



JANUARY 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		DEPTH	WATER EQUIV	SNOW FALL	WATER EQUIV	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																																								
																			5-SEC	2-MIN	SPEED		DIR																																				
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																					
01	28	18	23	7	11	20	42	0			0.0	0.00	29.46	30.22	6.0	05	7.6	20	11	15	09	01																																					
02	31	14	23	7	17	22	42	0			0.0	0.00	29.45	30.20	6.0	03	6.3	15	04	13	04	02																																					
03	32	8	20	4	14	20	45	0	BR		0.0	0.00	29.37	30.12	1.1	15	1.7	9	14	8	20	03																																					
04	32	20	26	10	25	27	39	0	SN BR UP		T	0.01	29.19	29.93	4.9	18	5.4	17	19	14	19	04																																					
05	34	29	32	16	30	31	33	0	SN BR		T	0.1	0.02	29.32	30.06	7.5	35	7.7	20	01	16	36	05																																				
06	34	23	29	13	21	27	36	0				0.0	0.00	29.68	30.43	5.4	33	8.5	22	02	17	35	06																																				
07	56*	28	42*	27	29	35	23	0				0.0	0.00	29.17	29.90	5.6	25	8.1	24	31	20	30	07																																				
08	55	27	41	26	29	36	24	0	RA		0.0	T	28.83	29.55	7.2	29	11.0	30	32	25	31	08																																					
09	41	22	32	17	22	29	33	0	SN UP		T	T	29.00	29.72	15.9	32	16.5	32	33	26	30	09																																					
10	22	7	15	0	4	13	50	0	SN BR		T	0.2	0.01	29.33	30.09	15.6	32	15.8	35	35	28	35	10																																				
11	17	2	10	-5	-2	7	55	0	UP			T	T	29.58	30.36	9.7	31	10.3	21	35	17	30	11																																				
12	38	4	21	6	5	16	44	0				0.0	0.00	29.45	30.21	6.3	25	11.6	39*	32	31*	31	12																																				
13	18	6	12	-3	2	9	53	0	SN BR			0.9	0.04	29.57	30.34	9.4	34	9.7	29	34	22	35	13																																				
14	14	-1	7	-9	-2	5	58	0	SN			T	T	29.62	30.41	9.1	31	9.8	20	30	16	30	14																																				
15	17	-1	8	-8	-2	6	57	0				0.0	0.00	29.68	30.47	4.5	32	5.1	16	32	13	32	15																																				
16	25	7	16	0	2	12	49	0				0.0	0.00	29.56	30.33	6.8	33	7.3	23	01	18	36	16																																				
17	18	0	9	-7	-2	7	56	0				0.0	0.00	29.55	30.33	1.0	24	6.9	18	19	15	19	17																																				
18	19	4	12	-4	5	11	53	0	SN BR			0.3	T	29.20	29.97	9.0	30	10.6	25	32	22	33	18																																				
19	27	-2	13	-3	5	11	52	0	SN			T	T	29.11	29.88	6.7	28	11.4	25	23	21	31	19																																				
20	15	3	9	-7	-3	8	56	0				0.0	0.00	29.39	30.16	6.7	33	7.1	16	34	13	35	20																																				
21	12	-5	4	-12	-7	3	61	0				0.0	0.00	29.60	30.39	4.7	34	5.8	16	35	13	36	21																																				
22	9	-4	3	-13	-9	0	62	0				0.0	0.00	29.77	30.57	9.4	34	9.8	23	34	20	34	22																																				
23	8	-9*	0*	-16	-14	-3	65	0				0.0	0.00	29.89	30.70	8.8	33	9.2	21	33	17	33	23																																				
24	17	-3	7	-9	-2	8	58	0	SN			T	T	29.66	30.45	7.6	20	7.9	16	22	14	20	24																																				
25	20	9	15	-1	7	13	50	0	SN			0.2	0.01	29.46	30.23	5.4	31	10.2	22	34	20	33	25																																				
26	9	-5	2	-14	-10	0	63	0				0.0	0.00	29.76	30.56	9.1	33	10.4	22	33	18	33	26																																				
27	22	-6	8	-9	3	10	57	0	SN			T	T	29.45	30.23	10.7	19	11.6	30	18	24	22	27																																				
28	28	8	18	1	16	20	47	0	SN FZFG BR			2.2	0.15	29.35	30.11	2.7	35	6.5	18	34	15	35	28																																				
29	19	-2	9	-8	2	7	56	0				0.0	0.00	29.66	30.44	2.2	32	4.6	12	17	12	33	29																																				
30	33	15	24	7	21	24	41	0	SN BR			0.2	0.02	29.32	30.08	10.4	18	10.5	22	19	17	17	30																																				
31	35	29	32	15	31	32	33	0	SN BR			2.9	0.27	29.18	29.92	4.2	34	5.3	16	34	13	34	31																																				
25.3										7.9		16.6		■ ■		8.0		15.0		48.2		0.0		< MONTHLY AVERAGES		TOTALS->		7.0		0.53		29.44		30.20		4.4		31		8.7		<- MONTHLY AVERAGES																	
- .2										1.6		0.7		■ ■		<-----DEPARTURE FROM NORMAL----->																				- .66		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																					
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 0.29 DATE :30-31										SEA LEVEL PRESSURE DATE TIME																																							
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 2.9 DATE :31										MAXIMUM : 30.77 23 0953																																							
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: 5 DATE : 31										MINIMUM : 29.43 08 1253																																							
HEATING: 1493										NUMBER OF DAYS WITH =>										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32 : 31										PRECIPITATION ≥ 0.01 INCH : 8																			
COOLING: 0										MAXIMUM TEMP ≤ 32 : 23										MINIMUM TEMP ≤ 0 : 11										PRECIPITATION ≥ 0.10 INCH : 2																													
0										0										0										0										0										2									

JANUARY 2003
LA CROSSE, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

LA CROSSE, WI

JANUARY 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		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04	T	0.01	T									04		0.01		
05	T	T	T	0.01									05	T	T	T									05	0.01	0.02		
06													06												06		0.00		
07													07												07		0.00		
08			T										08												08		T		
09													09			T	T								09		T		
10						T	T	T	T				10	T											10	T	0.01		
11													11												11		T		
12													12												12		0.00		
13													13				T	T	T	T	T				13	0.01	0.04		
14	T	T											14												14		T		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18	T	T	T										18	T											18		T		
19													19												19		T		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24													24	T	T	T	T								24		T		
25													25	T	T	T	T								25	T	0.01		
26													26												26		0.00		
27													27												27		T		
28													28	0.03	0.01	T	T								28		0.15		
29													29												29		0.00		
30	0.03	0.04	0.07	0.04	0.01	0.01	0.03	T	T	T			30												30	0.01	0.02		
31													31												31	0.23	0.27		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.02	.02	.03	.03	.04	.06	.08	.09	.10	.12	.14	.16
Ending Date	28	31	28	31	31	31	28	31	31	31	31	31
Ending Time (Hour/Min)	1135	0247	1058	0257	0257	0257	1135	0312	0344	0326	0326	0344

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	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

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

LA CROSSE, WI JANUARY 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:

DATE	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							10.00	10.00	
03							1.75	10.00	
04							2.00	10.00	
05							1.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							.75	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							1.25	10.00	
14							7.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							2.00	10.00	
19							8.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							6.00	10.00	
25							1.50	10.00	
26							10.00	10.00	
27							1.75	10.00	
28							.50	10.00	
29							10.00	10.00	
30							1.25	10.00	
31							.75	7.00	
MONTHLY AVGS							6.92	9.90	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING									
31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0									
0 9 20									

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

JANUARY 2003

LSE

WBAN # 14920

HOUR (LST)	SKY COVER		CEILING 100'S OF FT		SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT		SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)			
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
	SUNRISE: 0739 JAN 01							SUNSET: 1638							SUNRISE: 0739 JAN 07							SUNSET: 1644											
03	CLR	NC						23	11	20	60	6	36	29.40	30.16	03	OVC	095								30	24	28	79	10	22	29.39	30.14
06	OVC	120						22	9	18	57	6	02	29.43	30.19	06	FCT	NC							31	26	29	82	12	23	29.30	30.04	
09	CLR	NC						21	8	18	57	8	08	29.47	30.23	09	SCT	NC							31	28	30	89	9	20	29.24	29.98	
12	CLR	NC						25	9	21	50	10	09	29.47	30.23	12	CLR	NC							46	32	40	58	8	23	29.12	29.84	
15	CLR	NC						27	9	22	47	7	09	29.47	30.23	15	CLR	NC							54	32	44	43	20	29	29.03	29.75	
18	OVC	095						27	11	22	51	9	04	29.49	30.25	18	CLR	NC							48	33	41	56	6	29	29.04	29.76	
21	OVC	100						25	14	22	63	5	01	29.50	30.26	21	CLR	NC							37	32	35	82	3	10	29.04	29.77	
24	OVC	095						26	15	23	63	8	03	29.47	30.22	24	CLR	NC							32	30	31	92	5	14	29.02	29.74	
	SUNRISE: 0739 JAN 02							SUNSET: 1639							SUNRISE: 0739 JAN 08							SUNSET: 1645											
03	OVC	024						26	17	23	69	8	02	29.47	30.22	03	CLR	NC							29	29	29	100	0	00	29.01	29.73	
06	OVC	022						25	17	23	72	7	02	29.45	30.20	06	CLR	NC							32	31	32	96	8	20	28.92	29.64	
09	OVC	022						26	16	23	66	7	05	29.48	30.23	09	CLR	NC							34	32	33	92	13	18	28.81	29.53	
12	OVC	028						28	19	25	69	7	02	29.45	30.20	12	CLR	NC							50	32	42	50	8	27	28.75	29.45	
15	SCT	NC						30	18	26	61	8	06	29.42	30.16	15	CLR	NC							54	31	44	42	13	28	28.72	29.43	
18	CLR	NC						24	17	22	75	5	05	29.43	30.19	18	CLR	NC							51	25	40	36	16	30	28.74	29.45	
21	CLR	NC						19	15	18	85	3	02	29.42	30.18	21	CLR	NC							47	24	38	41	20	31	28.79	29.50	
24	CLR	NC						17	14	16	88	0	00	29.44	30.19	24	CLR	NC							40	28	35	63	17	32	28.85	29.56	
	SUNRISE: 0739 JAN 03							SUNSET: 1640							SUNRISE: 0738 JAN 09							SUNSET: 1646											
03	CLR	NC						12	9	11	87	0	00	29.42	30.18	03	CLR	NC							36	29	33	76	13	31	28.89	29.60	
06	FEW	NC						11	8	10	88	0	00	29.42	30.19	06	OVC	049							35	30	33	82	13	29	28.88	29.60	
09	OVC	003				BR		15	14	15	95	0	00	29.43	30.20	09	OVC	029							35	28	32	76	20	31	28.88	29.60	
12	CLR	NC						24	18	22	77	0	00	29.39	30.15	12	OVC	033							35	26	32	70	20	32	28.93	29.65	
15	CLR	NC						32	9	25	38	3	18	29.32	30.07	15	OVC	031					UP		33	26	30	75	17	33	29.01	29.74	
18	OVC	090						28	18	25	66	3	14	29.32	30.09	18	BKN	055							30	15	25	54	15	33	29.12	29.85	
21	OVC	070						30	16	26	56	3	20	29.30	30.05	21	FEW	NC							25	8	20	48	16	35	29.18	29.91	
24	SCT	NC						28	17	25	63	6	13	29.27	30.01	24	FEW	NC							22	4	17	46	20	32	29.20	29.94	
	SUNRISE: 0739 JAN 04							SUNSET: 1641							SUNRISE: 0738 JAN 10							SUNSET: 1647											
03	CLR	NC						21	17	20	85	5	20	29.26	30.00	03	OVC	070							20	11	17	68	14	30	29.22	29.96	
06	CLR	NC						26	19	24	75	7	15	29.20	29.95	06	OVC	048							19	13	17	77	13	33	29.22	29.97	
09	BKN	070						28	22	26	78	8	17	29.19	29.93	09	BKN	029							15	6	13	67	15	31	29.28	30.03	
12	FEW	NC				-SN		31	25	29	79	7	19	29.15	29.89	12	OVC	025							17	6	14	62	17	32	29.32	30.07	
15	BKN	034				BR		30	29	30	96	7	19	29.14	29.88	15	FEW	NC							16	2	13	54	16	31	29.35	30.12	
18	OVC	021				BR		31	30	31	96	3	23	29.18	29.92	18	CLR	NC							12	-2	9	53	14	32	29.41	30.18	
21	OVC	014				BR		31	30	31	96	0	00	29.18	29.92	21	CLR	NC							11	-3	8	53	14	31	29.43	30.21	
24	OVC	008				BR		30	30	30	100	3	23	29.16	29.89	24	CLR	NC							7	-5	5	57	14	32	29.45	30.23	
	SUNRISE: 0739 JAN 05							SUNSET: 1642							SUNRISE: 0738 JAN 11							SUNSET: 1648											
03	OVC	008				BR		30	30	30	100	0	00	29.16	29.90	03	CLR	NC							5	-5	3	63	13	31	29.47	30.25	
06	OVC	009				BR		31	31	31	100	8	33	29.19	29.92	06	CLR	NC							3	-7	1	62	12	30	29.48	30.26	
09	OVC	015				BR		30	30	30	100	8	34	29.24	29.97	09	OVC	075							4	-8	2	57	12	30	29.52	30.30	
12	OVC	014						31	30	31	96	8	34	29.28	30.01	12	OVC	085							10	-2	8	58	13	34	29.57	30.35	
15	OVC	020						33	28	31	82	8	35	29.32	30.05	15	CLR	NC							17	2	14	51	12	34	29.60	30.39	
18	OVC	020						33	30	32	89	10	36	29.41	30.16	18	CLR	NC							11	2	9	67	3	33	29.64	30.43	
21	OVC	024						33	28	31	82	8	36	29.51	30.26	21	CLR	NC							12	2	10	64	9	32	29.69	30.47	
24	OVC	030						32	27	30	82	6	35	29.59	30.33	24	CLR	NC							10	-1	8	61	7	29	29.69	30.47	
	SUNRISE: 0739 JAN 06							SUNSET: 1643							SUNRISE: 0737 JAN 12							SUNSET: 1649											
03	OVC	029						32	23	29	69	12	01	29.66	30.40	03	CLR	NC							5	-3	4	69	5	23	29.67	30.45	
06	OVC	027						28	20	25	72	15	35	29.72	30.47	06	CLR	NC							6	-4	4	63	8	17	29.67	30.40	
09	CLR	NC						26	20	24	78	9	34	29.79	30.54	09	CLR	NC							9	-2	7	61	9	19	29.56	30.34	
12	CLR	NC						31	20	27	64	10	34	29.76	30.51	12	CLR	NC							24	4	19	42	18	20	29.42	30.19	
15	CLR	NC						33	21	29	61	0	00	29.70	30.45	15	CLR	NC							36	12	28	37	10	22	29.26	30.01	

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

JANUARY 2003

LSE

WBAN # 14920

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okts	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okts	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)					SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
	SUNRISE: 0737			JAN 13						SUNSET: 1651			SUNRISE: 0734			JAN 19			SUNSET: 1658																
03	CLR	NC						10.00		11	-2	8	56	15	34	29.52	30.27	03	CLR	NC						10.00		0	-6	-1	76	7	23	29.27	30.04
06	CLR	NC						10.00		8	-3	6	60	8	35	29.55	30.31	06	CLR	NC						10.00		1	-5	0	75	12	21	29.16	29.94
09	CLR	NC						10.00		10	-2	8	58	9	34	29.59	30.36	09	OVC	026						8.00	-SN	7	1	6	76	20	21	29.05	29.83
12	FEW	NC						10.00		13	-2	10	51	7	36	29.60	30.37	12	OVC	055						10.00		20	13	18	74	12	26	29.00	29.77
15	OVC	040						10.00		14	-1	11	51	7	36	29.57	30.35	15	OVC	080						10.00		27	17	24	66	15	30	28.95	29.72
18	OVC	090						10.00		12	7	11	80	6	36	29.58	30.36	18	FEW	NC						10.00		23	13	20	65	14	32	29.05	29.81
21	OVC	017						2.50	-SN BR	11	7	10	84	9	34	29.59	30.37	21	CLR	NC						10.00		18	8	15	65	12	33	29.15	29.91
24	OVC	050						5.00	-SN BR	10	6	9	84	8	33	29.59	30.37	24	CLR	NC						10.00		12	-2	9	53	9	35	29.23	29.99
SUNRISE: 0737			JAN 14			SUNSET: 1652			SUNRISE: 0733			JAN 20			SUNSET: 1659																				
03	OVC	020						10.00		8	3	7	80	9	33	29.64	30.42	03	CLR	NC						10.00		10	-2	8	58	8	34	29.30	30.05
06	CLR	NC						10.00		3	-5	2	69	8	34	29.64	30.42	06	CLR	NC						10.00		5	-6	3	60	7	36	29.34	30.11
09	CLR	NC						10.00		5	-3	4	69	9	29	29.67	30.45	09	CLR	NC						10.00		8	-4	6	57	7	35	29.38	30.15
12	CLR	NC						10.00		11	-1	9	58	13	29	29.64	30.42	12	FEW	NC						10.00		12	-4	9	48	7	34	29.41	30.19
15	CLR	NC						10.00		12	-2	9	53	14	29	29.60	30.38	15	CLR	NC						10.00		14	-1	11	51	6	34	29.36	30.14
18	CLR	NC						10.00		7	-3	5	63	9	28	29.60	30.39	18	CLR	NC						10.00		11	-2	8	56	10	33	29.41	30.19
21	CLR	NC						10.00		5	-5	3	63	7	30	29.59	30.38	21	CLR	NC						10.00		7	-3	5	63	6	31	29.47	30.25
24	CLR	NC						10.00		5	-4	3	66	12	32	29.61	30.39	24	BKN	100						10.00		8	-1	6	66	8	33	29.51	30.29
SUNRISE: 0736			JAN 15			SUNSET: 1653			SUNRISE: 0732			JAN 21			SUNSET: 1701																				
03	CLR	NC						10.00		2	-5	1	72	8	30	29.66	30.45	03	CLR	NC						10.00		4	-6	2	63	10	36	29.56	30.34
06	CLR	NC						10.00		0	-8	-1	69	8	28	29.69	30.48	06	CLR	NC						10.00		-2	-11	-3	65	3	02	29.59	30.38
09	CLR	NC						10.00		3	-6	2	66	7	28	29.73	30.52	09	CLR	NC						10.00		2	-10	0	57	6	34	29.64	30.43
12	CLR	NC						10.00		11	-2	8	56	6	36	29.71	30.49	12	CLR	NC						10.00		8	-9	5	45	6	01	29.64	30.42
15	CLR	NC						10.00		16	0	13	49	0	00	29.65	30.44	15	BKN	085						10.00		12	-7	9	42	8	35	29.58	30.36
18	CLR	NC						10.00		11	1	9	64	7	30	29.67	30.46	18	OVC	090						10.00		8	-4	6	57	8	29	29.59	30.38
21	CLR	NC						10.00		10	2	8	69	0	00	29.66	30.45	21	CLR	NC						10.00		5	-4	3	66	7	30	29.61	30.41
24	CLR	NC						10.00		10	3	9	73	0	00	29.67	30.45	24	CLR	NC						10.00		3	-5	2	69	0	00	29.65	30.44
SUNRISE: 0736			JAN 16			SUNSET: 1654			SUNRISE: 0732			JAN 22			SUNSET: 1702																				
03	CLR	NC						10.00		10	4	9	76	0	00	29.63	30.41	03	CLR	NC						10.00		-1	-8	-2	72	5	36	29.66	30.45
06	CLR	NC						10.00		8	4	7	83	0	00	29.60	30.38	06	BKN	120						10.00		1	-5	0	75	3	36	29.71	30.50
09	CLR	NC						10.00		13	5	11	70	7	34	29.59	30.37	09	SCT	NC						10.00		2	-7	1	66	10	33	29.77	30.57
12	CLR	NC						10.00		20	4	16	50	12	33	29.54	30.31	12	CLR	NC						10.00		6	-9	4	49	15	33	29.78	30.58
15	CLR	NC						10.00		25	4	20	40	12	32	29.45	30.22	15	FEW	NC						10.00		9	-7	6	48	12	31	29.77	30.57
18	CLR	NC						10.00		18	5	15	57	10	31	29.48	30.25	18	CLR	NC						10.00		3	-12	1	49	10	35	29.81	30.61
21	CLR	NC						10.00		16	-7	12	35	13	36	29.53	30.30	21	CLR	NC						10.00		-1	-13	-2	56	12	35	29.84	30.65
24	CLR	NC						10.00		11	-6	8	46	7	36	29.62	30.39	24	CLR	NC						10.00		-3	-15	-4	56	14	34	29.87	30.68
SUNRISE: 0735			JAN 17			SUNSET: 1655			SUNRISE: 0731			JAN 23			SUNSET: 1703																				
03	CLR	NC						10.00		4	-6	2	63	7	35	29.68	30.45	03	CLR	NC						10.00		-6	-17	-7	58	12	34	29.87	30.68
06	CLR	NC						10.00		1	-6	0	72	6	36	29.70	30.49	06	CLR	NC						10.00		-8	-19	-9	58	13	34	29.90	30.72
09	CLR	NC						10.00		6	-3	4	66	5	35	29.71	30.49	09	CLR	NC						10.00		-6	-19	-7	53	16	34	29.94	30.76
12	CLR	NC						10.00		12	-1	9	56	3	VR	29.65	30.42	12	CLR	NC						10.00		1	-14	-1	48	9	32	29.93	30.74
15	CLR	NC						10.00		18	2	14	49	9	21	29.54	30.32	15	CLR	NC						10.00		7	-10	4	45	10	31	29.87	30.68
18	CLR	NC						10.00		11	1	9	64	6	19	29.46	30.24	18	CLR	NC						10.00		3	-11	1	51	8	31	29.89	30.70
21	CLR	NC						10.00		12	1	10	61	8	16	29.31	30.08	21	CLR	NC						10.00		2	-11	0	54	8	31	29.87	30.68
24	OVC	065						10.00		13	-2	10	51	7	VR	29.21	29.97	24	CLR	NC						10.00		-1	-12	-2	59	0	00	29.86	30.67
SUNRISE: 0734			JAN 18			SUNSET: 1657			SUNRISE: 0730			JAN 24			SUNSET: 1704																				
03	OVC	020						10.00		14	8	13	77	7	23	29.15	29.91	03	FEW	NC						10.00		2	-9	0	60	0	00	29.83	30.62
06	CLR	NC						10.00		10	7	9	87	3	15	29.13	29.90	06	OVC	090						10.00		4	-9	2	54	5	20	29.78	30.58
09	OVC	055						10.00		19	13	17	77	16	31	29.14	29.91	09	OVC	075						10.00		6	-8	4	52	9	18	29.75	30.55
12	OVC	039						5.00	-SN	17	9	15	70	18	32	29.19	29.95	12	OVC	060						10.00		11	-5	8	48	12	20	29.66	30.46
15	FEW	NC						10.00		15	4	12	61	15	32	29.22	29.98	15	OVC	043						8.00	-SN	13	1	10	59	12	21	29.56	30.35
18	CLR	NC						10.00		11	1	9	64	9	29	29.26	30.03	18	OVC	032						10.00		14	5	12	67	8	21	29.55	30.33
21	CLR	NC						10.00																											

OBSERVATIONS AT 3-HOURLY INTERVALS

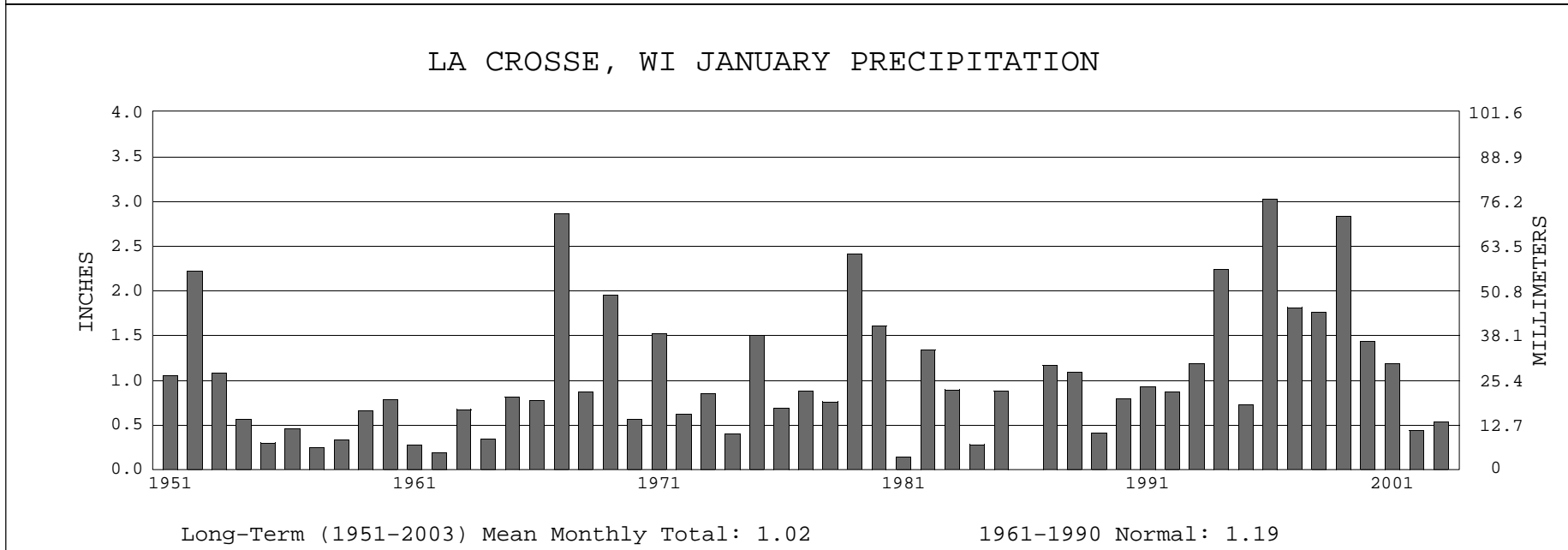
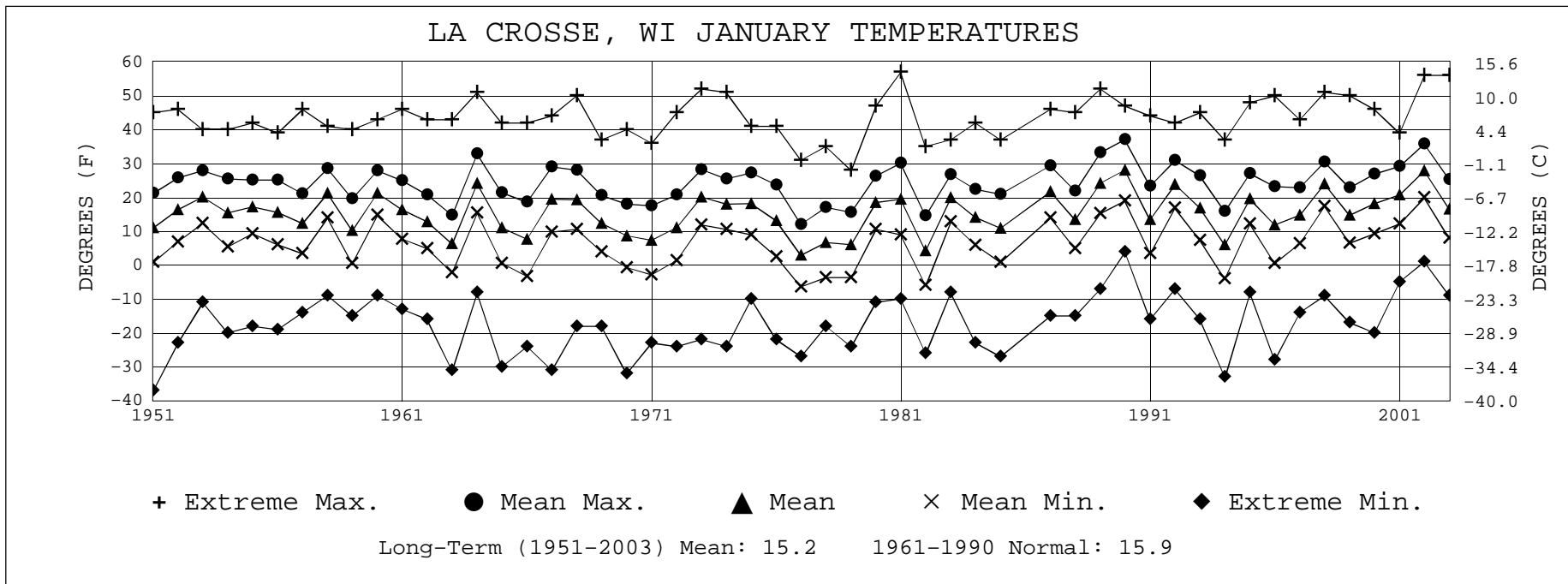
LA CROSSE, WI

JANUARY 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: 0729					JAN 25					SUNSET: 1706					SUNRISE: 0723					JAN 31					SUNSET: 1714																																																																																																																																																																																																																																																																																																																																																			
03	SCT	NC	10.00		16	9	14	74	5	25	29.43	30.20	03	OVC	005	0.75	-SN BR	31	31	31	100	0	00	29.12	29.85																																																																																																																																																																																																																																																																																																																																																			
06	SCT	NC	10.00		13	7	12	77	5	19	29.40	30.17	06	OVC	006	1.00	-SN BR	30	30	30	100	5	34	29.11	29.84																																																																																																																																																																																																																																																																																																																																																			
09	FEW	NC	9.00		14	8	13	77	6	20	29.41	30.18	09	SCT	NC	1.75	-SN BR	30	30	30	100	7	34	29.14	29.88																																																																																																																																																																																																																																																																																																																																																			
12	OVC	017	1.50	-SN	19	14	18	81	9	27	29.39	30.16	12	SCT	NC	4.00	BR	34	32	33	92	8	36	29.18	29.91																																																																																																																																																																																																																																																																																																																																																			
15	OVC	049	6.00	-SN	18	11	16	74	17	32	29.40	30.17	15	OVC	023	5.00	BR	35	32	34	89	8	34	29.21	29.94																																																																																																																																																																																																																																																																																																																																																			
18	OVC	029	10.00		15	7	13	70	10	34	29.49	30.26	18	OVC	021	7.00		34	31	33	89	9	35	29.25	29.98																																																																																																																																																																																																																																																																																																																																																			
21	BKN	120	10.00		11	0	9	61	14	34	29.56	30.33	21	OVC	021	7.00		32	29	31	88	0	00	29.27	30.00																																																																																																																																																																																																																																																																																																																																																			
24	OVC	110	10.00		9	-5	6	52	14	35	29.61	30.39	24	OVC	021	6.00	BR	31	29	30	92	3	26	29.27	30.00																																																																																																																																																																																																																																																																																																																																																			
SUNRISE: 0728					JAN 26					SUNSET: 1707					3-HOURLY OBSERVATION NOTES																																																																																																																																																																																																																																																																																																																																																													
03	CLR	NC	10.00		3	-9	1	57	10	35	29.69	30.47	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	10.00		0	-11	-1	59	16	33	29.74	30.53	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																																																																																																																																																																																																																																																																																																																																																															
09	CLR	NC	10.00		-1	-12	-2	59	13	34	29.79	30.58	NC = No ceiling detected.																																																																																																																																																																																																																																																																																																																																																															
12	CLR	NC	10.00		4	-9	2	54	12	31	29.81	30.60	& = Original observation contained additional weather elements.																																																																																																																																																																																																																																																																																																																																																															
15	CLR	NC	10.00		8	-8	5	47	12	34	29.78	30.57	See page 3 for additional notes.																																																																																																																																																																																																																																																																																																																																																															
18	CLR	NC	10.00		3	-10	1	54	9	30	29.80	30.60																																																																																																																																																																																																																																																																																																																																																																
21	CLR	NC	10.00		-2	-12	-3	62	0	00	29.80	30.60																																																																																																																																																																																																																																																																																																																																																																
24	CLR	NC	10.00		-5	-13	-6	68	6	15	29.75	30.56																																																																																																																																																																																																																																																																																																																																																																
SUNRISE: 0727					JAN 27					SUNSET: 1708					SUMMARY BY HOUR																																																																																																																																																																																																																																																																																																																																																													
03	CLR	NC	10.00		-3	-10	-4	71	5	13	29.74	30.53	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="3">HOUR (LST)</th> <th colspan="11">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th rowspan="2">CEILOMETER</th> <th rowspan="2">EFF CLD AMT</th> <th rowspan="2">DRY BULB</th> <th rowspan="2">DEW POINT</th> <th rowspan="2">WET BULB</th> <th rowspan="2">RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th rowspan="2">VISIBILITY (MILES)</th> <th rowspan="2">WIND SPEED (MPH)</th> <th rowspan="2">SPEED</th> <th rowspan="2">DIRECTION</th> </tr> <tr> <th>STATION</th> <th>SEA LEVEL</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>15</td><td>6</td><td>13</td><td>69</td><td>29.45</td><td>30.21</td><td>9.21</td><td>9</td><td>4</td><td>32</td></tr> <tr><td>02</td><td></td><td></td><td>14</td><td>6</td><td>12</td><td>72</td><td>29.45</td><td>30.21</td><td>9.14</td><td>8</td><td>4</td><td>32</td></tr> <tr><td>03</td><td></td><td></td><td>13</td><td>6</td><td>12</td><td>73</td><td>29.46</td><td>30.22</td><td>9.42</td><td>7</td><td>4</td><td>32</td></tr> <tr><td>04</td><td></td><td></td><td>13</td><td>6</td><td>11</td><td>73</td><td>29.45</td><td>30.22</td><td>9.35</td><td>7</td><td>3</td><td>32</td></tr> <tr><td>05</td><td></td><td></td><td>13</td><td>6</td><td>11</td><td>74</td><td>29.45</td><td>30.21</td><td>9.29</td><td>8</td><td>3</td><td>32</td></tr> <tr><td>06</td><td></td><td></td><td>12</td><td>5</td><td>11</td><td>74</td><td>29.45</td><td>30.22</td><td>9.48</td><td>8</td><td>3</td><td>31</td></tr> <tr><td>07</td><td></td><td></td><td>12</td><td>6</td><td>11</td><td>75</td><td>29.45</td><td>30.22</td><td>8.97</td><td>8</td><td>3</td><td>30</td></tr> <tr><td>08</td><td></td><td></td><td>12</td><td>5</td><td>11</td><td>74</td><td>29.45</td><td>30.22</td><td>9.42</td><td>7</td><td>3</td><td>30</td></tr> <tr><td>09</td><td></td><td></td><td>14</td><td>7</td><td>13</td><td>72</td><td>29.46</td><td>30.23</td><td>9.28</td><td>10</td><td>4</td><td>29</td></tr> <tr><td>10</td><td></td><td></td><td>16</td><td>7</td><td>14</td><td>68</td><td>29.46</td><td>30.23</td><td>9.07</td><td>10</td><td>4</td><td>31</td></tr> <tr><td>11</td><td></td><td></td><td>18</td><td>8</td><td>16</td><td>66</td><td>29.46</td><td>30.22</td><td>8.95</td><td>10</td><td>5</td><td>30</td></tr> <tr><td>12</td><td></td><td></td><td>20</td><td>9</td><td>18</td><td>63</td><td>29.44</td><td>30.20</td><td>8.78</td><td>10</td><td>5</td><td>30</td></tr> <tr><td>13</td><td></td><td></td><td>22</td><td>10</td><td>19</td><td>61</td><td>29.41</td><td>30.18</td><td>8.97</td><td>10</td><td>5</td><td>31</td></tr> <tr><td>14</td><td></td><td></td><td>23</td><td>10</td><td>20</td><td>58</td><td>29.40</td><td>30.16</td><td>9.08</td><td>10</td><td>6</td><td>30</td></tr> 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LEVEL	01			15	6	13	69	29.45	30.21	9.21	9	4	32	02			14	6	12	72	29.45	30.21	9.14	8	4	32	03			13	6	12	73	29.46	30.22	9.42	7	4	32	04			13	6	11	73	29.45	30.22	9.35	7	3	32	05			13	6	11	74	29.45	30.21	9.29	8	3	32	06			12	5	11	74	29.45	30.22	9.48	8	3	31	07			12	6	11	75	29.45	30.22	8.97	8	3	30	08			12	5	11	74	29.45	30.22	9.42	7	3	30	09			14	7	13	72	29.46	30.23	9.28	10	4	29	10			16	7	14	68	29.46	30.23	9.07	10	4	31	11			18	8	16	66	29.46	30.22	8.95	10	5	30	12			20	9	18	63	29.44	30.20	8.78	10	5	30	13			22	10	19	61	29.41	30.18	8.97	10	5	31	14			23	10	20	58	29.40	30.16	9.08	10	6	30	15			24	10	20	58	29.40	30.16	9.04	10	6	30	16			23	11	20	59	29.41	30.17	9.27	10	7	30	17			22	10	19	63	29.42	30.18	9.52	10	6	31	18			20	10	18	65	29.42	30.19	9.77	9	6	31	19			20	10	17	66	29.43	30.20	9.74	9	5	31	20			18	9	16	68	29.43	30.20	9.68	8	5	32	21			18	8	15	67	29.44	30.20	9.40	8	5	32	22			17	8	15	68	29.44	30.21	9.39	8	4	33	23			16	7	14	69	29.44	30.21	9.23	8	4	32	24			16	7	14	69	29.45	30.21	9.17	8	4	32
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JANUARY 2003

LA CROSSE, WI

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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DIRECTOR

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