



AUGUST 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	89	61	75	5	70	72	0	10	RA	0		0.0	T	29.08	29.81	6.3	24	11.1	31	26	23	28	01	
02	79	55	67	-3	58	62	0	2		0		0.0	0.00	29.35	30.10	4.5	28	5.8	21	29	15	29	02	
03	81	54	68	-2	62	65	0	3	BR	0		0.0	0.00	29.40	30.15	2.7	19	3.8	15	21	12	17	03	
04	85	66	76	6	70	71	0	11	TS TSRA RA BR	0		0.0	0.28	29.33	30.08	2.0	25	5.1	29	27	23	27	04	
05	77	56	67	-3	59	64	0	2	BR	0		0.0	0.00	29.45	30.20	11.9	04	12.4	26	06	23	05	05	
06	70	50	60*	-9	52	56	5	0		0		0.0	0.00	29.58	30.34	7.9	04	8.9	22	06	20	05	06	
07	75	50	63	-6	56	59	2	0		0		0.0	0.00	29.56	30.32	3.9	04	5.8	15	04	13	04	07	
08	80	54	67	-2	58	62	0	2	RA	0		0.0	T	29.52	30.28	1.4	11	2.9	15	13	13	14	08	
09	82	56	69	0	61	64	0	4	BR	0		0.0	0.00	29.40	30.15	5.8	19	6.1	16	19	13	19	09	
10	85	56	71	2	63	66	0	6	BR	0		0.0	0.00	29.22	29.96	7.5	21	8.1	24	18	20	19	10	
11	90*	61	76*	7	64	67	0	11	TS TSRA RA BR	0		0.0	1.52	29.20	29.94	5.6	22	8.7	35	35	30	01	11	
12	84	63	74	6	69	70	0	9	TS TSRA RA BR HZ	0		0.0	0.28	29.13	29.87	6.1	21	7.6	32	27	26	27	12	
13	75	64	70	2	66	67	0	5	RA	0		0.0	0.03	29.10	29.84	2.9	28	6.0	20	28	16	29	13	
14	77	60	69	1	59	62	0	4		0		0.0	0.00	29.07	29.81	4.8	23	6.1	21	20	14	23	14	
15	81	57	69	1	62	65	0	4	RA	0		0.0	0.01	29.07	29.81	10.4	20	11.2	31	19	24	19	15	
16	81	61	71	3	61	64	0	6		0		0.0	0.00	29.22	29.96	6.1	26	7.2	20	30	16	26	16	
17	80	55	68	0	61	64	0	3	TSRA RA BR	0		0.0	0.10	29.02	29.76	10.2	23	13.4	35	27	26	28	17	
18	74	51	63	-4	52	56	2	0		0		0.0	0.00	29.17	29.92	7.4	26	7.7	22	27	17	26	18	
19	76	52	64	-3	55	59	1	0	RA	0		0.0	0.04	29.22	29.98	2.7	32	5.2	16	32	14	31	19	
20	77	47*	62	-5	55	58	3	0	BR	0		0.0	0.00	29.38	30.14	4.2	18	5.0	21	14	17	15	20	
21	73	56	65	-2	65	66	0	0	TS TSRA RA BR	0		0.0	1.31	29.23	29.98	3.5	13	6.4	37*	33	30*	34	21	
22	71	64	68	2	64	65	0	3	RA BR	0		0.0	0.02	29.29	30.03	8.9	04	10.3	22	05	17	05	22	
23	69	61	65	-1	64	65	0	0	RA BR	0		0.0	0.06	29.24	29.99	4.2	06	5.8	17	04	15	04	23	
24	81	60	71	5	66	67	0	6	RA FG+ BR	0		0.0	0.36	29.19	29.94	4.8	28	5.4	33	31	26	32	24	
25	80	60	70	4	63	65	0	5	BR	0		0.0	0.00	29.27	30.02	2.3	01	3.5	12	04	9	02	25	
26	84	57	71	6	63	66	0	6	BR	0		0.0	0.00	29.32	30.06	3.6	04	4.9	25	04	23	05	26	
27	72	58	65	0	61	62	0	0		0		0.0	0.00	29.49	30.24	9.9	04	10.5	21	03	18	04	27	
28	76	54	65	0	61	62	0	0	FG BR	0		0.0	0.00	29.51	30.27	2.8	06	3.3	12	06	9	06	28	
29	78	51	65	0	58	61	0	0	FG BR	0		0.0	0.00	29.46	30.21	0.3	20	1.4	8	13	7	15	29	
30	80	50	65	0	59	62	0	0	FG+ BR	0		0.0	0.00	29.53	30.28	0.9	07	2.4	12	04	10	03	30	
31	81	53	67	3	61	63	0	2	FG+ BR	0		0.0	0.00	29.53	30.28	4.0	17	4.8	18	14	16	15	31	
78.8		56.5	67.7	■ ■	61.2	63.8	0.4	3.4	< MONTHLY AVERAGES	TOTALS->		0.0	4.01	29.31	30.06	0.4	21	6.7	<- MONTHLY AVERAGES					
0.3		0.0	0.2	■ ■	<-----DEPARTURE FROM NORMAL----->							0.24	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.80 DATE: 11-12				GREATEST 24-HR SNOWFALL: 0.0 DATE:				GREATEST SNOW DEPTH: 0 DATE:				SEA LEVEL PRESSURE DATE TIME			
MONTHLY									TOTAL DEPARTURE				SEASON TO DATE				TOTAL DEPARTURE				MAXIMUM			
HEATING:									13 -25				15 -42				30.38				06 0956			
COOLING:									104 -22				521 96				29.59				17 0756			
									NUMBER OF DAYS WITH ➡		MAXIMUM TEMP ≥ 90: 1		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 11									
											MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH: 6									
											THUNDERSTORMS: 5		HEAVY FOG: 3		SNOWFALL ≥ 1.0 INCH: 0									

AUGUST 2002
GREEN BAY, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

GREEN BAY, WI

AUGUST 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	0.01	T											01												01		T	
02													02												02		0.00	
03													03												03		0.00	
04				0.26	0.02								04									T			04		0.28	
05													05												05		0.00	
06													06												06		0.00	
07													07												07		0.00	
08					T								08												08		T	
09													09												09		0.00	
10													10												10		0.00	
11													11				T	T				1.19	0.32	0.01	11		1.52	
12			T		0.01	0.21	0.03						12		0.03										12		0.28	
13							T						13	T					0.02	0.01	T	T			13		0.03	
14													14												14		0.00	
15													15							0.01	T				15		0.01	
16													16												16		0.00	
17						T	0.04	0.01	0.05				17												17		0.10	
18													18												18		0.00	
19			T	0.02	0.01	0.01	T						19												19		0.04	
20													20												20		0.00	
21										0.36	0.17	T	21	T		0.03	0.51	T		0.02	0.03	0.09	0.09	0.01	T	21	1.31	
22		T										22												22	0.02			
23		T				T	T	T				23	0.02	0.01	0.01	0.01	0.01	0.33						23	0.06			
24												24											0.02	0.01	24	0.36		
25												25													25	0.00		
26												26													26	0.00		
27												27													27	0.00		
28												28													28	0.00		
29												29													29	0.00		
30												30													30	0.00		
31												31													31	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)	.40	.52	.62	.70	1.11	1.34	1.43	1.49	1.50	1.52	1.52	1.52
Ending Date	21	11	11	11	11	11	11	11	11	11	11	11
Ending Time (Hour/Min)	1534	1937	1940	1948	1957	2009	2023	2027	2033	2111	2111	2111

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 AUGUST 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	572	65					7.00	10.00	
02	842	96					10.00	10.00	
03	598	68					.75	10.00	
04	316	36					1.50	10.00	
05	845	97					4.00	10.00	
06	687	79					10.00	10.00	
07	647	75					10.00	10.00	
08	703	82					10.00	10.00	
09	858	100					4.00	10.00	
10	739	86					5.00	10.00	
11	685	80					1.25	10.00	
12	258	30					3.00	10.00	
13	148	17					10.00	10.00	
14	780	92					10.00	10.00	
15	715	85					10.00	10.00	
16	730	87					10.00	10.00	
17	472	56					2.00	10.00	
18	793	95					10.00	10.00	
19	628	76					10.00	10.00	
20	689	83					1.75	10.00	
21	0	0					.75	10.00	
22	83	10					4.00	10.00	
23	0	0					2.00	10.00	
24	416	51					.25	10.00	
25	732	90					6.00	10.00	
26	772	95					5.00	10.00	
27	255	32					7.00	10.00	
28	545	68					.50	10.00	
29	712	89					.50	10.00	
30	720	90					.25	10.00	
31	680	85					.25	10.00	
MONTHLY AVGS							5.50	10.00	
SUNSHINE (MINUTES)									
Total: 17620 Possible: 26043									
Percent Possible: 68									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING									
31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0									
2 10 13									

OBSERVATIONS AT 3-HOURLY INTERVALS

GREEN BAY, WI

AUGUST 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: 0439			AUG 01	SUNSET: 1919										SUNRISE: 0446			AUG 07	SUNSET: 1911										
03	CLR	NC			10.00	74	70	71	88	8	20	29.08	29.82	03	CLR	NC			10.00	52	51	52	97	7	01	29.58	30.34				
06	CLR	NC			7.00	76	71	73	85	10	21	29.06	29.79	06	CLR	NC			10.00	55	53	54	93	6	36	29.59	30.35				
09	CLR	NC			10.00	83	74	77	74	14	21	29.02	29.75	09	SCT	NC			10.00	67	58	62	73	9	05	29.59	30.36				
12	FEW	NC			10.00	88	77	80	70	14	25	29.01	29.74	12	SCT	NC			10.00	71	58	63	63	6	VR	29.57	30.33				
15	FEW	NC			10.00	87	76	79	70	18	25	29.01	29.74	15	FEW	NC			10.00	75	59	65	58	9	01	29.53	30.29				
18	SCT	NC			10.00	80	68	72	67	8	33	29.09	29.83	18	CLR	NC			10.00	71	56	62	59	10	04	29.53	30.29				
21	BKN	045			10.00	72	65	67	79	9	33	29.17	29.90	21	CLR	NC			10.00	61	54	57	78	5	09	29.53	30.29				
24	CLR	NC			10.00	62	56	59	81	5	35	29.26	30.00	24	CLR	NC			10.00	55	54	54	96	3	27	29.53	30.29				
			SUNRISE: 0440			AUG 02	SUNSET: 1918										SUNRISE: 0447			AUG 08	SUNSET: 1910										
03	CLR	NC			10.00	56	54	55	93	6	28	29.31	30.05	03	OVC	100			10.00	59	57	58	93	0	00	29.54	30.29				
06	CLR	NC			10.00	59	56	57	90	8	30	29.35	30.10	06	CLR	NC			10.00	57	56	56	96	0	00	29.57	30.33				
09	CLR	NC			10.00	71	59	64	66	6	33	29.37	30.13	09					10.00					0	00	29.58					
12	CLR	NC			10.00	75	58	65	55	10	27	29.37	30.12	12	CLR	NC			10.00	75	56	64	52	6	VR	29.53	30.29				
15	CLR	NC			10.00	78	58	66	50	6	25	29.34	30.10	15	CLR	NC			10.00	79	58	66	49	0	00	29.50	30.25				
18	CLR	NC			10.00	76	60	66	58	6	29	29.33	30.09	18	CLR	NC			10.00	76	62	67	62	8	08	29.46	30.22				
21	CLR	NC			10.00	62	59	60	90	0	00	29.37	30.12	21	CLR	NC			10.00	63	58	60	84	3	14	29.48					
24	CLR	NC			10.00	62	59	60	90	8	20	29.40	30.16	24	CLR	NC			10.00	60	58	59	93	0	00	29.46	30.21				
			SUNRISE: 0441			AUG 03	SUNSET: 1916										SUNRISE: 0448			AUG 09	SUNSET: 1908										
03	CLR	NC			7.00	56	55	55	97	0	00	29.42	30.17	03	CLR	NC			8.00	58	57	57	97	0	00	29.45	30.20				
06	CLR	NC			5.00	59	58	58	96	0	00	29.43	30.19	06	CLR	NC			7.00	59	58	58	96	0	00	29.48	30.24				
09	CLR	NC			10.00	73	63	67	71	6	24	29.46	30.21	09	BKN	070			10.00	74	59	65	60	9	23	29.46	30.22				
12	CLR	NC			10.00	80	65	70	60	9	20	29.41	30.16	12	CLR	NC			10.00	80	62	69	54	8	21	29.40	30.16				
15	CLR	NC			10.00	79	64	69	60	6	24	29.39	30.14	15	CLR	NC			10.00	82	64	70	55	10	19	29.36	30.11				
18	CLR	NC			10.00	75	64	68	69	9	13	29.33	30.09	18	CLR	NC			10.00	78	62	68	58	7	20	29.33	30.08				
21	CLR	NC			10.00	67	62	64	84	6	16	29.34	30.10	21	CLR	NC			10.00	67	61	63	81	7	17	29.32	30.07				
24	CLR	NC			10.00	67	63	64	87	5	09	29.32	30.07	24	CLR	NC			10.00	63	58	60	84	7	19	29.31	30.05				
			SUNRISE: 0442			AUG 04	SUNSET: 1915										SUNRISE: 0449			AUG 10	SUNSET: 1907										
03	OVC	014			4.00	66	65	65	96	7	12	29.28	30.01	03	CLR	NC			8.00	58	56	57	93	0	00	29.29	30.03				
06	OVC	004			4.00	68	67	67	96	9	26	29.32	30.07	06	CLR	NC			6.00	61	59	60	93	5	18	29.29	30.03				
09	BKN	010			10.00	73	69	70	87	8	27	29.36	30.11	09	CLR	NC			10.00	75	64	68	69	12	22	29.25	30.00				
12	SCT	NC			10.00	80	72	74	76	7	27	29.34	30.09	12	CLR	NC			10.00	80	65	70	60	15	19	29.21	29.95				
15	BKN	035			10.00	81	71	74	72	7	10	29.33	30.08	15	FEW	NC			10.00	83	67	72	59	12	21	29.16	29.90				
18	BKN	055			10.00	80	73	75	79	0	00	29.34	30.09	18	CLR	NC			10.00	81	67	72	62	9	23	29.14	29.89				
21	SCT	NC			8.00	73	72	72	96	5	15	29.35	30.11	21	CLR	NC			10.00	72	66	68	82	6	23	29.17	29.91				
24	BKN	065			8.00	71	71	71	100	0	00	29.36	30.10	24	CLR	NC			10.00	68	64	66	87	6	24	29.18	29.93				
			SUNRISE: 0444			AUG 05	SUNSET: 1914										SUNRISE: 0450			AUG 11	SUNSET: 1905										
03	OVC	035			10.00	70	67	68	90	10	04	29.37	30.12	03	CLR	NC			10.00	62	60	61	93	5	19	29.19	29.93				
06	BKN	070			10.00	70	65	67	84	8	04	29.40	30.15	06	CLR	NC			8.00	64	62	63	93	6	19	29.21	29.95				
09	CLR	NC			10.00	73	62	66	69	12	05	29.43	30.19	09	CLR	NC			10.00	81	65	70	58	10	22	29.21	29.95				
12	CLR	NC			10.00	73	59	64	62	13	05	29.45	30.20	12	CLR	NC			10.00	87	63	71	45	12	23	29.20	29.94				
15	CLR	NC			10.00	76	60	66	58	14	05	29.44	30.19	15	CLR	NC			10.00	86	65	72	50	9	23	29.17	29.91				
18	CLR	NC			10.00	71	57	63	61	15	05	29.47	30.22	18	CLR	NC			10.00	79	67	71	67	15	34	29.19	29.93				
21	CLR	NC			10.00	64	53	58	68	17	05	29.54	30.30	21	OVC	034			10.00	65	65	65	100	3	07	29.25	29.99				
24	FEW	NC			10.00	57	48	52	72	12	01	29.58	30.33	24	CLR	NC			10.00	66	64	65	93	10	27	29.21	29.95				
			SUNRISE: 0445			AUG 06	SUNSET: 1912										SUNRISE: 0452			AUG 12	SUNSET: 1904										
03	CLR	NC			10.00	53	49	51	86	10	01	29.57	30.33	03	SCT	NC			10.00	64	63	63	96	7	21	29.16	29.91				
06	CLR	NC			10.00	57	52	54	83	9	02	29.59	30.36	06	CLR	NC			8.00	66	66	66	100	7	20	29.14	29.88				
09	BKN	033			10.00	65	54	59	68	14	05	29.62	30.37	09	FEW	NC			7.00	75	71	72	88	12	18	29.14	29.88				
12	CLR	NC			10.00	69	54	60	59	12	06	29.60	30.36	12	FEW	NC			7.00	81	73	75	77	15	19	29.10	29.83				
15	CLR	NC			10.00	70	54	61	57	14	04	29.56	30.32	15	BKN	065			10.00	83	72	75	70	9	23	29.07	29.81				
18	CLR	NC			10.00	65	55	59	70	8	11	29.54	30.30	18	CLR	NC			10.00	79	69	72	72	3	26	29.10	29.84				
21	CLR	NC			10.00	54	53	53	97	3	32	29.56	30.33	21	CLR	NC			10.00	74	67	69	79	6	23	29.13	29.87				
24	CLR	NC			10.00	51	50	51	96	0	00	29.56	30.33	24	SCT	NC			10.00	72	69	70	91	8	20	29.15	29.89				

OBSERVATIONS AT 3-HOURLY INTERVALS

GREEN BAY, WI

AUGUST 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)			
			OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION				SEA LEVEL	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: 0453					AUG 13					SUNSET: 1902					SUNRISE: 0460					AUG 19					SUNSET: 1853				
03	BKN	100			10.00	69	67	68	93	6	23	29.13	29.86	03	OVC	085			10.00	-RA	58	56	57	93	0	00	29.15	29.90	
06	FEW	NC			10.00	69	67	68	93	6	18	29.13	29.87	06	CLR	NC			10.00		57	56	56	96	6	33	29.17	29.92	
09	BKN	041			10.00	72	67	69	84	5	19	29.12	29.86	09	CLR	NC			10.00		67	57	61	71	5	VR	29.23	29.98	
12	BKN	025			10.00	72	68	69	87	13	30	29.11	29.85	12	SCT	NC			10.00		72	56	62	57	10	35	29.24	29.99	
15	FEW	NC			10.00	73	65	68	76	6	01	29.08	29.82	15	SCT	NC			10.00		75	55	63	50	10	34	29.21	29.96	
18	OVC	085			10.00	66	64	65	93	6	35	29.07	29.81	18	FEW	NC			10.00		70	55	61	59	5	36	29.24	29.99	
21	OVC	047			10.00	65	63	64	93	5	02	29.05	29.79	21	FEW	NC			10.00		58	55	56	90	7	18	29.30	30.05	
24	OVC	065			10.00	65	64	64	97	3	29	29.06	29.80	24	CLR	NC			10.00		53	52	52	96	0	00	29.33	30.09	
SUNRISE: 0454					AUG 14					SUNSET: 1901					SUNRISE: 0501					AUG 20					SUNSET: 1851				
03	OVC	100			10.00	63	62	62	97	7	26	29.05	29.79	03	CLR	NC			7.00		50	50	50	100	0	00	29.34	30.10	
06	CLR	NC			10.00	61	60	60	97	7	28	29.08	29.82	06	CLR	NC			10.00		51	50	51	96	0	00	29.41	30.16	
09	CLR	NC			10.00	67	62	64	84	6	24	29.09	29.83	09	CLR	NC			10.00		69	59	63	70	6	19	29.43	30.19	
12	CLR	NC			10.00	75	58	65	55	8	22	29.07	29.82	12	FEW	NC			10.00		75	57	64	54	9	18	29.41	30.17	
15	CLR	NC			10.00	76	56	64	50	13	23	29.06	29.80	15	FEW	NC			10.00		76	61	67	60	9	18	29.37	30.13	
18	CLR	NC			10.00	73	58	64	59	5	21	29.04	29.79	18	CLR	NC			10.00		69	54	60	59	12	16	29.33	30.10	
21	CLR	NC			10.00	62	58	60	86	8	18	29.08	29.82	21	CLR	NC			10.00		60	53	56	78	5	19	29.38	30.14	
24	CLR	NC			10.00	61	57	59	87	6	19	29.09	29.84	24	CLR	NC			10.00		57	55	56	93	0	00	29.39	30.15	
SUNRISE: 0455					AUG 15					SUNSET: 1859					SUNRISE: 0502					AUG 21					SUNSET: 1850				
03	CLR	NC			10.00	60	58	59	93	8	18	29.08	29.83	03	OVC	080			10.00		59	57	58	93	0	00	29.35	30.11	
06	CLR	NC			10.00	61	58	59	90	7	17	29.11	29.85	06	BKN	095			10.00		65	62	63	90	10	15	29.32	30.07	
09	CLR	NC			10.00	74	62	66	67	12	20	29.08	29.82	09	OVC	033			10.00		68	63	65	84	10	16	29.26	30.01	
12	CLR	NC			10.00	79	62	68	56	22	19	29.04	29.79	12	OVC	023			2.00	BR	68	67	67	96	6	06	29.25	30.00	
15	CLR	NC			10.00	81	60	68	49	18	20	29.00	29.74	15	BKN	025			5.00	BR	71	70	70	96	7	06	29.19	29.94	
18	OVC	060			10.00	79	62	68	56	12	24	29.02	29.76	18	BKN	040			1.25	BR	70	69	69	97	6	10	29.11	29.86	
21	BKN	080			10.00	71	68	69	90	7	23	29.08	29.82	21	OVC	038			10.00	-RA	72	70	71	94	10	20	29.11	29.86	
24	CLR	NC			10.00	67	66	66	97	7	26	29.12	29.86	24	OVC	012			7.00		71	70	70	96	5	27	29.10	29.84	
SUNRISE: 0456					AUG 16					SUNSET: 1858					SUNRISE: 0503					AUG 22					SUNSET: 1848				
03	CLR	NC			10.00	64	62	63	93	8	26	29.16	29.90	03	OVC	006			8.00		67	67	67	100	8	35	29.14	29.88	
06	CLR	NC			10.00	63	60	61	90	8	28	29.22	29.96	06	OVC	008			10.00		66	65	65	96	8	02	29.21	29.96	
09	CLR	NC			10.00	72	62	66	71	8	26	29.27	30.01	09	OVC	014			10.00		67	65	66	93	15	05	29.29	30.03	
12	FEW	NC			10.00	78	59	66	52	12	26	29.27	30.01	12	OVC	012			10.00		68	63	65	84	12	05	29.33	30.09	
15	CLR	NC			10.00	80	57	66	45	12	28	29.23	29.97	15	OVC	015			10.00		68	63	65	84	12	03	29.33	30.09	
18	CLR	NC			10.00	74	66	69	76	0	00	29.22	29.97	18	OVC	023			10.00		67	62	64	84	9	05	29.33	30.08	
21	CLR	NC			10.00	65	60	62	84	7	18	29.21	29.95	21	OVC	020			10.00		67	62	64	84	6	08	29.35	30.11	
24	CLR	NC			10.00	66	61	63	84	6	20	29.18	29.92	24	OVC	037			10.00		64	63	63	96	12	04	29.33	30.09	
SUNRISE: 0457					AUG 17					SUNSET: 1856					SUNRISE: 0504					AUG 23					SUNSET: 1846				
03	CLR	NC			8.00	66	64	65	93	9	14	29.06	29.80	03	OVC	005			10.00		64	63	63	96	8	04	29.30	30.05	
06	OVC	018			2.00	72	70	71	94	12	22	29.03	29.77	06	OVC	005			3.00	-RA BR	66	65	65	96	7	10	29.29	30.04	
09	SCT	NC			2.00	74	71	72	91	12	20	28.90	29.64	09	OVC	009			8.00		67	64	65	91	7	09	29.27	30.02	
12	SCT	NC			10.00	79	69	72	72	17	23	28.92	29.66	12	OVC	013			8.00		69	65	66	87	3	09	29.26	30.01	
15	CLR	NC			10.00	75	60	66	60	21	26	28.99	29.73	15	OVC	005			5.00	BR	67	66	66	97	6	06	29.22	29.97	
18	CLR	NC			10.00	69	51	59	53	14	27	29.03	29.78	18	OVC	005			2.50	BR	66	65	65	96	6	03	29.18	29.93	
21	CLR	NC			10.00	60	49	54	67	9	25	29.12	29.86	21	BKN	019			5.00	BR	64	63	63	96	0	00	29.18	29.92	
24	CLR	NC			10.00	55	50	52	83	8	23	29.15	29.89	24	FEW	NC			4.00	BR	62	61	61	96	3	32	29.21	29.96	
SUNRISE: 0459					AUG 18					SUNSET: 1855					SUNRISE: 0506					AUG 24					SUNSET: 1845				
03	CLR	NC			10.00	54	48	51	80	9	24	29.16	29.91	03	VV	001			0.75	BR	62	62	62	100	3	28	29.17	29.91	
06	CLR	NC			10.00	53	48	50	83	8	25	29.18	29.93	06	OVC	003			2.50	BR	62	62	62	100	3	20	29.18	29.93	
09	CLR	NC			10.00	64	51	57	63	12	27	29.19	29.94	09	BKN	008			10.00		69	66	67	90	7	26	29.20	29.95	
12	CLR	NC			10.00	71	54	61	55	15	26	29.19	29.94	12	CLR	NC			10.00		78	68	71	71	9	28	29.20	29.94	
15	CLR	NC			10.00	73	53	61	50	8	25	29.16	29.91	15	FEW	NC			10.00		80	67	71	64	13	29	29.17	29.91	
18	CLR	NC			10.00	68	56	61	66	6	27	29.16	29.91	18	FEW	NC			10.00		70	67	68	90	0	00	29.17	29.92	
21	CLR	NC			10.00	56	54	55	93	3	26	29.18	29.93	21	BKN	060			9.00		67	66	66	97	0	00	29.21	29.95	
24	BKN	110			10.00	58	55	56																					

OBSERVATIONS AT 3-HOURLY INTERVALS

GREEN BAY, WI

AUGUST 2002

GRB

WBAN # 14898

HOUR (LST)	SKY COVER		CEILING 100'S OFFT	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: 0507 AUG 25 SUNSET: 1843															
03	CLR	NC				10.00		64	62	63	93	7	02	29.26	30.00
06	CLR	NC				8.00		61	60	60	97	5	01	29.29	30.03
09	CLR	NC				10.00		71	63	66	76	6	08	29.31	30.06
12	CLR	NC				10.00		76	62	67	62	0	00	29.30	30.04
15	CLR	NC				10.00		79	62	68	56	3	30	29.27	30.01
18	CLR	NC				10.00		75	68	70	79	0	00	29.25	30.00
21	CLR	NC				10.00		63	62	62	97	0	00	29.27	30.02
24	CLR	NC				6.00	BR	60	60	60	100	0	00	29.28	30.02
SUNRISE: 0508 AUG 26 SUNSET: 1841															
03	CLR	NC				10.00		60	60	60	100	0	00	29.29	30.03
06	CLR	NC				7.00		60	60	60	100	0	00	29.31	30.05
09	CLR	NC				10.00		75	65	69	71	6	32	29.32	30.06
12	CLR	NC				10.00		81	65	70	58	3	VR	29.31	30.05
15	FEW	NC				10.00		83	63	70	51	0	00	29.30	30.04
18	CLR	NC				10.00		77	66	70	69	5	05	29.31	30.05
21	CLR	NC				10.00		70	62	65	76	21	05	29.35	30.10
24	CLR	NC				10.00		65	59	61	81	14	05	29.39	30.14
SUNRISE: 0509 AUG 27 SUNSET: 1840															
03	OVC	075				10.00		60	55	57	84	9	02	29.43	30.18
06	OVC	007				10.00		61	58	59	90	9	03	29.45	30.20
09	BKN	011				10.00		71	65	67	81	10	06	29.48	30.24
12	OVC	017				10.00		71	65	67	81	10	08	29.50	30.25
15	OVC	021				10.00		70	63	66	79	15	05	29.52	30.28
18	CLR	NC				10.00		66	61	63	84	15	04	29.51	30.27
21	CLR	NC				10.00		60	59	59	96	7	02	29.52	30.28
24	CLR	NC				7.00		58	57	57	97	7	01	29.52	30.27
SUNRISE: 0510 AUG 28 SUNSET: 1838															
03	SCT	NC				7.00		59	58	58	96	3	36	29.53	30.29
06	BKN	013				0.50	FG	56	56	56	100	0	00	29.55	30.31
09	SCT	NC				10.00		68	63	65	84	0	00	29.54	30.31
12	OVC	022				10.00		72	64	67	76	5	07	29.53	30.29
15	CLR	NC				10.00		74	65	68	74	8	06	29.49	30.25
18	CLR	NC				10.00		69	63	65	81	8	05	29.46	30.22
21	CLR	NC				10.00		61	58	59	90	0	00	29.46	30.22
24	CLR	NC				1.25	BR	55	54	54	96	0	00	29.46	30.22
SUNRISE: 0511 AUG 29 SUNSET: 1836															
03	VV	001				0.50	FG	52	52	52	100	0	00	29.46	30.22
06	CLR	NC				5.00	BR	52	52	52	100	5	29	29.47	30.23
09	CLR	NC				10.00		69	62	65	78	0	00	29.48	30.24
12	CLR	NC				10.00		75	59	65	58	0	00	29.46	30.22
15	CLR	NC				10.00		77	59	66	54	0	00	29.42	30.18
18	CLR	NC				10.00		71	64	67	79	6	13	29.42	30.18
21	CLR	NC				9.00		59	58	58	96	0	00	29.44	30.20
24	CLR	NC				6.00	BR	55	54	54	96	0	00	29.46	30.22
SUNRISE: 0513 AUG 30 SUNSET: 1834															
03	FEW	NC				6.00	BR	52	52	52	100	0	00	29.49	30.25
06	SCT	NC				1.00	BR	52	52	52	100	0	00	29.53	30.29
09	CLR	NC				10.00		70	60	64	71	0	00	29.54	30.29
12	CLR	NC				10.00		76	61	67	60	0	00	29.52	30.28
15	CLR	NC				10.00		79	63	69	58	6	17	29.51	30.27
18	FEW	NC				10.00		72	66	68	82	6	04	29.52	30.28
21	CLR	NC				8.00		65	63	64	93	0	00	29.54	30.30
24	CLR	NC				1.75	BR	57	57	57	100	0	00	29.55	30.31

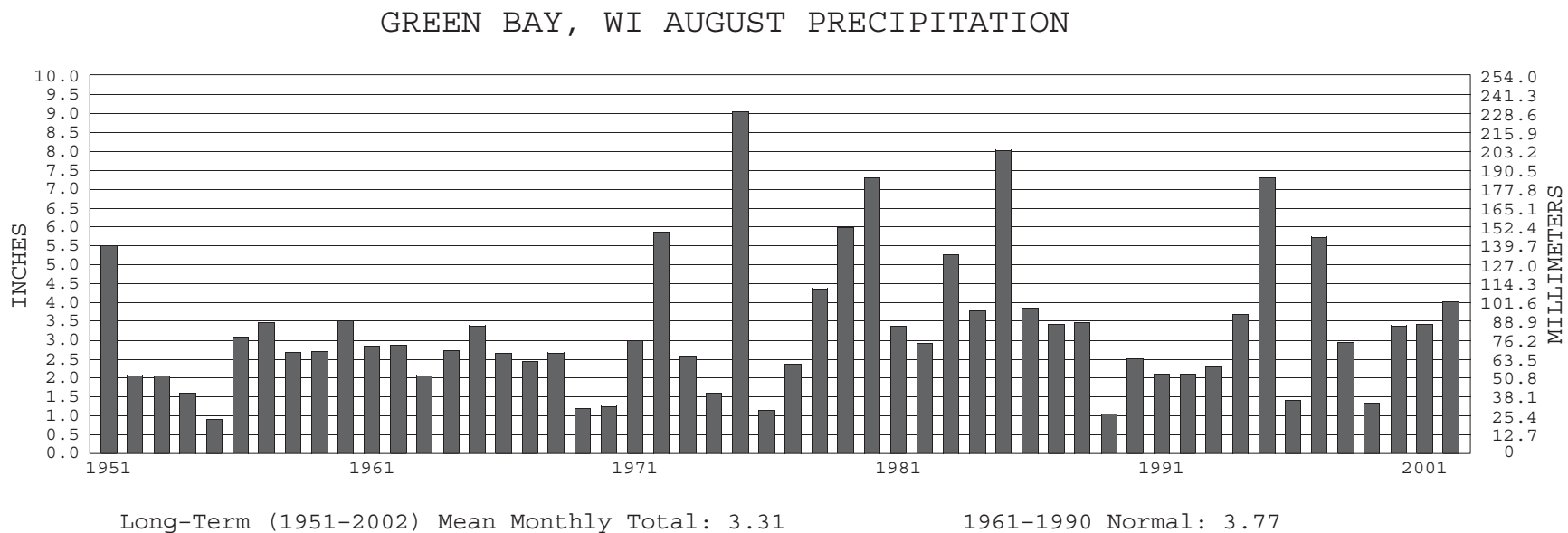
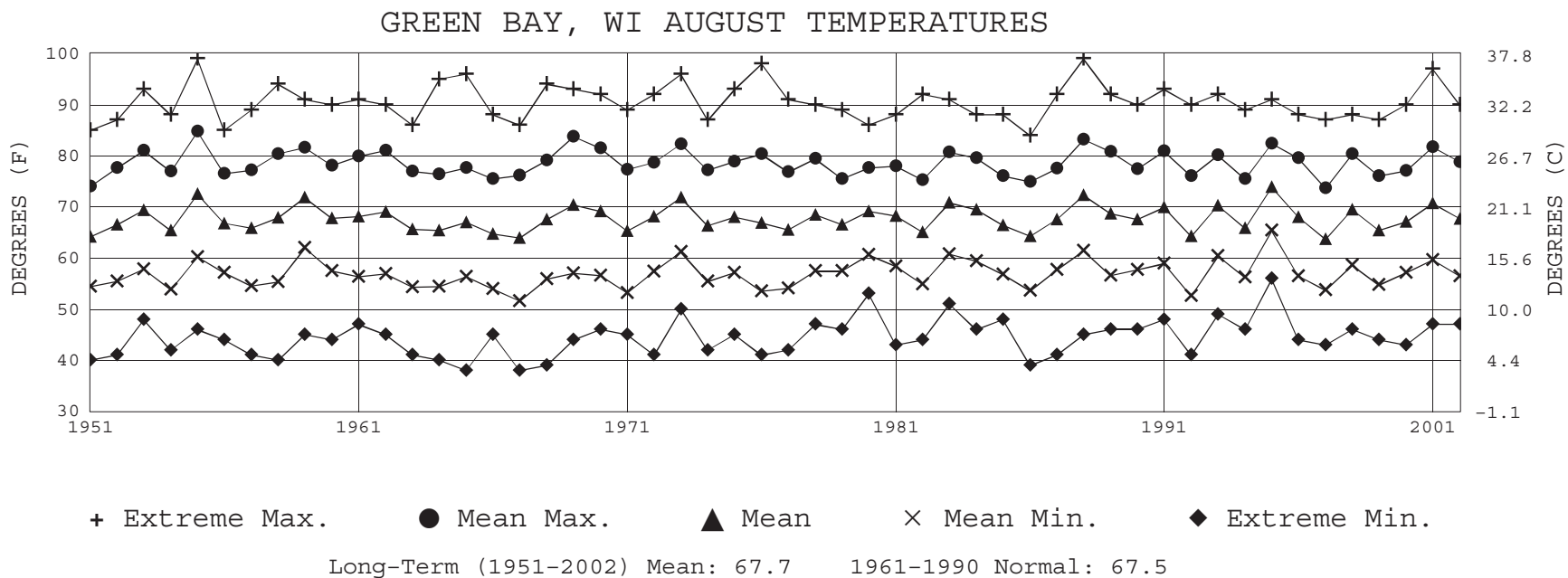
HOUR (LST)	SKY COVER		CEILING 100'S OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)	
								DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0514 AUG 31 SUNSET: 1833															
03	CLR	NC				2.50	BR	54	54	54	100	0	00	29.55	30.31
06	CLR	NC				2.00	BR	55	55	55	100	3	29	29.59	30.35
09	CLR	NC				8.00		73	68	70	84	5	19	29.59	30.35
12	FEW	NC				10.00		79	63	69	58	7	19	29.55	30.31
15	FEW	NC				10.00		77	64	69	64	13	15	29.50	30.26
18	CLR	NC				10.00		72	59	64	64	7	14	29.48	30.24
21	CLR	NC				8.00		62	60	61	93	3	17	29.47	30.22
24	CLR	NC				4.00	BR	60	59	59	96	6	17	29.43	30.19

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.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)		
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		WIND SPEED (MPH)		
							STATION	SEA LEVEL			
01			61	59	60	93	29.30	30.05	5	1	26
02			61	59	60	93	29.30	30.05	4	1	31
03			60	58	59	94	29.30	30.05	5	1	31
04			60	58	59	95	29.30	30.05	7.80	6	1 26
05			59	58	58	95	29.31	30.06	7.37	6	1 29
06			61	59	60	94	29.32	30.07	7.29	6	1 25
07			65	62	63	90	29.33	30.08	8.26	6	1 24
08			68	63	65	83	29.32	30.07	9.19	7	1 19
09			71	63	66	76	29.33	30.07	9.52	8	2 21
10			73	63	67	71	29.32	30.07	9.52	8	2 21
11			75	63	67	67	29.32	30.07	9.68	8	3 21
12			76	63	68	65	29.31	30.06	9.58	9	3 23
13			77	63	68	63	29.30	30.05	9.65	8	2 23
14			77	63	68	62	29.29	30.04	9.68	8	2 25
15			77	63	68	62	29.29	30.04	9.68	9	2 25
16			76	62	67	64	29.29	30.03	9.56	9	1 29
17			75	62	67	66	29.28	30.03	9.48	8	1 2
18			73	62	66	71	29.28	30.03	9.48	7	2 4
19			69	62	64	80	29.29	30.04	9.50	6	2 10
20			66	61	63	86	29.30	30.05	9.18	5	1 11
21			65	61	62	87	29.31	30.05	9.58	5	1 15
22			63	60	61	90	29.31	30.06	8.90	5	1 21
23			62	59	60	91	29.32	30.06	8.82	4	0 0
24			62	59	60	92	29.32	30.07	8.45	5	1 27





AUGUST 2002

GREEN BAY, WI

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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