



FEBRUARY 2003

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										
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	36	29	33	15	32	33	32	0	RA BR	4		0.0	T	29.13	29.87	6.1	18	6.8	17	18	16	18	01								
02	36	33	35	16	34	35	30	0	RA BR	3		0.0	0.22	29.08	29.81	6.9	09	7.2	23	09	17	09	02								
03	35	21	28	9	30	31	37	0	RA SN FZFG BR UP	2		3.2	0.18	28.87	29.60	11.3	35	12.5	35	34	29	34	03								
04	21	2	12	-8	2	8	53	0	SN BR	5		T	T	29.29	30.05	14.2	33	14.4	32	33	28	34	04								
05	24	-2	11	-9	6	10	54	0	SN BR	5		0.9	0.04	29.42	30.20	7.4	18	7.6	17	19	14	19	05								
06	24	-2	11	-9	4	9	54	0	SN BR	5		T	T	29.56	30.33	9.1	33	9.2	26	33	22	34	06								
07	14	-12*	1*	-19	-6	1	64	0	SN BR	5		0.0	0.00	29.45	30.25	5.9	21	7.2	23	20	20	20	07								
08	25	1	13	-7	8	15	52	0	SN	5		T	T	29.23	29.99	9.7	28	11.7	22	30	18	28	08								
09	23	-8	8	-13	0	7	57	0	SN BR	5		0.1	0.01	29.26	30.04	9.3	21	10.1	25	24	18	21	09								
10	23	-2	11	-10	-5	5	54	0	SN BR	5		0.1	T	29.25	30.02	9.6	33	11.2	26	32	22	32	10								
11	26	-3	12	-9	2	9	53	0	SN FG+ FZFG BR	5		1.7	0.07	29.08	29.86	9.3	29	14.9	36	32	31*	32	11								
12	14	-5	5	-17	-6	4	60	0	SN	6		0.0	0.00	29.42	30.21	8.8	29	9.2	21	29	18	31	12								
13	30	7	19	-3	8	15	46	0	SN	6		0.0	0.00	29.44	30.21	2.0	31	3.0	15	34	13	34	13								
14	29	2	16	-6	8	15	49	0	SN	5		T	T	29.39	30.16	4.3	06	5.6	17	09	15	08	14								
15	23	8	16	-7	3	13	49	0	SN	5		0.0	0.00	29.75	30.53	8.0	07	8.5	24	10	18	08	15								
16	27	-2	13	-10	1	10	52	0	BR	5		0.0	0.00	29.73	30.52	1.3	09	4.3	14	11	12	09	16								
17	31	0	16	-7	12	16	49	0	BR	5		0.0	0.00	29.37	30.14	6.6	17	7.4	21	19	18	18	17								
18	40	20	30	6	23	27	35	0	BR	5		0.0	0.00	29.20	29.94	9.6	25	13.4	29	28	24	27	18								
19	43	15	29	5	22	26	36	0	BR	5		0.0	0.00	29.44	30.19	4.5	21	7.2	21	25	16	25	19								
20	54*	30	42*	18	33	38	23	0	BR	2		0.0	0.00	29.29	30.02	12.6	21	14.2	36*	24	26	22	20								
21	47	28	38	13	33	35	27	0	RA SN	T		T	0.02	29.12	29.84	1.0	28	9.8	21	35	18	35	21								
22	28	12	20	-5	15	20	45	0	SN BR	0		T	T	29.16	29.91	11.5	01	11.7	23	03	18	35	22								
23	18	6	12	-13	1	10	53	0	SN	0		0.2	0.01	29.40	30.17	9.7	35	10.0	18	02	15	35	23								
24	12	-1	6	-20	-4	5	59	0	SN	T		T	0.01	29.64	30.43	10.9	32	11.6	23	34	20	32	24								
25	18	-4	7	-19	-5	4	58	0	SN	T		0.0	0.00	29.70	30.49	4.4	22	6.0	18	18	14	20	25								
26	28	1	15	-11	4	12	50	0	BR	T		0.0	0.00	29.44	30.21	6.3	18	6.6	17	19	14	24	26								
27	36	8	22	-5	12	19	43	0	BR	T		0.0	0.00	29.36	30.12	4.0	16	4.6	9	18	8	18	27								
28	42	16	29	2	19	26	36	0	BR	0		0.0	0.00	29.36	30.10	6.4	18	6.6	12	19	9	18	28								
< MONTHLY AVERAGES										TOTALS->		6.2	0.56	29.35	30.11	2.2	28	9.0	<- MONTHLY AVERAGES												
-3.6										-5.7		-4.6		<-----DEPARTURE FROM NORMAL----->										- .43				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 0.26 DATE :02-03				SEA LEVEL PRESSURE				DATE TIME													
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 3.2 DATE :03				MAXIMUM : 30.66				15 2153													
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: 6 DATE :13+				MINIMUM : 29.52				03 1453													
HEATING: 1310 108 5566 -54										NUMBER OF DAYS WITH =>				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 27				PRECIPITATION ≥ 0.01 INCH : 8									
COOLING: 0 0 0 0														MAXIMUM TEMP ≤ 32 : 19				MINIMUM TEMP ≤ 0 : 11				PRECIPITATION ≥ 0.10 INCH : 2									
														THUNDERSTORMS : 0				HEAVY FOG : 1				SNOWFALL ≥ 1.0 INCH : 2									

FEBRUARY 2003
LA CROSSE, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

LA CROSSE, WI

FEBRUARY 2003

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		T		
02	T				T		0.01	0.03	0.01	0.01	0.01	0.02	02	0.07	0.05	0.01	T	0.03	0.03	0.01	T	T			02	0.13	0.22		
03			0.02	0.01	0.01								03		0.01	0.01	T								03		0.18		
04	T	T	T	T									04				T	T	T						04	T	T		
05													05		T	T	T	T			T	T	T	T	05	T	0.04		
06	T								T	T	T	T	06												06		T		
07										T	T		07												07		0.00		
08										T	T		08												08		T		
09													09									T	T	T	09	T	0.01		
10	T	T	T		T	T							10												10		T		
11						T	T	T	T	T	T		11	T	0.01	T	T	T	T	T					11	0.01	0.07		
12													12												12		0.00		
13													13												13		0.00		
14													14				T	T	T						14		T		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21										0.02	T		21	T				T	T		T	T			21		0.02		
22										T	T		22												22		T		
23					T	T							23										T	T	23		0.01		
24	T				T	T		T					24							0.01	T	T	T	T	24	T	0.01		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		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)												
Ending Date												
Ending Time (Hour/Min)												

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.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = 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

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

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

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

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

NORMALS ARE FOR THE YEARS 1971–2000

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '- ' = Light

LA CROSSE, WI FEBRUARY 2003

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

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.

ADDITIONAL NOTES:

Note: 2002 LCD Annual, the element "Normal Dry Bulb" was not updated using the 1971–2000 Normals. Correction will be made in the 2003 LCD Annual.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							3.00	6.00	
02							3.00	10.00	
03							.50	10.00	
04							4.00	10.00	
05							1.50	10.00	
06							2.50	10.00	
07							10.00	10.00	
08							9.00	10.00	
09							2.50	10.00	
10							2.50	10.00	
11							.25	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							8.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							5.00	10.00	
18							6.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							7.00	10.00	
22							6.00	10.00	
23							1.50	10.00	
24							5.00	10.00	
25							10.00	10.00	
26							8.00	10.00	
27							7.00	10.00	
28							5.00	10.00	
MONTHLY AVGS							6.12	9.86	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH: SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 28									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 0 8 13									

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

FEBRUARY 2003

LSE

WBAN # 14920

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0722					FEB 01					SUNSET: 1715					SUNRISE: 0715					FEB 07					SUNSET: 1724				
03	OVC	017		5.00	BR	31	30	31	96	7	22	29.23	29.96	03	CLR	NC		10.00	-7	-12	-8	79	5	01	29.63	30.42			
06	OVC	013		5.00	BR	30	30	30	100	7	19	29.19	29.92	06	CLR	NC		10.00	-10	-15	-10	78	0	00	29.61	30.41			
09	OVC	009		3.00	BR	31	31	31	100	10	19	29.16	29.90	09	CLR	NC		10.00	-7	-12	-8	79	3	24	29.58	30.39			
12	OVC	007		4.00	BR	33	32	33	96	10	19	29.12	29.85	12	CLR	NC		10.00	4	-12	2	47	8	22	29.51	30.30			
15	OVC	011		4.00	BR	35	34	35	96	7	18	29.08	29.81	15	CLR	NC		10.00	10	-5	7	50	13	21	29.40	30.20			
18	OVC	015		5.00	BR	34	34	34	100	5	17	29.08	29.81	18	CLR	NC		10.00	10	0	8	63	10	19	29.32	30.12			
21	BKN	015		5.00	BR	35	34	35	96	5	15	29.07	29.80	21	CLR	NC		10.00	10	3	9	73	12	18	29.24	30.03			
24	OVC	011		4.00	-RA BR	35	35	35	100	3	02	29.09	29.82	24	CLR	NC		10.00	14	5	12	67	17	20	29.16	29.93			
SUNRISE: 0721					FEB 02					SUNSET: 1717					SUNRISE: 0714					FEB 08					SUNSET: 1725				
03	OVC	011		4.00	BR	35	35	35	100	6	08	29.08	29.81	03	OVC	042		10.00	18	11	16	74	10	21	29.11	29.88			
06	OVC	007		3.00	BR	34	34	34	100	5	14	29.11	29.84	06	OVC	020		10.00	22	17	20	82	10	25	29.09	29.85			
09	OVC	007		4.00	-RA BR	34	34	34	100	3	10	29.13	29.86	09	OVC	038		9.00	-SN	24	18	22	77	15	30	29.15	29.91		
12	OVC	010		6.00	-RA BR	35	35	35	100	10	09	29.09	29.81	12	OVC	040		10.00	23	15	21	72	14	32	29.21	29.96			
15	OVC	013		9.00		35	35	35	100	9	08	29.09	29.82	15	CLR	NC		10.00	21	9	18	59	13	29	29.23	29.98			
18	OVC	013		10.00		35	34	35	96	13	11	29.05	29.78	18	FEW	NC		10.00	12	1	10	61	15	30	29.32	30.08			
21	OVC	015		10.00		36	34	35	93	8	09	29.03	29.76	21	CLR	NC		10.00	7	-5	5	57	12	30	29.40	30.17			
24	OVC	013		10.00		35	34	35	96	10	07	28.98	29.70	24	CLR	NC		10.00	1	-9	0	62	6	29	29.44	30.21			
SUNRISE: 0720					FEB 03					SUNSET: 1718					SUNRISE: 0713					FEB 09					SUNSET: 1726				
03	OVC	009		4.00	-RA BR	33	33	33	100	8	04	28.92	29.65	03	CLR	NC		10.00	-4	-13	-5	65	6	21	29.44	30.22			
06	OVC	010		7.00		33	33	33	100	8	01	28.90	29.62	06	CLR	NC		10.00	-6	-13	-7	71	6	18	29.41	30.21			
09	OVC	010		7.00		33	33	33	100	8	36	28.88	29.61	09	CLR	NC		10.00	-3	-11	-4	68	8	16	29.38	30.18			
12	OVC	016		10.00		33	32	33	96	14	36	28.83	29.56	12	FEW	NC		10.00	11	-1	9	58	13	20	29.32	30.09			
15	OVC	010		1.25	-SN BR	31	31	31	100	15	36	28.80	29.52	15	OVC	050		10.00	18	8	15	65	9	21	29.19	29.97			
18	OVC	006		1.25	-SN BR	30	30	30	100	17	33	28.82	29.55	18	OVC	070		10.00	19	11	17	71	13	19	29.12	29.89			
21	OVC	018		9.00		29	26	28	89	21	34	28.86	29.59	21	OVC	050		10.00	18	12	16	77	14	20	29.03	29.80			
24	OVC	022		10.00		22	17	20	82	23	33	28.94	29.67	24	OVC	025		3.00	-SN BR	22	19	21	89	12	25	28.99	29.75		
SUNRISE: 0719					FEB 04					SUNSET: 1719					SUNRISE: 0711					FEB 10					SUNSET: 1728				
03	OVC	065		6.00	-SN	18	13	17	81	23	33	29.03	29.78	03				10.00	19	14	18	81	13	32	29.03	29.78			
06	OVC	025		10.00		12	5	10	73	18	33	29.13	29.88	06	OVC	028		10.00	9	-1	7	64	13	36	29.12	29.88			
09	OVC	029		7.00		7	-1	5	70	20	33	29.23	29.99	09	CLR	NC		10.00	3	-9	1	57	13	36	29.25	30.02			
12	FEW	NC		10.00		10	-1	8	61	20	32	29.29	30.06	12	CLR	NC		10.00	5	-9	3	52	13	34	29.34	30.11			
15	CLR	NC		10.00		11	-1	9	58	17	32	29.36	30.13	15	CLR	NC		10.00	6	-11	4	45	8	34	29.35	30.13			
18	CLR	NC		10.00		8	-1	6	66	6	34	29.43	30.21	18	CLR	NC		10.00	1	-13	-1	51	8	28	29.35	30.14			
21	CLR	NC		10.00		6	-1	5	73	7	34	29.48	30.26	21	CLR	NC		10.00	0	-13	-1	54	5	25	29.33	30.12			
24	CLR	NC		10.00		4	-2	3	76	0	00	29.50	30.29	24	SCT	NC		10.00	-1	-13	-2	56	7	24	29.29	30.07			
SUNRISE: 0718					FEB 05					SUNSET: 1721					SUNRISE: 0710					FEB 11					SUNSET: 1729				
03	CLR	NC		10.00		1	-4	0	79	3	17	29.50	30.29	03	FEW	NC		10.00	-1	-12	-2	59	9	20	29.17	29.96			
06	CLR	NC		10.00		-2	-7	-3	79	6	18	29.49	30.29	06	OVC	055		9.00	2	-7	1	66	12	19	29.03	29.81			
09	OVC	065		10.00		4	-1	3	80	8	19	29.49	30.28	09	OVC	027		3.00	-SN	10	4	9	76	10	20	28.97	29.75		
12	OVC	039		10.00		13	3	11	64	7	15	29.45	30.23	12				10.00	25	15	22	66	18	29	28.90	29.67			
15	OVC	045		4.00	-SN	18	12	16	77	14	17	29.36	30.14	15	OVC	009		0.50	SN FZFG	20	17	19	89	20	32	28.92	29.69		
18	OVC	029		9.00		19	13	17	77	9	16	29.35	30.13	18	OVC	038		1.00	-SN BR	15	12	14	88	20	32	29.08	29.85		
21	OVC	030		5.00	-SN	21	16	20	81	9	18	29.32	30.09	21	CLR	NC		10.00	10	-3	8	55	18	31	29.23	30.00			
24	OVC	017		5.00	-SN BR	24	23	24	96	6	21	29.34	30.10	24	CLR	NC		10.00	3	-11	1	51	15	32	29.35	30.13			
SUNRISE: 0716					FEB 06					SUNSET: 1722					SUNRISE: 0709					FEB 12					SUNSET: 1730				
03	OVC	017		10.00		17	13	16	84	13	32	29.42	30.19	03	CLR	NC		10.00	0	-10	-1	62	12	30	29.39	30.17			
06	CLR	NC		10.00		6	2	5	83	6	36	29.49	30.27	06	CLR	NC		10.00	-4	-13	-5	65	6	27	29.40	30.19			
09	OVC	013		2.50	-SN BR	11	7	10	84	5	01	29.55	30.33	09	CLR	NC		10.00	2	-9	0	60	10	29	29.43	30.22			
12	BKN	017		10.00		14	6	12	71	10	34	29.59	30.36	12	CLR	NC		10.00	11	-4	8	51	13	29	29.43	30.22			
15	FEW	NC		10.00		16	5	13	62	12	33	29.57	30.34	15	CLR	NC		10.00	13	-3	10	49	14	28	29.42	30.21			
18	CLR	NC		10.00		8	0	6	69	10	32	29.61	30.40	18	CLR	NC		10.00	11	-5	8	48	8	29	29.44	30.23			
21	CLR	NC		10.00		3	-4	2	72	0	00	29.65	30.43	21	CLR	NC		10.00	8	-3	6	60	8	29	29.45	30.24			
24	CLR	NC		10.00		-2	-8	-3	75	6	34	29.65	30.44	24	OVC	090		10.00	8	-1	6	66	5	23	29.45	30.23			

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

FEBRUARY 2003

LSE

WBAN # 14920

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)							
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0707				FEB 13				SUNSET: 1732				SUNRISE: 0658				FEB 19				SUNSET: 1740									
03	OVC	055		10.00	11	2	9	67	5	20	29.44	30.22	03	CLR	NC		10.00	19	13	17	77	9	29	29.41	30.15				
06	BKN	042		10.00	13	6	11	74	0	00	29.41	30.19	06	CLR	NC		10.00	17	12	16	80	5	21	29.43	30.18				
09	OVC	038		10.00	17	8	15	68	0	00	29.45	30.23	09	OVC	080		10.00	21	15	19	78	5	20	29.48	30.24				
12	CLR	NC		10.00	25	10	21	53	7	35	29.46	30.23	12	OVC	090		10.00	29	19	26	66	3	19	29.48	30.24				
15	CLR	NC		10.00	29	14	24	54	8	34	29.43	30.19	15	CLR	NC		10.00	41	28	36	60	8	19	29.42	30.17				
18	CLR	NC		10.00	22	10	19	60	7	29	29.43	30.19	18	CLR	NC		10.00	38	31	35	76	0	00	29.42	30.17				
21	CLR	NC		10.00	17	11	15	77	0	00	29.42	30.19	21	FEW	NC		10.00	33	29	31	85	9	15	29.45	30.20				
24	CLR	NC		10.00	13	8	12	81	0	00	29.40	30.17	24	CLR	NC		10.00	33	28	31	82	8	16	29.45	30.19				
SUNRISE: 0706				FEB 14				SUNSET: 1733				SUNRISE: 0657				FEB 20				SUNSET: 1741									
03	CLR	NC		10.00	5	0	4	79	0	00	29.37	30.14	03	CLR	NC		10.00	30	26	29	85	8	15	29.40	30.14				
06	FEW	NC		10.00	4	-1	3	80	0	00	29.39	30.16	06	CLR	NC		10.00	32	27	30	82	10	17	29.35	30.09				
09	BKN	095		10.00	10	5	9	80	5	32	29.37	30.15	09	CLR	NC		10.00	38	30	35	73	16	20	29.32	30.05				
12	FEW	NC		10.00	22	11	19	63	7	34	29.35	30.12	12	CLR	NC		10.00	48	36	43	63	20	22	29.29	30.01				
15	OVC	035		10.00	29	13	24	51	8	08	29.35	30.12	15	CLR	NC		10.00	54	41	48	62	23	23	29.22	29.94				
18	OVC	048		10.00	27	16	24	63	8	04	29.38	30.15	18	CLR	NC		10.00	47	39	43	74	14	22	29.22	29.94				
21	OVC	085		10.00	25	8	20	48	8	05	29.44	30.21	21	CLR	NC		10.00	43	33	39	68	16	22	29.24	29.96				
24	OVC	090		10.00	23	6	19	48	12	08	29.52	30.28	24	CLR	NC		10.00	38	32	36	79	7	13	29.21	29.93				
SUNRISE: 0704				FEB 15				SUNSET: 1734				SUNRISE: 0655				FEB 21				SUNSET: 1743									
03	CLR	NC		10.00	19	4	15	52	9	05	29.58	30.34	03	CLR	NC		10.00	36	32	34	86	13	19	29.18	29.89				
06	FEW	NC		10.00	15	5	13	64	9	08	29.68	30.45	06	BKN	095		10.00	35	30	33	82	12	18	29.14	29.86				
09	CLR	NC		10.00	11	-1	9	58	7	06	29.78	30.55	09	BKN	110		10.00	39	30	35	70	8	17	29.13	29.85				
12	CLR	NC		10.00	17	6	14	62	12	11	29.79	30.56	12	SCT	NC		10.00	-RA	40	35	38	83	3	22	29.11	29.83			
15	CLR	NC		10.00	20	6	16	55	10	04	29.77	30.54	15	FEW	NC		10.00	46	37	42	71	9	34	29.02	29.74				
18	CLR	NC		10.00	15	1	12	53	6	09	29.83	30.60	18	OVC	049		10.00	36	36	36	100	9	36	29.10	29.83				
21	CLR	NC		10.00	11	-2	8	56	10	07	29.87	30.66	21	OVC	011		7.00	-SN	32	32	32	100	8	36	29.14	29.87			
24	OVC	019		10.00	9	-1	7	64	8	09	29.85	30.64	24	OVC	015		10.00	28	25	27	88	16	35	29.15	29.88				
SUNRISE: 0703				FEB 16				SUNSET: 1736				SUNRISE: 0654				FEB 22				SUNSET: 1744									
03	CLR	NC		10.00	4	-3	3	73	0	00	29.84	30.63	03	OVC	013		10.00	25	23	24	92	13	36	29.15	29.88				
06	CLR	NC		10.00	0	-9	-1	65	5	30	29.84	30.64	06	OVC	011		9.00	22	21	22	96	13	01	29.16	29.90				
09	CLR	NC		10.00	5	-4	3	66	5	32	29.83	30.62	09	OVC	015		6.00	BR	21	18	20	88	9	03	29.19	29.93			
12	CLR	NC		10.00	14	5	12	67	7	32	29.78	30.56	12	OVC	025		10.00	22	17	20	82	14	01	29.15	29.90				
15	CLR	NC		10.00	25	5	20	42	9	11	29.68	30.45	15	OVC	043		10.00	24	15	21	68	10	02	29.11	29.85				
18	CLR	NC		10.00	24	6	19	46	0	00	29.62	30.40	18	CLR	NC		10.00	24	11	20	57	10	01	29.15	29.90				
21	CLR	NC		10.00	16	3	13	56	0	00	29.62	30.40	21	CLR	NC		10.00	19	6	16	57	14	01	29.20	29.96				
24	CLR	NC		10.00	14	4	12	64	8	12	29.55	30.33	24	CLR	NC		10.00	13	2	11	61	10	36	29.25	30.01				
SUNRISE: 0701				FEB 17				SUNSET: 1737				SUNRISE: 0652				FEB 23				SUNSET: 1745									
03	CLR	NC		10.00	9	4	8	80	6	11	29.51	30.28	03	CLR	NC		10.00	9	-2	7	61	10	02	29.31	30.06				
06	CLR	NC		10.00	4	0	3	83	0	00	29.49	30.26	06	CLR	NC		10.00	6	-1	5	73	9	35	29.35	30.12				
09	CLR	NC		8.00	8	3	7	80	6	16	29.49	30.26	09	CLR	NC		10.00	11	0	9	61	8	36	29.41	30.18				
12	CLR	NC		10.00	23	14	20	68	7	18	29.41	30.17	12	FEW	NC		10.00	16	-1	12	47	7	34	29.42	30.19				
15	CLR	NC		10.00	31	20	27	64	7	19	29.30	30.05	15	FEW	NC		10.00	17	-2	13	43	10	36	29.40	30.17				
18	CLR	NC		10.00	25	18	23	75	8	15	29.27	30.03	18	OVC	035		3.00	-SN	13	6	11	74	12	35	29.44	30.22			
21	BKN	009		6.00	BR	22	20	21	92	15	18	29.24	30.00	21	OVC	023		5.00	-SN	12	6	11	77	9	34	29.47	30.25		
24	BKN	050		6.00	BR	23	21	22	92	15	19	29.18	29.93	24	OVC	042		7.00		11	4	9	73	10	35	29.47	30.25		
SUNRISE: 0660				FEB 18				SUNSET: 1739				SUNRISE: 0650				FEB 24				SUNSET: 1747									
03	OVC	015		7.00	24	21	23	88	14	19	29.14	29.88	03	SCT	NC		10.00	8	1	7	73	8	34	29.49	30.27				
06	OVC	017		7.00	26	24	25	92	10	19	29.14	29.88	06	OVC	060		10.00	7	1	6	76	9	34	29.52	30.31				
09	CLR	NC		10.00	32	25	29	75	10	27	29.20	29.94	09	BKN	019		10.00	7	-2	5	66	17	32	29.61	30.39				
12	CLR	NC		10.00	36	27	33	70	13	21	29.17	29.91	12	SCT	NC		10.00	12	-2	9	53	16	34	29.65	30.43				
15	FEW	NC		10.00	40	30	36	68	16	23	29.13	29.86	15	BKN	039		10.00	11	-4	8	51	15	32	29.67	30.45				
18	CLR	NC		10.00	33	25	30	72	20	31	29.20	29.93	18	SCT	NC		10.00	5	-8	3	55	12	29	29.73	30.52				
21	CLR	NC		10.00	23	15	21	72	16	28	29.31	30.06	21	CLR	NC		10.00	3	-10	1	54	9	30	29.77	30.56				
24	CLR	NC		10.00	21	14	19	74	13	29	29.37	30.12	24	CLR	NC		10.00	-1	-11	-2	62	6	27	29.80	30.59				

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

FEBRUARY 2003

LSE

WBAN # 14920

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES,HG)			
			OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL				OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		
					SUNRISE: 0649	FEB 25					SUNSET: 1748						SUNRISE:	FEB 31					SUNSET:								
03	CLR	NC			10.00		-1	-11	-2	62	3	22	29.81	30.60																	
06	CLR	NC			10.00		-3	-10	-4	71	7	20	29.82	30.61																	
09	CLR	NC			10.00		2	-6	1	69	6	20	29.82	30.61																	
12																															
15	CLR	NC			10.00		18	0	14	45	9	19	29.64	30.42																	
18	CLR	NC			10.00		14	-2	11	49	8	22	29.59	30.37																	
21	CLR	NC			10.00		10	-3	8	55	9	22	29.56	30.35																	
24	CLR	NC			10.00		8	-1	6	66	3	16	29.55	30.34																	
					SUNRISE: 0647	FEB 26																									
03	CLR	NC			10.00		5	-1	4	76	7	18	29.53	30.31																	
06	CLR	NC			10.00		2	-3	1	80	3	17	29.50	30.29																	
09	CLR	NC			10.00		10	2	8	69	12	19	29.49	30.27																	
12	CLR	NC			10.00		21	6	17	52	12	18	29.45	30.22																	
15	CLR	NC			10.00		26	6	21	42	10	17	29.38	30.15																	
18	CLR	NC			10.00		24	7	19	48	7	21	29.35	30.12																	
21	CLR	NC			10.00		19	6	16	57	5	23	29.35	30.12																	
24	CLR	NC			10.00		12	5	10	73	5	15	29.35	30.12																	
					SUNRISE: 0646	FEB 27																									
03	CLR	NC			10.00		10	5	9	80	5	15	29.36	30.13																	
06	CLR	NC			9.00		8	4	7	83	6	15	29.38	30.16																	
09	CLR	NC			7.00		16	10	14	77	6	15	29.39	30.16																	
12	CLR	NC			10.00		30	13	25	49	3	VR	29.37	30.14																	
15	CLR	NC			10.00		35	15	28	44	5	VR	29.33	30.09																	
18	CLR	NC			10.00		31	17	26	56	3	17	29.34	30.10																	
21	CLR	NC			10.00		24	19	22	81	3	13	29.35	30.11																	
24	CLR	NC			9.00		19	15	18	85	7	16	29.35	30.11																	
					SUNRISE: 0644	FEB 28																									
03	CLR	NC			8.00		18	15	17	88	6	15	29.36	30.11																	
06	CLR	NC			7.00		16	14	15	92	5	15	29.37	30.13																	
09	CLR	NC			7.00		24	19	22	81	6	18	29.39	30.15																	
12	CLR	NC			10.00		38	20	31	48	7	18	29.38	30.13																	
15	CLR	NC			10.00		42	21	34	43	8	17	29.32	30.07																	
18	CLR	NC			10.00		37	21	31	52	6	18	29.32	30.07																	
21	CLR	NC			10.00		31	21	28	67	7	19	29.32	30.07																	
24	CLR	NC			10.00		27	21	25	78	8	18	29.32	30.06																	
					SUNRISE:	FEB 29																									
					SUNRISE:	FEB 30																									

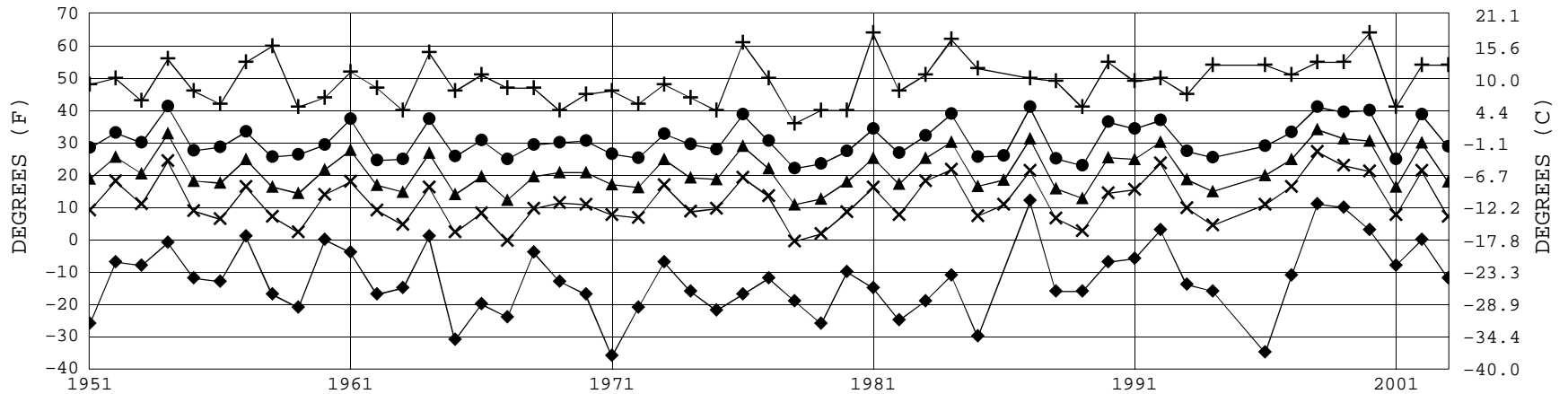
3-HOURLY OBSERVATION NOTES

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 WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			15	9	14	77	29.35	30.11	9.00	8	2	32
02			15	9	14	77	29.36	30.12	9.11	7	2	33
03			14	8	13	78	29.35	30.11	9.07	8	1	28
04			13	8	12	78	29.35	30.11	9.14	8	1	25
05			13	7	12	78	29.35	30.11	8.71	8	2	28
06			12	7	11	80	29.35	30.12	9.14	7	1	23
07			12	7	11	79	29.36	30.13	8.85	7	1	24
08			13	7	12	78	29.37	30.14	8.66	8	2	21
09			15	8	13	75	29.38	30.14	8.34	9	2	26
10			18	10	16	71	29.38	30.14	8.79	9	2	25
11			21	11	18	68	29.36	30.12	9.37	9	3	28
12			23	12	20	65	29.35	30.11	9.63	10	3	29
13			24	13	21	63	29.33	30.09	9.20	11	3	29
14			25	13	22	61	29.33	30.08	8.78	11	3	28
15			26	13	22	61	29.32	30.08	8.88	11	3	28
16			26	13	22	61	29.32	30.08	9.16	12	5	28
17			24	13	21	64	29.32	30.09	8.75	11	4	28
18			22	12	20	68	29.33	30.10	8.90	9	3	29
19			21	11	18	68	29.34	30.11	9.31	9	3	30
20			19	11	17	70	29.35	30.11	9.28	9	2	28
21			19	10	17	71	29.35	30.12	9.18	9	2	27
22			17	10	16	73	29.35	30.12	9.11	9	1	27
23			17	10	15	74	29.35	30.12	9.12	8	1	27
24			16	9	15	74	29.36	30.12	9.07	9	1	28

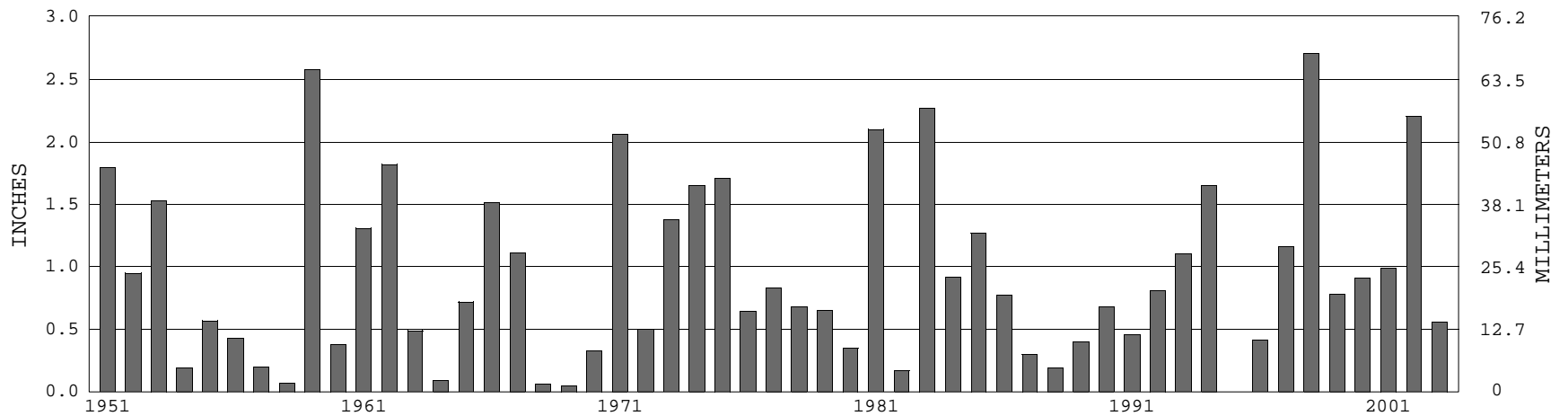
LA CROSSE, WI FEBRUARY TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1951-2003) Mean: 20.8 1961-1990 Normal: 22.6

LA CROSSE, WI FEBRUARY PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 0.93

1961-1990 Normal: 0.99



FEBRUARY 2003

LA CROSSE, WI

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

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