



# APRIL 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																												
																			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	74	38	56	14	39	48	9	0	RA	0		0.0	T	28.93	29.63	0.8	15	6.0	17	09	14	04	01																										
02	53	37	45	2	32	38	20	0		0		0.0	0.00	29.11	29.82	13.7	09	13.8	29	10	22	09	02																										
03	37	31	34	-9	30	32	31	0	RA BR	0		0.0	T	29.11	29.84	11.8	09	12.4	30	11	21	11	03																										
04	31	22	27	-17	24	26	38	0	SN FZFG BR UP	0		1.6	0.17	29.14	29.88	9.6	04	10.6	25	03	20	03	04																										
05	34	20	27*	-17	17	24	38	0	SN BR	2		0.3	0.02	29.46	30.21	6.6	35	7.6	17	01	15	32	05																										
06	43	19*	31	-14	19	27	34	0		T		0.0	0.00	29.59	30.34	9.0	10	9.4	29	10	22	10	06																										
07	31	28	30	-15	23	28	35	0	SN FZFG BR	1		4.8	0.25	29.55	30.29	8.4	07	9.4	31	08	24	09	07																										
08	49	23	36	-9	15	29	29	0	RA	4		0.0	T	29.68	30.43	3.7	01	5.2	15	02	12	05	08																										
09	54	23	39	-6	20	32	26	0		0		0.0	0.00	29.57	30.31	6.3	19	7.3	20	21	16	21	09																										
10	65	30	48	2	27	39	17	0		0		0.0	0.00	29.38	30.10	9.1	19	9.9	24	22	21	21	10																										
11	73	37	55	9	31	44	10	0		0		0.0	0.00	29.27	29.97	3.5	33	6.8	16	32	14	32	11																										
12	65	35	50	3	29	42	15	0	RA	0		0.0	T	29.41	30.12	1.5	09	5.5	16	08	14	08	12																										
13	71	39	55	8	33	45	10	0		0		0.0	0.00	29.38	30.08	11.8	18	12.5	28	20	22	20	13																										
14	90*	58	74*	26	47	59	0	9		0		0.0	0.00	29.11	29.79	17.5	20	17.9	43*	21	32*	21	14																										
15	86	53	70	22	51	61	0	5	TSRA RA VCTS	0		0.0	0.01	28.95	29.62	8.1	19	13.3	28	22	21	23	15																										
16	53	34	44	-4	37	39	21	0	TSRA RA BR UP VCTS	0		0.0	0.49	29.14	29.84	12.9	09	13.4	32	09	23	09	16																										
17	41	34	38	-11	32	35	27	0	RA	0		0.0	0.05	29.29	30.02	5.7	06	6.6	20	06	15	09	17																										
18	50	38	44	-5	35	39	21	0	TSRA RA BR VCTS	0		0.0	0.06	29.32	30.04	5.9	10	7.6	25	11	20	11	18																										
19	59	43	51	1	48	49	14	0	RA FG BR HZ VCTS	0		0.0	1.16	29.09	29.80	1.4	11	8.0	38	09	30	09	19																										
20	52	45	49	-1	45	47	16	0	RA BR	0		0.0	0.03	29.01	29.72	8.2	27	9.0	21	28	17	26	20																										
21	58	36	47	-4	36	42	18	0	RA	0		0.0	0.04	29.17	29.88	10.1	36	11.5	31	02	26	36	21																										
22	62	29	46	-5	29	39	19	0	BR	0		0.0	0.00	29.40	30.12	3.1	31	4.6	14	29	13	29	22																										
23	68	33	51	-1	31	43	14	0		0		0.0	0.00	29.37	30.08	4.9	16	7.4	18	22	16	20	23																										
24	65	42	54	2	27	43	11	0		0		0.0	0.00	29.23	29.93	5.9	13	6.8	23	13	18	13	24																										
25	69	37	53	0	35	46	12	0	RA	0		0.0	T	29.16	29.86	3.0	05	5.7	25	02	17	02	25																										
26	70	41	56	3	32	45	9	0		0		0.0	0.00	29.19	29.89	5.5	17	6.5	15	17	13	17	26																										
27	79	55	67	14	43	54	0	2		0		0.0	0.00	29.13	29.82	9.5	23	12.3	31	23	24	21	27																										
28	67	48	58	4	37	48	7	0		0		0.0	0.00	29.26	29.95	8.9	33	9.2	22	32	18	33	28																										
29	64	43	54	0	36	46	11	0	RA	0		0.0	T	29.34	30.04	3.7	34	5.7	15	03	12	04	29																										
30	55	48	52	-3	42	47	13	0	RA BR	0		0.0	0.20	29.17	29.87	6.0	08	6.9	20	07	15	08	30																										
										58.9				36.6		47.8		■ ■		32.7		41.2		17.5		0.5		< MONTHLY AVERAGES		TOTALS->		6.7		2.48		29.26		29.98		2.0		11		9.0		<- MONTHLY AVERAGES			
										-.8		-.5		-.6		■ ■		<-----DEPARTURE FROM NORMAL----->										-.90		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.22 DATE :18-19										SEA LEVEL PRESSURE DATE TIME																													
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 4.8 DATE :07										MAXIMUM : 30.48 08 0853																													
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: 4 DATE :08										MINIMUM : 29.50 15 1853																													
HEATING: 525 4 7061 -39										NUMBER OF DAYS WITH =>										MAXIMUM TEMP ≥ 90: 1										MINIMUM TEMP ≤ 32: 9										PRECIPITATION ≥ 0.01 INCH : 11									
COOLING: 16 8 16 8																				MAXIMUM TEMP ≤ 32 : 2										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 5									
																				THUNDERSTORMS : 3										HEAVY FOG : 0										SNOWFALL ≥ 1.0 INCH : 2									

APRIL 2003  
LA CROSSE, WI

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## LA CROSSE, WI

APRIL 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												T													01			T	
02																										02			0.00
03																										03			T
04																										04	0.11		0.17
05	T	T	T		T	T	T					T	T									T	T	0.01	05	T		0.02	
06																									06			0.00	
07					0.01	0.01	T	T	T	0.01		T													07	0.11		0.25	
08												T													08			T	
09																									09			0.00	
10																									10			0.00	
11																									11			0.00	
12			T	T																					12			T	
13																									13			0.00	
14																									14			0.00	
15																									15		T	0.01	
16																									16			0.49	
17	T	0.07	0.17	0.07	0.01	0.02	0.05	0.03	0.01	T			0.01	T											17			0.05	
18		0.01	0.01	T	0.01	0.01	0.01	T	T																18			0.06	
19	0.22	T	0.01																						19			1.16	
20	0.01	0.01						T	T						0.09	0.18	0.35	0.19	0.01	0.09	0.02				20		0.01	0.03	
21	T	T	0.02	0.01	T			0.01		T	T														21			0.04	
22																									22			0.00	
23																									23			0.00	
24																									24			0.00	
25																									25		T	T	
26																									26			0.00	
27																									27			0.00	
28																									28			0.00	
29																									29		T	T	
30					T	T	0.01	0.05	T	0.07	0.05	0.01				T			0.01	T				30			0.20		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.13	.21	.26	.28	.29	.35	.41	.50	.53	.56	.69	.78
Ending Date	19	19	19	19	19	19	19	19	19	19	19	19
Ending Time (Hour/Min)	1720	1720	1722	1723	1734	1750	1807	1827	1843	1821	1821	1827

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 APRIL 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							4.00	10.00	
04							.50	10.00	
05							2.00	10.00	
06							10.00	10.00	
07							.50	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							9.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							2.50	10.00	
17							10.00	10.00	
18							6.00	10.00	
19							.50	7.00	
20							1.00	10.00	
21							10.00	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							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							5.00	10.00	
<b>MONTHLY AVGS</b>							7.87	9.90	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible:                      Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING									
30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0									
0            5            21									





# OBSERVATIONS AT 3-HOURLY INTERVALS

# LA CROSSE, WI

APRIL 2003

LSE

WBAN # 14920

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING		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: 0506	APR 25	SUNSET: 1859							
03	CLR	NC				10.00		38	34	36	86	3	33	29.15	29.85
06	CLR	NC				10.00		45	33	40	63	0	00	29.19	29.89
09	CLR	NC				10.00		57	31	45	37	9	09	29.20	29.90
12	CLR	NC				10.00		66	31	49	27	10	02	29.16	29.85
15	CLR	NC				10.00		68	33	51	27	8	05	29.12	29.83
18	CLR	NC				10.00		66	34	50	31	7	03	29.12	29.81
21	CLR	NC				10.00		54	41	48	62	3	VR	29.14	29.84
24	CLR	NC				10.00		50	35	43	57	9	13	29.18	29.87
						SUNRISE: 0505	APR 26	SUNSET: 1901							
03	CLR	NC				10.00		43	28	37	56	5	11	29.23	29.92
06	CLR	NC				10.00		42	26	36	53	6	14	29.25	29.95
09	CLR	NC				10.00		51	25	40	36	7	20	29.25	29.95
12	CLR	NC				10.00		60	31	47	33	5	VR	29.21	29.91
15	CLR	NC				10.00		68	35	52	30	5	22	29.16	29.86
18	CLR	NC				10.00		68	36	52	31	8	18	29.13	29.83
21	CLR	NC				10.00		59	39	49	48	5	15	29.14	29.84
24	CLR	NC				10.00		58	39	49	50	10	18	29.15	29.84
						SUNRISE: 0503	APR 27	SUNSET: 1902							
03	CLR	NC				10.00		57	43	50	60	8	19	29.17	29.85
06	CLR	NC				10.00		57	44	50	62	8	18	29.21	29.90
09	CLR	NC				10.00		67	43	54	42	9	18	29.18	29.87
12	FEW	NC				10.00		75	44	58	33	21	24	29.13	29.81
15	OVC	075				10.00		77	46	60	33	17	23	29.07	29.75
18	OVC	070				10.00		75	50	61	42	9	24	29.05	29.73
21	SCT	NC				10.00		65	40	52	40	9	32	29.11	29.79
24	CLR	NC				10.00		59	36	48	42	7	31	29.15	29.83
						SUNRISE: 0502	APR 28	SUNSET: 1903							
03	CLR	NC				10.00		54	43	49	67	3	33	29.20	29.88
06	CLR	NC				10.00		54	35	45	49	9	33	29.24	29.92
09	CLR	NC				10.00		58	36	47	44	12	30	29.27	29.96
12	CLR	NC				10.00		64	36	50	35	10	35	29.27	29.96
15	CLR	NC				10.00		66	35	51	32	16	33	29.25	29.94
18	CLR	NC				10.00		63	35	49	35	10	33	29.25	29.94
21	CLR	NC				10.00		54	38	46	55	9	32	29.30	30.00
24	CLR	NC				10.00		49	37	43	64	7	33	29.35	30.06
						SUNRISE: 0500	APR 29	SUNSET: 1904							
03	CLR	NC				10.00		45	34	40	66	7	35	29.36	30.07
06	FEW	NC				10.00		47	35	42	63	3	05	29.37	30.08
09	CLR	NC				10.00		54	37	46	53	6	30	29.38	30.09
12	CLR	NC				10.00		61	35	49	38	7	28	29.37	30.08
15	BKN	095				10.00		63	33	49	33	6	32	29.32	30.02
18	BKN	090				10.00		61	35	49	38	5	31	29.28	29.98
21	OVC	090				10.00		57	37	47	47	8	35	29.30	29.99
24	OVC	090				10.00		55	36	46	49	9	06	29.27	29.96
						SUNRISE: 0459	APR 30	SUNSET: 1905							
03	OVC	080				10.00		54	36	46	51	5	02	29.24	29.94
06	OVC	065				10.00		52	39	46	61	7	12	29.23	29.93
09	BKN	075				10.00	-RA	50	44	47	80	7	09	29.23	29.93
12	OVC	014				10.00		50	46	48	86	7	VR	29.15	29.85
15	OVC	024				10.00		53	47	50	80	7	13	29.13	29.83
18	OVC	019				10.00		53	48	50	83	10	07	29.08	29.78
21	SCT	NC				10.00		51	45	48	80	7	05	29.07	29.78
24	SCT	NC				10.00		49	42	46	77	5	05	29.06	29.77

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT OKtas	VISIBILITY (MILES)	WEATHER	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
						SUNRISE: APR 31	SUNSET:							

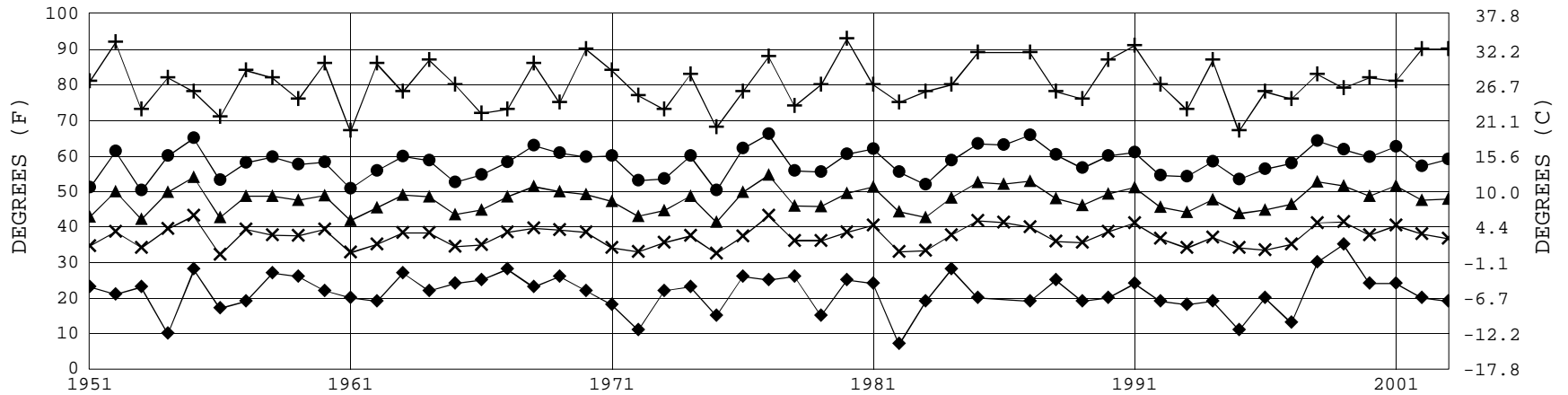
### 3-HOURLY OBSERVATION NOTES

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)	DIRECTION	
01			43	33	38	68	29.25	29.96	9.25	8	4	12
02			42	32	38	70	29.25	29.96	9.57	7	3	13
03			41	32	37	72	29.25	29.97	9.43	7	3	10
04			40	32	37	73	29.26	29.97	9.70	8	3	12
05			40	32	36	75	29.27	29.98	9.43	7	3	11
06			40	31	36	73	29.28	30.00	9.42	8	4	12
07			41	32	37	71	29.29	30.01	9.26	8	3	12
08			44	32	39	66	29.29	30.01	9.45	8	3	11
09			47	33	40	61	29.29	30.01	9.26	9	2	9
10			50	33	42	57	29.30	30.01	9.12	9	1	10
11			52	33	44	53	29.29	30.00	9.32	11	1	14
12			54	33	44	50	29.27	29.99	9.33	10	1	13
13			56	33	45	48	29.26	29.98	9.38	12	1	10
14			57	33	46	47	29.25	29.96	9.14	10	0	0
15			57	33	46	47	29.24	29.95	9.36	11	1	16
16			57	32	45	45	29.23	29.94	9.14	11	1	19
17			56	33	45	47	29.23	29.94	9.12	11	1	20
18			55	33	44	50	29.23	29.94	9.02	9	2	12
19			52	33	43	54	29.23	29.95	9.41	8	2	11
20			50	33	42	56	29.25	29.96	9.38	7	3	9
21			48	34	41	62	29.26	29.97	9.25	7	2	7
22			46	33	40	64	29.26	29.97	9.40	7	2	9
23			45	33	40	65	29.27	29.98	9.50	7	3	10
24			44	33	39	68	29.27	29.98	9.18	8	3	9

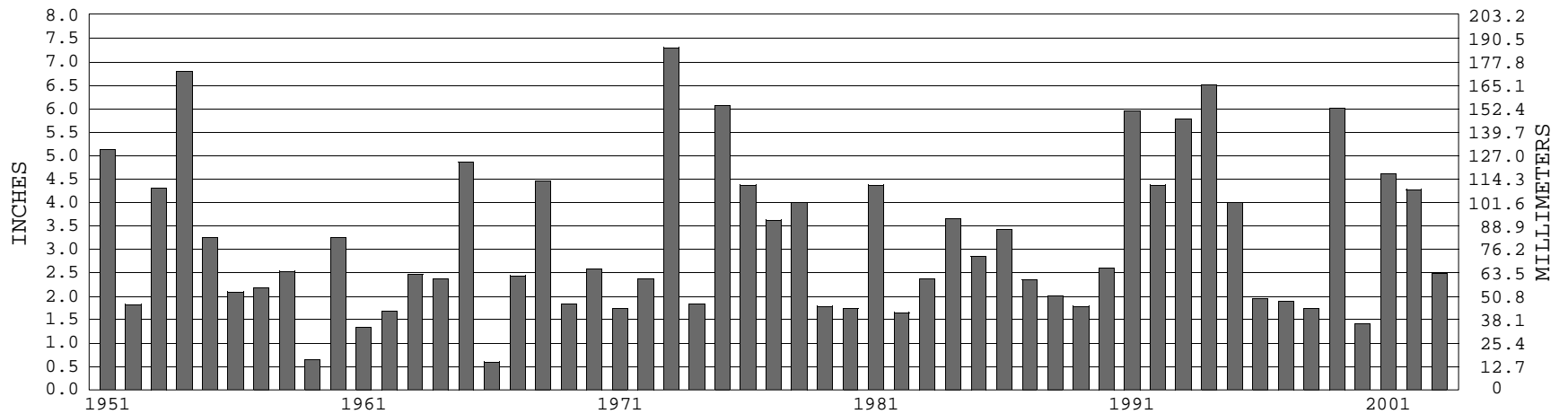
### LA CROSSE, WI APRIL TEMPERATURES



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

Long-Term (1951-2003) Mean: 47.7      1961-1990 Normal: 48.4

### LA CROSSE, WI APRIL PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 3.20

1961-1990 Normal: 3.38



APRIL 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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