



DECEMBER 2002

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

LA CROSSE, WI

MUNICIPAL AIRPORT (LSE)

Lat: 43° 45' N Long: 91° 15' W Elev (Ground): 655 Feet

Time Zone: CENTRAL WBAN: 14920 ISSN #:0198-571X

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND (IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE	
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0600 LST	1200 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM						
																			5-SEC		2-MIN				
																			SPEED	DIR	SPEED	DIR			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
01	40	14	27	-1	13	23	38	0		0		0.0	0.00	29.13	29.88	3.0	23	6.8	16	26	14	18	01		
02	31	9	20	-8	9	18	45	0	SN BR	1		1.1	0.07	29.40	30.15	7.9	02	8.4	22	03	17	04	02		
03	24	3*	14*	-14	5	12	51	0		1		0.0	0.00	29.86	30.65	1.0	03	2.7	9	35	8	35	03		
04	26	16	21	-6	14	19	44	0	SN FG+ FZFG BR	1		T	T	29.75	30.52	0.7	23	2.9	14	31	12	29	04		
05	22	8	15	-11	6	13	50	0	SN	T		T	T	29.52	30.29	5.6	27	7.0	16	29	13	29	05		
06	38	7	23	-2	15	20	42	0		T		0.0	0.00	29.29	30.05	7.1	19	9.3	21	20	17	19	06		
07	36	24	30	5	20	27	35	0		T		0.0	0.00	29.31	30.05	8.9	30	9.5	23	27	17	29	07		
08	26	6	16	-9	1	13	49	0		0		0.0	0.00	29.76	30.53	5.1	34	7.3	18	33	15	35	08		
09	37	5	21	-3	9	19	44	0		0		0.0	0.00	29.57	30.34	9.5	19	9.9	21	22	18	22	09		
10	46	26	36	12	25	31	29	0		0		0.0	0.00	29.35	30.08	8.3	18	8.4	15	18	13	19	10		
11	42	27	35	12	29	32	30	0	BR HZ	0		0.0	0.00	29.25	29.98	9.0	18	9.3	20	19	16	20	11		
12	42	26	34	11	32	34	31	0	BR HZ	0		0.0	0.00	29.28	30.01	4.6	20	5.3	14	24	13	24	12		
13	32	24	28	5	29	29	37	0	FG+ FZFG BR	0		0.0	0.00	29.27	30.01	1.4	31	2.7	9	31	8	31	13		
14	46	29	38	16	30	33	27	0	BR	0		0.0	0.00	29.14	29.87	7.6	19	7.9	21	19	18	19	14		
15	45	28	37	15	27	32	28	0		0		0.0	0.00	29.19	29.92	5.1	05	6.8	21	08	17	08	15		
16	32	21	27	6	14	24	38	0		0		0.0	0.00	29.35	30.10	11.1	12	11.5	24	14	18	12	16		
17	39	31	35	14	27	32	30	0	TS RA VCTS	0		0.0	T	29.18	29.91	11.9	13	12.0	28	14	22	13	17		
18	53*	36	45*	24	43	44	20	0	TSRA RA BR VCTS	0		0.0	0.23	28.79	29.50	5.6	17	9.1	22	26	18	25	18		
19	41	31	36	16	30	34	29	0	SN BR	0		0.1	0.02	28.85	29.56	9.1	25	9.8	24	23	18	24	19		
20	32	28	30	10	23	27	35	0	SN BR	T		0.5	0.04	28.76	29.49	15.2	28	15.4	30	30	24	29	20		
21	30	24	27	7	19	25	38	0	SN BR	T		T	T	29.00	29.74	12.6	29	12.9	33*	30	24	30	21		
22	29	25	27	8	17	24	38	0	SN	T		T	T	29.16	29.90	14.5	30	14.8	32	30	25*	29	22		
23	29	16	23	4	12	20	42	0		T		0.0	0.00	29.37	30.12	11.3	30	11.6	29	29	23	29	23		
24	24	11	18	-1	12	17	47	0	UP	T		T	T	29.32	30.08	6.3	36	6.4	15	35	13	35	24		
25	26	16	21	3	16	20	44	0	SN	0		T	T	29.33	30.09	4.8	32	7.6	15	35	13	34	25		
26	33	14	24	6	16	20	41	0		0		0.0	0.00	29.48	30.24	6.7	18	6.9	14	19	13	19	26		
27	36	21	29	11	24	27	36	0		0		0.0	0.00	29.36	30.11	9.7	19	10.1	23	20	20	21	27		
28	39	24	32	14	27	30	33	0	BR HZ	0		0.0	0.00	29.21	29.94	3.5	17	4.2	20	19	15	19	28		
29	47	25	36	19	29	33	29	0	BR HZ	0		0.0	0.00	29.15	29.88	7.4	13	7.5	22	13	20	15	29		
30	48	27	38	21	30	34	27	0	BR HZ	0		0.0	0.00	28.95	29.67	5.1	30	8.5	24	31	20	31	30		
31	30	14	22	5	13	20	43	0		0		0.0	0.00	29.34	30.09	8.4	33	9.3	23	33	21	33	31		
35.5											< MONTHLY AVERAGES		TOTALS->		1.7	0.36	29.28	30.02	2.3	24	8.5	<- MONTHLY AVERAGES			
5.6											<-----DEPARTURE FROM NORMAL----->		-.87		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.23 DATE :18						SEA LEVEL PRESSURE DATE TIME										
MONTHLY									GREATEST 24-HR SNOWFALL: 1.1 DATE :02						MAXIMUM										
TOTAL DEPARTURE									GREATEST SNOW DEPTH: 1 DATE :04+						MINIMUM										
HEATING: 1150 -197									NUMBER OF DAYS WITH →						PRECIPITATION ≥ 0.01 INCH : 4										
COOLING: 0 0									MAXIMUM TEMP ≥ 90: 0						PRECIPITATION ≥ 0.10 INCH : 1										
									MAXIMUM TEMP ≤ 32 :14						THUNDERSTORMS : 2										
									MINIMUM TEMP ≤ 32 :30						MINIMUM TEMP ≤ 0 : 0										
									HEAVY FOG						PRECIPITATION ≥ 1.0 INCH : 1										

DECEMBER 2002
LA CROSSE, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

LA CROSSE, WI

DECEMBER 2002

LSE

WBAN # 14920

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water Equiv.
01													01												01	0.03	0.00	
02				T	T	0.02	0.01	T					02												02		0.07	
03											T		03				T	T	T	T					03		0.00	
04				T									04				T								04		T	
05													05												05		T	
06													06												06	0.00		
07													07												07	0.00		
08													08												08	0.00		
09													09												09	0.00		
10													10												10	0.00		
11													11												11	0.00		
12													12												12	0.00		
13													13												13	0.00		
14													14												14	0.00		
15													15												15	0.00		
16													16												16	0.00		
17													17												17	T		
18	0.07	0.02	T		T	T		0.01				0.01	18	0.03	T	0.01		T	T					T	18	0.23		
19													19									0.02	T	T	19	0.02		
20	T	T	T			T	T		T	0.01	T		20		T	T	T	T	T					T	20	0.04		
21				T	T	T	T						21												21	T		
22											T	T	22												22	T		
23													23												23	0.00		
24													24									T			24	T		
25													25												25	0.00		
26													26												26	0.00		
27													27												27	0.00		
28													28												28	0.00		
29													29												29	0.00		
30													30												30	0.00		
31													31												31	0.00		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.06	.07	.08	.08	.08	.08	.09	.11	.12	.12	.12	.12
Ending Date	18	18	18	18	18	18	18	18	18	18	18	18
Ending Time (Hour/Min)	0050	0053	0103	0103	0103	0103	1219	1211	1219	1219	1219	1219

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

* = Extreme for the month (last occurrence if more than one)
T = Trace precipitation amount
+ = also occurs on earlier date
FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

WEATHER NOTATIONS

**LA CROSSE, WI
DECEMBER 2002**

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

<div style="writing-mode: vertical-rl; transform: rotate(180deg);">DATE</div>	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR—SS		MN—MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							1.50	10.00	
03							10.00	10.00	
04							.25	10.00	
05							9.00	10.00	
06							7.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							8.00	10.00	
11							5.00	10.00	
12							4.00	8.00	
13							<.25	5.00	
14							3.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							7.00	10.00	
18							2.50	10.00	
19							4.00	10.00	
20							1.50	10.00	
21							2.50	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							8.00	10.00	
27							7.00	10.00	
28							5.00	8.00	
29							4.00	10.00	
30							5.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.77	9.71	
<div>SUNSHINE (MINUTES)</div> <div>Total: Possible:</div> <div> Percent Possible:</div>									
<div>NUMBER OF DAYS WITH:</div> <div>SKY CONDITION</div> <div>CLR PTLY CLDY CLOUDY MISSING</div> <div> 31</div> <div>MINIMUM VISIBILITY (MILES)</div> <div><=0.25 <=3.0 >=7.0</div> <div> 1 7 18</div>									

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

DECEMBER 2002

LSE

WBAN # 14920

HOUR (LST)			SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
			OBSERVATION TIME (LST)	EFF CLD AMT Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT			WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL				
			SUNRISE: 0719			DEC 01	SUNSET: 1629									SUNRISE: 0725			DEC 07	SUNSET: 1628											
03	OVC	100			10.00		17	2	14	51	8	21	29.32	30.08	03	CLR	NC			10.00		31	24	28	76	10	29	29.18	29.92		
06	OVC	080			10.00		21	6	17	52	12	21	29.25	30.00	06	CLR	NC			10.00		27	20	25	75	9	29	29.24	29.98		
09	OVC	100			10.00		24	9	20	52	12	19	29.16	29.91	09	CLR	NC			10.00		29	21	26	72	9	31	29.32	30.05		
12	OVC	095			10.00		33	15	27	48	9	25	29.05	29.79	12	OVC	030			10.00		33	21	29	61	10	34	29.32	30.06		
15	CLR	NC			10.00		40	20	33	45	9	31	28.98	29.72	15	FEW	NC			10.00		34	22	30	61	8	32	29.32	30.06		
18	SCT	NC			10.00		32	19	28	59	0	00	29.03	29.77	18	CLR	NC			10.00		29	20	26	69	9	30	29.35	30.10		
21	OVC	070			10.00		30	23	28	75	0	00	29.06	29.80	21	CLR	NC			10.00		28	18	25	66	9	30	29.38	30.14		
24	OVC	065			10.00		31	18	27	59	6	03	29.08	29.82	24	CLR	NC			10.00		25	13	21	60	12	31	29.45	30.20		
			SUNRISE: 0720			DEC 02	SUNSET: 1629									SUNRISE: 0726			DEC 08	SUNSET: 1628											
03	OVC	055			10.00		28	18	25	66	9	03	29.12	29.85	03	CLR	NC			10.00		20	5	16	52	9	34	29.55	30.30		
06	OVC	016			2.00	-SN BR	24	21	23	88	6	01	29.21	29.95	06	CLR	NC			10.00		15	2	12	56	12	34	29.67	30.43		
09	BKN	110			10.00		23	11	20	60	12	02	29.30	30.04	09	CLR	NC			10.00		18	1	14	47	10	36	29.79	30.55		
12	FEW	NC			10.00		23	6	19	48	12	01	29.38	30.13	12	CLR	NC			10.00		21	1	16	41	12	33	29.83	30.60		
15	CLR	NC			10.00		24	1	18	37	10	02	29.45	30.21	15	CLR	NC			10.00		22	-3	16	33	6	34	29.84	30.61		
18	CLR	NC			10.00		17	3	14	54	6	36	29.57	30.33	18	CLR	NC			10.00		16	-4	12	41	0	00	29.85	30.64		
21	CLR	NC			10.00		14	5	12	67	0	00	29.66	30.42	21	CLR	NC			10.00		11	1	9	64	5	13	29.84	30.62		
24	CLR	NC			10.00		11	4	9	73	6	35	29.74	30.52	24	CLR	NC			10.00		6	1	5	80	5	16	29.82	30.60		
			SUNRISE: 0721			DEC 03	SUNSET: 1628									SUNRISE: 0727			DEC 09	SUNSET: 1628											
03	CLR	NC			10.00		8	3	7	80	7	35	29.82	30.59	03	CLR	NC			10.00		7	3	6	84	6	17	29.77	30.54		
06	CLR	NC			10.00		8	4	7	83	0	00	29.86	30.64	06	CLR	NC			10.00		9	4	8	80	10	18	29.71	30.49		
09	CLR	NC			10.00		12	6	11	77	0	00	29.92	30.71	09	CLR	NC			10.00		17	6	14	62	14	20	29.68	30.45		
12	CLR	NC			10.00		21	6	17	52	5	08	29.90	30.68	12	CLR	NC			10.00		31	7	24	36	15	20	29.55	30.32		
15	OVC	041			10.00		23	7	19	50	3	31	29.85	30.63	15	CLR	NC			10.00		37	10	29	33	10	22	29.46	30.22		
18	CLR	NC			10.00		17	5	14	59	0	00	29.85	30.63	18	CLR	NC			10.00		33	12	26	42	8	18	29.43	30.19		
21	BKN	100			10.00		14	7	12	73	6	12	29.85	30.64	21	CLR	NC			10.00		32	15	27	50	12	20	29.43	30.18		
24	OVC	100			10.00		16	10	14	77	5	14	29.85	30.63	24	CLR	NC			10.00		30	17	26	59	8	20	29.40	30.15		
			SUNRISE: 0722			DEC 04	SUNSET: 1628									SUNRISE: 0728			DEC 10	SUNSET: 1628											
03	OVC	100			10.00		17	11	15	77	7	14	29.82	30.58	03	CLR	NC			10.00		28	18	25	66	6	16	29.39	30.14		
06	OVC	038			10.00		19	12	17	74	3	14	29.80	30.57	06	CLR	NC			10.00		28	20	25	72	12	18	29.39	30.13		
09	OVC	055			10.00		21	15	19	78	6	18	29.81	30.58	09	CLR	NC			10.00		29	21	26	72	9	17	29.40	30.15		
12	OVC	065			10.00		23	14	20	68	3	VR	29.77	30.53	12	CLR	NC			10.00		39	25	34	57	7	18	29.36	30.10		
15	OVC	031			10.00		26	17	23	69	0	00	29.72	30.48	15	CLR	NC			9.00		45	32	39	61	8	18	29.30	30.03		
18	OVC	025			5.00	-SN BR	22	19	21	89	5	35	29.69	30.46	18	CLR	NC			8.00		33	30	32	89	8	16	29.30	30.03		
21	OVC	032			7.00		18	15	17	88	0	00	29.66	30.43	21	CLR	NC			10.00		37	29	34	73	9	19	29.30	30.03		
24	OVC	020			10.00		20	12	18	71	8	30	29.63	30.40	24	CLR	NC			10.00		35	26	32	70	8	19	29.28	30.01		
			SUNRISE: 0723			DEC 05	SUNSET: 1628									SUNRISE: 0729			DEC 11	SUNSET: 1628											
03	OVC	022			9.00		19	12	17	74	7	29	29.62	30.38	03	CLR	NC			10.00		32	25	29	75	7	17	29.28	30.00		
06	BKN	020			10.00		14	6	12	71	9	29	29.59	30.36	06	CLR	NC			9.00		30	25	28	82	9	17	29.25	29.98		
09	CLR	NC			10.00		10	2	8	69	3	31	29.59	30.37	09	CLR	NC			8.00		32	26	30	79	9	17	29.26	29.99		
12	CLR	NC			10.00		17	5	14	59	7	VR	29.52	30.29	12	CLR	NC			5.00	HZ	37	31	35	79	15	19	29.24	29.97		
15	CLR	NC			10.00		22	5	18	48	10	26	29.44	30.20	15	CLR	NC			8.00		42	31	37	65	13	19	29.21	29.94		
18	CLR	NC			10.00		17	4	14	56	7	24	29.45	30.22	18	OVC	014			9.00		34	32	33	92	6	20	29.26	30.00		
21	CLR	NC			10.00		13	6	11	74	0	00	29.45	30.22	21	OVC	020			7.00		35	32	34	89	7	18	29.26	29.99		
24	CLR	NC			10.00		11	7	10	84	5	16	29.46	30.23	24	OVC	026			5.00	BR	36	32	34	86	9	19	29.25	29.97		
			SUNRISE: 0724			DEC 06	SUNSET: 1628									SUNRISE: 0730			DEC 12	SUNSET: 1628											
03	CLR	NC			10.00		8	5	7	87	7	16	29.46	30.23	03	OVC	024			5.00	BR	37	33	35	86	7	20	29.26	29.98		
06	CLR	NC			9.00		9	5	8	84	7	19	29.45	30.22	06	OVC	024			6.00	BR	36	33	35	89	7	18	29.25	29.98		
09	CLR	NC			10.00		12	7	11	80	9	19	29.41	30.19	09	OVC	024			4.00	BR	37	33	35	86	6	20	29.29	30.02		
12	CLR	NC			10.00		24	15	21	68	12	18	29.31	30.07	12	OVC	030			5.00	HZ	40	34	37	79	7	19	29.28	30		

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

DECEMBER 2002

LSE

WBAN # 14920

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)									
	SKY COVER	CEILING 100'S OFF	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OFF	OBSERVATION TIME (LST)		EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0731						DEC 13						SUNSET: 1628						SUNRISE: 0735						DEC 19						SUNSET: 1630					
03	CLR	NC			0.50	FZFG	26	26	26	100	0	00	29.31	30.04	03	OVC	034			10.00															
06	VV	001			0.25	FZFG	27	27	27	100	0	00	29.30	30.04	06	OVC	032			10.00															
09	VV	001			0.25	FZFG	25	25	25	100	5	34	29.28	30.02	09	OVC	037			10.00															
12	VV	001			0.50	FZFG	29	29	29	100	6	29	29.27	30.01	12	OVC	033			10.00															
15	OVC	005			3.00	BR	31	31	31	100	6	32	29.25	29.98	15	OVC	030			10.00															
18	OVC	020			4.00	BR	31	31	31	100	3	31	29.24	29.98	18	OVC	038			10.00															
21	OVC	018			4.00	BR	31	31	31	100	0	00	29.26	30.00	21	OVC	046			10.00															
24	OVC	016			5.00	BR	31	31	31	100	3	22	29.25	29.98	24	OVC	060			10.00															
SUNRISE: 0732						DEC 14						SUNSET: 1628						SUNRISE: 0735						DEC 20						SUNSET: 1630					
03	OVC	012			5.00	BR	30	29	30	96	6	20	29.23	29.96	03	OVC	023			10.00															
06	OVC	004			4.00	BR	30	29	30	96	8	20	29.21	29.95	06	OVC	028			6.00	-SN														
09	OVC	006			4.00	BR	30	28	29	92	12	18	29.21	29.94	09	OVC	034			2.00	-SN BR														
12	CLR	NC			8.00		37	29	34	73	14	19	29.14	29.87	12	OVC	035			9.00															
15	CLR	NC			10.00		46	31	40	56	6	20	29.08	29.81	15	OVC	032			8.00	-SN														
18	CLR	NC			10.00		39	31	36	73	7	14	29.06	29.78	18	OVC	048			10.00															
21	CLR	NC			10.00		36	29	33	76	3	18	29.07	29.80	21	OVC	070			10.00															
24	CLR	NC			10.00		36	30	34	79	3	20	29.06	29.79	24	OVC	042			9.00															
SUNRISE: 0732						DEC 15						SUNSET: 1628						SUNRISE: 0736						DEC 21						SUNSET: 1630					
03	CLR	NC			10.00		32	29	31	88	0	00	29.09	29.81	03	OVC	040			10.00															
06	CLR	NC			10.00		30	28	29	92	0	00	29.11	29.83	06	OVC	045			9.00	-SN														
09	CLR	NC			10.00		32	30	31	92	5	36	29.16	29.89	09	CLR	NC			10.00															
12	CLR	NC			10.00		44	31	39	60	10	02	29.16	29.89	12	OVC	029			10.00															
15	FEW	NC			10.00		40	29	36	65	12	04	29.19	29.92	15	OVC	027			10.00															
18	OVC	029			10.00		37	27	33	67	10	07	29.27	30.00	18	OVC	025			10.00															
21	CLR	NC			10.00		33	23	29	67	9	08	29.31	30.04	21	OVC	023			10.00															
24	CLR	NC			10.00		30	15	25	54	13	10	29.37	30.10	24	OVC	040			10.00															
SUNRISE: 0733						DEC 16						SUNSET: 1629						SUNRISE: 0736						DEC 22						SUNSET: 1631					
03	CLR	NC			10.00		26	10	21	51	9	09	29.36	30.11	03	OVC	025			10.00															
06	CLR	NC			10.00		22	8	18	55	8	13	29.36	30.11	06	OVC	025			10.00															
09	BKN	024			10.00		23	14	20	68	10	12	29.42	30.17	09	BKN	028			10.00															
12	CLR	NC			10.00		29	17	25	61	9	12	29.37	30.11	12	OVC	031			10.00															
15	OVC	050			10.00		31	18	27	59	13	13	29.32	30.08	15	OVC	029			10.00															
18	OVC	046			10.00		32	14	26	47	12	13	29.32	30.07	18	OVC	025			10.00															
21	OVC	042			10.00		32	14	26	47	13	13	29.33	30.08	21	OVC	025			10.00															
24	OVC	040			10.00		31	21	28	67	10	15	29.32	30.06	24	OVC	027			10.00															
SUNRISE: 0734						DEC 17						SUNSET: 1629						SUNRISE: 0737						DEC 23						SUNSET: 1632					
03	OVC	034			10.00		32	22	28	66	8	13	29.32	30.07	03	OVC	027			10.00															
06	OVC	023			10.00		32	24	29	73	10	13	29.29	30.03	06	CLR	NC			10.00															
09	OVC	021			10.00		33	25	30	72	12	13	29.28	30.01	09	CLR	NC			10.00															
12	OVC	023			10.00		36	26	32	67	13	12	29.19	29.92	12	CLR	NC			10.00															
15	OVC	023			10.00		39	29	35	67	15	13	29.12	29.85	15	CLR	NC			10.00															
18	OVC	021			10.00		37	30	34	76	14	11	29.07	29.80	18	CLR	NC			10.00															
21	OVC	021			10.00		36	30	34	79	10	13	29.06	29.78	21	CLR	NC			10.00															
24	OVC	013			8.00		36	34	35	93	10	12	28.95	29.67	24	CLR	NC			10.00															
SUNRISE: 0734						DEC 18						SUNSET: 1629						SUNRISE: 0737						DEC 24						SUNSET: 1632					
03	OVC	013			10.00		37	36	37	96	10	13	28.88	29.60	03	CLR	NC			10.00															
06	OVC	007			7.00		40	40	40	100	9	12	28.81	29.52	06	CLR	NC			10.00															
09	OVC	007			3.00	BR	44	44	44	100	7	12	28.79	29.50	09	CLR	NC			10.00															
12	BKN	032			10.00	-RA	52	51	52	97	15	17	28.71	29.42	12	FEW	NC			10.00															
15	OVC	033			10.00		52	50	51	93	8	20	28.67	29.37	15	OVC	023			10.00															
18	OVC	017			6.00	BR	50	49	49	96	9	21	28.74	29.44	18	OVC	032			10.00															
21	OVC	023			10.00		44	38	41	79	10	27	28.83	29.54	21	OVC	028			10.00															
24	OVC	029			10.00		41	36	39	82	8	25	28.85	29.55	24	OVC	022			10.00															

LA CROSSE, WI

DECEMBER 2002

LSE

WBAN # 14920

Hour (LST)			Satellite		Weather	Temperature °F			Relative Humidity (Pct)	Wind		Pressure (Inches,Hg)		Hour (LST)			Satellite		Weather	Temperature °F			Relative Humidity (Pct)	Wind		Pressure (Inches,Hg)			
	Sky Cover	Ceiling 100's Off	Observation Time (LST)	Eff ClD AMT Okta's		Visibility (Miles)	Dry Bulb	Dew Point		Wet Bulb	Speed (MPH)	Direction Tens of Deg	Station		Sea Level	Sky Cover	Ceiling 100's Off	Observation Time (LST)		Eff ClD AMT Okta's	Visibility (Miles)	Dry Bulb		Dew Point	Wet Bulb	Speed (MPH)	Direction Tens of Deg	Station	Sea Level
					SUNRISE: 0738	DEC 25		SUNSET: 1633										SUNRISE: 0739	DEC 31		SUNSET: 1637								
03	OVC	018			10.00	22	16	20	78	10	36	29.25	30.00	03	CLR	NC			10.00	26	17	23	69	10	32	29.27	30.00		
06	OVC	016			10.00	21	15	19	78	8	35	29.27	30.02	06	CLR	NC			10.00	23	14	20	68	15	32	29.32	30.05		
09	OVC	016			10.00	22	16	20	78	10	36	29.32	30.08	09	CLR	NC			10.00	22	12	19	66	9	33	29.37	30.12		
12	OVC	014			10.00	24	18	22	77	6	33	29.32	30.07	12	CLR	NC			10.00	26	10	21	51	10	34	29.33	30.08		
15	OVC	014			10.00	25	19	23	78	10	29	29.33	30.09	15	CLR	NC			10.00	30	12	25	47	9	33	29.32	30.06		
18	SCT	NC			10.00	22	17	20	82	6	25	29.38	30.14	18	CLR	NC			10.00	22	10	19	60	3	17	29.39	30.15		
21	CLR	NC			10.00	18	14	17	84	6	20	29.43	30.19	21	CLR	NC			10.00	17	12	16	80	6	01	29.39	30.15		
24	CLR	NC			10.00	16	12	15	84	6	18	29.44	30.20	24	CLR	NC			10.00	20	15	19	81	7	35	29.37	30.13		
					SUNRISE: 0738	DEC 26		SUNSET: 1633										3-HOURLY OBSERVATION NOTES											
03	CLR	NC			10.00	16	12	15	84	7	18	29.47	30.23					Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.											
06	CLR	NC			8.00	15	11	14	84	7	17	29.47	30.24					Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.											
09	CLR	NC			9.00	17	14	16	88	7	19	29.51	30.28					NC= No ceiling detected.											
12	CLR	NC			10.00	26	18	23	71	6	19	29.50	30.27					& = Original observation contained additional weather elements.											
15	CLR	NC			10.00	33	19	28	56	7	19	29.48	30.24					See page 3 for additional notes.											
18	CLR	NC			10.00	26	18	23	71	3	17	29.48	30.24																
21	CLR	NC			10.00	25	20	23	81	8	17	29.46	30.22																
24	CLR	NC			10.00	22	18	21	85	6	16	29.44	30.20																
					SUNRISE: 0738	DEC 27		SUNSET: 1634										SUMMARY BY HOUR											
03	CLR	NC			10.00	24	18	22	77	10	19	29.44	30.19					AVERAGES											
06	CLR	NC			10.00	23	18	21	81	8	17	29.40	30.16					RESULTANT											
09	CLR	NC			9.00	25	20	23	81	10	18	29.40	30.15					WIND (MPH)											
12	CLR	NC			8.00	32	25	29	75	12	19	29.35	30.11					PRESSURE (INCHES,HG)											
15	OVC	012			8.00	30	26	29	85	13	21	29.33	30.09					VISIBILITY (MILES)											
18	OVC	012			8.00	32	28	31	85	10	21	29.33	30.08					WIND SPEED (MPH)											
21	CLR	NC			8.00	33	30	32	89	13	20	29.30	30.04					SPEED											
24	BKN	100			7.00	30	28	29	92	6	16	29.25	29.98					DIRECTION											
					SUNRISE: 0739	DEC 28		SUNSET: 1635																					
03	OVC	070			8.00	31	28	30	89	5	16	29.27	30.00																
06	BKN	110			7.00	31	27	29	85	14	19	29.16	29.89																
09	OVC	090			5.00	32	28	31	85	5	21	29.15	29.88																
12	CLR	NC			6.00	36	28	33	73	0	00	29.13	29.86																
15	CLR	NC			8.00	38	28	34	68	0	00	29.17	29.90																
18	CLR	NC			7.00	30	26	29	85	0	00	29.23	29.96																
21	CLR	NC			6.00	27	25	26	92	3	16	29.29	30.02																
24	BKN	120			5.00	27	25	26	92	5	13	29.30	30.03																
					SUNRISE: 0739	DEC 29		SUNSET: 1636																					
03	CLR	NC			5.00	27	26	27	96	3	12	29.30	30.03																
06	OVC	120			5.00	28	25	27	88	0	00	29.29	30.03																
09	CLR	NC			5.00	31	28	30	89	7	10	29.30	30.04																
12	CLR	NC			8.00	43	30	38	60	8	12	29.20	29.92																
15	CLR	NC			10.00	46	31	40	56	14	12	29.09	29.81																
18	CLR	NC			9.00	41	31	37	67	10	13	29.04	29.76																
21	CLR	NC			9.00	39	31	36	73	13	14	28.96	29.69																
24	CLR	NC			7.00	36	31	34	82	10	13	28.89	29.61																
					SUNRISE: 0739	DEC 30		SUNSET: 1636																					
03	BKN	050			8.00	38	33	36	83	7	12	28.81	29.53																
06	OVC	023			8.00	39	35	37	86	3	22	28.77	29.49																
09	OVC	019			6.00	39	35	37	86	0	00	28.81	29.53																
12	CLR	NC			10.00	47	37	42	69	9	30	28.83	29.55																
15	BKN	022			5.00	39	33	37	79	14	33	28.95	29.67																
18	CLR	NC			10.00	36	22	31	57	15	31	29.08	29.80																
21	CLR	NC			10.00	31	17	26	56	10	31	29.17	29.90																
24	CLR	NC			10.00	28	17	25	63	10	31	29.23	29.96																

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8–2/8, SCT = 3/8–4/8. BKN = 5/8–7/8. OVC = 8/8. VV = Vertical Visibility = 8/8.

Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.

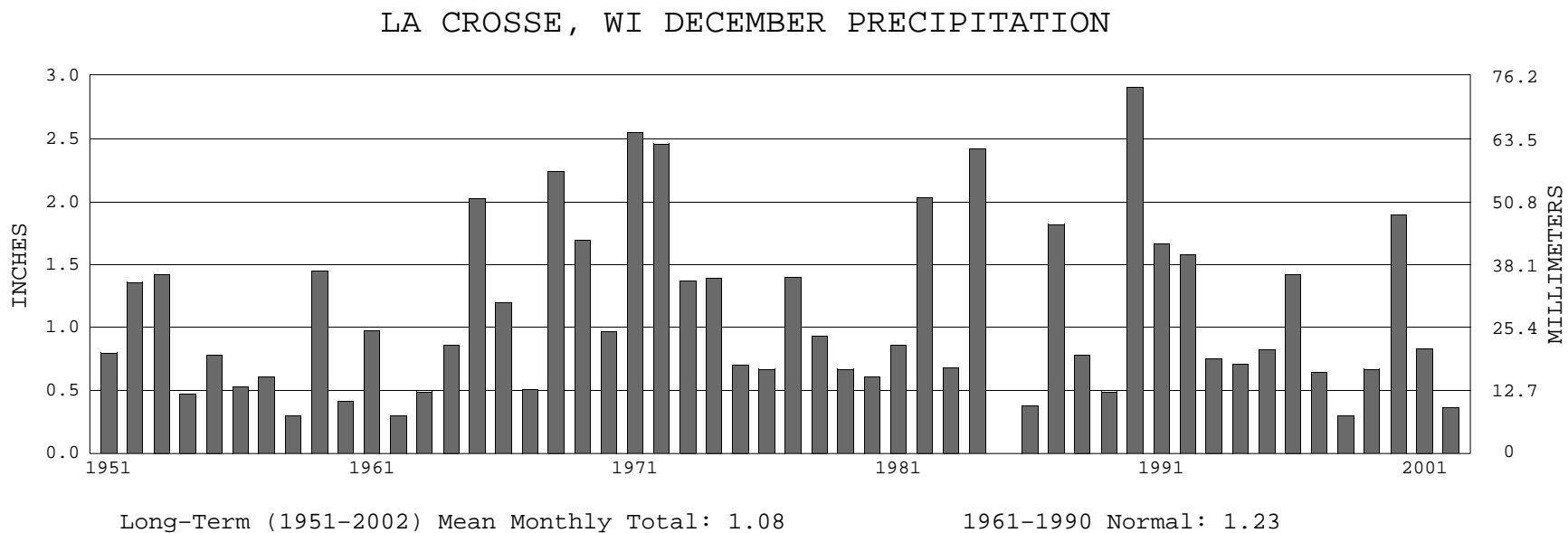
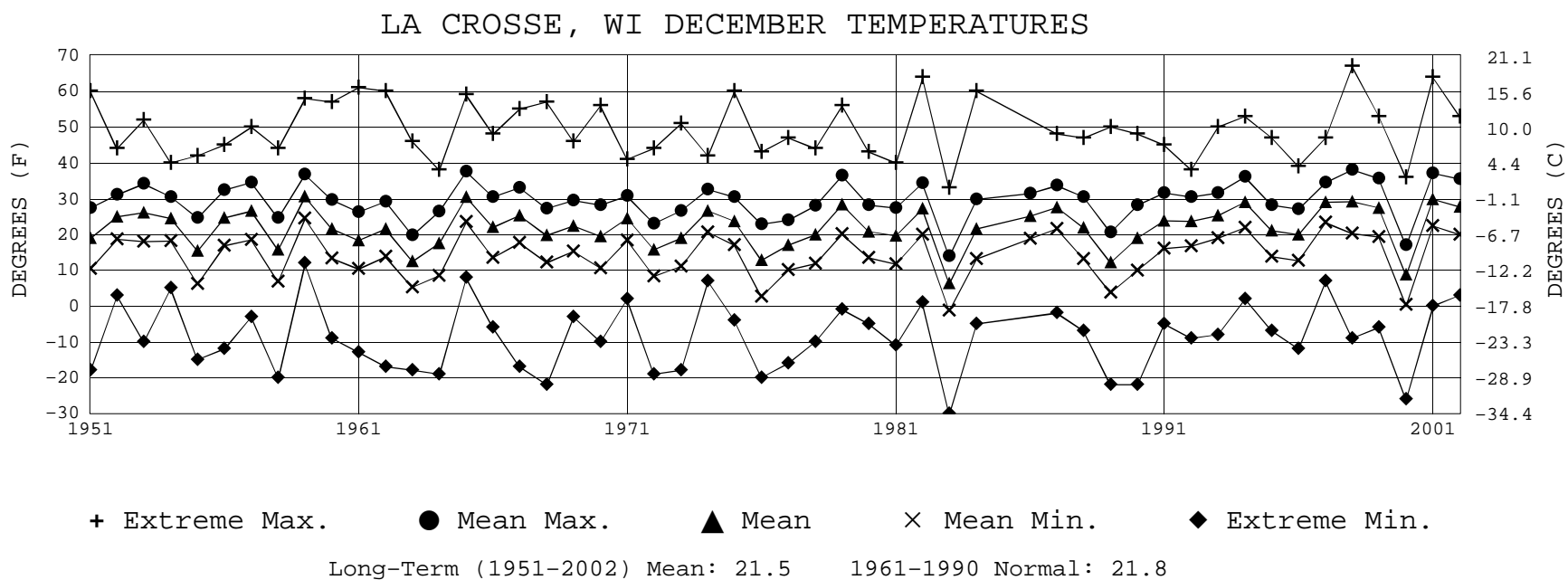
NC= No ceiling detected.

& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES									RESULTANT		
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			26	19	24	76	29.28	30.02	8.87	8	2	26
02			26	19	24	77	29.28	30.02	8.87	8	2	25
03			25	19	23	77	29.29	30.03	9.05	8	2	25
04			25	19	23	78	29.28	30.03	8.92	8	2	25
05			25	19	23	79	29.28	30.03	8.56	7	2	24
06			24	18	22	79	29.28	30.03	8.40	8	3	23
07			24	18	22	79	29.29	30.04	8.59	8	2	25
08			24	18	22	79	29.30	30.04	8.52	8	2	21
09			26	19	24	77	29.30	30.05	8.23	9	2	23
10			27	19	25	73	29.31	30.06	8.28	9	2	26
11			30	20	27	68	29.30	30.04	8.81	10	3	24
12			32	20	28	65	29.27	30.02	9.02	10	3	25
13			33	21	29	63	29.26	30.00	9.22	10	3	23
14			34	21	29	62	29.25	29.99	9.39	10	3	26
15			34	21	30	63	29.25	29.99	9.26	10	4	26
16			33	21	29	64	29.26	30.00	9.03	8	3	27
17			30	21	27	68	29.26	30.01	9.42	8	2	26
18			30	20	27	70	29.27	30.02	9.13	8	2	23
19			29	20	26	72	29.28	30.02	8.94	8	3	22
20			28	20	26	73	29.28	30.03	9.01	7	2	23
21			28	20	25	75	29.28	30.03	9.23	7	2	22
22			27	20	25	75	29.28	30.03	8.97	9	3	24
23			27	20	25	76	29.28	30.03	9.00	8	2	24
24			26	20	24	77	29.28	30.02	9.03	8	2	25





DECEMBER 2002

LA CROSSE, WI

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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