



JUNE 2003

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

Main data table with columns for DATE, TEMPERATURE F (MAXIMUM, MINIMUM, AVERAGE, DEP FROM NORMAL, AVERAGE DEW PT, AVERAGE WET BULB, HEATING, COOLING), WEATHER, SNOW/ICE ON GND (IN), PRECIPITATION (INCHES), PRESSURE (INCHES OF HG), WIND SPEED = MPH, and DIR = TENS OF DEGREES.

Summary row: 73.9 52.4 63.2 55.4 58.9 3.1 1.5 < MONTHLY AVERAGES TOTALS--> 0.0 3.71 29.19 29.94 0.3 12 7.2 <- MONTHLY AVERAGES

Summary row: -2.9 -1.6 -2.2 DEPARTURE FROM NORMAL 0.28 SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3

Summary table with sections: DEGREE DAYS (MONTHLY TOTAL DEPARTURE, SEASON TO DATE TOTAL DEPARTURE), GREATEST 24-HR PRECIPITATION, GREATEST 24-HR SNOWFALL, GREATEST SNOW DEPTH, NUMBER OF DAYS WITH, MAXIMUM TEMP >= 90, MAXIMUM TEMP <= 32, THUNDERSTORMS, MINIMUM TEMP <= 32, MINIMUM TEMP <= 0, HEAVY FOG, SEA LEVEL PRESSURE, DATE TIME, PRECIPITATION >= 0.01 INCH, PRECIPITATION >= 0.10 INCH, SNOWFALL >= 1.0 INCH.

JUNE 2003 GREEN BAY, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

GREEN BAY, WI

JUNE 2003

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		0.00	
02													02												02		0.00	
03													03												03		0.00	
04													04												04		0.00	
05													05												05		0.00	
06													06	T	T	0.03	T	0.01	T	0.01	0.07	0.04	0.18	0.10	0.20	06	0.64	
07	0.11	0.10	0.02	T									07	T	0.04	T					0.01				07	0.23		
08				0.07	0.09	0.12	0.07	T					08	T											08	0.40		
09													09												09	0.00		
10					0.07	0.22	0.49	0.04	0.32	0.03	0.12	0.15	10	T	T	0.02	0.01	T						10	1.47			
11													11												11	0.00		
12													12												12	0.00		
13													13												13	0.00		
14													14												14	0.00		
15													15												15	0.00		
16													16												16	0.00		
17													17												17	0.00		
18													18			0.01	T	0.01	0.10	T				18	0.12			
19			T										19											19	0.00			
20													20											20	0.00			
21													21											21	0.00			
22													22											22	0.00			
23													23											23	0.00			
24								0.05	0.02	T			24											24	0.07			
25													25					T	T	T				25	0.07			
26													26											26	0.00			
27													27			T	T							27	0.00			
28			T	T	T		0.01	T	0.12	0.23	0.17	0.16	28	0.07	0.02	T	T						28	0.78				
29			T	T									29											29	0.00			
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	.12	.16	.21	.26	.38	.49	.58	.62	.71	.78	.90
Ending Date	10	10	10	10	10	10	10	10	10	10	10	10
Ending Time (Hour/Min)	0835	0839	0652	0653	0653	0652	0652	0653	0653	0653	0659	0839

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

GREEN BAY, WI JUNE 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	855	93					7.00	10.00	
02	829	90					6.00	10.00	
03	824	89					7.00	10.00	
04	834	90					10.00	10.00	
05	842	91					8.00	10.00	
06	65	7					1.25	9.00	
07	645	70					1.50	8.00	
08	468	50					1.00	10.00	
09	845	91					6.00	10.00	
10	529	57					.75	10.00	
11	764	82					10.00	10.00	
12	873	94					10.00	10.00	
13	864	93					4.00	10.00	
14	857	92					2.00	10.00	
15	739	79					10.00	10.00	
16	783	84					10.00	10.00	
17	773	83					8.00	10.00	
18	582	62					2.50	10.00	
19	933	100					10.00	10.00	
20	930	100					10.00	10.00	
21	933	100					6.00	10.00	
22	931	100					5.00	10.00	
23	780	84					6.00	10.00	
24							2.00	10.00	
25	666	71					4.00	10.00	
26	616	66					10.00	10.00	
27	748	80					9.00	10.00	
28	119	13					.25	10.00	
29	667	72					1.25	10.00	
30	854	92					7.00	10.00	
MONTHLY AVGS							5.95	9.87	
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				
1			8		14				

OBSERVATIONS AT 3-HOURLY INTERVALS

GREEN BAY, WI

JUNE 2003

GRB

WBAN # 14898

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)			
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL												
SUNRISE: 0411 JUN 01 SUNSET: 1929																																	
03	CLR	NC				10.00		37	37	37	100	3	26	29.32	30.09	03	OVC	005						3.00	BR	53	53	53	100	8	10	29.04	29.79
06	CLR	NC				10.00		42	41	42	96	5	26	29.34	30.11	06	OVC	005						2.00	BR	54	54	54	100	7	13	29.05	29.81
09	CLR	NC				10.00		55	40	48	57	6	VR	29.33	30.10	09	BKN	014						3.00	BR	60	57	58	90	5	35	29.04	29.79
12	CLR	NC				10.00		62	42	52	48	8	20	29.31	30.07	12	BKN	055						7.00		64	56	59	75	5	35	29.03	29.78
15	CLR	NC				10.00		67	44	55	44	9	27	29.28	30.04	15	OVC	050						7.00		63	57	59	81	7	07	29.03	29.78
18	CLR	NC				10.00		64	45	54	50	10	19	29.26	30.01	18	OVC	075						3.00	BR	61	59	60	93	5	12	29.03	29.78
21	CLR	NC				10.00		54	44	49	69	8	19	29.26	30.02	21	OVC	100						3.00	BR	58	57	57	97	3	08	29.03	29.78
24	CLR	NC				10.00		48	45	47	89	3	22	29.25	30.01	24	OVC	100						2.50	BR	54	54	54	100	5	11	29.00	29.75
SUNRISE: 0411 JUN 02 SUNSET: 1930																																	
03	CLR	NC				9.00		49	45	47	86	3	23	29.24	29.99	03	BKN	110						3.00	BR	53	53	53	100	8	06	28.93	29.68
06	CLR	NC				6.00	BR	49	48	48	97	0	00	29.27	30.02	06	OVC	004						1.50	RA BR	52	52	52	100	9	09	28.92	29.67
09	CLR	NC				9.00		60	51	55	72	0	00	29.27	30.02	09	OVC	004						6.00	BR	55	55	55	100	7	09	28.90	29.65
12	CLR	NC				10.00		68	52	59	57	3	VR	29.25	30.00	12	OVC	010						6.00	BR	59	57	58	93	5	12	28.86	29.61
15	SCT	NC				9.00		70	49	58	47	5	14	29.21	29.96	15	BKN	035						6.00	BR	61	59	60	93	8	36	28.84	29.59
18	CLR	NC				10.00		66	51	58	59	8	14	29.20	29.95	18	OVC	031						9.00		60	58	59	93	8	36	28.87	29.62
21	CLR	NC				10.00		60	49	54	67	0	00	29.21	29.96	21	OVC	050						5.00	-RA BR	57	57	57	100	7	32	28.91	29.67
24	CLR	NC				10.00		55	53	54	93	0	00	29.20	29.95	24	BKN	065						10.00		55	55	55	100	7	30	28.91	29.67
SUNRISE: 0410 JUN 03 SUNSET: 1931																																	
03	CLR	NC				7.00		54	54	54	100	3	17	29.19	29.94	03	BKN	075						10.00		53	53	53	100	7	30	28.94	29.69
06	FEW	NC				9.00		52	47	49	83	6	05	29.21	29.96	06	CLR	NC						9.00		55	54	54	96	10	29	29.01	29.76
09	CLR	NC				10.00		60	48	54	65	9	07	29.22	29.97	09	SCT	NC						10.00		62	57	59	84	13	29	29.07	29.82
12	CLR	NC				10.00		66	50	57	56	7	07	29.20	29.95	12	OVC	046						10.00		65	57	60	76	8	28	29.09	29.84
15	CLR	NC				10.00		69	48	57	47	16	05	29.17	29.92	15	FEW	NC						10.00		69	58	62	68	9	26	29.10	29.85
18	CLR	NC				10.00		65	45	54	49	8	03	29.18	29.93	18	SCT	NC						10.00		67	56	60	68	6	23	29.10	29.85
21	CLR	NC				10.00		54	48	51	80	0	00	29.20	29.95	21	CLR	NC						10.00		58	56	57	93	6	16	29.11	29.86
24	CLR	NC				10.00		52	49	50	89	8	01	29.19	29.95	24	FEW	NC						6.00	BR	55	55	55	100	6	18	29.11	29.86
SUNRISE: 0410 JUN 04 SUNSET: 1932																																	
03	CLR	NC				10.00		51	47	49	86	9	05	29.19	29.94	03	CLR	NC						7.00		56	54	55	93	5	16	29.05	29.80
06	CLR	NC				10.00		54	50	52	87	8	03	29.20	29.96	06	OVC	014						1.25	+RA BR	55	55	55	100	6	13	29.04	29.79
09	CLR	NC				10.00		60	50	55	70	8	03	29.21	29.96	09	OVC	007						1.50	RA BR	56	56	56	100	12	12	28.98	29.73
12	CLR	NC				10.00		68	44	55	42	12	04	29.18	29.93	12	OVC	032						1.75	-RA BR	56	56	56	100	10	13	28.88	29.64
15	CLR	NC				10.00		68	40	54	36	13	04	29.15	29.90	15	OVC	009						1.75	BR	58	58	58	100	6	17	28.86	29.62
18	CLR	NC				10.00		65	44	54	47	0	00	29.16	29.91	18	OVC	005						2.50	BR	59	59	59	100	7	34	28.90	29.65
21	SCT	NC				10.00		58	40	49	51	6	11	29.19	29.94	21	OVC	012						10.00		57	57	57	100	6	35	28.97	29.73
24	OVC	110				10.00		56	44	50	65	7	24	29.17	29.92	24	OVC	012						10.00		56	56	56	100	8	01	29.02	29.77
SUNRISE: 0409 JUN 05 SUNSET: 1932																																	
03	BKN	075				10.00		55	47	51	74	8	19	29.17	29.92	03	OVC	021						10.00		55	55	55	100	6	36	29.07	29.83
06	CLR	NC				10.00		57	47	52	69	12	26	29.18	29.93	06	OVC	012						10.00		54	54	54	100	9	01	29.13	29.88
09	CLR	NC				10.00		64	49	56	58	12	28	29.18	29.93	09	OVC	015						10.00		57	54	55	90	16	04	29.15	29.91
12	CLR	NC				10.00		72	51	60	48	8	30	29.19	29.94	12	BKN	019						10.00		62	57	59	84	12	07	29.17	29.93
15	CLR	NC				10.00		75	49	60	40	7	25	29.16	29.91	15	CLR	NC						10.00		65	58	61	78	10	04	29.15	29.91
18	CLR	NC				10.00		75	49	60	40	7	23	29.14	29.89	18	CLR	NC						10.00		62	57	59	84	10	06	29.15	29.90
21	CLR	NC				10.00		60	51	55	72	0	00	29.16	29.91	21	CLR	NC						10.00		57	54	55	90	5	07	29.17	29.92
24	CLR	NC				8.00		52	50	51	93	0	00	29.18	29.93	24	BKN	050						10.00		57	53	55	87	7	09	29.14	29.90
SUNRISE: 0409 JUN 06 SUNSET: 1933																																	
03	CLR	NC				8.00		51	50	51	96	0	00	29.16	29.91	03	CLR	NC						10.00		54	52	53	93	6	08	29.13	29.88
06	CLR	NC				6.00	HZ	56	51	53	84	5	VR	29.17	29.92	06	CLR	NC						10.00		57	54	55	90	9	07	29.15	29.90
09	CLR	NC				5.00	HZ	65	57	60	76	3	16	29.15	29.90	09	FEW	NC						10.00		65	58	61	78	10	10	29.13	29.88
12	BKN	075				7.00		68	56	61	66	13	21	29.15	29.90	12	FEW	NC						10.00		68	59	63	73	7	11	29.12	29.87
15	FEW	NC				4.00	BR	64	61	62	90	7	20	29.14	29.89	15	CLR	NC						10.00		72	62	66	71	7	VR	29.08	29.83
18	OVC	075				7.00		59	56	57	90	6	10	29.11	29.86	18	CLR	NC						10.00		68	59	63	73	9	05	29.08	29.82
21	OVC	037				4.00	-RA BR	56	56	56	100	6	10	29.11	29.86	21	CLR	NC						10.00		60	58	59	93	6	01	29.09	29.84
24	OVC	007				1.25	RA BR	54	54	54	100	12	09	29.07	29.82	24	OVC	041						10.00		58	58	58	100	0	00	29.08	29.83

OBSERVATIONS AT 3-HOURLY INTERVALS

GREEN BAY, WI

JUNE 2003

GRB

WBAN # 14898

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES,HG)			
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL											
SUNRISE: 0407 JUN 13 SUNSET: 1937																															
03	CLR	NC			5.00	BR	54	54	54	100	0	00	29.07	29.82	03	CLR	NC			10.00				52	46	49	80	9	36	29.31	30.06
06	OVC	060			6.00	BR	58	58	58	100	0	00	29.10	29.85	06	CLR	NC			10.00				53	47	50	80	12	02	29.36	30.12
09	CLR	NC			6.00	HZ	71	64	67	79	0	00	29.10	29.85	09	CLR	NC			10.00				61	50	55	67	14	05	29.42	30.18
12	FEW	NC			10.00		76	65	69	69	5	VR	29.09	29.84	12	CLR	NC			10.00				64	47	55	54	8	05	29.42	30.18
15	FEW	NC			10.00		76	62	67	62	3	VR	29.07	29.82	15	CLR	NC			10.00				67	47	56	49	10	07	29.39	30.15
18	CLR	NC			8.00		73	67	69	81	8	16	29.08	29.82	18	CLR	NC			10.00				66	42	54	42	12	04	29.36	30.12
21	CLR	NC			9.00		66	62	64	87	6	20	29.10	29.85	21	CLR	NC			10.00				54	40	47	59	5	09	29.39	30.15
24	CLR	NC			7.00		64	61	62	90	6	13	29.16	29.91	24	CLR	NC			10.00				47	46	46	97	3	31	29.41	30.18
SUNRISE: 0407 JUN 14 SUNSET: 1938																															
03	CLR	NC			6.00	BR	60	60	60	100	6	36	29.20	29.94	03	CLR	NC			10.00				44	43	44	96	3	28	29.45	30.21
06	BKN	004			2.50	BR	62	62	62	100	0	00	29.24	29.98	06	CLR	NC			10.00				51	47	49	86	0	00	29.48	30.24
09	FEW	NC			10.00		69	64	66	84	10	05	29.29	30.04	09	CLR	NC			10.00				64	50	56	61	0	00	29.48	30.24
12	CLR	NC			10.00		73	65	68	76	15	05	29.32	30.06	12	CLR	NC			10.00				71	50	59	47	3	VR	29.42	30.19
15	CLR	NC			10.00		75	62	67	64	13	05	29.31	30.05	15	CLR	NC			10.00				75	50	61	42	0	00	29.37	30.13
18	CLR	NC			10.00		73	61	66	66	9	04	29.30	30.04	18	CLR	NC			10.00				74	50	60	43	3	26	29.33	30.09
21	CLR	NC			10.00		64	58	60	81	5	08	29.33	30.09	21	CLR	NC			10.00				61	54	57	78	5	15	29.33	30.09
24	CLR	NC			10.00		58	58	100	6	36	29.38	30.14	24	CLR	NC			10.00				55	51	53	87	5	19	29.32	30.08	
SUNRISE: 0407 JUN 15 SUNSET: 1938																															
03	CLR	NC			10.00		54	54	54	100	7	36	29.39	30.14	03	CLR	NC			9.00				50	50	50	100	3	27	29.32	30.07
06	CLR	NC			10.00		57	55	56	93	6	35	29.40	30.16	06	CLR	NC			9.00				54	52	53	93	3	17	29.34	30.10
09	CLR	NC			10.00		67	60	63	79	6	02	29.42	30.18	09	CLR	NC			10.00				71	54	61	55	8	21	29.34	30.10
12	CLR	NC			10.00		69	60	64	73	8	05	29.42	30.18	12	CLR	NC			10.00				76	53	62	45	5	VR	29.31	30.06
15	CLR	NC			10.00		72	62	66	71	10	04	29.40	30.16	15	CLR	NC			10.00				79	49	62	35	6	VR	29.27	30.02
18	CLR	NC			10.00		69	59	63	70	13	04	29.39	30.15	18	CLR	NC			10.00				75	57	64	54	10	15	29.22	29.96
21	CLR	NC			10.00		59	57	58	93	6	02	29.40	30.16	21	CLR	NC			10.00				63	55	58	76	5	18	29.24	29.99
24	CLR	NC			10.00		56	56	56	100	0	00	29.40	30.16	24	CLR	NC			10.00				59	51	55	75	7	18	29.22	29.96
SUNRISE: 0407 JUN 16 SUNSET: 1939																															
03	CLR	NC			10.00		52	52	52	100	5	05	29.41	30.17	03	CLR	NC			8.00				55	52	53	90	0	00	29.24	29.98
06	CLR	NC			10.00		57	55	56	93	3	01	29.44	30.20	06	CLR	NC			5.00	BR			61	57	59	87	5	18	29.24	29.98
09	CLR	NC			10.00		69	49	58	49	0	00	29.44	30.20	09	CLR	NC			10.00				76	61	67	60	6	24	29.24	29.98
12	CLR	NC			10.00		75	57	64	54	7	08	29.43	30.19	12	CLR	NC			10.00				80	58	66	47	14	21	29.23	29.97
15	CLR	NC			10.00		77	59	66	54	12	08	29.40	30.15	15	CLR	NC			10.00				83	53	65	36	13	19	29.18	29.92
18	CLR	NC			10.00		72	53	61	52	7	12	29.38	30.14	18	CLR	NC			10.00				82	59	68	46	10	18	29.12	29.86
21	CLR	NC			10.00		60	57	58	90	0	00	29.38	30.14	21	CLR	NC			10.00				67	57	61	71	5	18	29.16	29.90
24	CLR	NC			10.00		54	50	52	87	0	00	29.38	30.13	24	CLR	NC			8.00				59	55	57	87	6	18	29.17	29.91
SUNRISE: 0407 JUN 17 SUNSET: 1939																															
03	CLR	NC			10.00		49	48	48	97	0	00	29.36	30.12	03	CLR	NC			6.00	BR			57	55	56	93	5	18	29.16	29.90
06	CLR	NC			10.00		55	49	52	80	0	00	29.36	30.12	06	CLR	NC			6.00	HZ			64	58	60	81	7	17	29.17	29.91
09	CLR	NC			10.00		71	53	61	53	0	00	29.33	30.09	09	CLR	NC			10.00				78	63	68	60	10	19	29.18	29.93
12	CLR	NC			10.00		78	49	61	36	3	VR	29.30	30.05	12	CLR	NC			10.00				82	67	72	60	6	21	29.18	29.92
15	CLR	NC			10.00		80	51	63	37	3	VR	29.24	29.99	15	CLR	NC			10.00				86	68	74	55	15	20	29.12	29.86
18	CLR	NC			10.00		79	48	61	34	7	18	29.18	29.93	18	CLR	NC			10.00				82	68	73	63	7	20	29.13	29.87
21	CLR	NC			9.00		68	59	63	73	8	17	29.17	29.91	21	SCT	NC			10.00				74	64	68	71	5	15	29.18	29.92
24	OVC	070			10.00		65	56	60	73	7	18	29.15	29.89	24	CLR	NC			8.00				68	63	65	84	5	15	29.16	29.90
SUNRISE: 0407 JUN 18 SUNSET: 1940																															
03	BKN	100			7.00		62	60	61	93	3	08	29.11	29.86	03	CLR	NC			7.00				67	62	64	84	7	18	29.17	29.90
06	CLR	NC			6.00	BR	65	62	63	90	3	28	29.12	29.86	06	BKN	080			6.00	HZ			70	63	66	79	7	17	29.20	29.94
09	CLR	NC			10.00		77	66	70	69	9	01	29.12	29.86	09	CLR	NC			9.00				71	68	69	90	5	VR	29.14	29.88
12	CLR	NC			10.00		78	68	71	71	8	06	29.12	29.86	12	CLR	NC			10.00				81	72	75	74	15	21	29.22	29.96
15	BKN	055			7.00	-RA	73	67	69	81	16	02	29.11	29.85	15	FEW	NC			6.00	HZ			86	77	79	75	9	20	29.18	29.91
18	FEW	NC			10.00	TSRA	65	61	63	87	16	06	29.14	29.89	18	FEW	NC			6.00	HZ			86	76	79	72	7	21	29.17	29.90
21	CLR	NC			10.00		64	50	56	61	16	05	29.22	29.97	21	CLR	NC			4.00	BR			77	75	76	94	5	15	29.17	29.91
24	CLR	NC			10.00		56	50	53	81	10	01	29.27	30.02	24	CLR	NC			5.00	BR			77	74	75	90	8	19	29.17	29.91

OBSERVATIONS AT 3-HOURLY INTERVALS

GREEN BAY, WI

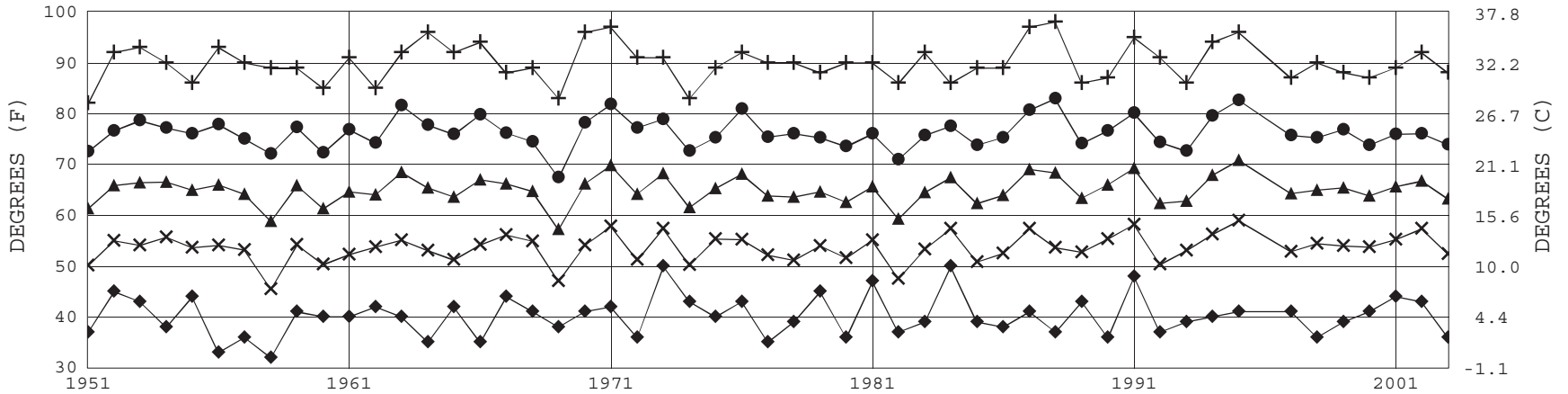
JUNE 2003

GRB

WBAN # 14898

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Okta		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)
SUNRISE: 0409						JUN 25	SUNSET: 1941						SUNRISE: JUN 31						SUNSET:									
03	CLR	NC			6.00	HZ	78	72	74	82	10	20	29.15	29.88														
06	CLR	NC			5.00	HZ	78	71	73	79	8	20	29.18	29.92														
09	CLR	NC			5.00	HZ	80	71	74	74	12	21	29.17	29.91														
12	CLR	NC			5.00	HZ	86	75	78	70	12	22	29.14	29.87														
15	CLR	NC			5.00	HZ	84	75	78	74	15	19	29.06	29.79														
18	CLR	NC			10.00		77	69	72	77	8	23	29.03	29.76														
21	CLR	NC			10.00		72	68	69	87	8	21	29.05	29.79														
24	BKN	075			10.00		72	66	68	82	8	22	28.99	29.73														
SUNRISE: 0409						JUN 26	SUNSET: 1941						3-HOURLY OBSERVATION NOTES															
03	OVC	023			10.00		71	66	68	84	12	21	28.97	29.70	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.													
06	OVC	019			10.00		63	58	60	84	15	27	29.03	29.77														
09	BKN	031			10.00		64	54	58	70	15	28	29.03	29.78														
12	BKN	050			10.00		70	50	59	49	20	27	29.02	29.76														
15	OVC	070			10.00		68	51	58	55	17	26	29.02	29.76														
18	OVC	065			10.00		64	50	56	61	17	27	29.05	29.80														
21	CLR	NC			10.00		60	50	55	70	9	22	29.08	29.83														
24	SCT	NC			10.00		59	51	55	75	10	24	29.07	29.82														
SUNRISE: 0410						JUN 27	SUNSET: 1941						SUMMARY BY HOUR															
03	BKN	085			10.00		57	50	53	78	7	24	29.06	29.81	AVERAGES													
06	OVC	085			10.00		58	51	54	78	9	25	29.10	29.85	HOUR (LST) CEILOMETER EFF CLD AMT DRY BULB DEW POINT WET BULB RELATIVE HUMIDITY PRESSURE (INCHES, HG) VISIBILITY (MILES) WIND SPEED (MPH) RESULTANT WIND (MPH)													
09	BKN	100			10.00		65	53	58	66	17	26	29.10	29.85	STATION SEA LEVEL													
12	BKN	048			10.00		71	54	61	55	14	25	29.10	29.85	VISIBILITY (MILES) WIND SPEED (MPH) SPEED DIRECTION													
15	BKN	090			10.00		73	59	64	62	12	29	29.10	29.85	01 56 53 55 91 29.19 29.93 8.45 5 0 0													
18	CLR	NC			10.00		71	52	60	51	9	29	29.10	29.85	02 55 53 54 92 29.18 29.93 8.28 5 1 29													
21	CLR	NC			10.00		57	47	52	69	10	09	29.17	29.92	03 55 53 54 93 29.18 29.93 8.17 5 0 0													
24	CLR	NC			10.00		54	46	50	75	7	08	29.21	29.96	04 54 52 53 92 29.19 29.94 8.08 5 1 25													
SUNRISE: 0410						JUN 28	SUNSET: 1941						05 54 52 53 93 29.20 29.95 7.08 6 1 28															
03	OVC	100			10.00	-RA	53	48	50	83	9	09	29.19	29.94	06 57 54 55 89 29.21 29.96 7.47 6 0 0													
06	OVC	080			10.00		53	47	50	80	13	07	29.18	29.93	07 60 55 57 84 29.21 29.96 7.85 7 1 26													
09	OVC	025			2.00	RA BR	53	52	52	96	9	04	29.19	29.95	08 63 56 59 78 29.21 29.96 8.55 7 1 34													
12	OVC	006			4.00	RA BR	54	54	54	100	6	07	29.17	29.93	09 65 56 60 74 29.21 29.96 8.42 7 1 36													
15	OVC	006			7.00	-RA	57	57	57	100	7	09	29.15	29.91	10 67 56 61 69 29.21 29.96 8.92 8 1 6													
18	OVC	006			5.00	BR	58	58	58	100	5	08	29.15	29.91	11 69 57 62 66 29.20 29.96 8.97 9 0 0													
21	OVC	002			2.00	BR	56	56	56	100	0	00	29.18	29.93	12 70 57 62 64 29.20 29.95 9.03 8 1 19													
24	VV	001			0.25	FG	56	56	56	100	3	21	29.15	29.90	13 71 57 63 62 29.19 29.94 9.12 9 1 13													
SUNRISE: 0411						JUN 29	SUNSET: 1941						14 72 57 63 62 29.18 29.93 9.05 9 1 20															
03	OVC	003			4.00	-RA BR	56	56	56	100	6	28	29.17	29.92	15 72 57 63 62 29.17 29.92 8.76 9 0 0													
06	OVC	005			4.00	BR	56	56	56	100	6	24	29.21	29.96	16 72 57 63 63 29.17 29.92 9.02 9 1 17													
09	OVC	009			6.00	BR	59	57	58	93	8	29	29.25	30.01	17 71 56 62 63 29.16 29.91 9.03 10 2 10													
12	SCT	NC			10.00		70	62	65	76	8	29	29.27	30.02	18 70 56 62 66 29.16 29.91 9.02 8 1 13													
15	FEW	NC			10.00		74	59	65	60	13	29	29.28	30.02	19 67 57 61 71 29.17 29.92 9.00 7 1 13													
18	BKN	090			10.00		73	60	65	64	8	25	29.29	30.03	20 64 56 59 78 29.17 29.92 8.92 6 2 11													
21	CLR	NC			10.00		64	58	60	81	7	26	29.32	30.09	21 61 55 58 81 29.19 29.94 8.87 5 2 13													
24	CLR	NC			10.00		59	58	58	96	0	00	29.34	30.10	22 60 55 57 85 29.19 29.94 8.74 5 1 14													
SUNRISE: 0411						JUN 30	SUNSET: 1941						23 59 55 56 87 29.19 29.94 8.75 5 1 13															
03	CLR	NC			10.00		56	56	56	100	5	23	29.35	30.11	24 58 54 56 90 29.19 29.94 8.53 5 1 17													
06	CLR	NC			10.00		60	59	59	96	0	00	29.38	30.14														
09	CLR	NC			10.00		73	63	67	71	0	00	29.39	30.15														
12	BKN	065			10.00		79	64	69	60	6	VR	29.39	30.14														
15	SCT	NC			10.00		80	63	69	56	7	22	29.36	30.11														
18	CLR	NC			10.00		78	63	68	60	8	19	29.33	30.08														
21	CLR	NC			10.00		68	63	65	84	5	20	29.35	30.10														
24	CLR	NC			10.00		62	60	61	93	3	21	29.35	30.11														

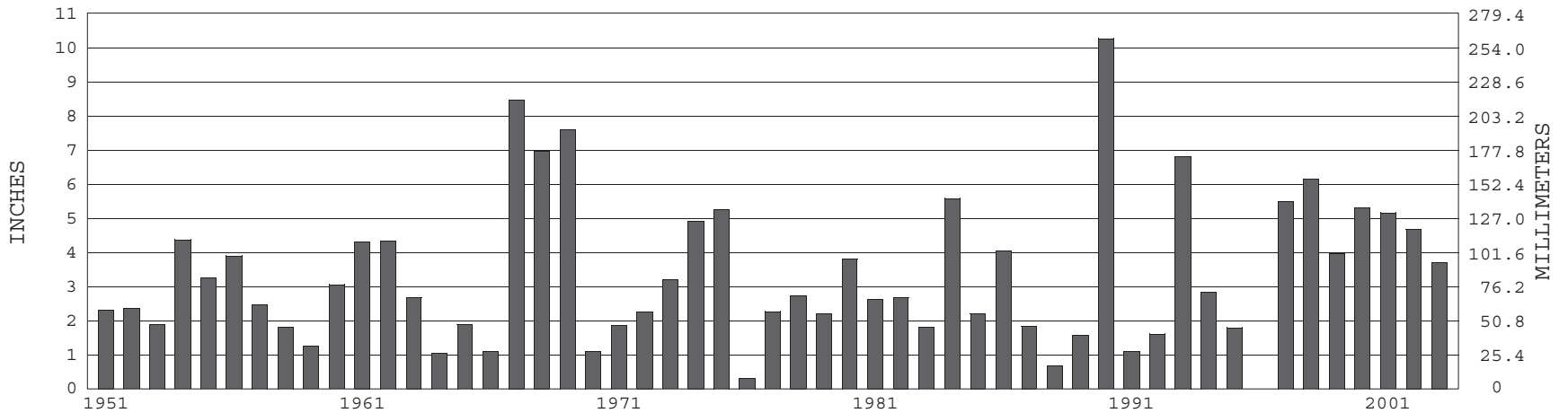
GREEN BAY, WI JUNE TEMPERATURES



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

Long-Term (1951-2003) Mean: 63.7 1961-1990 Normal: 65.4

GREEN BAY, WI JUNE PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 3.34

1961-1990 Normal: 3.43



JUNE 2003
GREEN BAY, 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.

DIRECTOR

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost is \$29 for online delivery (including back issues) compared to \$34 for offline delivery.** To order this and other subscriptions online with your credit card, go to: www.ncdc.noaa.gov and choose subscriptions.

We welcome your questions or comments, please contact us at
Toll Free Number (866) 742–3322 (voice)
Fax Number :(304) 726–4409
TDD : 828–271–4010
or Email : ncdc.info@noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center
310 State Route 956 Building 300
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G-19