



# MAY 2003

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# MILWAUKEE, WI

GENERAL MITCHELL FIELD (MKE)  
 Lat: 42°56' N Long: 87°53' W Elev (Ground): 677 Feet  
 Time Zone: CENTRAL WBAN: 14839 ISSN #:0198-5752

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																																				
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	51	39	45	-6	42	44	20	0	TSRA RA FG+ BR	0		0.0	0.19	29.11	29.86	12.2	02	13.2	29	03	25	15	01																																		
02	48	39	44	-7	23	35	21	0		0		0.0	0.00	29.35	30.11	20.0	02	20.0	36	02	28	02	02																																		
03	52	36	44	-8	28	37	21	0		0		0.0	0.00	29.44	30.20	6.2	05	6.6	21	01	16	02	03																																		
04	54	36*	45	-7	37	42	20	0	RA BR HZ	0		0.0	0.66	29.21	29.96	10.1	13	10.6	32	12	25	12	04																																		
05	62	44	53	1	49	50	12	0	TSRA RA FG+ BR HZ	0		0.0	0.19	28.78	29.51	5.2	17	12.0	33	10	28	10	05																																		
06	65	43	54	2	47	50	11	0	FG+ BR HZ	0		0.0	0.00	29.11	29.85	0.2	06	7.3	18	31	15	31	06																																		
07	48	40	44*	-9	43	44	21	0	RA BR	0		0.0	0.43	29.19	29.94	9.1	03	9.7	22	02	17	02	07																																		
08	55	43	49	-4	46	48	16	0	TSRA RA BR HZ	0		0.0	0.09	29.24	29.99	6.0	06	8.6	28	11	23	11	08																																		
09	81*	45	63*	10	52	56	2	0	TSRA RA FG+ BR HZ	0		0.0	0.63	28.98	29.72	6.9	16	14.5	31	24	25	24	09																																		
10	63	44	54	0	49	52	11	0	TS RA BR HZ	0		0.0	0.03	28.90	29.63	4.6	06	7.2	18	02	15	02	10																																		
11	61	47	54	0	44	47	11	0	RA BR	0		0.0	0.33	28.58	29.31	21.9	26	25.0	54*	25	41*	24	11																																		
12	64	46	55	0	37	46	10	0		0		0.0	0.00	29.08	29.82	15.4	31	16.8	40	29	31	30	12																																		
13	68	44	56	1	36	47	9	0		0		0.0	0.00	29.24	29.98	2.5	31	8.0	25	34	17	34	13																																		
14	56	43	50	-5	41	45	15	0	RA BR	0		0.0	0.30	29.19	29.93	3.0	12	4.8	20	08	16	08	14																																		
15	58	44	51	-5	43	47	14	0	RA BR	0		0.0	0.02	29.23	29.99	6.2	06	7.4	22	08	17	08	15																																		
16	57	45	51	-5	44	47	14	0	BR	0		0.0	0.00	29.31	30.07	6.7	03	8.3	17	02	15	03	16																																		
17	57	45	51	-5	48	49	14	0	FG+ BR	0		0.0	0.00	29.39	30.14	9.5	03	9.9	23	01	20	03	17																																		
18	59	46	53	-4	48	50	12	0	BR HZ	0		0.0	0.00	29.37	30.12	6.2	06	7.1	17	02	15	02	18																																		
19	63	50	57	0	56	57	8	0	RA FG+ BR HZ	0		0.0	0.10	29.31	30.05	6.1	15	6.9	16	18	14	18	19																																		
20	64	44	54	-4	44	49	11	0	TSRA RA BR	0		0.0	0.09	29.46	30.21	8.5	33	11.5	30	33	25	34	20																																		
21	52	39	46	-12	37	41	19	0		0		0.0	0.00	29.64	30.40	8.1	05	8.5	17	06	15	06	21																																		
22	58	38	48	-10	36	42	17	0		0		0.0	0.00	29.52	30.28	6.0	06	6.7	14	06	12	07	22																																		
23	57	46	52	-7	35	44	13	0		0		0.0	0.00	29.40	30.16	6.7	02	8.0	20	05	17	05	23																																		
24	64	50	57	-2	39	48	8	0		0		0.0	0.00	29.26	30.01	9.8	01	11.7	25	02	20	02	24																																		
25	63	41	52	-7	44	49	13	0		0		0.0	0.00	29.28	30.03	4.9	04	5.5	16	07	14	09	25																																		
26	64	49	57	-3	46	51	8	0		0		0.0	0.00	29.36	30.11	9.1	02	10.0	25	02	20	03	26																																		
27	71	48	60	0	48	54	5	0		0		0.0	0.00	29.37	30.11	2.7	07	5.7	14	10	12	10	27																																		
28	68	56	62	2	50	55	3	0	RA BR HZ	0		0.0	0.07	29.09	29.82	3.2	31	8.2	22	01	17	01	28																																		
29	66	49	58	-3	46	52	7	0	DZ BR	0		0.0	0.02	29.07	29.81	7.0	01	8.1	23	02	20	03	29																																		
30	72	51	62	1	50	54	3	0	RA BR HZ	0		0.0	0.48	28.85	29.59	6.7	20	8.6	26	21	22	21	30																																		
31	52	42	47	-14	40	44	18	0	RA BR	0		0.0	0.02	29.15	29.90	16.2	02	16.3	44	02	31	02	31																																		
60.4										44.3		52.4		■ ■		42.8		47.6		12.5		0.0		< MONTHLY AVERAGES		TOTALS->		0.0		3.65		29.21		29.96		4.0		03		10.1		<- MONTHLY AVERAGES															
-5.6										-1.9		-3.7		■ ■		<-----DEPARTURE FROM NORMAL----->																				0.59		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.18 DATE: 30-01										SEA LEVEL PRESSURE										DATE		TIME																									
MONTHLY										GREATEST 24-HR SNOWFALL: 0.0 DATE:										MAXIMUM										: 30.47		21 0752																									
TOTAL DEPARTURE										SEASON TO DATE										MINIMUM										: 29.21		11 1252																									
HEATING: 387 69 7049 48										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 0										PRECIPITATION ≥ 0.01 INCH: 16																	
COOLING: 0 -27 1 -31																				MAXIMUM TEMP ≤ 32: 0										MINIMUM TEMP ≤ 0: 0										PRECIPITATION ≥ 0.10 INCH: 9																	
																				THUNDERSTORMS: 6										HEAVY FOG: 6										SNOWFALL ≥ 1.0 INCH: 0																	

MAY 2003 MILWAUKEE, WI

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## MILWAUKEE, WI

MAY 2003

MKE

WBAN # 14839

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	0.10	0.01	T			0.02	0.01	T			T	0.06	01	T	0.01			T							01	0.21	0.19		
02													02												02		0.00		
03													03												03		0.00		
04													04								0.10	0.26	0.15	0.15	04		0.66		
05	0.03	T		0.02	0.02	0.07	0.04	0.01	T				05		T									05	0.19				
06													06												06		0.00		
07					T	0.04	T				T	T	07	T	0.10	0.11	0.17	0.01						07	0.43				
08													08											0.01	0.08		08	0.09	
09	0.13	0.06	0.23	0.21	T								09												09		0.63		
10												T	10	0.02						0.01				T	10		0.03		
11	T									T	0.01	0.03	11	0.04	0.01	0.04	0.06	0.05	0.05	0.02	0.02	T	T	11	0.33				
12													12												12		0.00		
13													13												13		0.00		
14												T	14	0.04	T	T	T	0.01	0.03	0.02	T	0.04	0.02	0.02	0.04		14	0.30	
15	0.01	T			T	0.01		T	T			0.06	15												15		0.02		
16													16												16		0.00		
17													17												17		0.00		
18													18												18		0.00		
19													19		0.01	0.06	0.01								19		0.10		
20	0.05	0.04	T	T	T								20							T				0.02	20		0.09		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28												T	28	0.02	T	T	T	0.03	0.02	T	T	T		28	0.07				
29								0.01	0.01	T	T		29												29		0.02		
30								T	T	T	T		30					0.01	0.24	0.04	0.01	0.12	0.06	T	30		0.48		
31			T	0.02				T	T	T			31												31		0.02		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.07	.12	.16	.18	.20	.25	.34	.40	.44	.47	.50	.57
Ending Date	30	30	30	30	30	09	09	09	09	09	04	09
Ending Time (Hour/Min)	1814	1819	1821	1821	1831	0313	0329	0337	0337	0337	2241	0337

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

## MILWAUKEE, WI MAY 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							.13	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							1.75	10.00	
05							.00	10.00	
06							.13	10.00	
07							.50	7.00	
08							2.00	10.00	
09							.25	10.00	
10							1.50	10.00	
11							1.50	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							3.00	10.00	
15							5.00	10.00	
16							5.00	10.00	
17							.25	7.00	
18							1.75	7.00	
19							.25	6.00	
20							2.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							9.00	10.00	
24							10.00	10.00	
25							8.00	10.00	
26							10.00	10.00	
27							9.00	10.00	
28							1.75	10.00	
29							1.25	10.00	
30							2.00	10.00	
31							.25	10.00	
<b>MONTHLY AVGS</b>							4.45	9.58	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 7            18           11									

# OBSERVATIONS AT 3-HOURLY INTERVALS

## MILWAUKEE, WI

MAY 2003

MKE

WBAN # 14839

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				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	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<b>SUNRISE: 0446</b>				<b>MAY 01</b>				<b>SUNSET: 1851</b>				<b>SUNRISE: 0438</b>				<b>MAY 07</b>				<b>SUNSET: 1858</b>							
03	VV	001		0.25	FG	46	46	46	100	8	01	29.00	29.75	03	OVC	003		2.00	BR	43	43	43	100	10	02	29.17	29.92
06	OVC	003		0.75	-RA BR	44	44	44	100	14	02	29.05	29.80	06	OVC	003		0.75	-RA BR	41	40	41	96	10	05	29.22	29.97
09	OVC	002		0.25	FG	44	43	44	96	16	02	29.10	29.85	09	OVC	002		0.75	BR	42	41	42	96	9	04	29.18	29.93
12	OVC	006		2.00	-RA BR	46	45	46	96	12	03	29.13	29.88	12	OVC	003		1.50	BR	44	43	44	96	15	02	29.18	29.93
15	OVC	050		4.00	BR	48	46	47	93	12	01	29.15	29.90	15	OVC	003		1.00	RA BR	45	45	45	100	14	03	29.16	29.92
18	OVC	025		9.00		47	41	44	80	12	01	29.15	29.90	18	OVC	003		2.50	BR	45	45	45	100	9	02	29.18	29.93
21	FEW	NC		10.00		45	33	40	63	15	02	29.18	29.93	21	OVC	003		1.50	BR	47	46	46	97	10	01	29.21	29.96
24	BKN	120		10.00		40	31	36	70	20	02	29.26	30.01	24	OVC	006		2.00	BR	48	47	47	96	5	35	29.20	29.96
<b>SUNRISE: 0445</b>				<b>MAY 02</b>				<b>SUNSET: 1852</b>				<b>SUNRISE: 0437</b>				<b>MAY 08</b>				<b>SUNSET: 1859</b>							
03	OVC	100		10.00		39	24	33	55	22	02	29.26	30.01	03	OVC	016		4.00	BR	49	47	48	93	7	34	29.22	29.96
06	BKN	100		10.00		39	26	34	60	20	02	29.31	30.07	06	FEW	NC		2.00	BR	49	48	48	97	5	33	29.24	29.99
09	BKN	150		10.00		42	31	37	65	21	01	29.35	30.12	09	BKN	250		5.00	BR	51	47	49	86	8	07	29.26	30.01
12	BKN	230		10.00		44	31	39	60	16	03	29.36	30.13	12	OVC	200		10.00		52	47	49	83	9	06	29.29	30.04
15	FEW	NC		10.00		46	20	36	35	20	03	29.37	30.14	15	OVC	006		2.00	BR	48	46	47	93	6	05	29.28	30.03
18	FEW	NC		10.00		44	16	34	32	17	02	29.37	30.14	18	OVC	009		6.00	BR	45	43	44	93	8	06	29.25	30.00
21	CLR	NC		10.00		43	17	34	35	18	02	29.37	30.13	21	OVC	023		5.00	BR	48	45	47	89	14	10	29.21	29.96
24	CLR	NC		10.00		41	24	35	51	15	02	29.39	30.15	24	BKN	024		2.00	-RA BR	50	49	49	96	18	11	29.09	29.84
<b>SUNRISE: 0443</b>				<b>MAY 03</b>				<b>SUNSET: 1853</b>				<b>SUNRISE: 0436</b>				<b>MAY 09</b>				<b>SUNSET: 1900</b>							
03	CLR	NC		10.00		37	31	35	79	7	03	29.42	30.19	03	OVC	012		1.50	+RA BR	45	45	45	100	15	09	29.07	29.82
06	CLR	NC		10.00		39	34	37	82	6	03	29.45	30.22	06	OVC	002		0.25	FG	47	47	47	100	18	13	29.01	29.76
09	CLR	NC		10.00		45	32	39	61	9	05	29.48	30.25	09	OVC	007		4.00	BR	54	51	52	90	17	15	28.98	29.73
12	CLR	NC		10.00		48	29	40	48	9	05	29.48	30.24	12	SCT	NC		5.00	HZ	65	59	61	81	14	18	28.94	29.68
15	CLR	NC		10.00		51	26	41	38	7	06	29.43	30.19	15	FEW	NC		10.00		80	56	65	44	23	25	28.92	29.66
18	FEW	NC		10.00		46	24	37	42	7	07	29.40	30.16	18	CLR	NC		10.00		76	55	63	48	13	26	28.95	29.68
21	CLR	NC		10.00		38	25	33	60	0	00	29.41	30.18	21	CLR	NC		10.00		68	53	59	59	5	26	29.00	29.73
24	CLR	NC		10.00		39	25	34	57	0	00	29.41	30.17	24	CLR	NC		10.00		63	53	57	70	7	33	28.97	29.70
<b>SUNRISE: 0442</b>				<b>MAY 04</b>				<b>SUNSET: 1854</b>				<b>SUNRISE: 0435</b>				<b>MAY 10</b>				<b>SUNSET: 1901</b>							
03	CLR	NC		10.00		37	27	33	67	0	00	29.38	30.14	03	SCT	NC		10.00		57	52	54	83	6	32	28.98	29.71
06	BKN	240		10.00		40	35	38	83	0	00	29.31	30.08	06	FEW	NC		10.00		58	51	54	78	3	36	28.98	29.72
09	BKN	200		9.00		53	39	46	59	18	16	29.31	30.06	09	CLR	NC		10.00		58	49	53	72	7	01	28.99	29.72
12	OVC	160		8.00		54	39	47	57	14	15	29.30	30.05	12	OVC	031		7.00	-RA	56	48	52	75	9	05	28.97	29.70
15	OVC	150		6.00	HZ	48	39	44	71	8	10	29.19	29.94	15	SCT	NC		10.00		60	51	55	72	7	04	28.90	29.63
18	OVC	130		10.00		50	36	44	59	14	13	29.09	29.84	18	FEW	NC		7.00		52	47	49	83	8	10	28.83	29.57
21	OVC	038		4.00	RA	47	42	45	83	15	11	29.02	29.77	21	OVC	002		1.50	BR	47	46	46	97	7	07	28.73	29.46
24	OVC	015		1.75	+RA BR	46	45	46	96	16	13	28.92	29.67	24	OVC	003		1.50	-RA BR	49	48	48	97	5	13	28.60	29.33
<b>SUNRISE: 0441</b>				<b>MAY 05</b>				<b>SUNSET: 1856</b>				<b>SUNRISE: 0433</b>				<b>MAY 11</b>				<b>SUNSET: 1902</b>							
03	OVC	001		1.25	BR	45	44	45	97	17	11	28.80	29.54	03	BKN	034		10.00		57	50	53	78	26	24	28.53	29.26
06	OVC	001		0.25	-TSRA BR	45	45	45	100	17	12	28.70	29.44	06	OVC	025		10.00		50	41	46	71	24	24	28.52	29.25
09	OVC	001		0.25	BR	47	47	47	100	9	14	28.67	29.41	09	OVC	025		10.00		49	40	45	71	29	24	28.49	29.23
12	OVC	011		3.00	BR	52	50	51	93	3	16	28.71	29.45	12	OVC	027		4.00	-RA BR	48	45	46	89	20	24	28.48	29.21
15	BKN	039		6.00	HZ	62	54	57	75	14	25	28.76	29.49	15	OVC	026		4.00	-RA BR	50	46	48	86	24	26	28.52	29.25
18	OVC	045		9.00		59	51	55	75	10	24	28.82	29.55	18	OVC	028		4.00	-RA	51	46	49	83	24	28	28.63	29.36
21	BKN	055		10.00		56	49	52	77	12	27	28.85	29.60	21	OVC	032		10.00		49	42	46	77	24	30	28.74	29.48
24	SCT	NC		10.00		54	49	51	83	8	26	28.91	29.65	24	OVC	038		10.00		50	38	44	63	23	30	28.83	29.57
<b>SUNRISE: 0440</b>				<b>MAY 06</b>				<b>SUNSET: 1857</b>				<b>SUNRISE: 0432</b>				<b>MAY 12</b>				<b>SUNSET: 1903</b>							
03	SCT	NC		8.00		52	49	50	89	7	27	28.96	29.70	03	OVC	036		10.00		49	38	44	66	22	31	28.89	29.63
06	BKN	027		4.00	BR	51	48	50	89	7	30	29.03	29.77	06	BKN	034		10.00		50	38	44	63	17	32	28.97	29.71
09	BKN	033		10.00		57	48	52	72	9	31	29.07	29.81	09	BKN	250		10.00		55	40	48	57	16	31	29.05	29.79
12	BKN	041		8.00		62	46	54	56	13	30	29.14	29.88	12	BKN	048		10.00		59	40	50	49	24	32	29.10	29.84
15	BKN	050		6.00	HZ	57	50	53	78	10	15	29.15	29.89	15	BKN	055		10.00		61	38	50	43	17	33	29.13	29.88
18	VV	001		0.13	FG	43	43	43	100	10	08	29.19	29.94	18	BKN	250		10.00		62	30	47	30	15	32	29.17	29.91
21	FEW	NC		7.00		45	42	44	90	6	06	29.22	29.96	21	FEW	NC		10.00		51	35	44	54	9	07	29.22	29.96
24	OVC	100		7.00		45	43	44	93	0	00	29.23	29.97	24	FEW	NC		10.00		48	36	43	63	6	22	29.21	29.96

# OBSERVATIONS AT 3-HOURLY INTERVALS

## MILWAUKEE, WI

MAY 2003

MKE

WBAN # 14839

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				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	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 Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<b>SUNRISE: 0431 MAY 13 SUNSET: 1904</b>																													
03	CLR	NC		10.00	51	37	45	59	10	30	29.20	29.95	03	OVC	028		5.00	BR	55	52	53	90	7	15	29.32	30.08			
06	CLR	NC		10.00	53	37	46	55	12	30	29.25	29.99	06	OVC	011		2.00	BR	53	51	52	93	7	12	29.34	30.09			
09	CLR	NC		10.00	62	38	50	41	8	31	29.26	30.00	09	OVC	001		0.25	FG	54	54	54	100	6	13	29.34	30.09			
12	CLR	NC		10.00	68	38	53	33	18	34	29.25	29.99	12	OVC	004		2.00	BR	60	57	58	90	9	14	29.34	30.09			
15	CLR	NC		10.00	62	39	51	43	9	12	29.24	29.98	15	OVC	007		0.75	-RA BR	59	58	58	96	9	13	29.30	30.04			
18	FEW	NC		10.00	59	34	47	39	8	14	29.23	29.98	18	OVC	009		2.00	BR	63	61	62	93	7	19	29.29	30.03			
21	CLR	NC		10.00	54	33	44	45	5	21	29.25	29.99	21	BKN	130		3.00	BR	62	60	61	93	9	15	29.24	29.98			
24	CLR	NC		10.00	52	33	43	49	0	00	29.23	29.98	24	OVC	080		2.50	-RA BR	63	61	62	93	5	23	29.23	29.97			
<b>SUNRISE: 0430 MAY 14 SUNSET: 1906</b>																													
03	BKN	230		10.00	46	35	41	66	0	00	29.20	29.94	03	OVC	017		10.00		62	59	60	90	16	31	29.24	29.97			
06	BKN	140		9.00	52	41	47	66	0	00	29.19	29.94	06	OVC	010		10.00		52	49	50	89	17	31	29.34	30.09			
09	OVC	070		10.00	54	42	48	64	5	12	29.22	29.97	09	SCT	NC		10.00		55	43	49	64	17	34	29.42	30.17			
12	OVC	028		5.00	53	46	49	77	9	13	29.22	29.96	12	FEW	NC		10.00		60	38	49	44	13	31	29.48	30.23			
15	OVC	055		10.00	52	43	48	72	6	16	29.15	29.90	15	SCT	NC		10.00		56	41	49	57	12	05	29.52	30.27			
18	OVC	048		5.00	50	44	47	80	0	00	29.16	29.91	18	FEW	NC		10.00		51	38	45	61	7	07	29.55	30.31			
21	OVC	055		3.00	45	43	44	93	5	33	29.19	29.94	21	CLR	NC		10.00		48	36	43	63	0	00	29.62	30.37			
24	OVC	041		5.00	44	42	43	93	7	03	29.18	29.93	24	CLR	NC		10.00		44	36	41	73	6	01	29.66	30.41			
<b>SUNRISE: 0429 MAY 15 SUNSET: 1907</b>																													
03	OVC	050		10.00	47	45	46	93	6	02	29.16	29.91	03	CLR	NC		10.00		41	36	39	82	6	05	29.69	30.45			
06	OVC	042		9.00	45	41	43	86	9	04	29.19	29.94	06	CLR	NC		10.00		43	36	40	76	10	08	29.70	30.46			
09	OVC	060		8.00	47	42	45	83	8	03	29.23	29.98	09	FEW	NC		10.00		47	36	42	66	12	07	29.70	30.47			
12	SCT	NC		10.00	56	46	51	70	10	08	29.26	30.01	12	FEW	NC		10.00		48	39	44	71	10	07	29.68	30.45			
15	SCT	NC		10.00	57	45	51	64	15	07	29.25	30.00	15	BKN	250		10.00		51	38	45	61	7	05	29.60	30.37			
18	FEW	NC		10.00	54	43	49	67	6	02	29.27	30.02	18	BKN	250		10.00		46	37	42	71	10	04	29.56	30.33			
21	FEW	NC		10.00	50	41	46	71	0	00	29.30	30.05	21	FEW	NC		10.00		42	35	39	76	6	02	29.57	30.33			
24	CLR	NC		8.00	50	42	46	74	5	30	29.27	30.01	24	FEW	NC		10.00		42	34	39	73	5	04	29.55	30.32			
<b>SUNRISE: 0428 MAY 16 SUNSET: 1908</b>																													
03	BKN	075		8.00	49	41	45	74	8	30	29.27	30.01	03	FEW	NC		10.00		40	34	37	79	6	06	29.54	30.30			
06	BKN	044		6.00	45	41	43	86	9	04	29.29	30.03	06	CLR	NC		10.00		43	36	40	76	6	06	29.56	30.33			
09	OVC	075		10.00	53	43	48	69	10	03	29.31	30.06	09	CLR	NC		10.00		49	39	44	69	6	04	29.56	30.33			
12	SCT	NC		10.00	55	47	51	74	10	04	29.32	30.08	12	SCT	NC		10.00		51	39	45	64	8	10	29.53	30.29			
15	SCT	NC		10.00	54	47	50	77	12	05	29.31	30.06	15	SCT	NC		10.00		57	29	45	34	5	VR	29.49	30.25			
18	OVC	025		8.00	49	45	47	86	7	07	29.32	30.08	18	BKN	200		10.00		46	36	42	68	10	07	29.47	30.23			
21	FEW	NC		7.00	47	45	46	93	7	03	29.36	30.11	21	BKN	110		10.00		45	34	40	66	5	03	29.48	30.24			
24	FEW	NC		5.00	47	45	46	93	12	01	29.34	30.09	24	CLR	NC		10.00		46	33	40	61	5	04	29.45	30.21			
<b>SUNRISE: 0427 MAY 17 SUNSET: 1909</b>																													
03	OVC	007		4.00	48	47	47	96	5	02	29.34	30.10	03	CLR	NC		10.00		48	32	41	54	3	34	29.42	30.17			
06	OVC	002		0.25	49	49	49	100	9	03	29.38	30.14	06	BKN	090		10.00		48	34	42	58	6	34	29.44	30.20			
09	OVC	001		0.50	49	48	48	97	9	03	29.39	30.15	09	BKN	110		9.00		53	40	47	61	8	04	29.45	30.21			
12	BKN	008		4.00	54	50	52	87	8	05	29.41	30.16	12	SCT	NC		10.00		54	41	48	62	10	04	29.42	30.17			
15	SCT	NC		4.00	51	48	50	89	17	04	29.41	30.16	15	FEW	NC		10.00		54	36	46	51	13	04	29.39	30.15			
18	OVC	002		1.50	48	47	47	96	14	03	29.39	30.15	18	FEW	NC		10.00		54	35	45	49	7	03	29.37	30.12			
21	CLR	NC		7.00	48	46	47	93	9	36	29.38	30.14	21	CLR	NC		10.00		50	32	42	50	5	30	29.34	30.10			
24	SCT	NC		6.00	48	45	47	89	9	36	29.38	30.13	24	CLR	NC		10.00		50	29	41	44	7	30	29.31	30.07			
<b>SUNRISE: 0426 MAY 18 SUNSET: 1910</b>																													
03	CLR	NC		4.00	47	46	46	97	5	06	29.39	30.15	03	OVC	044		10.00		52	37	45	57	7	31	29.29	30.03			
06	CLR	NC		2.00	50	49	49	96	6	08	29.41	30.17	06	OVC	075		10.00		53	37	46	55	12	31	29.28	30.02			
09	SCT	NC		2.50	53	50	51	89	10	09	29.41	30.16	09	CLR	NC		10.00		59	36	48	42	15	03	29.26	30.00			
12	BKN	240		4.00	58	52	55	81	8	06	29.37	30.12	12	SCT	NC		10.00		59	39	49	48	10	02	29.27	30.01			
15	BKN	240		4.00	56	51	53	84	6	05	29.34	30.09	15	FEW	NC		10.00		63	41	52	45	15	02	29.25	29.99			
18	OVC	042		4.00	52	47	49	83	13	02	29.34	30.10	18	SCT	NC		10.00		58	43	50	58	13	02	29.25	30.00			
21	OVC	043		7.00	53	47	50	80	5	04	29.35	30.10	21	BKN	075		10.00		56	44	50	65	6	36	29.27	30.01			
24	OVC	080		6.00	50	45	48	83	6	07	29.34	30.09	24	CLR	NC		10.00		52	45	48	77	10	02	29.26	30.00			

# OBSERVATIONS AT 3-HOURLY INTERVALS

## MILWAUKEE, WI

MAY 2003

MKE

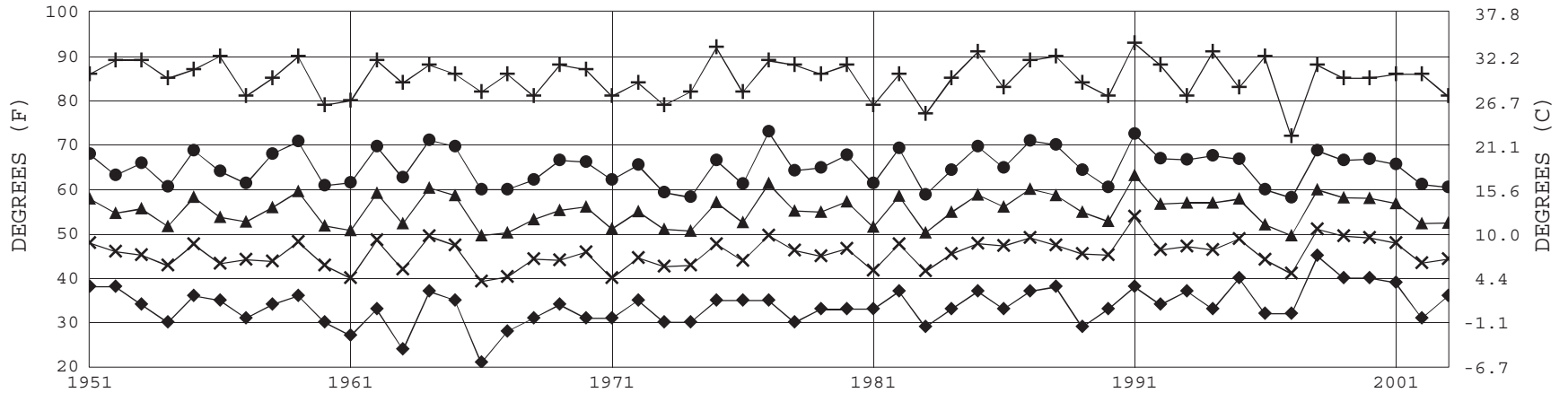
WBAN # 14839

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)		
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0420								MAY 25								SUNSET: 1917																
03	CLR	NC				10.00		45	43	44	93	7	05	29.25	30.00	03	OVC	002				2.00	-RA	BR	48	47	47	96	16	02	28.87	29.61
06	CLR	NC				9.00		48	44	46	86	0	00	29.29	30.03	06	OVC	005				10.00			48	47	47	96	24	01	29.00	29.75
09	CLR	NC				10.00		58	47	52	67	6	04	29.29	30.03	09	OVC	008				3.00	BR		47	45	46	93	18	01	29.15	29.89
12	FEW	NC				10.00		62	47	54	58	8	10	29.29	30.03	12	OVC	019				10.00			48	43	46	83	14	02	29.23	29.97
15	FEW	NC				10.00		63	44	53	50	8	06	29.28	30.03	15	CLR	NC				10.00			48	36	43	63	17	02	29.25	30.00
18	FEW	NC				10.00		59	42	50	54	6	03	29.29	30.03	18	CLR	NC				10.00			46	33	40	61	15	02	29.27	30.02
21	FEW	NC				10.00		53	40	47	61	0	00	29.31	30.06	21	SCT	NC				10.00			43	32	38	65	9	01	29.31	30.07
24	CLR	NC				10.00		52	41	47	66	0	00	29.32	30.07	24	SCT	NC				10.00			43	32	38	65	5	03	29.31	30.08
SUNRISE: 0419								MAY 26								SUNSET: 1918																
03	CLR	NC				10.00		51	43	47	74	5	31	29.32	30.07	3-HOURLY OBSERVATION NOTES																
06	FEW	NC				10.00		54	42	48	64	7	33	29.36	30.11	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8,																
09	CLR	NC				10.00		60	40	50	48	17	04	29.38	30.13	SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.																
12	FEW	NC				10.00		62	49	55	62	14	03	29.37	30.12	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																
15	FEW	NC				10.00		60	50	55	70	16	03	29.36	30.11	NC= No ceiling detected.																
18	FEW	NC				10.00		61	47	54	60	17	02	29.35	30.10	& = Original observation contained additional weather elements.																
21	CLR	NC				10.00		54	47	50	77	8	02	29.37	30.12	See page 3 for additional notes.																
24	CLR	NC				10.00		54	46	50	75	7	01	29.38	30.13																	
SUNRISE: 0419								MAY 27								SUNSET: 1919																
03	CLR	NC				10.00		52	46	49	80	0	00	29.39	30.15																	
06	FEW	NC				10.00		56	49	52	77	5	34	29.44	30.19																	
09	FEW	NC				10.00		66	51	58	59	9	06	29.43	30.19																	
12	SCT	NC				10.00		70	52	60	53	10	08	29.39	30.14																	
15	SCT	NC				10.00		67	50	57	55	8	09	29.35	30.10																	
18	FEW	NC				10.00		65	47	55	52	6	12	29.31	30.06																	
21	CLR	NC				9.00		61	47	54	60	3	20	29.30	30.03																	
24	CLR	NC				10.00		59	45	52	60	7	21	29.25	29.98																	
SUNRISE: 0418								MAY 28								SUNSET: 1919																
03	CLR	NC				10.00		58	44	51	60	9	23	29.18	29.91																	
06	OVC	100				9.00		59	47	53	64	6	VR	29.11	29.85																	
09	OVC	130				8.00		68	48	57	49	13	26	29.09	29.82																	
12	OVC	080				6.00	-RA	64	55	59	73	7	06	29.05	29.79																	
15	OVC	055				7.00	-RA	65	53	58	66	8	08	29.02	29.75																	
18	OVC	018				3.00	-RA BR	60	58	59	93	6	02	29.04	29.78																	
21	OVC	080				10.00		59	52	55	78	12	35	29.08	29.81																	
24	FEW	NC				10.00		57	45	51	64	10	33	29.06	29.80																	
SUNRISE: 0417								MAY 29								SUNSET: 1920																
03	BKN	035				10.00		56	45	50	67	9	33	29.02	29.76																	
06	OVC	024				10.00		56	47	51	72	9	33	29.04	29.78																	
09	OVC	004				1.25	-DZ BR	51	51	51	100	14	01	29.09	29.84																	
12	BKN	017				9.00		60	52	56	75	7	02	29.12	29.85																	
15	BKN	240				10.00		65	46	55	51	12	03	29.09	29.82																	
18	SCT	NC				10.00		64	39	51	40	8	03	29.07	29.81																	
21	FEW	NC				10.00		57	41	49	55	3	28	29.09	29.83																	
24	CLR	NC				10.00		54	41	48	62	0	00	29.05	29.79																	
SUNRISE: 0417								MAY 30								SUNSET: 1921																
03	FEW	NC				10.00		53	44	49	72	3	VR	29.01	29.75																	
06	BKN	180				6.00	HZ	54	48	51	80	6	21	28.95	29.69																	
09	OVC	150				9.00	-RA	59	49	54	69	5	25	28.97	29.70																	
12	OVC	070				10.00		62	46	54	56	12	20	28.86	29.60																	
15	SCT	NC				10.00		71	52	60	51	17	20	28.77	29.49																	
18	OVC	050				4.00	-RA	63	54	58	73	7	16	28.70	29.42																	
21	OVC	040				4.00	-RA BR	58	56	57	93	5	06	28.74	29.47																	
24	OVC	004				2.00	BR	52	51	52	97	6	01	28.76	29.49																	

### SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			49	42	46	79	29.18	29.93	7.20	9	4	3
02			49	42	46	80	29.18	29.93	7.44	9	4	1
03			49	42	46	80	29.19	29.93	7.74	9	4	35
04			48	42	45	81	29.19	29.94	7.58	9	3	34
05			48	42	45	82	29.20	29.94	6.88	10	3	35
06			49	43	46	80	29.20	29.95	7.10	10	4	1
07			50	42	47	76	29.21	29.96	7.21	11	4	36
08			52	43	48	74	29.22	29.97	6.81	11	5	1
09			53	44	48	73	29.22	29.97	7.12	12	5	3
10			54	44	49	71	29.23	29.97	7.77	12	5	3
11			55	45	50	71	29.23	29.97	7.82	12	5	3
12			56	45	51	69	29.22	29.97	7.69	11	5	4
13			57	46	51	69	29.22	29.96	7.58	12	5	5
14			57	45	51	68	29.21	29.96	7.71	12	5	4
15			57	44	51	65	29.20	29.95	7.90	12	5	4
16			57	44	50	64	29.20	29.95	8.02	13	5	4
17			55	43	49	65	29.20	29.95	7.71	11	5	3
18			54	42	48	68	29.20	29.95	7.58	10	5	3
19			52	42	47	70	29.21	29.95	8.08	9	4	2
20			51	41	47	70	29.21	29.95	8.60	8	4	3
21			51	41	46	73	29.22	29.96	8.03	8	4	2
22			50	41	46	75	29.21	29.96	7.90	7	4	3
23			49	41	46	75	29.21	29.96	7.85	7	3	2
24			49	41	46	75	29.20	29.95	7.70	7	3	1

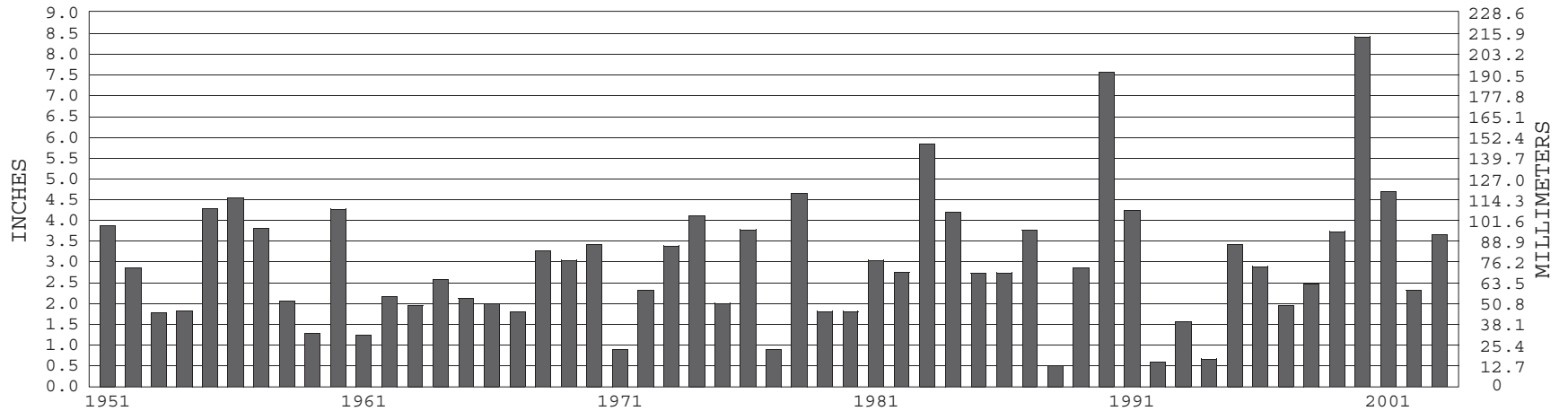
### MILWAUKEE, WI MAY TEMPERATURES



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

Long-Term (1951-2003) Mean: 55.3      1961-1990 Normal: 56.1

### MILWAUKEE, WI MAY PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 2.95

1961-1990 Normal: 3.06



MAY 2003

MILWAUKEE, 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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