



APRIL 2002

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

## GREEN BAY, WI

AUSTIN STRAUBEL FIELD (GRB)

Lat: 44°30' N Long: 88°07' W Elev (Ground): 682 Feet

Time Zone: CENTRAL WBAN: 14898 ISSN #:0198-5698

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	37	26	32	-6	24	29	33	0	SN BR	0		0.8	0.05	29.22	30.00	2.6	22	6.7	16	18	14	17	01					
02	33	24	29	-9	29	30	36	0	SN FG BR	1		1.4	0.13	29.15	29.92	10.3	03	11.5	33	04	28	04	02					
03	36	22	29	-10	23	28	36	0	SN BR	1		T	T	29.49	30.28	7.4	32	8.8	21	31	18	30	03					
04	34	24	29*	-10	18	26	36	0		T		0.0	0.00	29.66	30.45	6.5	30	8.0	16	29	14	28	04					
05	38	26	32	-8	20	27	33	0		0		0.0	0.00	29.60	30.39	7.6	31	8.8	25	34	20	36	05					
06	42	22*	32	-8	23	29	33	0		0		0.0	0.00	29.57	30.36	6.7	16	9.4	25	16	22	15	06					
07	44	32	38	-3	34	37	27	0	RA SN FG BR UP HZ	1		1.2	0.16	29.16	29.93	12.9	19	13.2	24	20	21	17	07					
08	47	40	44	3	42	43	21	0	RA FG+ BR	0		0.0	0.29	29.10	29.86	4.3	04	6.8	22	02	18	01	08					
09	51	33	42	1	33	38	23	0	BR	0		0.0	0.00	29.44	30.21	4.6	33	9.3	23	01	21	01	09					
10	60	32	46	4	39	44	19	0	BR HZ	0		0.0	0.00	29.52	30.30	8.8	17	10.1	22	19	17	15	10					
11	68	48	58	16	47	51	7	0	RA	0		0.0	T	29.23	29.99	10.5	18	12.0	25	29	21	27	11					
12	62	42	52	9	47	49	13	0	RA BR	0		0.0	0.15	29.30	30.06	3.1	30	6.6	18	31	15	31	12					
13	63	36	50	7	40	45	15	0	FG+ BR	0		0.0	0.00	29.36	30.12	3.4	14	4.0	17	12	14	15	13					
14	69	42	56	12	48	52	9	0	RA BR HZ	0		0.0	T	28.98	29.73	10.3	19	10.5	28	20	21	19	14					
15	84*	48	66	22	56	60	0	1	BR HZ	0		0.0	0.00	28.94	29.69	8.9	19	9.1	30	19	25	20	15					
16	83	62	73*	29	61	66	0	8	HZ	0		0.0	0.00	29.01	29.74	14.4	20	14.6	31	19	25	20	16					
17	76	50	63	18	50	58	2	0	RA	0		0.0	T	29.17	29.92	9.8	25	11.7	36	23	28	24	17					
18	78	50	64	19	54	58	1	0	TS TSRA RA BR HZ	0		0.0	0.43	29.04	29.79	8.2	17	13.0	43*	19	32	21	18					
19	65	39	52	6	41	45	13	0		0		0.0	0.00	29.30	30.06	5.7	36	12.5	32	28	28	28	19					
20	48	33	41	-5	28	35	24	0		0		0.0	0.00	29.46	30.24	10.6	06	11.8	25	05	22	04	20					
21	40	32	36	-11	29	32	29	0	SN FG+ BR	0		3.8	0.21	29.30	30.08	14.6	06	14.9	31	07	26	08	21					
22	44	30	37	-10	28	33	28	0	SN BR	4		0.3	0.02	29.33	30.11	3.6	31	6.8	15	25	13	26	22					
23	54	28	41	-6	31	37	24	0	BR HZ	0		0.0	0.00	29.36	30.14	6.5	17	7.2	21	14	18	14	23					
24	68	37	53	5	43	47	12	0	TSRA RA BR HZ SQ	0		0.0	0.47	29.04	29.80	9.4	24	16.2	40	27	31	29	24					
25	46	34	40	-8	25	34	25	0	SN	0		T	T	29.26	30.03	16.1	28	16.7	38	28	32*	28	25					
26	51	30	41	-8	24	34	24	0		0		0.0	0.00	29.51	30.29	5.2	27	7.5	22	28	14	26	26					
27	43	35	39	-10	31	36	26	0	RA BR	0		T	0.43	29.31	30.09	13.6	08	14.3	33	06	28	07	27					
28	41	35	38	-12	34	37	27	0	TSRA RA SN BR	0		T	0.68	29.02	29.78	15.0	03	16.6	38	02	31	07	28					
29	57	37	47	-3	38	42	18	0	RA BR	0		0.0	T	29.10	29.86	6.6	24	8.6	29	27	23	26	29					
30	58	38	48	-2	33	42	17	0		0		0.0	0.00	29.08	29.84	8.9	29	10.7	28	33	23	29	30					
54.0 35.6 44.8 ■■										35.8 40.8 20.4 0.3		< MONTHLY AVERAGES TOTALS->			7.5	3.02	29.27	30.04	1.3	23	10.6	<- MONTHLY AVERAGES						
-.6 1.7 0.6 ■■										<-----DEPARTURE FROM NORMAL----->										0.46	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.11			DATE :27-28			SEA LEVEL PRESSURE			DATE TIME										
MONTHLY TOTAL DEPARTURE 611 -19									GREATEST 24-HR SNOWFALL: 3.8			DATE :21			MAXIMUM : 30.49			06 0656										
SEASON TO DATE TOTAL DEPARTURE 6554 -1124									GREATEST SNOW DEPTH: 4			DATE : 22			MINIMUM : 29.52			28 0356										
HEATING: 611 -19									NUMBER OF DAYS WITH → MAXIMUM TEMP ≥ 90: 0			MINIMUM TEMP ≤ 32 : 12			PRECIPITATION ≥ 0.01 INCH : 11													
COOLING: 9 6									MAXIMUM TEMP ≤ 32 : 0			MINIMUM TEMP ≤ 0 : 0			PRECIPITATION ≥ 0.10 INCH : 9													
									THUNDERSTORMS : 3			HEAVY FOG : 3			SNOWFALL ≥ 1.0 INCH : 3													

APRIL 2002  
GREEN BAY, WI

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

GREEN BAY, WI

APRIL 2002

GRB

WBAN # 14898

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	0.02	0.05		
02	T	0.01	T	T	T	T	0.01	0.01	0.01	T	T	T	02	0.01	T	T	T	T	T	T	T	0.02	T	T	02	0.05	0.13		
03													03	T			T		T	T					03		T		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07		T	0.02	0.08	0.06	0.01	T	T	T	T			07	T			0.03	0.09	0.06	0.01			T	0.01	07	0.18	0.16		
08	0.02	0.01	0.01										08	0.02	0.03	0.01	0.03	0.09	0.06	0.01	T				08		0.29		
09													09												09		0.00		
10													10												10		0.00		
11				T	T								11											T	T	11		T	
12	0.04	0.03	T	0.07	0.01								12												12		0.15		
13													13												13		0.00		
14													14		T		T	T							14		T		
15													15												15		0.00		
16													16												16		0.00		
17			T	T	T								17				T	0.01							17		T		
18			T	0.05	0.18	0.08	0.10	T					18								T	0.01			18		0.43		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.21		
22	T	T	T	0.01	T	T	T						22		T	0.01	0.04	0.07	0.02	0.02	T	T	0.02	0.01	0.01	22	0.20	0.02	
23													23												23		0.00		
24													24		0.02	0.18	0.15	0.10	0.02	T					24		0.47		
25													25												25		T		
26													26												26		0.00		
27													27			T	0.05	0.06	0.05	0.03	0.08	0.06	0.04	0.05	0.01	27		0.43	
28	T	0.13	0.09	0.21	0.10	0.06	0.01	0.01	T	T	T		28												28	0.61	0.68		
29						T		T	T				29						T	T	T				29		T		
30													30												30		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)	.08	.09	.10	.11	.14	.19	.24	.28	.31	.34	.40	.45
Ending Date	24	24	24	24	28	28	28	24	24	28	28	28
Ending Time (Hour/Min)	1521	1521	1521	1448	0331	0343	0347	1521	1521	0445	0347	0418

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		
DESCRIPTOR	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			

## GREEN BAY, WI APRIL 2002

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	485	63					1.00	10.00	
02	0	0					.50	10.00	
03	348	45					1.00	10.00	
04	393	51					10.00	10.00	
05	551	71					9.00	10.00	
06	741	95					9.00	10.00	
07	0	0					.50	9.00	
08	0	0					.25	8.00	
09	730	92					6.00	10.00	
10	730	92					4.00	10.00	
11	273	34					7.00	10.00	
12	534	67					5.00	10.00	
13	780	97					.25	10.00	
14	379	47					3.00	10.00	
15	661	82					1.75	10.00	
16	668	82					6.00	10.00	
17	687	84					8.00	10.00	
18	373	46					1.75	10.00	
19	581	71					9.00	10.00	
20	822	100					10.00	10.00	
21	118	14					.25	10.00	
22	357	43					1.50	10.00	
23	675	81					4.00	10.00	
24	246	29					1.00	10.00	
25	726	87					1.75	10.00	
26	742	88					9.00	10.00	
27	18	2					1.75	10.00	
28	90	11					2.50	10.00	
29	333	39					5.00	10.00	
30	382	45					10.00	10.00	
MONTHLY AVGS							4.90	9.90	
SUNSHINE (MINUTES) Total: 13423    Possible: 24256 Percent Possible: 55									
NUMBER OF DAYS WITH: SKY CONDITION CLR   PTLY CLDY   CLOUDY   MISSING 30 MINIMUM VISIBILITY (MILES) <=0.25      <=3.0      >=7.0 3            13          11									

## OBSERVATIONS AT 3-HOURLY INTERVALS

GREEN BAY, WI

APRIL 2002

GRB

WBAN # 14898

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: 0534					APR 01	SUNSET: 1819					SUNRISE: 0523					APR 07	SUNSET: 1826													
03	CLR	NC			10.00	28	22	26	78	8	29	29.22	29.99	03	OVC	014			1.50	-SN	BR	34	30	32	85	18	19	29.29	30.06	
06	CLR	NC			10.00	26	22	25	84	3	30	29.26	30.03	06	OVC	036			2.50	UP	BR	34	31	33	89	18	17	29.20	29.98	
09	CLR	NC			10.00	32	16	27	52	0	00	29.27	30.04	09	OVC	005			1.75	-RA	BR	34	32	33	92	14	18	29.16	29.94	
12	CLR	NC			10.00	35	22	30	59	9	19	29.25	30.02	12	OVC	011			4.00	HZ		38	32	36	79	15	19	29.13	29.90	
15	CLR	NC			10.00	36	22	31	57	8	22	29.19	29.97	15	OVC	009			3.00	HZ		42	32	38	68	14	20	29.09	29.85	
18	OVC	028			3.00	-SN	32	28	31	85	14	17	29.22	30.00	18	OVC	017			3.00	BR		44	41	43	89	13	19	29.09	29.86
21	OVC	012			1.25	-SN	30	29	30	96	7	13	29.22	29.99	21	OVC	008			3.00	BR		43	40	42	89	10	19	29.12	29.89
24	OVC	046			3.00	-SN	30	28	29	92	5	07	29.17	29.94	24	OVC	006			2.50	-RA	BR	42	39	41	89	6	20	29.11	29.88
SUNRISE: 0532					APR 02	SUNSET: 1820					SUNRISE: 0521					APR 08	SUNSET: 1827													
03	OVC	008			5.00	BR	32	30	31	92	7	07	29.13	29.90	03	OVC	004			1.50	BR		42	42	42	100	5	19	29.09	29.85
06	OVC	006			5.00	BR	32	31	32	96	9	06	29.08	29.86	06	OVC	002			0.25	FG		42	42	42	100	3	19	29.11	29.88
09	OVC	004			0.75	-SN	32	31	32	96	12	04	29.05	29.83	09	OVC	002			0.50	FG		45	44	45	97	5	15	29.10	29.86
12	OVC	010			0.50	SN	32	30	31	92	23	04	29.07	29.85	12	OVC	006			3.00	BR		47	45	46	93	6	02	29.08	29.85
15	OVC	033			2.00	-SN	32	29	31	88	22	03	29.09	29.87	15	OVC	004			2.50	-RA	BR	44	43	44	96	8	04	29.07	29.83
18	OVC	010			2.50	-SN	31	29	30	92	10	03	29.20	29.98	18	OVC	004			3.00	-RA	BR	41	40	41	96	13	04	29.08	29.85
21	SCT	NC			10.00		30	27	29	88	6	34	29.27	30.05	21	OVC	002			1.25	BR		41	41	41	100	8	01	29.11	29.88
24	CLR	NC			7.00		24	24	24	100	3	31	29.30	30.08	24	OVC	006			8.00			40	38	39	93	14	01	29.16	29.92
SUNRISE: 0530					APR 03	SUNSET: 1821					SUNRISE: 0519					APR 09	SUNSET: 1828													
03	CLR	NC			7.00		24	23	24	96	7	28	29.34	30.12	03	OVC	014			10.00			38	34	36	86	16	36	29.23	30.00
06	SCT	NC			9.00		24	22	23	91	8	28	29.40	30.19	06	OVC	055			10.00			37	32	35	82	9	35	29.33	30.11
09	OVC	055			10.00	-SN	30	24	28	79	10	33	29.46	30.25	09	OVC	044			10.00			41	30	37	65	13	33	29.44	30.22
12	OVC	042			8.00		33	27	31	78	7	28	29.49	30.28	12	OVC	039			10.00			46	33	40	61	10	30	29.48	30.26
15	OVC	070			10.00		34	24	30	67	7	28	29.52	30.31	15	FEW	NC			10.00			49	32	42	52	10	28	29.49	30.27
18	OVC	065			10.00		33	23	29	67	12	30	29.56	30.35	18	CLR	NC			10.00			50	34	43	54	5	21	29.52	30.29
21	OVC	065			10.00		31	24	28	76	10	01	29.61	30.40	21	CLR	NC			10.00			36	33	35	89	8	15	29.57	30.35
24	OVC	060			10.00		29	18	25	64	10	01	29.64	30.43	24	CLR	NC			6.00	BR		33	32	33	96	5	18	29.59	30.37
SUNRISE: 0528					APR 04	SUNSET: 1822					SUNRISE: 0517					APR 10	SUNSET: 1830													
03	FEW	NC			10.00		25	16	22	69	7	34	29.66	30.45	03	OVC	100			5.00	BR		36	34	35	93	8	18	29.59	30.36
06	CLR	NC			10.00		24	17	22	75	5	28	29.68	30.47	06	OVC	090			4.00	BR		39	37	38	93	5	19	29.60	30.38
09	CLR	NC			10.00		31	18	27	59	6	36	29.70	30.49	09	BKN	110			5.00	HZ		50	42	46	74	12	20	29.60	30.38
12	OVC	049			10.00		33	16	27	49	3	VR	29.68	30.47	12	FEW	NC			7.00			56	44	50	65	14	21	29.56	30.33
15	OVC	050			10.00		34	19	29	54	8	31	29.64	30.43	15	BKN	090			5.00	HZ		56	45	50	67	16	14	29.48	30.25
18	OVC	060			10.00		32	19	28	59	9	26	29.63	30.42	18	OVC	100			5.00	HZ		51	42	47	71	13	15	29.45	30.22
21	OVC	060			10.00		30	19	26	64	12	28	29.64	30.42	21	BKN	110			10.00			50	36	44	59	8	13	29.45	30.22
24	OVC	060			10.00		29	22	27	75	9	28	29.62	30.41	24	BKN	110			10.00			50	41	46	71	10	16	29.41	30.18
SUNRISE: 0526					APR 05	SUNSET: 1824					SUNRISE: 0516					APR 11	SUNSET: 1831													
03	BKN	060			10.00		27	21	25	78	6	28	29.60	30.39	03	OVC	100			10.00			50	41	46	71	13	17	29.35	30.12
06	OVC	055			10.00		27	19	24	72	8	28	29.62	30.41	06	OVC	100			7.00			48	41	45	77	12	17	29.32	30.09
09	FEW	NC			10.00		31	18	27	59	14	30	29.62	30.40	09	SCT	NC			8.00			52	43	48	72	14	17	29.30	30.06
12	OVC	060			10.00		34	19	29	54	9	29	29.59	30.38	12	CLR	NC			9.00			62	45	53	54	12	19	29.24	29.99
15	BKN	060			9.00		36	20	30	52	13	30	29.57	30.35	15	CLR	NC			9.00			63	49	55	60	15	16	29.17	29.92
18	CLR	NC			10.00		33	21	29	61	9	02	29.59	30.38	18	CLR	NC			8.00			60	50	55	70	9	16	29.12	29.87
21	FEW	NC			10.00		30	23	28	75	5	32	29.62	30.41	21	BKN	085			10.00			64	50	56	61	13	20	29.11	29.86
24	CLR	NC			10.00		27	23	26	85	3	36	29.63	30.42	24	OVC	070			10.00			57	54	55	90	6	25	29.15	29.90
SUNRISE: 0525					APR 06	SUNSET: 1825					SUNRISE: 0514					APR 12	SUNSET: 1832													
03	CLR	NC			10.00		25	22	24	88	3	36	29.66	30.45	03	OVC	008			8.00			55	54	54	96	7	29	29.15	29.90
06	CLR	NC			10.00		23	19	22	85	5	01	29.69	30.48	06	OVC	010			10.00			51	49	50	92	7	33	29.22	29.98
09	CLR	NC			10.00		32	19	28	59	0	00	29.69	30.48	09	OVC	014			10.00			49	46	47	90	10	32	29.30	30.06
12	CLR	NC			10.00		37	18	30	46	3	VR	29.65	30.43	12	BKN	0													

## OBSERVATIONS AT 3-HOURLY INTERVALS

GREEN BAY, WI

APRIL 2002

GRB

WBAN # 14898

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 <i>Okta</i>		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 <i>Okta</i>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0512						APR 13						SUNSET: 1833						SUNRISE: 0502						APR 19						SUNSET: 1841					
03	CLR	NC			0.50 FG	38	38	38	100	0	00	29.41	30.18	03	OVC	017			9.00				55	50	52	83	18	31	29.07	29.82					
06	SCT	NC			1.75 BR	37	37	37	100	0	00	29.43	30.20	06	BKN	017			10.00				48	43	46	83	14	34	29.23	29.98					
09	CLR	NC			10.00	55	41	48	59	5	VR	29.45	30.22	09	OVC	029			10.00				54	43	49	67	8	34	29.30	30.06					
12	CLR	NC			10.00	61	42	51	50	5	VR	29.39	30.16	12	BKN	033			10.00				54	42	48	64	9	33	29.33	30.10					
15	CLR	NC			10.00	63	41	52	45	6	18	29.34	30.10	15	OVC	041			10.00				53	41	47	64	9	06	29.36	30.12					
18	CLR	NC			10.00	57	41	49	55	8	14	29.30	30.06	18	CLR	NC			10.00				45	38	42	77	12	10	29.38	30.15					
21	CLR	NC			10.00	46	39	43	77	8	15	29.28	30.03	21	CLR	NC			10.00				39	32	36	76	8	07	29.41	30.18					
24	FEW	NC			10.00	43	39	41	86	0	00	29.22	29.98	24	BKN	120			10.00				39	33	37	79	14	03	29.44	30.22					
SUNRISE: 0510						APR 14						SUNSET: 1835						SUNRISE: 0500						APR 20						SUNSET: 1842					
03	OVC	090			10.00	45	39	42	80	7	20	29.16	29.92	03	OVC	120			10.00				37	27	33	67	13	05	29.47	30.24					
06	SCT	NC			3.00 BR	48	44	46	86	8	19	29.09	29.85	06	CLR	NC			10.00				34	28	32	79	8	01	29.48	30.26					
09	SCT	NC			4.00 HZ	57	50	53	78	10	18	29.02	29.78	09	CLR	NC			10.00				41	30	37	65	14	07	29.49	30.27					
12	BKN	110			7.00	63	48	55	58	16	20	28.95	29.71	12	FEW	NC			10.00				45	31	39	58	12	04	29.49	30.27					
15	SCT	NC			9.00	69	53	60	57	20	17	28.84	29.59	15	FEW	NC			10.00				48	29	40	48	8	05	29.43	30.20					
18	BKN	070			7.00	62	54	57	75	14	18	28.84	29.60	18	CLR	NC			10.00				42	28	36	58	12	11	29.42	30.20					
21	BKN	055			6.00 HZ	57	52	54	83	6	19	28.87	29.63	21	CLR	NC			10.00				36	26	32	67	16	08	29.47	30.25					
24	CLR	NC			4.00 BR	51	50	51	96	5	21	28.87	29.63	24	CLR	NC			10.00				35	24	31	64	16	06	29.45	30.23					
SUNRISE: 0509						APR 15						SUNSET: 1836						SUNRISE: 0459						APR 21						SUNSET: 1843					
03	CLR	NC			2.50 BR	49	49	49	100	3	17	28.89	29.64	03	CLR	NC			10.00				34	25	31	70	17	06	29.41	30.19					
06	CLR	NC			2.50 BR	52	51	52	97	5	20	28.96	29.71	06	FEW	NC			10.00				35	27	32	72	15	07	29.40	30.18					
09	CLR	NC			6.00 HZ	67	57	61	71	7	17	28.98	29.72	09	OVC	095			10.00				38	27	34	65	18	08	29.35	30.13					
12	CLR	NC			10.00	78	57	65	48	16	17	28.93	29.68	12	OVC	070			10.00				38	27	34	65	16	08	29.27	30.04					
15	CLR	NC			10.00	81	61	68	51	22	19	28.91	29.65	15	VV	005			0.25 SN FG				32	31	32	96	16	05	29.23	30.01					
18	CLR	NC			10.00	79	58	66	49	10	20	28.91	29.66	18	OVC	005			0.50 SN FG				32	32	32	100	14	06	29.21	29.98					
21	CLR	NC			10.00	66	57	61	73	8	19	28.97	29.71	21	OVC	011			4.00 -SN BR				33	32	33	96	13	06	29.22	29.99					
24	CLR	NC			10.00	62	55	58	78	7	18	29.00	29.74	24	OVC	017			2.50 -SN BR				32	31	32	96	7	07	29.21	29.98					
SUNRISE: 0507						APR 16						SUNSET: 1837						SUNRISE: 0457						APR 22						SUNSET: 1845					
03	CLR	NC			9.00	68	61	64	78	13	21	29.02	29.76	03	OVC	025			5.00 -SN BR				31	28	30	89	7	03	29.22	29.99					
06	CLR	NC			6.00 HZ	67	60	63	79	12	20	29.04	29.78	06	OVC	036			3.00 -SN BR				30	28	29	92	8	34	29.29	30.06					
09	CLR	NC			9.00	73	61	66	66	16	21	29.06	29.80	09	BKN	014			10.00				33	28	31	82	8	36	29.32	30.10					
12	FEW	NC			8.00	80	64	70	58	18	22	29.03	29.77	12	BKN	039			10.00				37	26	33	65	5	01	29.35	30.13					
15	CLR	NC			10.00	83	62	69	49	23	20	28.97	29.71	15	SCT	NC			10.00				43	28	37	56	7	30	29.35	30.13					
18	CLR	NC			10.00	81	62	69	53	15	19	28.95	29.70	18	CLR	NC			10.00				42	28	36	58	10	25	29.35	30.14					
21	CLR	NC			10.00	74	60	65	62	10	19	28.96	29.70	21	CLR	NC			10.00				36	30	34	79	6	24	29.39	30.17					
24	CLR	NC			10.00	72	58	63	61	13	20	28.99	29.73	24	CLR	NC			10.00				33	29	31	85	6	24	29.40	30.18					
SUNRISE: 0505						APR 17						SUNSET: 1838						SUNRISE: 0455						APR 23						SUNSET: 1846					
03	FEW	NC			10.00 -RA	70	59	63	68	20	23	29.03	29.77	03	CLR	NC			9.00				31	29	30	92	0	00	29.42	30.20					
06	OVC	049			8.00	66	60	62	81	10	22	29.08	29.82	06	CLR	NC			4.00 BR				30	28	29	92	0	00	29.43	30.22					
09	CLR	NC			10.00	71	54	61	55	20	26	29.15	29.89	09	CLR	NC			10.00				43	29	37	58	9	18	29.41	30.19					
12	CLR	NC			10.00	74	47	59	38	15	27	29.18	29.92	12	OVC	050			10.00				46	29	39	51	10	20	29.39	30.17					
15	CLR	NC			10.00	76	47	60	36	13	29	29.22	29.96	15	SCT	NC			9.00				53	37	46	55	12	17	29.34	30.12					
18	CLR	NC			10.00	69	44	56	41	9	30	29.25	29.99	18	CLR	NC			8.00				47	35	42	63	12	14	29.29	30.06					
21	CLR	NC			10.00	58	42	50	56	0	00	29.29	30.03	21	CLR	NC			6.00 HZ				39	31	36	73	6	17	29.30	30.07					
24	CLR	NC			10.00	50	46	48	86	6	05	29.29	30.04	24	CLR	NC			6.00 HZ				41	33	38	74	9	18	29.25	30.01					
SUNRISE: 0504						APR 18						SUNSET: 1840						SUNRISE: 0454						APR 24						SUNSET: 1847					
03	OVC	070			10.00 -RA	54	41	48	62	10	03	29.29	30.04	03	CLR	NC			6.00 HZ				45	38	42	77	12	16	29.17	29.93					
06	OVC	030			1.75 +TSRA BR	50	49	49	96	0	00	29.26	30.01	06	CLR	NC			5.00 HZ				48	41	45	77	14	17	29.08	29.84					
09	CLR	NC			10.00	58	52	55	81	18	12	29.10	29.85	09	SCT	NC			7.00				59	50	54	72	20	19	29.01	29.77					
12	CLR	NC			5.00 HZ	67	60	63	79	10	14	29.00	29.75	12	BKN	070			9.00				68	56	61	66	18	20	28.91	29.66					
15	CLR	NC			10.00	76	55	63	48	13	20	28.91	29.65	15	OVC	023			2.50 TSRA BR				59	57	58	93	10	22	28.87	29.63					
18	CLR	NC			10.00	70	57	62	64	24	17	28.83	29.57	18	OVC	029			10.00			-RA	46	41	44	83	17	29	29.00	29.76					
21	FEW	NC			10.00	66	61	63	84	15	21	28.90	29.65	21	OVC	041			10.00				42	32	38	68	22	31	29.11	29.87					
24	CLR	NC			10.00	64	58	60	81	13	25	28.95	29.69	24	CLR	NC			10.00				37	24	32	60	21	30	29.19	29.95					

## OBSERVATIONS AT 3-HOURLY INTERVALS

GREEN BAY, WI

APRIL 2002

GRB

WBAN # 14898

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)	
				OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0452 APR 25 SUNSET: 1848															
03	CLR	NC				10.00		35	23	31	61	17	27	29.19	29.95
06	OVC	075				10.00		34	25	31	70	9	22	29.17	29.93
09	BKN	045				9.00		38	27	34	65	28	30	29.19	29.96
12	SCT	NC				10.00		40	25	34	55	21	29	29.25	30.02
15	FEW	NC				10.00		45	27	38	49	28	28	29.27	30.03
18	FEW	NC				10.00		43	25	36	49	15	28	29.30	30.07
21	CLR	NC				10.00		37	25	32	62	9	29	29.37	30.15
24	CLR	NC				10.00		34	24	30	67	8	29	29.41	30.19
SUNRISE: 0451 APR 26 SUNSET: 1849															
03	CLR	NC				10.00		32	22	28	66	9	31	29.47	30.25
06	CLR	NC				10.00		32	22	28	66	7	31	29.51	30.29
09	CLR	NC				10.00		39	21	32	48	7	VR	29.55	30.33
12	CLR	NC				10.00		45	22	36	40	9	24	29.54	30.32
15	CLR	NC				10.00		49	20	38	32	7	24	29.50	30.28
18	CLR	NC				10.00		50	23	39	35	5	25	29.48	30.26
21	CLR	NC				10.00		39	32	36	76	5	19	29.52	30.31
24	CLR	NC				9.00		36	31	34	82	7	20	29.52	30.30
SUNRISE: 0449 APR 27 SUNSET: 1851															
03	OVC	070				9.00		37	31	35	79	8	05	29.53	30.31
06	BKN	100				9.00		39	31	36	73	9	08	29.54	30.32
09	SCT	NC				10.00		41	24	35	51	16	09	29.49	30.27
12	BKN	055				10.00		43	27	37	53	13	07	29.42	30.21
15	OVC	019				3.00	-RA	40	35	38	83	17	10	29.26	30.03
18	OVC	013				3.00	-RA BR	39	37	38	93	17	10	29.13	29.90
21	OVC	007				2.00	RA BR	36	35	36	97	18	07	29.02	29.79
24	OVC	008				3.00	-RA BR	36	35	36	97	25	06	28.92	29.68
SUNRISE: 0448 APR 28 SUNSET: 1852															
03	OVC	008				3.00	+RA BR	36	35	36	97	25	06	28.78	29.53
06	OVC	014				5.00	-RA BR	36	35	36	97	23	03	28.80	29.56
09	OVC	010				10.00		37	34	36	89	29	02	28.91	29.67
12	OVC	018				10.00		39	34	37	82	20	01	29.01	29.78
15	OVC	020				10.00		40	34	37	79	12	36	29.12	29.89
18	OVC	024				9.00		40	34	37	79	9	35	29.20	29.96
21	OVC	027				9.00		39	33	37	79	7	01	29.22	29.99
24	CLR	NC				6.00	BR	38	35	37	89	3	24	29.21	29.98
SUNRISE: 0446 APR 29 SUNSET: 1853															
03	OVC	034				7.00		38	34	36	86	5	19	29.19	29.96
06	OVC	035				6.00	BR	39	35	37	86	6	21	29.16	29.93
09	OVC	034				7.00		43	37	40	80	12	22	29.13	29.89
12	OVC	024				8.00		47	41	44	80	13	24	29.11	29.87
15	CLR	NC				10.00		54	40	47	59	15	27	29.06	29.82
18	OVC	070				9.00	-RA	53	41	47	64	12	31	29.02	29.78
21	BKN	080				10.00		50	40	45	68	13	35	29.02	29.78
24	CLR	NC				10.00		41	38	40	89	5	24	29.05	29.81
SUNRISE: 0445 APR 30 SUNSET: 1854															
03	CLR	NC				10.00		42	34	39	73	13	29	29.06	29.82
06	CLR	NC				10.00		40	32	37	73	12	28	29.10	29.86
09	CLR	NC				10.00		48	30	40	50	20	29	29.11	29.87
12	CLR	NC				10.00		54	29	43	38	17	29	29.10	29.85
15	BKN	090				10.00		58	32	46	38	20	28	29.07	29.83
18	BKN	110				10.00		54	34	45	47	8	29	29.06	29.83
21	OVC	085				10.00		50	33	42	52	5	09	29.08	29.84
24	BKN	080				10.00		48	38	43	68	5	05	29.08	29.84

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)	
								DRY BULB	DEW POINT	WET BULB		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 Visibilty = 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.

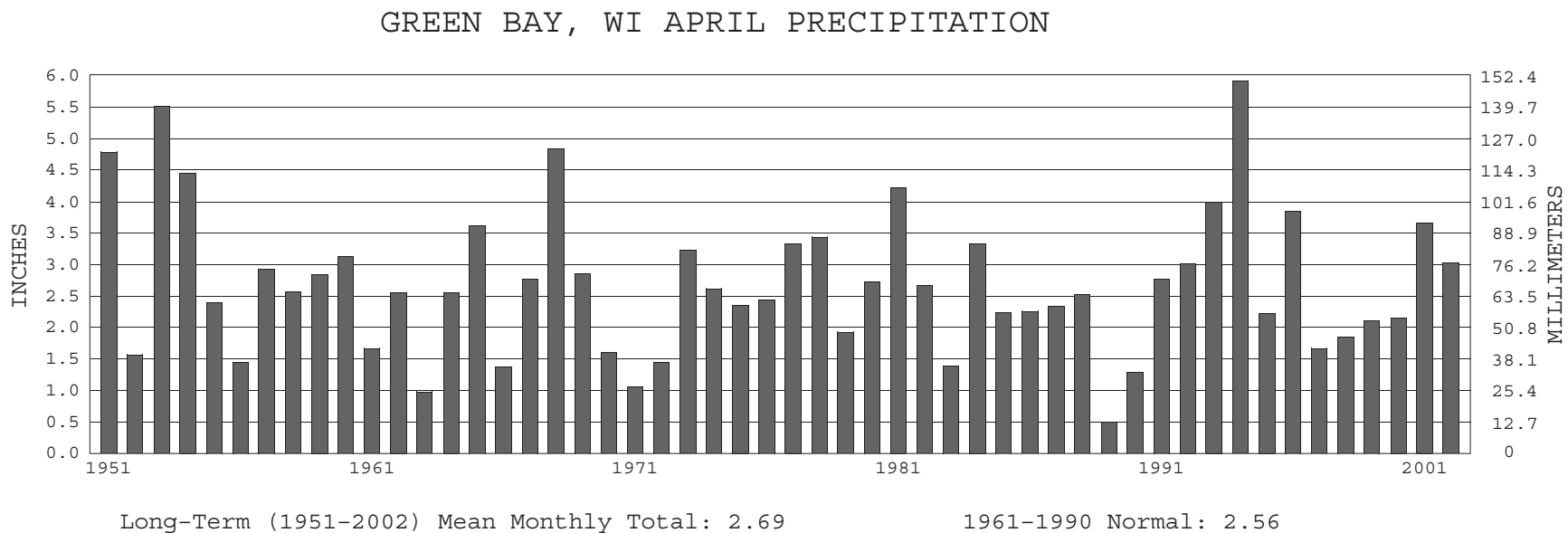
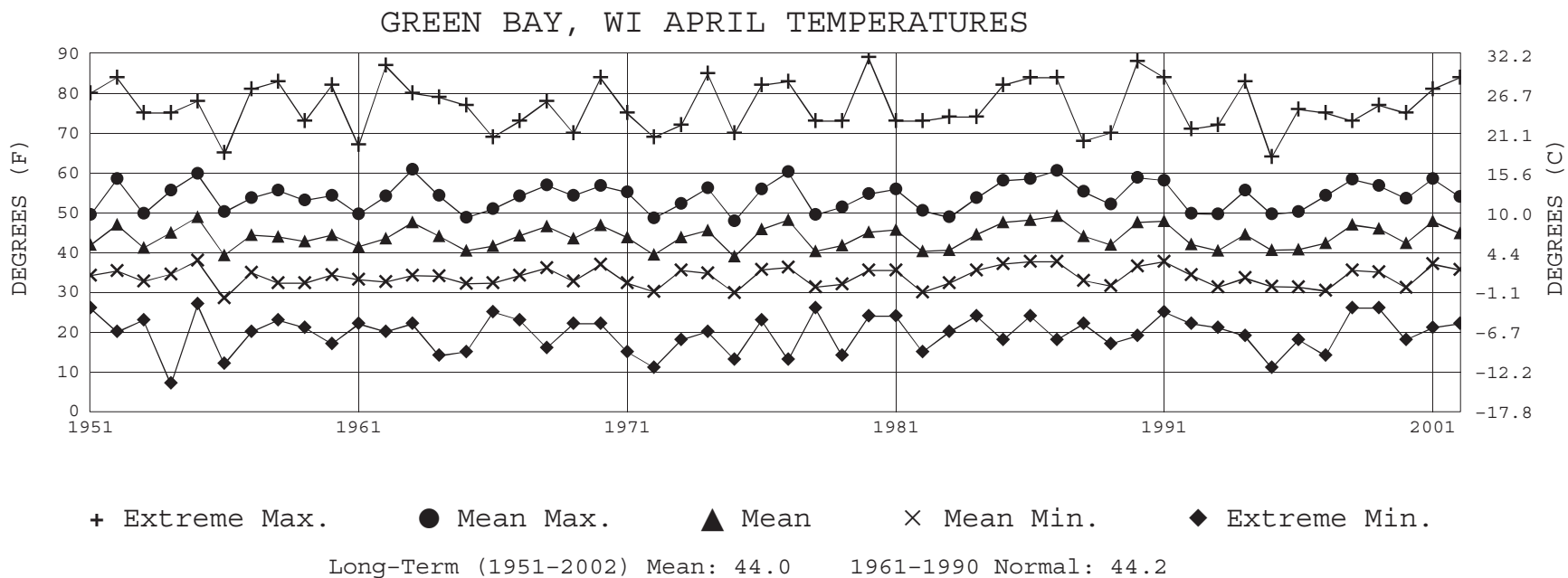
See page 3 for additional notes.

HOUR (LST)	AVERAGES										RESULTANT	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			40	34	38	80	29.27	30.04	8.09	9	0	0
02			40	34	38	81	29.27	30.03	7.94	9	2	26
03			40	34	37	82	29.27	30.04	7.60	10	1	29
04			39	35	37	85	29.27	30.04	7.28	9	0	0
05			39	34	37	85	29.28	30.04	7.14	9	0	0
06			39	35	37	84	29.29	30.06	6.76	8	1	26
07			41	35	38	81	29.29	30.06	7.16	11	1	29
08			43	36	40	75	29.29	30.06	8.14	11	2	27
09			45	35	41	70	29.29	30.06	8.27	12	1	26
10			47	35	42	67	29.29	30.06	8.37	12	2	26
11			48	36	43	64	29.28	30.05	8.68	13	3	25
12			49	36	43	62	29.27	30.04	8.62	12	3	24
13			51	37	44	60	29.27	30.03	8.89	12	2	23
14			52	37	45	59	29.25	30.02	8.73	13	2	22
15			52	37	45	60	29.24	30.01	8.14	13	4	23
16			51	37	44	62	29.24	30.00	8.05	12	3	23
17			50	37	44	63	29.24	30.01	8.04	13	3	19
18			48	37	43	67	29.24	30.01	8.03	12	3	18
19			46	37	42	72	29.24	30.01	8.39	10	2	17
20			45	36	41	72	29.25	30.02	8.40	10	2	17
21			44	36	40	77	29.26	30.03	8.35	9	1	15
22			43	36	40	78	29.26	30.03	8.32	9	1	17
23			42	35	39	80	29.27	30.03	8.23	8	1	21
24			41	36	39	82	29.27	30.03	8.07	9	0	0

## SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			40	34	38	80	29.27	30.04	8.09	9	0	0
02			40	34	38	81	29.27	30.03	7.94	9	2	26
03			40	34	37	82	29.27	30.04	7.60	10	1	29
04			39	35	37	85	29.27	30.04	7.28	9	0	0
05			39	34	37	85	29.28	30.04	7.14	9	0	0
06			39	35	37	84	29.29	30.06	6.76	8	1	26
07			41	35	38	81	29.29	30.06	7.16	11	1	29
08			43	36	40	75	29.29	30.06	8.14	11	2	27
09			45	35	41	70	29.29	30.06	8.27	12	1	26
10			47	35	42	67	29.29	30.06	8.37	12	2	26
11			48	36	43	64	29.28	30.05	8.68	13	3	25
12			49	36	43	62	29.27	30.04	8.62	12	3	24
13			51	37	44	60	29.27	30.03	8.89	12	2	23
14			52	37	45	59	29.25	30.02	8.73	13	2	22
15			52	37	45	60	29.24	30.01	8.14	13	4	23
16			51	37	44	62	29.24	30.00	8.05	12	3	23
17			50	37	44	63	29.24	30.01	8.04	13	3	19
18			48	37	43	67	29.24	30.01	8.03	12	3	18
19			46	37	42	72	29.24	30.01	8.39	10	2	17
20			45	36	41	72	29.25	30.02	8.40	10	2	17
21			44	36	40	77	29.26	30.03	8.35	9	1	15
22			43	36	40	78	29.26	30.03	8.32	9	1	17
23			42	35	39	80	29.27	30.03	8.23	8	1	21
24			41	36	39	82	29.27	30.03	8.07	9	0	0







APRIL 2002

GREEN BAY, WI

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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