986		0.77	1.91	3.42	1.49	4.04	4.79	2.38	8.10	3.68	0.95	0.38	
1987	1.17	0.30	2.23	2.35	4.58	2.55	9.35	3.71	2.10	0.56	2.67	1.82	33.39
1988	1.09	0.19	1.89	2.01	0.94	3.25	2.39	4.60	5.21	0.64	3.48	0.78	26.47
1989	0.41	0.40	2.36	1.78	3.02	1.33	2.59	4.60	1.95	2.71	1.47	0.49	23.11
1990	0.79	0.68	3.23	2.61	3.74	8.07	4.03	8.02	1.82	1.43	0.74	2.91	38.07
1991	0.93	0.46	2.23	5.96	6.85	1.72	7.67	2.91	3.90	1.76	6.23	1.67	42.29
1992	0.87	0.81	3.64	4.38	1.49	2.32	4.02	2.67	7.01	0.62	3.64	1.58	33.05
1993	1.18	1.10	2.51	5.78	5.41	10.79	3.78	5.31	1.80	0.94	1.38	0.75	40.73
1994	2.24	1.65	0.37	6.51	1.49	2.74	6.29	4.84	6.51	1.99	2.05	0.71	37.39
1995	0.73	0.38	2.78	3.99	3.76	2.71	3.84	4.20	2.23	3.36	1.45	0.82	30.25
1996	3.03	0.41	2.05	1.94	1.50	5.98	2.32	2.16	1.64	2.98	4.45	1.42	29.88
1997	1.81	1.16	3.05	1.89	2.38	3.12	5.46	5.55	2.43	2.42	0.24	0.64	30.15
1998	1.76	2.71	2.43	1.74	2.95	8.22	2.78	6.21	0.85	4.61	1.26	0.30	35.82
1999	2.84	0.78	0.60	6.02	4.37	2.43	8.42	2.19	2.39	1.43	1.50	0.67	33.64
2000	1.43	0.91	1.35	1.40	5.82	7.54	4.39	2.47	1.64	1.04	2.41	1.90	32.30
2001	1.19	0.99	1.16	4.61	4.96	3.88	1.12	4.45	5.58	1.44	1.92	0.83	32.13
2002	0.44	2.20	1.52	4.27	1.31	6.39	3.75	2.70	3.68	3.33	0.55	0.36	30.50
2003	0.53	0.56	2.46	2.48	3.99	2.45	2.51	1.34	2.61	0.55	2.23	0.72	22.43
2004	0.62	1.63	3.38	1.50	9.73	7.37	4.93	3.92	3.48	2.09	1.49	1.29	41.43
2005	1.40	1.28	1.90	2.00	2.40	2.42	4.86	3.95	6.92	0.39	2.23	0.56	30.31
2006	0.47	0.71	2.61	4.78	4.12	3.19	1.75	4.16	3.61	0.90	1.65	2.12	30.07
2007	0.67	1.87	3.18	2.17	3.91	3.03	3.54	13.75	3.25	2.88	0.21	2.64	41.10
2008	1.30	1.14	2.15	6.74	3.52	7.00	6.84	0.69	2.08	1.16	1.70	2.32	36.64
2009	0.74	0.97	1.18	2.51	3.94	2.85	2.27	5.29	1.02	5.67	0.58	3.36	30.38
2010	1.46	0.79	0.71	2.18	3.37	9.01	6.08	5.84	7.03	2.08	1.93	2.39	42.87
2011	0.79	1.12	2.86	5.14	3.17	8.63	4.61	1.79	3.04	1.63	0.91	1.41	35.10
2012	1.08	1.44	1.52	3.56	3.94	3.24	2.04	2.17	1.14	3.33	1.24	1.97	26.67
2013	1.09	1.31	2.12	5.92	8.49	5.82	1.36	1.04	1.61	3.84	1.77	1.52	35.89
2014	0.98	1.38	1.31	7.03	2.46	6.70	5.00	4.62	2.62	3.53	0.96	1.10	37.69
2015	0.67	0.54	0.81	4.16	6.41	3.70	3.62	2.80	2.73	2.18	1.93	4.93	34.48
POR= 73 YRS	1.04	0.99	1.99	3.19	3.71	4.38	3.83	3.71	3.35	2.16	1.69	1.27	31.31

WBAN : 14920

AVERAGE TEMPERATURE (°F) 2015 LA CROSSE (KLSE)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986		18.4	36.4	52.1	61.9	69.1	75.0	67.5	62.5	50.9	30.2	25.1	
1987	21.7	31.2	39.0	52.9	63.7	72.8	77.1	70.2	63.0	45.3	40.3	27.6	50.4
1988	13.4	15.8	35.0	48.0	65.2	73.4	76.6	76.0	64.6	44.6	36.6	21.8	47.6
1989	24.2	12.8	29.2	46.0	58.9	67.7	75.4	71.4	61.1	51.7	31.5	12.1	45.2
1990	28.1	25.4	38.4	49.3	56.6	69.5	73.2	72.1	65.5	49.6	41.4	19.0	49.0
1991				51.0	63.9	74.3	73.2	72.7	60.5	49.0	27.3	23.8	
1992	23.9	30.3	33.9	45.6	61.2	66.9	68.0	66.6	48.9	33.1	23.6		
1993	16.9	18.6	30.7	44.1	59.0	66.3	71.5	71.9	56.5	48.7	33.8	25.2	45.3
1994	6.0	14.9	35.7	47.7	60.7	71.8	70.8	67.5	66.0	55.2	41.6	29.0	47.2
1995	19.6	22.3	37.0	43.7	58.9	73.5	76.0	77.8	61.4	51.1	28.9	21.0	47.6
1996	11.9	19.9	28.5	44.8	57.1	69.4	71.5	72.4	64.1	51.7	29.2	19.9	45.0
1997	14.7	24.8	34.0	46.4	55.0	71.2	73.0	69.2	64.0	52.9	32.8	28.9	47.2
1998	24.0	34.1	35.7	52.7	66.0	68.5	75.3	73.7	68.8	53.4	40.9	29.2	51.9
1999	14.7	31.2	37.0	51.5	63.0	70.3	77.2	70.2	61.8	49.9	43.0	27.4	49.8
2000	18.1	30.6	42.5	48.7	61.7	67.9	72.5	72.1	62.7	53.5	34.0	8.7	47.8
2001	20.7	16.3	29.5	51.5	60.6	69.0	75.7	73.3	60.0	49.0	47.5	29.8	48.6
2002	27.9	30.0	28.8	47.5	56.4	71.1	76.7	70.9	65.5	45.3	34.8	27.7	48.6
2003	16.6	18.0	33.5	47.8	57.9	67.7	73.3	75.3	63.3	50.8	36.1	27.5	47.3
2004	15.0	24.2	39.2	50.4	58.4	65.8	70.9	66.7	67.2	51.3	39.2	23.7	47.7
2005	17.5	28.5	32.5	52.5	57.1	74.3	75.6	71.7	67.1	53.3	38.0	19.8	49.0
2006	31.1	21.9	35.5	53.6	60.4	69.5	78.0	71.9	59.9	46.6	38.9	30.8	49.8
2007	22.6	13.8	38.7	47.9	64.3	71.2	74.5	72.3	65.6	56.5	36.0	19.4	48.6
2008	14.6	15.0	28.9	46.4	56.5	68.4	73.5	70.4	64.6	50.9	36.2	14.1	45.0
2009	8.8	22.8	34.5	48.1	58.9	67.8	68.1	69.2	64.6	44.6	42.7	20.1	45.9
2010	14.8	19.8	40.5	54.6	61.0	69.6	75.5	75.9	61.2	53.6	37.2	16.8	48.4
2011	14.1	20.2	32.4	46.4	58.3	69.2	77.6	72.1	60.5	53.8	39.8	28.1	47.7
2012	23.8	29.1	50.4	49.6	64.2	72.5	79.7	71.0	61.4	48.2	38.0	26.0	51.2
2013	19.8	20.3	26.2	42.6	59.1	68.4	74.2	73.1	67.0	50.8	35.1	15.6	46.0
2014	9.4	9.7	27.5	45.0	60.4	72.1	71.0	73.5	63.2	50.6	30.1	28.0	45.0
2015	20.6	11.3	36.2	51.0	62.1	69.9	72.7	71.2	69.3	52.9	43.1	34.2	49.5
POR= 72 YRS	15.9	20.5	32.7	47.5	59.4	68.7	73.3	71.3	62.1	50.8	35.6	21.9	46.6

HEATING DEGREE DAYS (base 65°F) 2015 LA CROSSE (KLSE)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	0	28	102	602	733	1151	1595	1421	924	503	85	10	7154
1988-89	0	10	78	627	844	1332	1257	1458	1100	563	218	52	7539
1989-90	1	4	159	417	1000	1638	1138	1102	818	504	267	38	7086
1990-91	3	2	112	474	700	1421				438	176	2	
1991-92	5	3	217	490	1123	1275	1268	1001	958	576	173	59	7148
1992-93	22	46		498	952	1274	1486	1295	1057	620	213	55	
1993-94	1	10	265	507	929	1227	1829	1399	899	519	175	23	7783
1994-95	7	39	76	304	694	1110	1400	1189	862	632	194	24	6531
1995-96	5	0	171	436	1076	1360	1641	1304	1125	601	277	35	8031
1996-97	2	0	121	410	1068	1393	1552	1120	951	553	304	7	7481
1997-98	11	13	80	414	960	1108	1268	859	902	366	57	72	6110
1998-99	0	0	42	356	714	1104	1553	940	861	396	114	40	6120
1999-00	0	4	148	459	653	1158	1448	992	695	481	161	42	6241
2000-01	9	2	141	359	926	1740	1367	1358	1094	410	177	59	7642
2001-02	5	6	171	491	518	1085	1143	972	1116	545	305	28	6385
2002-03	0	3	101	610	899	1150	1493	1310	970	525	217	37	7315
2003-04	1	2	151	446	858	1158	1545	1176	791	446	217	60	6851
2004-05	9	54	64	422	766	1274	1466	1014	1002	374	246	0	6691
2005-06	0	7	56	391	804	1397	1044	1199	909	336	221	21	6385
2006-07	0	1	182	580	775	1053	1309	1428	816	518	94	8	6764
2007-08	0	8	97	300	859	1407	1553	1445	1111	556	260	11	7607
2008-09	0	4	75	435	860	1572	1731	1175	940	508	200	66	7566
2009-10	11	24	68	627	661	1385	1548	1258	753	316	200	10	6861
2010-11	0	1	134	353	826	1490	1572	1246	1004	555	247	41	7469
2011-12	0	0	188	363	750	1137	1265	1038	467	455	103	17	5783
2012-13	0	9	159	516	805	1201	1395	1244	1195	670	233	44	7471
2013-	12	2	66	434	890	1524							
2013-14	12	2	66	434	890	1524	1719	1543	1155	595	195	1	8136
2014-15	3	0	119	438	1040	1139	1368	1499	886	415	147	12	7066
2015-	3	11	49	375	648	949							

WBAN : 14920

COOLING DEGREE DAYS (base 65°F) 2015 LA CROSSE (KLSE)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1986		0	1	13	54	156	319	118	53	0	0	0	
1987	0	0	0	16	103	249	383	196	48	0	0	0	995
1988	0	0	0	0	101	269	365	360	73	0	0	0	1168
1989	0	0	1	0	38	138	331	212	48	11	0	0	779
1990	0	0	0	39	13	181	264	230	134	2	0	0	863
1991				24	148	286	267	251	84	0	0	0	
1992	0	0	0	0	59	124	121	102		5	0	0	
1993	0	0	0	0	35	100	209	232	14	10	0	0	600
1994	0	0	0	9	50	232	193	124	111	5	0	0	724
1995	0	0	0	0	13	286	353	405	71	11	0	0	1139
1996	0	0	0	0	38	174	210	236	101	5	0	0	764
1997	0	0	0	1	2	202	268	147	54	48	0	0	722
1998	0	0	0	3	96	185	326	277	163	2	0	0	1052
1999	0	0	0	0	55	209	384	169	59	0	0	0	876
2000	0	0	4	1	66	135	248	228	77	8	2	0	769
2001	0	0	0	10	48	185	344	269	28	1	0	0	885
2002	0	0	0	25	44	218	371	192	123	6	0	0	979
2003	0	0	0	16	4	124	265	326	104	13	0	0	852
2004	0	0	0	14	19	91	198	114	136	3	0	0	575
2005	0	0	0	5	7	285	335	222	125	38	0	0	1017
2006	0	0	0	0	83	163	411	222	36	14	0	0	929
2007	0	0	9	12	80	199	302	242	122	43	0	0	1009
2008	0	0	0	0	8	122	267	179	70	6	1	0	653
2009	0	0	0	6	21	159	113	158	63	0	0	0	520
2010	0	0	0	9	84	153	332	344	28	9	0	0	959
2011	0	0	0	1	47	174	395	228	57	20	0	0	922
2012	0	0	21	2	85	247	463	204	59	2	0	0	1083
2013	0	0	0	4	56	154	311	260	131	1	0	0	917
2014	0	0	0	0	59	222	198	269	74	0	0	0	822
2015	0	0	0	1	64	167	250	209	187	9	0	0	887

SNOWFALL (inches) 2015 LA CROSSE (KLSE)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	0.0	0.0	0.0	T	T	13.3	19.1	4.2	1.2	T	0.0	0.0	37.8
1988-89	0.0	0.0	0.0	T	7.6	5.2	3.8	7.9	19.3	T	T	0.0	43.8
1989-90	0.0	0.0	0.0	T	8.7	5.9	10.0	7.0	T	T	0.0	0.0	31.6
1990-91	0.0	0.0	0.0	T	0.8	30.4	12.6	2.6	0.3	2.5	0.0	0.0	49.2
1991-92	0.0	0.0	0.0	1.2	30.3	8.7	5.3	7.5	11.1	T	0.0	0.0	64.1
1992-93	0.0	0.0	0.0	1.8	3.8	10.6	10.4	12.6	10.0	8.9	0.0	0.0	58.1
1993-94	0.0	0.0	0.0	0.2	4.5	2.3	21.4	18.7	0.8	1.9	0.0	0.0	49.8
1994-95	0.0	0.0	T	0.0	3.2	5.7	5.9	2.2	9.6	3.8	T	0.0	30.4
1995-96	0.0	T	0.0	0.5	6.1	8.8	35.0	1.2	5.8	3.3	0.0	0.0	60.7
1996-97	0.0	0.0	0.0	0.0	12.2	11.3	11.1	10.9	20.5	3.2	0.0	T	69.2
1997-98	0.0	0.0	0.0	0.0	1.8	6.0	16.1	3.8	9.7	0.1	0.0	T	37.5
1998-99	0.0	T	0.0	0.0	0.3	4.1	31.9	2.4	5.3	0.0	0.0	0.0	44.0
1999-00	0.0	0.0	0.0	0.3	0.0	4.9	9.4	5.4	3.7	1.9	0.0	0.0	25.6
2000-01	0.0	0.0	0.0	0.0	2.8	25.5	4.3	6.2	8.1	0.1	0.0	0.0	47.0
2001-02	0.0	0.0	0.0	T	T	1.0	6.4	6.2	8.5	10.8	T	0.0	32.9
2002-03	0.0	0.0	0.0	0.0	2.7	1.7	7.0	6.2	6.0	6.7	0.0	0.0	30.3
2003-04	0.0	0.0	0.0	T	0.5	6.0	8.2	14.5	5.5	0.0	T	0.0	34.7
2004-05	T	0.0	0.0	T	0.2	9.1	14.3	5.6	19.7	T	T	0.0	48.9
2005-06	0.0	0.0	0.0	0.0	6.1	12.9	1.6	11.4	7.8	T	0.0	0.0	39.8
2006-07	0.0	0.0	0.0	T	2.9	T	12.4	23.8	7.3	3.5	0.0	0.0	49.9
2007-08	0.0	0.0	0.0	0.0	1.7	24.2	18.3	15.0	7.9	0.8	0.0	0.0	67.9
2008-09	0.0	0.0	0.0	T	4.0	32.7	10.1	7.7	1.2	T	0.0	0.0	55.7
2009-10	0.0	0.0	0.0	0.4	T	24.9	5.0	9.5	0.0	0.0	0.0	0.0	39.8
2010-11	0.0	0.0	0.0	0.0	T	32.3	11.3	10.8	5.6	4.7	0.0	0.0	64.7
2011-12	0.0	0.0	0.0	T	0.7	4.3	13.2	2.8	0.5	T	0.0	0.0	21.5
2012-13	0.0	0.0	0.0	0.0	0.1	18.3	6.5	15.1	15.6	4.2	0.8	0.0	60.6
2013-	T	0.0	0.0	T	1.0	12.7							
2013-14	T	0.0	0.0	T	1.0	12.7	15.7	11.5	5.7	2.3	0.0	0.0	48.9
2014-15	0.0	0.0	0.0	0.0	7.8	2.0	9.4	9.2	9.9	0.5	0.0	0.0	38.8
2015-	0.0	0.0	0.0	0.0	0.9	11.6							
POR= 67 YRS	T	T	T	0.1	3.6	10.1	10.7	8.3	8.3	1.9	T	T	43.0

WBAN : 14920

REFERENCE NOTES :

<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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2015 LA CROSSE WISCONSIN (KLSE)

The city of La Crosse is situated on the east bank of the Mississippi River at the confluence of the Mississippi, Black, and La Crosse Rivers. The official records are taken at the La Crosse Municipal Airport which is 6 1/2 miles north of the main Post Office, on the north end of French Island. This island is about 6 miles long from north to south and 2 to 4 miles wide with the Mississippi River to the west and the old channel of the Black River to the east. A rather level sandy plain exists on each side of the river extending between the Wisconsin and Minnesota bluffs which rise 450 to 500 feet above the valley floor. The distance from bluff to bluff averages about 5 miles. The Mississippi River bends to the northwest and continues directly southward from the city.

The prevailing winds in the area are from the northwest from January through April and southerly during the remainder of the year. The situation of the city and airport in a natural bowl between the hills results in somewhat colder temperatures at night due to the settling of cooler air. Valley fogs often persist to mid-forenoon. Steepsided hills with narrow valleys are characteristic of most of the surrounding area.

The flow of the Mississippi River is regulated by dams built for the purpose of navigation, but the reservoirs have limited storage capacity. La Crosse is in the area of Pool No. 8 with a mean sea level elevation of 631 feet. When the river reaches an elevation of 639 feet, with open gate operation, there is considerable flooding of land near the river and some industrial sections of the city.

The invigorating continental-type climate results in wide and frequent variations in temperature. General storms moving eastward or northeastward into our area bring warmer weather and supply most of our moisture. These are usually followed by cooler air from Canada. The winters are cold and humid. The summers are warm with moderate humidities, while periods of hot and humid weather occur occasionally, usually lasting from a few days to a week at a time.

Sixty percent of the precipitation falls during the main growing season, extending from May through September. Most of the summer rainfall occurs during scattered thunderstorms. Some damage from heavy rains, high winds, and hail occurs each year, but tornadoes are infrequent and cover very small areas. Snow is frequent and is the predominant form of precipitation in winter. Heavy snow sometimes falls with larger amounts over the ridges. Glaze storms are not numerous since La Crosse is north of the main path of freezing rain.

Farming is diversified with dairying the leading activity. The more important field crops are corn, oats, and hay. Some of the more specialized crops are soybeans, tobacco, small fruits, and cranberries. Commercial apple orchards are numerous across the Mississippi River in Minnesota.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 13 and the average last occurrence in the spring is April 29.

Station History

LA CROSSE, WI

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
LA CROSSE MUNICIPAL AP	2002-09-11	2004-12-02	43° 52'	-91° 15'	652		AIRWAYS, ASOS, COOP
LA CROSSE MUNICIPAL AP	1950-12-14	1951-01-01	43° 55'	-91° 16'	669		AIRWAYS, COOP
LA CROSSE MUNICIPAL AP	1996-08-01	2000-10-05	43° 52'	-91° 15'	651		AIRWAYS, COOP
LA CROSSE MUNICIPAL AP	2004-12-02	Present	43° 52'	-91° 15'	652		AIRWAYS, ASOS, COOP
LA CROSSE MUNICIPAL AP	1994-03-03	1996-02-27	43° 52'	-91° 15'	651		AIRWAYS, COOP
LA CROSSE MUNICIPAL AP	1951-01-01	1952-01-01	43° 52'	-91° 15'	656		AIRWAYS, COOP
LA CROSSE MUNICIPAL AP	1996-02-27	1996-08-01	43° 52'	-91° 15'	651	999 UN UN	AIRWAYS, COOP
LA CROSSE MUNICIPAL AP	1952-01-01	1994-03-03	43° 52'	-91° 15'			AIRWAYS, COOP
LA CROSSE MUNICIPAL AP	2000-10-05	2002-09-11	43° 52'	-91° 15'	651		AIRWAYS, ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	2002-09-11	2004-12-02	DAILY	2400	TB	RCRD	
WIND	2004-12-02	2006-09-20	HOURLY	UNKN	ANEMCUP		
TEMP	1950-12-14	1991-07-18	DAILY	2400	HYGR		
PRECIP	2004-12-02	2006-09-20	DAILY	2400	PCPNX		
WIND	2000-10-05	2002-09-11	HOURLY	UNKN	ANEMCUP		
PRECIP	2000-10-05	2002-09-11	DAILY	2400	SRG		ROOF
TEMP	2002-09-11	2004-12-02	DAILY	2400	ATEMP		
PRECIP	2002-09-11	2004-12-02	HOURLY	2400	TB	RCRD	
PRECIP	2006-09-20	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1950-12-14	1969-10-29	HOURLY	2400			
TEMP	1991-07-18	2000-10-05	DAILY	2400	HYGR		
PRECIP	2006-09-20	Present	DAILY	2400	PCPNX		
PRECIP	2004-12-02	2006-09-20	HOURLY	2400	AWPAG	RCRD;HTD	
TEMP	2004-12-02	2006-09-20	DAILY	2400	ATEMP		
PRECIP	1950-12-14	1991-07-18	DAILY	2400			
PRECIP	1991-07-18	2000-10-05	DAILY	2400	SRG		ROOF
TEMP	2000-10-05	2002-09-11	DAILY	2400	HYGR		
WIND	2002-09-11	2004-12-02	HOURLY	UNKN	ANEMCUP		
WIND	2006-09-20	Present	HOURLY	UNKN	ANEMSONIC		
TEMP	2006-09-20	Present	DAILY	2400	ATEMP		

* 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>

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