

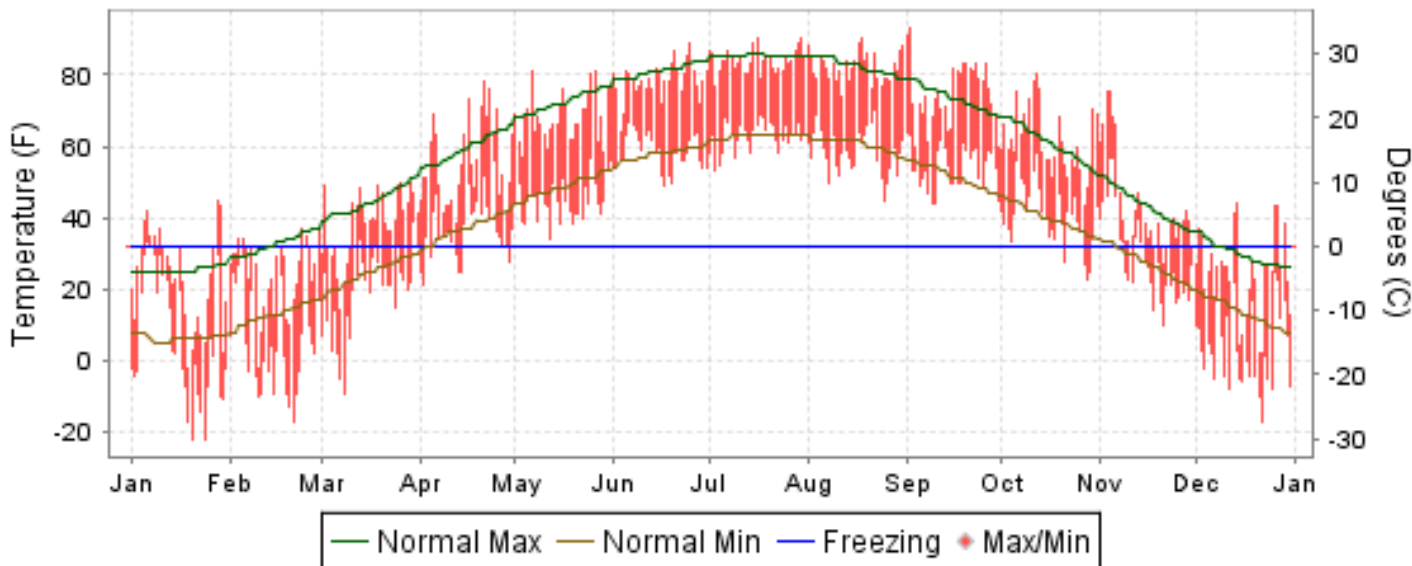


2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

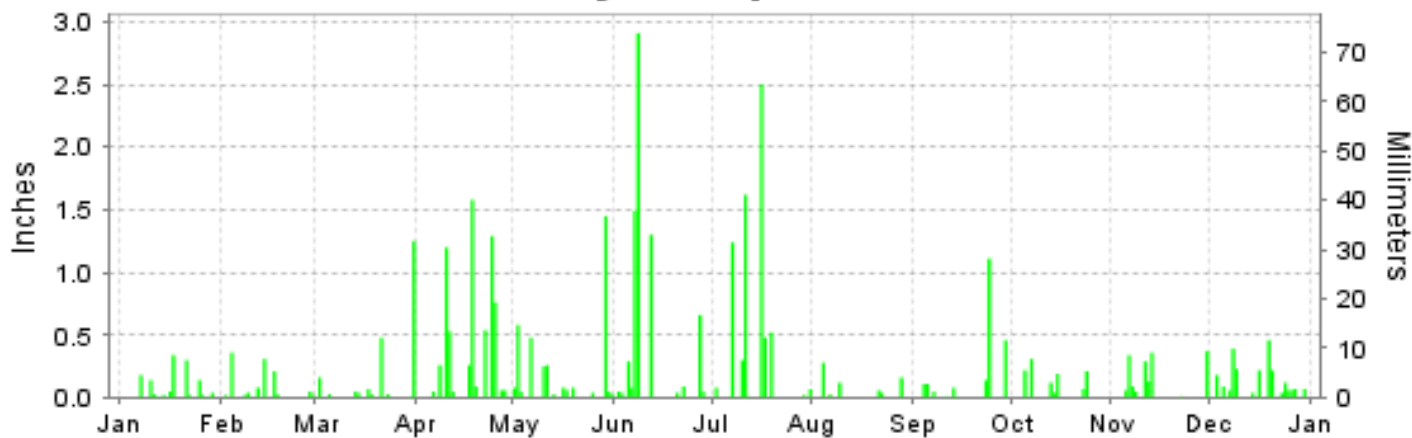
ISSN 0198-5701

LA CROSSE, WISCONSIN (KLSE)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2008

LA CROSSE (KLSE)

LATITUDE:
43 ° 45'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	23.2	24.6	38.4	55.9	68.3	78.3	84.0	82.2	75.0	61.4	43.4	24.7	55.0	
	HIGHEST DAILY MAXIMUM	45	37	50	78	81	89	90	90	93	80	75	44	93	
	DATE OF OCCURRENCE	28	24	29+	21	26+	25	30+	18	02	12	04+	14	SEP 02	
	MEAN DAILY MINIMUM	6.0	5.3	19.4	36.8	44.7	58.5	62.9	58.6	54.1	40.4	28.9	3.5	34.9	
	LOWEST DAILY MINIMUM	-22	-17	-9	21	34	49	53	45	44	23	10	-17	-22	
	DATE OF OCCURRENCE	24+	21	08	02	12	17	03	25	10+	28	21	22	JAN 24+	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	13.9	14.1	26.1	41.0	49.2	61.1	65.7	63.0	58.1	45.4	33.0	14.5	40.4	
	MEAN DEW POINT	8.5	8.4	18.7	34.0	41.3	55.6	61.3	58.4	54.0	39.5	27.8	9.5	34.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	2	1	2	0	0	0	5
MAXIMUM <= 32°	24	24	9	0	0	0	0	0	0	0	5	7	69		
MINIMUM <= 32°	30	29	29	9	0	0	0	0	0	4	19	31	151		
MINIMUM <= 0°	15	12	2	0	0	0	0	0	0	0	0	14	43		
H/C	HEATING DEGREE DAYS	1553	1445	1111	556	260	11	0	4	75	435	860	1572	7882	
	COOLING DEGREE DAYS	0	0	0	0	8	122	267	179	70	6	1	0	653	
RH	MEAN (PERCENT)	74	72	66	66	60	67	69	68	72	68	72	75	69	
	HOUR 00 LST	77	75	71	71	72	79	80	81	81	76	73	76	76	
	HOUR 06 LST	75	77	77	78	76	82	84	88	88	81	79	80	80	
	HOUR 12 LST	70	69	57	58	45	54	55	51	57	55	69	71	59	
	HOUR 18 LST	70	66	58	57	48	53	56	51	62	60	69	72	60	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	6	4	8	1	1	2	2	5	2	3	2	4	40	
	THUNDERSTORMS	0	1	0	4	7	7	9	6	4	0	0	0	38	
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.)	29.33	29.31	29.35	29.24	29.15	29.14	29.21	29.29	29.37	29.42	29.28	29.32	29.28	
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.07	30.10	29.96	29.85	29.83	29.89	29.98	30.07	30.13	30.02	30.08	30.01	
WINDS	RESULTANT SPEED (MPH)	2.2	2.1	0.7	1.5	0.4	1.9	2.7	1.8	1.8	1.4	1.8	2.4	1.3	
	RES. DIR. (TENS OF DEGS.)	25	30	30	22	30	22	20	16	19	19	27	25	24	
	MEAN SPEED (MPH)	7.5	7.1	6.8	9.5	8.1	7.3	6.4	5.6	7.1	7.6	8.7	8.8	7.5	
	PREVAIL.DIR.(TENS OF DEGS.)	17	17	32	34	33	17	16	12	18	12	18	17	17	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	30	30	30	32	30	35	40	31	30	35	37	33	40	
	DIR. (TENS OF DEGS.)	32	30	31	17	18	20	29	33	25	27	21	32	29	
	DATE OF OCCURRENCE	29	29	02	15	06	06	10	04	07	07	26	06	29	
	JUL 10														
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	38	39	35	46	46	44	58	41	37	45	47	43	58		
DIR. (TENS OF DEGS.)	32	30	31	08	17	21	29	32	26	27	21	33	29		
DATE OF OCCURRENCE	29	29	02	10	06	06	10	04	07	07	26	06	29		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.34	0.36	1.25	1.61	1.47	2.93	2.98	0.28	1.25	0.31	0.42	0.62	2.98	
	DATE OF OCCURRENCE	17	04	31	17-18	29-30	07-08	16-17	04	23-24	07	11-12	08-09	JUL 16-17	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	13	10	10	14	14	11	10	6	9	7	9	16	129	
PRECIPITATION 0.10	5	3	3	8	5	5	6	3	5	5	5	6	59		
PRECIPITATION 1.00	0	0	1	3	1	3	3	0	1	0	0	0	12		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	18.3	15.0	7.9	0.8	0.0	0.0	0.0	0.0	0.0	T	4.0	32.7	78.7	
	GREATEST 24-HOUR (IN.)	8.0	5.0	6.8	0.5	0.0	0.0	0.0	0.0	0.0	T	3.7	5.2	8.0	
	DATE OF OCCURRENCE	21	14	21	28						27+	30	20	JAN 21	
	MAXIMUM SNOW DEPTH (IN.)	15	12	8	T	0	0	0	0	0	0	1	16	16	
	DATE OF OCCURRENCE	26	22+	02+	28+							30	22+	DEC 22+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	3	4	1	0	0	0	0	0	0	0	1	11	20		

NORMALS, MEANS, AND EXTREMES

LA CROSSE (KLSE)

LATITUDE: 43° 45'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	25.5	32.4	44.6	59.7	72.5	81.3	85.2	82.5	73.7	61.1	43.6	29.9	57.7
	MEAN DAILY MAXIMUM	65	24.9	30.1	41.6	57.9	70.2	79.2	83.9	81.7	72.4	60.9	43.1	29.5	56.3
	HIGHEST DAILY MAXIMUM	56	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.	67	43.9	48.6	65.4	80.7	87.8	93.1	95.3	93.9	89.2	80.3	64.1	48.9	74.3
	NORMAL DAILY MINIMUM	30	6.3	12.8	24.5	37.1	48.7	57.9	62.8	60.7	51.7	40.1	27.4	13.6	37.0
	MEAN DAILY MINIMUM	65	6.9	11.3	23.2	36.9	48.3	57.7	62.6	60.6	51.4	40.7	27.6	13.9	36.8
	LOWEST DAILY MINIMUM	57	-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.	67	-17.0	-12.9	1.7	21.5	33.6	44.4	50.9	48.2	35.9	25.0	9.8	-9.1	19.3
	NORMAL DRY BULB	30	15.9	22.6	34.6	48.4	60.6	69.6	74.0	71.6	62.7	50.6	35.5	21.8	47.3
	MEAN DRY BULB	65	15.9	20.7	32.4	47.4	59.2	68.6	73.2	71.2	61.9	50.8	35.4	21.7	46.5
	MEAN WET BULB	24	24.3	25.7	34.5	44.8	53.4	61.6	65.3	64.1	58.4	47.3	36.9	27.4	45.3
	MEAN DEW POINT	24	20.4	21.5	29.6	38.4	48.5	58.0	62.2	61.3	55.4	43.3	33.1	23.9	41.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	1.0	4.0	7.3	4.1	1.3	0.1	0.0	0.0	17.9
	MAXIMUM <= 32	30	22.0	14.2	5.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	5.5	17.9	65.4
	MINIMUM <= 32	30	30.5	26.5	23.9	9.4	0.6	0.0	0.0	0.0	0.4	6.7	21.3	29.4	148.7
MINIMUM <= 0	30	11.5	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	6.1	26.0	
H/C	NORMAL HEATING DEG. DAYS	30	1536	1202	959	521	202	38	6	17	152	467	893	1347	7340
	NORMAL COOLING DEG. DAYS	30	0	0	0	8	49	162	272	208	70	6	0	0	775
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)	44	1.2	0.9	1.8	0.6	0.9	1.2	1.4	3.4	3.4	1.7	1.2	1.3	19.0
	THUNDERSTORMS	60	0.1	0.2	1.2	2.9	5.1	7.4	7.3	6.8	4.5	2.1	0.6	0.2	38.4
CLOUDNESS	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)	24	29.28	29.29	29.26	29.22	29.21	29.21	29.23	29.25	29.26	29.27	29.25	29.28	29.25
	MEAN SEA-LEVEL PRES. (IN)	24	30.03	30.05	30.00	29.95	29.93	29.93	29.95	29.97	29.98	30.00	29.99	30.03	29.98
WINDS	MEAN SPEED (MPH)	24	8.8	8.9	9.3	9.9	9.1	8.4	7.7	7.3	8.3	9.1	9.5	8.9	8.8
	PREVAIL.DIR(TENS OF DEGS)	35	33	19	34	19	19	19	19	19	19	19	19	19	19
	MAXIMUM 2-MINUTE: SPEED (MPH)	8	36	35	39	49	45	44	53	44	46	47	37	38	53
	DIR. (TENS OF DEGS)		18	29	20	22	24	24	28	33	25	25	21	32	28
	YEAR OF OCCURRENCE		2005	2001	2005	2001	2007	2003	2003	2007	2007	2004	2008	2004	JUL 2003
	MAXIMUM 3-SECOND SPEED (MPH)	8	45	44	51	61	59	62	66	64	56	60	47	47	66
	DIR. (TENS OF DEGS)		31	28	20	24	27	23	29	01	25	26	21	32	29
YEAR OF OCCURRENCE		2006	2001	2005	2001	2005	2003	2003	2007	2007	2004	2008	2004	JUL 2003	
PRECIPITATION	NORMAL (IN)	30	1.19	0.99	2.00	3.38	3.38	4.00	4.25	4.28	3.40	2.16	2.10	1.23	32.36
	MAXIMUM MONTHLY (IN)	56	3.03	2.71	3.82	7.31	9.73	10.79	9.35	13.75	10.52	5.09	6.23	2.91	13.75
	YEAR OF OCCURRENCE		1996	1998	1951	1973	2004	1993	1987	2007	1965	1984	1991	1990	AUG 2007
	MINIMUM MONTHLY (IN)	56	0.14	0.05	0.30	0.60	0.94	1.33	0.16	0.54	0.42	0.02	T	0.30	T
	YEAR OF OCCURRENCE		1981	1969	1978	1966	1988	1989	1967	1976	1952	1952	1976	1962	NOV 1976
	MAXIMUM IN 24 HOURS (IN)	56	1.31	1.11	1.64	3.84	2.87	3.94	5.24	5.98	3.15	2.28	2.80	1.42	5.98
	YEAR OF OCCURRENCE		1967	2002	1966	1954	2000	1967	1987	2007	2004	1998	1991	1990	AUG 2007
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.5	7.6	9.6	10.8	11.0	11.0	10.8	10.4	9.6	8.3	8.9	9.3	116.8
PRECIPITATION >= 1.00	30	0.0	0.1	0.3	0.7	0.7	1.0	1.0	1.1	0.8	0.3	0.4	0.1	6.5	
SNOWFALL	NORMAL (IN)	30	12.9	8.0	7.2	2.0	0.*	0.0	0.0	0.0	0.*	0.2	4.4	9.6	44.3
	MAXIMUM MONTHLY (IN)	56	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	1960	1997	2004	1995	1994	1992	1991	2008	JAN 1996
	MAXIMUM IN 24 HOURS (IN)	42	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	1960	1997	2004	1995	1994	1992	1991	1990	MAR 1959
	MAXIMUM SNOW DEPTH (IN)	59	34	29	31	16	0	0	0	0	0	1	15	20	34
	YEAR OF OCCURRENCE		1979	1979	1959	1973						1992	1991	1968	JAN 1979
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	4.0	2.5	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.1	1.3	3.1	13.8

PRECIPITATION (inches) 2008 LA CROSSE (KLSE)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	2.41	0.65	2.02	1.79	5.68	1.58	3.52	7.55	0.53	4.41	2.44	0.67	33.25
1980	1.61	0.35	0.65	1.74	2.66	3.57	2.26	9.84	8.51	2.36	0.14	0.61	34.30
1981	0.14	2.10	0.60	4.37	1.88	2.60	7.66	9.56	1.77	1.89	1.08	0.86	34.51
1982	1.34	0.17		1.65	4.71	1.35	1.89	2.91	2.67	2.83	3.64	2.03	
1983	0.89	2.27	1.60	2.37	4.50	1.67	3.16	3.06	4.94	3.35	3.72	0.68	32.21
1984	0.28	0.92	1.94	3.65	2.18	7.43	3.00	2.11	2.87	5.09	1.36	2.42	33.25
1985	0.88	1.27	2.66	2.85	1.08	2.82	2.39	3.21	5.63				
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
POR= 66 YRS	1.04	0.98	2.04	3.07	3.62	4.25	3.86	3.74	3.41	2.06	1.72	1.15	30.94

WBAN : 14920

AVERAGE TEMPERATURE (°F) 2008 LA CROSSE (KLSE)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	6.0	12.6	32.8	45.7	58.0	67.3	72.1	68.8	62.8	47.7	34.9	28.3	44.8
1980	18.5	17.9	29.7	49.4	62.8	70.3	78.3	74.1	63.7	45.2	36.5	20.8	47.3
1981	19.5	25.3	37.7	51.2	58.4	69.1	73.6	71.4	60.8	47.6	38.0	19.6	47.7
1982	4.3	17.2		44.2	62.8	63.5	74.2	70.3	60.9	50.8	34.1	27.2	
1983	19.9	25.2	33.8	42.6	54.3	69.0	76.7	75.3	62.9	49.6	35.9	6.4	46.0
1984	14.1	30.3	27.3	48.2	55.9	69.6	71.1	72.9	59.0	52.4	35.0	21.5	46.4
1985	10.9	16.5	37.2	52.5	62.0	64.5	72.1	68.4	62.2				
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
POR= 65 YRS	15.9	20.7	32.4	47.4	59.2	68.6	73.2	71.2	61.9	50.8	35.4	21.7	46.5

HEATING DEGREE DAYS (base 65°F) 2008 LA CROSSE (KLSE)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	1	37	116	535	894	1133	1438	1358	1085	480	155	15	7247
1980-81	0	3	112	607	849	1362	1402	1107	840	408	214	11	6915
1981-82	5	7	157	535	802	1402	1878	1333		619	112	77	
1982-83	0	41	177	433	919	1164	1391	1109	960	666	325	46	7231
1983-84	6	0	160	480	867	1814	1572	1002	1159	501	285	5	7851
1984-85	9	6	219	384	893	1344	1673	1355	854	409	129	92	7367
1985-86	0	24	203					1298	880	394	141	25	
1986-87	1	35	120	431	1039	1230	1336	942	798	372	137	11	6452
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-	0	4	75	435	860	1572							

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COOLING DEGREE DAYS (base 65°F) 2008 LA CROSSE (KLSE)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1979	0	0	0	0	30	104	226	161	60	3	0	0	584
1980	0	0	0	20	96	180	416	293	79	0	0	0	1084
1981	0	0	0	0	19	139	277	211	37	0	0	0	683
1982	0	0	0	0	54	38	292	212	60	0	0	0	
1983	0	0	0	1	0	172	375	324	104	12	0	0	988
1984	0	0	0	2	8	149	206	257	48	0	0	0	670
1985	0	0	0	41	42	84	229	136	126				
1986	0	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	0	0	0	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

SNOWFALL (inches) 2008 LA CROSSE (KLSE)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	0.0	0.0	0.0	T	3.2	T	10.7	4.1	10.1	3.9	0.0	0.0	32.0
1980-81	0.0	0.0	0.0	T	0.4	4.6	1.9	13.9	1.0	T	0.0	0.0	21.8
1981-82	0.0	0.0	0.0	0.5	3.6	11.6	14.3	2.2	0.0	0.0	0.0	0.0	34.6
1982-83	0.0	0.0	0.0	0.0	T	0.0	9.8	18.5	4.2	2.1	0.0	0.0	29.4
1983-84	0.0	0.0	0.0	0.0	4.0	9.2	3.5	1.7	11.0	T	0.0	0.0	45.4
1984-85	0.0	0.0	0.0	T	2.9	13.3	9.4	5.3	14.5	T	0.0	0.0	45.4
1985-86	0.0	0.0	T					8.2	T	T	0.0	0.0	38.7
1986-87	0.0	0.0	0.0	T	8.7	2.6	12.6	2.3	12.5	T	0.0	0.0	37.8
1987-88	0.0	0.0	0.0	T	T	13.3	19.1	4.2	1.2	T	0.0	0.0	43.8
1988-89	0.0	0.0	0.0	T	7.6	5.2	3.8	7.9	19.3	T	T	0.0	31.6
1989-90	0.0	0.0	0.0	T	8.7	5.9	10.0	7.0	T	T	0.0	0.0	49.2
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	64.1
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	58.1
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	49.8
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	30.4
1994-95	0.0	0.0	T	0.0	3.2	5.7	5.9	2.2	9.6	3.8	T	0.0	60.7
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	69.2
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	37.5
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	44.0
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	25.6
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	47.0
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	32.9
2001-02	0.0	0.0	0.0	T	T	1.0	6.4	6.2	8.5	10.8	T	0.0	30.3
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	34.7
2003-04	0.0	0.0	0.0	T	0.5	6.0	8.2	14.5	5.5	0.0	T	0.0	48.9
2004-05	T	0.0	0.0	T	0.2	9.1	14.3	5.6	19.7	T	T	0.0	39.8
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	49.9
2006-07	0.0	0.0	0.0	T	2.9	T	12.4	23.8	7.3	3.5	0.0	0.0	67.9
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	
2008-	0.0	0.0	0.0	T	4.0	32.7							
POR= 60 YRS	T	T	T	0.1	3.8	9.5	10.7	8.1	8.7	1.9	T	T	42.8

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. 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.</p>	<p>GENERAL CONTINUED: 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. 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.</p> <p>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.</p>
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2008 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 Location

LA CROSSE

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE							AUTOMATIC OBSERVING EQUIPMENT *	REMARKS	
								SEA LEVEL	GROUND								HYGROTHERMOMETER
									GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE			
*NOTE:																	
AIRPORT																	
Brice Prairie Airport Midway, Wisconsin	12/17/39	12/14/50		43° 56'	91° 17'	664	29	5	5	3	5	4		Wind instruments transferred from WBO 2/7/43.			
Municipal Airport La Crosse, Wisconsin	12/14/50	8/25/52	3.5 mi. SSE	43° 52'	91° 15'	653	51	5	5	3	5	4		Office in Fanta-Reed Hangar.			
Administration Building Municipal Airport	8/25/52	10/05/00	0.1 mi. NW	43° 52'	91° 15'	652 b651	39 b21	6 d	6		5 c	4	a4	a. Commissioned 2100' N of thermometer site 11/19/64. b. Effective 11/19/64. FAA operation effective 10/1/68. c. Removed 10/29/69. d. Removed 9/1979. Hours of operation reduced 10/13/85 to 1/11/86. Unpublished period is 10/85 through 1/86.			
Municipal Airport	10/05/00	Present		43° 45'	91° 15'	e655								S ASOS Commissioned 10/05/2000 e. Ground elevation			

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* NOTES: For earlier station history see previous editions.