



NOVEMBER 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	23	32	-11	18	27	33	0	SN BR HZ	0		0.0	0.00	29.52	30.27	11.4	29	11.6	23	29	18	27	01										
02	46	26	36	-6	22	30	29	0		0		0.0	0.00	29.39	30.12	4.1	30	7.0	23	29	20	29	02										
03	48	22	35	-7	27	32	30	0		0		0.0	0.00	29.29	30.02	4.1	23	9.2	23	33	18	32	03										
04	40	29	35	-6	22	30	30	0		0		0.0	0.00	29.39	30.12	3.3	01	6.2	21	34	17	35	04										
05	37	31	34	-7	30	33	31	0		0		1.9	0.16	29.14	29.88	0.2	05	2.9	16	31	13	31	05										
06	48	28	38	-2	30	35	27	0	BR HZ	0		0.0	0.00	29.27	30.00	6.4	30	8.5	20	28	17	28	06										
07	63	29	46	6	33	40	19	0		0		0.0	0.00	29.10	29.82	10.7	19	11.5	28	20	22	21	07										
08	59	40	50	11	40	45	15	0	RA BR	0		0.0	0.00	28.83	29.52	5.7	18	7.2	18	24	16	21	08										
09	63*	37	50	11	44	47	15	0		0		0.0	0.01	28.65	29.35	7.2	18	7.9	22	18	20	19	09										
10	59	40	50*	12	43	46	15	0	RA BR	0		0.0	0.33	28.68	29.38	6.8	33	7.2	21	33	18	34	10										
11	42	29	36	-2	29	33	29	0	RA BR	0		0.0	0.01	29.26	29.99	7.1	34	8.7	20	35	17	34	11										
12	49	27	38	1	29	34	27	0	RA	0		0.0	T	29.42	30.15	4.9	23	8.2	21	21	16	21	12										
13	51	26	39	2	30	36	26	0	BR	0		0.0	0.00	29.21	29.94	4.1	20	6.9	20	26	17	26	13										
14	44	27	36	0	26	32	29	0		0		0.0	0.00	29.24	29.97	8.5	35	9.0	18	02	15	35	14										
15	36	21	29	-7	18	25	36	0		0		0.0	0.00	29.49	30.24	5.8	01	6.4	15	03	13	04	15										
16	34	21	28	-7	22	26	37	0	SN	0		0.1	T	29.54	30.29	1.4	05	2.5	9	08	8	10	16										
17	37	21	29	-6	20	26	36	0		0		0.0	0.00	29.38	30.12	3.5	15	4.5	12	25	9	25	17										
18	39	25	32	-2	24	29	33	0	BR	0		0.0	0.00	29.25	29.99	4.7	18	5.5	13	18	10	18	18										
19	54	29	42	8	28	34	23	0	BR HZ	0		0.0	0.00	29.24	29.97	4.0	22	6.9	17	30	15	28	19										
20	53	30	42	9	31	36	23	0		0		0.0	0.00	29.24	29.96	0.3	36	5.5	13	36	12	35	20										
21	39	31	35	2	28	33	30	0	RA SN BR	0		0.7	0.04	29.27	30.00	9.1	35	9.3	22	35	17	36	21										
22	37	24	31	-1	20	27	34	0	SN	0		T	T	29.37	30.11	0.4	12	6.4	18	20	15	21	22										
23	46	30	38	6	24	33	27	0		0		0.0	0.00	29.21	29.94	8.1	29	11.0	26	32	23	29	23										
24	35	26	31	0	14	24	34	0	SN	0		T	T	29.50	30.25	12.0	34	12.2	22	34	18	34	24										
25	30	14	22	-9	13	21	43	0	SN	0		T	T	29.65	30.41	6.3	35	6.7	17	33	15	33	25										
26	32	15	24	-6	14	20	41	0	SN	0		T	T	29.73	30.49	5.2	35	5.6	13	35	10	33	26										
27	29	13*	21*	-9	12	19	44	0	SN	0		T	T	29.62	30.38	4.1	23	5.2	15	27	14	27	27										
28	40	21	31	2	21	28	34	0		0		0.0	0.00	29.26	30.00	7.4	20	8.9	26	21	18	20	28										
29	47	30	39	10	27	36	26	0	RA SN	0		T	T	28.78	29.49	15.1	30	17.0	37	30	29	35	29										
30	30	14	22	-6	4	18	43	0	SN	0		T	T	29.27	30.02	16.6	34	17.4	37*	34	30*	34	30										
< MONTHLY AVERAGES										TOTALS-->			2.7	0.55	29.27	30.01	2.9	30	8.1	<-- MONTHLY AVERAGES													
0.0										-1.4		-7				<-----DEPARTURE FROM NORMAL----->								-1.55		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.34 DATE :10-11				SEA LEVEL PRESSURE DATE TIME																				
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 1.9 DATE :05				MAXIMUM : 30.55 26 0953																				
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.19 10 0253																				
HEATING: 899 6 1613 78									NUMBER OF DAYS WITH -->				MAXIMUM TEMP ≥ 90: 0				PRECIPITATION ≥ 0.01 INCH : 5																
COOLING: 0 0 979 204									MAXIMUM TEMP ≤ 32 : 4				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 2																
									THUNDERSTORMS : 0				HEAVY FOG : 0				SNOWFALL ≥ 1.0 INCH : 1																

NOVEMBER 2002
LA CROSSE, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

LA CROSSE, WI

NOVEMBER 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	0.01	T			0.02	0.04	0.02	0.02	0.01	0.01	0.03	0.01	01	T												01		0.00
02													02													0.00		
03													03													0.00		
04													04													0.00		
05													05													0.16		
06													06													0.00		
07													07													0.00		
08													08													0.00		
09													09													0.01		
10													10													0.33		
11													11										11		0.01			
12													12											12		T		
13													13											13		0.00		
14													14											14		0.00		
15													15											15		0.00		
16													16											16		T		
17													17											17		0.00		
18													18											18		0.00		
19													19											19		0.00		
20													20											20		0.00		
21					0.02	0.02	T	T					21			T									21		0.04	
22													22												22	0.00	T	
23													23												23		0.00	
24													24												24	0.00	T	
25													25												25	0.00	T	
26													26												26	0.00	T	
27													27												27	0.00	T	
28													28												28		0.00	
29													29												29		T	
30	T	T		T	T		T						30										T	T	30		T	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.03	.05	.06	.08	.10	.15	.18	.20	.22	.23	.25	.25
Ending Date	10	10	10	10	10	10	10	10	10	10	10	10
Ending Time (Hour/Min)	1951	1951	1958	1958	2002	1958	2009	2023	2041	2059	2112	2158

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
NOVEMBER 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.

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							8.00	10.00	
04							10.00	10.00	
05							.50	10.00	
06							7.00	10.00	
07							5.00	10.00	
08							10.00	10.00	
09							4.00	10.00	
10							1.50	10.00	
11							4.00	10.00	
12							7.00	10.00	
13							4.00	10.00	
14							9.00	10.00	
15							10.00	10.00	
16							3.00	10.00	
17							7.00	10.00	
18							5.00	10.00	
19							2.50	10.00	
20							10.00	10.00	
21							1.25	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							9.00	10.00	
28							7.00	10.00	
29							7.00	10.00	
30							6.00	10.00	
MONTHLY AVGS							7.10	10.00	

SUNSHINE (MINUTES)

Total:

Possible:

Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR PTLY CLDY CLOUDY MISSING

30

MINIMUM VISIBILITY (MILES)

<=0.25 <=3.0 >=7.0

0 4 20

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

NOVEMBER 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 OF FT	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 OF FT	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: 0641				NOV 01		SUNSET: 1656				SUNRISE: 0649				NOV 07		SUNSET: 1648													
03	CLR	NC			10.00		26	18	23	71	12	30	29.53	30.28	03	CLR	NC			7.00		32	29	31	88	6	18	29.37	30.10
06	CLR	NC			10.00		25	18	23	75	10	28	29.58	30.33	06	CLR	NC			7.00		32	28	31	85	10	17	29.29	30.02
09	FEW	NC			10.00		28	18	25	66	10	28	29.59	30.35	09	CLR	NC			7.00		38	30	35	73	15	19	29.23	29.96
12	CLR	NC			10.00		35	17	29	48	13	28	29.56	30.31	12	CLR	NC			10.00		51	32	43	48	15	17	29.10	29.82
15	SCT	NC			10.00		39	15	31	38	16	29	29.50	30.24	15	CLR	NC			10.00		63	35	49	35	15	21	28.96	29.67
18	FEW	NC			10.00		35	15	28	44	9	27	29.49	30.24	18	CLR	NC			10.00		55	34	45	45	7	16	28.91	29.62
21	CLR	NC			10.00		34	18	29	52	12	29	29.46	30.20	21	CLR	NC			10.00		50	35	43	57	9	16	28.89	29.61
24	CLR	NC			10.00		32	21	28	64	13	28	29.42	30.16	24	CLR	NC			10.00		55	38	47	53	12	20	28.84	29.54
SUNRISE: 0643				NOV 02		SUNSET: 1654				SUNRISE: 0650				NOV 08		SUNSET: 1647													
03	CLR	NC			10.00		31	21	28	67	13	30	29.40	30.14	03	CLR	NC			10.00		52	39	46	61	8	20	28.83	29.52
06	CLR	NC			10.00		29	21	26	72	9	30	29.39	30.14	06	CLR	NC			10.00		47	39	43	74	5	14	28.84	29.54
09	CLR	NC			10.00		33	22	29	64	9	30	29.42	30.16	09	CLR	NC			10.00		49	40	45	71	12	20	28.87	29.57
12	CLR	NC			10.00		40	22	33	49	0	00	29.39	30.13	12	CLR	NC			10.00		56	40	48	55	8	18	28.83	29.52
15	CLR	NC			10.00		46	22	37	38	6	34	29.35	30.08	15	CLR	NC			10.00		58	40	49	51	12	18	28.80	29.49
18	CLR	NC			10.00		36	24	32	62	0	00	29.36	30.10	18	CLR	NC			10.00		47	40	44	77	3	06	28.83	29.54
21	CLR	NC			10.00		30	22	27	72	6	13	29.38	30.12	21	CLR	NC			10.00		45	40	43	83	8	14	28.80	29.50
24	CLR	NC			10.00		26	22	25	84	6	14	29.37	30.11	24	CLR	NC			10.00		40	38	39	93	7	15	28.77	29.47
SUNRISE: 0644				NOV 03		SUNSET: 1653				SUNRISE: 0652				NOV 09		SUNSET: 1646													
03	CLR	NC			10.00		25	22	24	88	7	15	29.34	30.08	03	CLR	NC			10.00		40	38	39	93	8	18	28.74	29.44
06	CLR	NC			10.00		23	21	22	92	5	15	29.33	30.08	06	CLR	NC			9.00		40	38	39	93	7	14	28.71	29.41
09	OVC	055			8.00		31	27	29	85	8	18	29.33	30.07	09	CLR	NC			10.00		48	40	44	74	14	19	28.70	29.40
12	FEW	NC			10.00		41	29	36	62	10	19	29.26	29.99	12	CLR	NC			10.00		57	44	50	62	10	17	28.65	29.35
15	OVC	039			10.00		47	31	40	54	7	27	29.21	29.94	15	CLR	NC			10.00		61	48	54	63	16	19	28.60	29.29
18	CLR	NC			10.00		38	31	35	76	7	22	29.21	29.94	18	BKN	085			10.00		56	49	52	77	9	14	28.60	29.30
21	CLR	NC			10.00		38	27	34	65	14	31	29.26	29.99	21	OVC	110			10.00		54	50	52	87	5	16	28.57	29.27
24	OVC	032			10.00		34	24	30	67	14	33	29.32	30.05	24	OVC	055			4.00	BR	51	50	51	96	0	00	28.54	29.22
SUNRISE: 0645				NOV 04		SUNSET: 1652				SUNRISE: 0653				NOV 10		SUNSET: 1645													
03	OVC	030			10.00		34	22	30	61	9	36	29.36	30.09	03	BKN	017			2.50	BR	50	49	49	96	6	34	28.50	29.19
06	OVC	030			10.00		32	21	28	64	10	34	29.40	30.14	06	OVC	021			8.00		51	47	49	86	12	33	28.57	29.26
09	OVC	028			10.00		33	20	29	59	9	01	29.45	30.19	09	CLR	NC			10.00		50	44	47	80	7	34	28.64	29.33
12	CLR	NC			10.00		37	21	31	52	6	VR	29.43	30.17	12	CLR	NC			10.00		57	43	50	60	5	36	28.68	29.36
15	CLR	NC			10.00		40	21	33	47	0	00	29.38	30.11	15	BKN	110			10.00		52	41	47	66	15	33	28.69	29.38
18	CLR	NC			10.00		32	25	29	75	3	11	29.37	30.12	18	OVC	019			10.00		44	37	41	76	10	29	28.79	29.49
21	CLR	NC			10.00		31	23	28	72	8	12	29.33	30.08	21	OVC	009			8.00	-RA	40	39	40	97	5	32	28.83	29.54
24	CLR	NC			10.00		31	24	28	76	6	12	29.32	30.05	24	OVC	031			5.00	-RA BR	42	40	41	92	5	36	28.88	29.58
SUNRISE: 0647				NOV 05		SUNSET: 1650				SUNRISE: 0654				NOV 11		SUNSET: 1643													
03	BKN	095			10.00		32	25	29	75	3	14	29.26	29.99	03	OVC	034			10.00		40	35	38	83	8	36	28.99	29.70
06	OVC	006			1.25	-SN BR	32	30	31	92	3	14	29.20	29.93	06	OVC	028			10.00		38	32	36	79	12	35	29.09	29.81
09	OVC	006			1.25	-SN BR	33	31	32	92	0	00	29.15	29.89	09	OVC	026			10.00		36	30	34	79	12	35	29.20	29.93
12	OVC	014			2.00	-SN BR	34	31	33	89	0	00	29.09	29.83	12	OVC	021			10.00		36	27	33	70	9	35	29.28	30.01
15	OVC	016			5.00	BR	35	32	34	89	3	35	29.05	29.78	15	OVC	023			10.00		36	26	32	67	3	28	29.35	30.09
18	OVC	015			6.00	BR	36	32	34	86	0	00	29.09	29.82	18	OVC	023			10.00		35	27	32	72	8	30	29.42	30.16
21	OVC	013			6.00	BR	36	32	34	86	5	34	29.11	29.84	21	OVC	027			10.00		34	23	30	64	7	31	29.47	30.21
24	OVC	013			6.00	HZ	37	32	35	82	6	30	29.14	29.87	24	OVC	033			10.00		31	25	29	79	3	23	29.48	30.22
SUNRISE: 0648				NOV 06		SUNSET: 1649				SUNRISE: 0656				NOV 12		SUNSET: 1642													
03	OVC	015			7.00		38	32	36	79	10	30	29.15	29.88	03	FEW	NC			10.00		30	25	28	82	5	26	29.50	30.25
06	OVC	021			10.00		37	31	35	79	10	28	29.20	29.92	06	BKN	036			10.00		28	24	27	85	6	16	29.51	30.26
09	OVC	017			10.00		35	30	33	82	12	28	29.27	29.99	09	CLR	NC			10.00		31	25	29	79	9	19	29.48	30.22
12	SCT	NC			10.00		42	31	37	65	8	24	29.26	29.99	12	CLR	NC			10.00		43	29	37	58	12	22	29.40	30.14
15	OVC	070			10.00		48	33	41	56	5	27	29.25	29.97	15	CLR	NC			10.00		49	32	42	52	9	22	29.32	30.04
18	OVC	039			9.00		43	32	38	65	12	36	29.329																

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

NOVEMBER 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 OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		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		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0657 NOV 13 SUNSET: 1641												SUNRISE: 0705 NOV 19 SUNSET: 1636																	
03	CLR	NC			10.00	BR	31	27	29	85	6	01	29.38	30.12	03	CLR	NC			6.00	BR	30	28	29	92	9	19	29.24	29.97
06	CLR	NC			9.00		28	25	27	88	3	14	29.37	30.11	06	CLR	NC			10.00		30	27	29	88	6	18	29.22	29.95
09	CLR	NC			6.00		33	29	31	85	6	15	29.34	30.07	09	CLR	NC			10.00		37	30	34	76	9	20	29.25	29.98
12	FEW	NC			10.00		42	31	37	65	7	18	29.23	29.96	12	CLR	NC			10.00		50	30	41	46	6	28	29.22	29.94
15	BKN	110			10.00		48	32	41	54	12	18	29.08	29.81	15	CLR	NC			10.00		53	27	42	37	10	29	29.21	29.93
18	OVC	080			10.00	49	32	42	52	8	18	29.03	29.75	18	CLR	NC			10.00	42	27	36	55	3	29	29.27	30.00		
21	CLR	NC			10.00	47	32	40	56	7	25	29.05	29.77	21	CLR	NC			10.00	33	28	31	82	3	15	29.29	30.02		
24	OVC	075			10.00	42	32	38	68	7	24	29.07	29.78	24	CLR	NC			10.00	32	28	31	85	5	18	29.29	30.01		
SUNRISE: 0658 NOV 14 SUNSET: 1640												SUNRISE: 0706 NOV 20 SUNSET: 1635																	
03	OVC	026			10.00	42	32	38	68	9	34	29.12	29.83	03	BKN	110			10.00	32	28	31	85	3	15	29.28	30.00		
06	OVC	022			9.00	36	28	33	73	14	01	29.19	29.91	06	OVC	120			10.00	32	30	31	92	0	00	29.27	30.00		
09	OVC	020			10.00	35	27	32	72	7	36	29.25	29.96	09	FEW	NC			10.00	36	32	34	86	6	18	29.25	29.98		
12	OVC	020			10.00	36	26	32	67	8	01	29.25	29.97	12	BKN	100			10.00	49	32	42	52	5	18	29.20	29.92		
15	OVC	022			10.00	35	26	32	70	9	33	29.26	29.98	15	OVC	075			10.00	51	33	43	50	5	01	29.17	29.89		
18	OVC	028			10.00	34	24	30	67	9	36	29.29	30.01	18	CLR	NC			10.00	42	31	37	65	8	36	29.22	29.95		
21	OVC	032			10.00	31	22	28	69	9	34	29.32	30.05	21	CLR	NC			10.00	37	32	35	82	10	34	29.25	29.98		
24	OVC	032			10.00	27	20	25	75	9	36	29.35	30.10	24	OVC	018			10.00	38	33	36	83	0	00	29.22	29.94		
SUNRISE: 0660 NOV 15 SUNSET: 1639												SUNRISE: 0707 NOV 21 SUNSET: 1634																	
03	OVC	034			10.00	27	20	25	75	7	35	29.37	30.11	03	OVC	017			10.00	36	31	34	82	5	36	29.17	29.89		
06	SCT	NC			10.00	22	18	21	85	8	35	29.41	30.16	06	OVC	015			3.00	-SN BR	33	32	33	96	8	34	29.18	29.91	
09	CLR	NC			10.00	27	21	25	78	3	VR	29.48	30.23	09	OVC	023			10.00		33	29	31	85	10	36	29.25	29.98	
12	FEW	NC			10.00	34	18	29	52	7	06	29.50	30.24	12	OVC	060			10.00		38	27	34	65	9	01	29.28	30.01	
15	SCT	NC			10.00	34	16	28	48	12	02	29.51	30.25	15	OVC	030			10.00		38	28	34	68	10	33	29.30	30.03	
18	OVC	046			10.00	30	17	26	59	7	36	29.55	30.30	18	OVC	055			10.00		37	28	34	70	13	33	29.33	30.07	
21	FEW	NC			10.00	27	15	23	61	3	36	29.58	30.33	21	OVC	046			10.00	36	21	31	55	10	01	29.36	30.10		
24	CLR	NC			10.00	22	15	20	75	6	36	29.58	30.33	24	FEW	NC			10.00	32	21	28	64	9	36	29.38	30.12		
SUNRISE: 0701 NOV 16 SUNSET: 1639												SUNRISE: 0709 NOV 22 SUNSET: 1634																	
03	OVC	050			10.00	-SN	25	19	23	78	7	36	29.58	30.33	03	CLR	NC			10.00	26	18	23	71	7	36	29.41	30.16	
06					10.00		23	18	21	81	0	00	29.58	30.34	06	CLR	NC			10.00	25	16	22	69	7	36	29.44	30.18	
09	OVC	040			3.00		28	22	26	78	0	00	29.59	30.34	09	BKN	032			10.00	30	18	26	61	6	36	29.45	30.19	
12	OVC	021			10.00		32	23	29	69	3	VR	29.56	30.31	12	CLR	NC			10.00	34	18	29	52	5	28	29.41	30.16	
15	OVC	060			10.00		33	22	29	64	7	11	29.51	30.27	15	CLR	NC			10.00	36	20	30	52	5	15	29.36	30.10	
18	OVC	060			10.00	31	23	28	72	0	00	29.50	30.26	18	CLR	NC			10.00	32	22	28	66	5	13	29.31	30.05		
21	OVC	055			10.00	30	24	28	79	0	00	29.50	30.25	21	CLR	NC			10.00	34	22	30	61	10	16	29.25	29.99		
24	OVC	050			10.00	28	24	27	85	0	00	29.46	30.21	24	OVC	070			10.00	36	22	31	57	9	17	29.22	29.94		
SUNRISE: 0702 NOV 17 SUNSET: 1638												SUNRISE: 0710 NOV 23 SUNSET: 1633																	
03	OVC	048			10.00	27	23	26	85	0	00	29.44	30.19	03	OVC	075			10.00	36	23	31	59	7	18	29.16	29.88		
06	CLR	NC			9.00	22	20	21	92	3	11	29.43	30.19	06	CLR	NC			10.00	33	25	30	72	7	26	29.14	29.88		
09	CLR	NC			10.00	27	23	26	85	5	12	29.44	30.19	09	CLR	NC			10.00	40	30	36	68	13	32	29.17	29.90		
12	CLR	NC			10.00	35	16	29	46	8	21	29.38	30.13	12	CLR	NC			10.00	45	26	37	48	12	30	29.18	29.90		
15	CLR	NC			10.00	35	16	29	46	5	14	29.32	30.06	15	SCT	NC			10.00	45	24	37	44	12	31	29.20	29.92		
18	CLR	NC			10.00	34	18	29	52	5	13	29.31	30.05	18	CLR	NC			10.00	38	23	32	55	9	28	29.26	29.99		
21	CLR	NC			10.00	28	19	25	69	6	13	29.31	30.05	21	OVC	050			10.00	38	22	32	53	10	28	29.29	30.01		
24	CLR	NC			10.00	27	18	24	69	5	16	29.31	30.05	24	CLR	NC			10.00	35	19	29	52	13	33	29.33	30.06		
SUNRISE: 0704 NOV 18 SUNSET: 1637												SUNRISE: 0711 NOV 24 SUNSET: 1632																	
03	CLR	NC			10.00	26	19	24	75	8	15	29.28	30.01	03	CLR	NC			10.00	30	16	26	56	10	35	29.40	30.14		
06	CLR	NC			10.00	28	18	25	66	5	13	29.25	29.98	06	OVC	037			10.00	30	16	26	56	18	34	29.44	30.18		
09					10.00	32	22	28	66	5	18	29.25	29.98	09	OVC	110			10.00	27	12	23	53	14	34	29.52	30.26		
12	SCT	NC			10.00	39	25	34	57	8	22	29.24	29.97	12	FEW	NC			10.00	29	14	24	54	12	33	29.52	30.26		
15	CLR	NC			10.00	39	27	34	62	7	19	29.22	29.95	15	BKN	038			10.00	30	13	25	49	13	34	29.50	30.25		
18	OVC	080			9.00	37	30	34	76	5	21	29.25	29.98	18	OVC	041			10.00	29	14	24	54	10	35	29.55	30.29		
21	CLR	NC			7.00	30	27	29	88	3	19	29.27	30.00	21	BKN	042			10.00	26	15	23	63	12	34	29.58	30.33		
24																													

OBSERVATIONS AT 3-HOURLY INTERVALS

LA CROSSE, WI

NOVEMBER 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 OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		DRY BULB	DEW POINT	WET BULB		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		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
					SUNRISE: 0712	NOV 25			SUNSET: 1632																		
03	OVC	034				26	13	22	57	8	33	29.60	30.35														
06	OVC	030				24	13	21	62	12	32	29.61	30.37														
09	OVC	028				25	14	22	63	8	36	29.66	30.42														
12	OVC	032				28	12	23	51	8	35	29.66	30.42														
15	CLR	NC				29	14	24	54	5	34	29.63	30.39														
18	CLR	NC				22	12	19	66	5	03	29.67	30.43														
21	CLR	NC				21	12	19	68	0	00	29.70	30.46														
24	CLR	NC				16	12	15	84	5	02	29.74	30.50														
					SUNRISE: 0713	NOV 26			SUNSET: 1631																		
03	CLR	NC				18	14	17	84	5	36	29.73	30.49														
06	CLR	NC				16	12	15	84	6	36	29.73	30.50														
09	CLR	NC				19	14	18	81	7	35	29.77	30.53														
12	OVC	038				28	18	25	66	8	30	29.75	30.51														
15	OVC	039				29	14	24	54	7	02	29.72	30.48														
18	BKN	043				24	13	21	62	6	36	29.72	30.48														
21	OVC	045				24	14	21	65	8	34	29.72	30.48														
24	CLR	NC				20	14	18	78	0	00	29.70	30.46														
					SUNRISE: 0715	NOV 27			SUNSET: 1631																		
03	SCT	NC				16	12	15	84	5	14	29.69	30.45														
06	OVC	037				21	16	20	81	0	00	29.69	30.45														
09	CLR	NC				22	15	20	75	7	24	29.67	30.43														
12	BKN	030				24	10	20	55	7	28	29.64	30.40														
15	CLR	NC				28	10	23	47	7	28	29.58	30.34														
18	CLR	NC				21	8	18	57	7	23	29.54	30.30														
21	OVC	110				20	10	17	65	6	21	29.56	30.33														
24	OVC	110				24	14	21	65	6	21	29.51	30.27														
					SUNRISE: 0716	NOV 28			SUNSET: 1630																		
03	OVC	029				21	15	19	78	6	17	29.48	30.24														
06	OVC	027				25	18	23	75	9	20	29.43	30.19														
09	OVC	023				27	19	24	72	7	20	29.39	30.15														
12	CLR	NC				34	21	29	59	8	23	29.32	30.07														
15	CLR	NC				38	20	31	48	12	24	29.24	29.97														
18	FEW	NC				34	21	29	59	12	20	29.14	29.87														
21	CLR	NC				37	24	32	60	8	21	28.99	29.72														
24	CLR	NC				39	30	35	70	14	12	28.81	29.54														
					SUNRISE: 0717	NOV 29			SUNSET: 1630																		
03	CLR	NC				45	35	41	68	14	28	28.78	29.49														
06	CLR	NC				42	31	37	65	13	30	28.78	29.49														
09	CLR	NC				43	28	37	56	10	30	28.77	29.48														
12	CLR	NC				45	26	37	48	16	29	28.75	29.46														
15	CLR	NC				47	24	38	41	17	29	28.77	29.47														
18	BKN	080				44	23	36	43	20	30	28.78	29.49														
21	OVC	070				41	27	35	57	23	31	28.80	29.50														
24	OVC	060				30	21	27	69	20	35	28.90	29.63														
					SUNRISE: 0718	NOV 30			SUNSET: 1629																		
03	OVC	040				26	13	22	57	22	34	29.03	29.75														
06						25	10	21	53	24	33	29.14	29.87														
09						23	8	19	53	18	35	29.24	29.97														
12	BKN	046				24	4	19	42	21	35	29.30	30.04														
15	CLR	NC				23	-7	17	26	21	35	29.35	30.11														
18	CLR	NC				19	-5	14	34	10	34	29.43	30.19														
21	CLR	NC				18	-2	14	41	9	28	29.45	30.21														
24	CLR	NC				15	-1	12	49	6	26	29.40	30.16														

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.

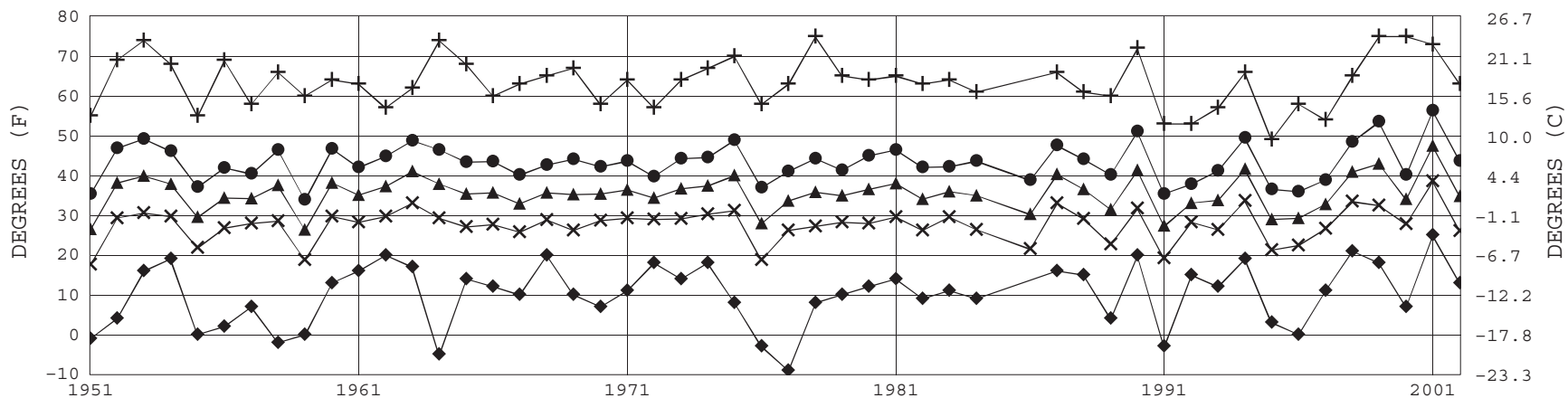
& = Original observation contained additional weather elements.

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			32	25	30	77	29.27	30.00	9.03	8	2	33
02			32	25	29	76	29.27	30.00	9.33	8	2	31
03			32	25	29	76	29.27	30.00	9.35	8	3	32
04			31	25	29	77	29.27	30.00	9.47	8	3	30
05			31	24	28	78	29.28	30.01	8.98	8	3	32
06			30	24	28	78	29.28	30.02	9.11	8	3	32
07			30	24	28	79	29.29	30.02	8.78	9	3	32
08			31	24	29	77	29.30	30.03	9.07	8	2	30
09			33	25	30	73	29.30	30.04	9.07	8	3	29
10			35	25	31	66	29.30	30.04	9.39	9	3	29
11			37	25	33	61	29.30	30.03	9.53	8	3	28
12			39	25	34	57	29.28	30.01	9.70	8	3	27
13			41	25	35	55	29.26	29.99	9.77	9	4	29
14			42	25	35	53	29.25	29.98	9.73	10	5	29
15			41	24	35	52	29.25	29.98	9.83	9	4	29
16			40	25	34	56	29.25	29.98	9.77	9	4	29
17			38	24	33	59	29.26	29.99	9.80	8	4	30
18			37	25	32	62	29.26	30.00	9.80	7	2	30
19			36	24	32	65	29.27	30.01	9.70	7	3	31
20			35	24	31	66	29.27	30.01	9.57	7	3	31
21			34	24	31	68	29.27	30.01	9.70	8	3	30
22			34	25	30	70	29.27	30.00	9.60	7	3	31
23			33	25	30	73	29.27	30.00	9.30	7	2	30
24			32	25	29	75	29.27	30.00	9.17	7	1	30

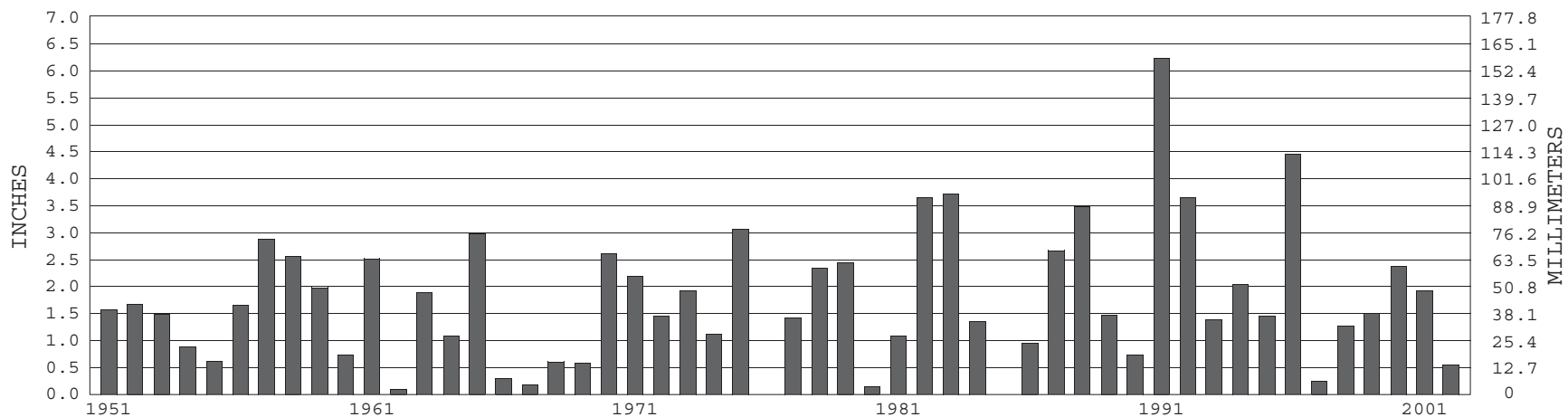
LA CROSSE, WI NOVEMBER TEMPERATURES



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

Long-Term (1951-2002) Mean: 34.8 1961-1990 Normal: 35.5

LA CROSSE, WI NOVEMBER PRECIPITATION



Long-Term (1951-2002) Mean Monthly Total: 1.75

1961-1990 Normal: 2.10



NOVEMBER 2002

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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