



SEPTEMBER 2002

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																							
																			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	82	62	72	5	65	68	0	7	BCFG BR HZ	0		0.0	0.00	29.35	30.09	5.2	18	6.4	18	16	17	16	01																					
02	80	63	72	5	67	69	0	7	TSRA RA BR HZ VCTS	0		0.0	1.34	29.10	29.83	10.2	21	12.9	37*	16	31*	16	02																					
03	79	63	71	4	54	61	0	6		0		0.0	0.00	29.24	29.97	9.3	29	9.9	23	32	18	31	03																					
04	74	60	67	0	56	61	0	2		0		0.0	0.00	29.44	30.18	1.3	04	5.1	12	11	10	07	04																					
05	74	57	66	-1	60	62	0	1	BCFG	0		0.0	0.00	29.44	30.19	3.8	09	4.8	15	07	13	07	05																					
06	78	57	68	2	63	65	0	3	BR HZ	0		0.0	0.00	29.35	30.09	6.1	16	7.2	21	14	18	14	06																					
07	85	64	75	9	62	66	0	10	BR HZ	0		0.0	0.00	29.39	30.13	4.8	19	6.4	17	15	16	15	07																					
08	85	62	74	8	64	68	0	9	BR HZ	0		0.0	0.00	29.43	30.16	3.9	16	5.1	16	14	15	13	08																					
09	90*	70	80*	15	68	72	0	15	BR HZ	0		0.0	0.00	29.36	30.08	4.6	25	5.3	15	25	13	22	09																					
10	84	60	72	7	62	66	0	7	RA HZ	0		0.0	T	29.22	29.95	8.0	31	11.3	26	01	22	34	10																					
11	71	56	64	-1	50	56	1	0		0		0.0	0.00	29.35	30.10	4.2	01	5.9	18	02	15	03	11																					
12	77	53	65	1	49	57	0	0		0		0.0	0.00	29.32	30.06	5.3	25	5.8	17	26	14	28	12																					
13	75	58	67	3	54	59	0	2		0		0.0	0.00	29.26	29.99	4.1	20	6.2	15	14	14	14	13																					
14	79	56	68	4	57	61	0	3	RA BR HZ	0		0.0	0.02	29.16	29.90	4.0	26	7.0	20	36	16	01	14																					
15	67	53	60	-3	52	56	5	0		0		0.0	0.00	29.37	30.11	10.7	02	11.5	31	02	24	02	15																					
16	75	49	62	-1	50	56	3	0		0		0.0	0.00	29.34	30.08	3.4	24	5.1	17	23	14	25	16																					
17	78	55	67	4	57	61	0	2		0		0.0	0.00	29.25	29.98	4.3	17	6.2	18	14	16	14	17																					
18	77	63	70	8	65	66	0	5	RA BR HZ FU	0		0.0	0.40	29.03	29.75	4.8	18	8.8	23	25	16	14	18																					
19	80	69	75	13	70	71	0	10	RA BR VCTS	0		0.0	0.28	28.90	29.62	9.7	20	10.1	26	22	21	23	19																					
20	72	63	68	6	65	66	0	3	RA BR	0		0.0	0.06	28.87	29.59	10.2	21	11.9	26	22	21	22	20																					
21	73	58	66	5	52	57	0	1	RA	0		0.0	T	29.16	29.90	4.9	29	8.8	22	34	17	34	21																					
22	65	50	58	-2	40	49	7	0	RA	0		0.0	0.01	29.34	30.08	8.6	29	9.0	28	27	20	29	22																					
23	65	43	54	-6	40	48	11	0		0		0.0	0.00	29.38	30.13	7.6	24	10.6	31	30	23	30	23																					
24	59	42*	51*	-9	39	45	14	0		0		0.0	0.00	29.55	30.31	1.2	22	7.5	22	31	16	30	24																					
25	70	43	57	-3	48	53	8	0		0		0.0	0.00	29.46	30.21	6.3	16	6.9	21	14	18	14	25																					
26	74	52	63	4	54	57	2	0	BCFG BR	0		0.0	0.00	29.20	29.94	2.4	05	7.1	20	01	15	02	26																					
27	63	50	57	-2	50	53	8	0	BR	0		0.0	0.00	29.15	29.89	12.2	01	12.5	28	01	23	02	27																					
28	67	47	57	-2	52	56	8	0	RA BR HZ	0		0.0	0.02	29.37	30.11	6.7	13	8.0	21	12	16	13	28																					
29	80	61	71	13	63	65	0	6	TSRA RA BR HZ	0		0.0	0.66	29.26	30.00	8.8	19	9.6	23	18	18	22	29																					
30	83	67	75	17	59	65	0	10		0		0.0	0.00	29.15	29.87	12.4	21	13.2	29	21	23	20	30																					
< MONTHLY AVERAGES										TOTALS-->			0.0	2.79	29.27	30.01	1.3	22	8.2	<- MONTHLY AVERAGES																								
3.5										2.8		3.2				<-----DEPARTURE FROM NORMAL----->										- .51		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.34 DATE :02									SEA LEVEL PRESSURE									DATE		TIME															
MONTHLY									GREATEST 24-HR SNOWFALL: 0.0 DATE :									MAXIMUM									: 30.35		24 0852															
TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :									MINIMUM									: 29.50		20 1352															
SEASON TO DATE									NUMBER OF									MAXIMUM TEMP ≥ 90: 1									MINIMUM TEMP ≤ 32: 0									PRECIPITATION ≥ 0.01 INCH : 8								
HEATING: 67 -67									MAXIMUM TEMP ≤ 32 : 0									MINIMUM TEMP ≤ 0 : 0									PRECIPITATION ≥ 0.10 INCH : 4																	
COOLING: 109 46									THUNDERSTORMS : 2									HEAVY FOG : 0									SNOWFALL ≥ 1.0 INCH : 0																	
TOTAL DEPARTURE									TOTAL DEPARTURE									TOTAL DEPARTURE									TOTAL DEPARTURE									TOTAL DEPARTURE								
67 -67									67 -98									67 -98									67 -98									67 -98								
109 46									888 277									888 277									888 277									888 277								

SEPTEMBER 2002
MILWAUKEE, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MILWAUKEE, WI

SEPTEMBER 2002

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													01												01	0.27	0.00	
02					0.24	0.37	0.44	0.13	0.01	T	T		02										0.11	0.04	02		1.34	
03													03												03		0.00	
04													04												04		0.00	
05													05												05		0.00	
06													06												06		0.00	
07													07												07		0.00	
08													08												08		0.00	
09													09												09		0.00	
10													10		T	T									10		0.00	
11													11												11		0.00	
12													12												12		0.00	
13													13												13		0.00	
14													14		T	T	T		0.01	0.01					14		0.02	
15													15												15		0.00	
16													16												16		0.00	
17													17												17		0.00	
18				0.01	0.09	0.01	0.15	0.13	T	0.01			18					T							18		0.40	
19				T	T	T						0.01	19		0.10	0.16									19		0.28	
20								T	0.01	0.02	0.01	0.02	20	T		T									20		0.06	
21													21								T	T			21		T	
22		T	T	0.01	T								22												22		0.01	
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													28										T	0.02	28		0.02	
29	0.01	T	0.08	0.25	0.18	0.03	0.05	0.06					29												29		0.66	
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)	.09	.18	.23	.28	.42	.54	.58	.65	.84	.99	1.07	1.15
Ending Date	02	02	02	02	02	02	02	02	02	02	02	02
Ending Time (Hour/Min)	0449	0450	0453	0507	0509	0522	0527	0600	0619	0637	0708	0732

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.

* = 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

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

WEATHER NOTATIONS

**MILWAUKEE, WI
SEPTEMBER 2002**

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.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.75	10.00	
02							1.75	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							8.00	10.00	
06							.75	10.00	
07							4.00	10.00	
08							4.00	10.00	
09							3.00	10.00	
10							4.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							7.00	10.00	
14							3.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							8.00	10.00	
18							.75	10.00	
19							1.50	10.00	
20							5.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							.50	10.00	
27							.50	10.00	
28							1.75	10.00	
29							1.50	10.00	
30							9.00	10.00	
MONTHLY AVGS							6.03	10.00	

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

0 10 16

OBSERVATIONS AT 3-HOURLY INTERVALS

MILWAUKEE, WI

SEPTEMBER 2002

MKE

WBAN # 14839

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 <small>Oktas</small>		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 <small>Oktas</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
					SUNRISE: 0516	SEP 01			SUNSET: 1828										SUNRISE: 0522	SEP 07									
03	FEW	NC			3.00	BR	BCFG	67	66	66	97	0	00	29.44	30.17	03	CLR	NC		9.00	66	60	62	81	6	22	29.35	30.08	
06	CLR	NC			1.50	BR	BCFG	65	63	64	93	0	00	29.44	30.18	06	FEW	NC		8.00	66	59	62	78	3	22	29.38	30.12	
09	FEW	NC			10.00			77	66	70	69	6	25	29.42	30.16	09	FEW	NC		10.00	77	61	67	58	8	22	29.40	30.14	
12	BKN	250			10.00			81	65	70	58	3	VR	29.37	30.11	12	FEW	NC		10.00	84	63	70	49	7	24	29.39	30.13	
15	BKN	250			10.00			79	68	72	69	13	14	29.31	30.04	15	CLR	NC		10.00	80	64	70	58	14	14	29.37	30.11	
18	BKN	220			9.00			75	63	67	66	9	17	29.27	30.00	18	CLR	NC		10.00	75	64	68	69	6	16	29.38	30.12	
21	BKN	250			6.00	HZ		72	63	66	73	7	18	29.27	30.00	21	CLR	NC		8.00	71	63	66	76	6	20	29.41	30.15	
24	BKN	220			3.00	HZ		71	65	67	81	6	21	29.24	29.96	24	CLR	NC		7.00	69	61	64	76	0	00	29.42	30.16	
					SUNRISE: 0517	SEP 02			SUNSET: 1826										SUNRISE: 0524	SEP 08									
03	SCT	NC			5.00	HZ		72	66	68	82	8	22	29.19	29.91	03	CLR	NC		6.00	64	59	61	84	0	00	29.41	30.15	
06	OVC	060			2.50	RA	BR	64	62	63	93	0	00	29.25	29.98	06	CLR	NC		4.00	66	62	64	87	0	00	29.46	30.20	
09	OVC	140			10.00	-RA		65	64	64	97	23	16	29.09	29.82	09	CLR	NC		10.00	80	65	70	60	5	22	29.47	30.20	
12	OVC	150			10.00			73	66	69	79	13	19	29.10	29.83	12	CLR	NC		8.00	83	69	74	63	9	11	29.43	30.16	
15	BKN	220			10.00			76	68	71	77	17	21	29.03	29.76	15	CLR	NC		8.00	83	67	72	59	12	13	29.40	30.13	
18	FEW	NC			6.00	HZ		79	69	72	72	15	22	28.99	29.71	18	CLR	NC		5.00	79	65	70	62	8	17	29.39	30.13	
21	SCT	NC			7.00			78	71	73	79	14	21	29.00	29.72	21	CLR	NC		5.00	75	64	68	69	5	VR	29.41	30.15	
24	SCT	NC			10.00			71	67	68	87	10	29	29.09	29.82	24	CLR	NC		4.00	73	65	68	76	6	22	29.41	30.15	
					SUNRISE: 0518	SEP 03			SUNSET: 1825										SUNRISE: 0525	SEP 09									
03	CLR	NC			10.00			65	59	61	81	12	31	29.13	29.86	03	CLR	NC		3.00	72	66	68	82	0	00	29.40	30.14	
06	CLR	NC			10.00			63	56	59	78	8	31	29.21	29.93	06	CLR	NC		3.00	71	67	68	87	0	00	29.41	30.14	
09	CLR	NC			10.00			72	54	61	53	10	30	29.25	29.97	09	CLR	NC		7.00	83	69	74	63	8	28	29.40	30.14	
12	CLR	NC			10.00			77	50	61	39	10	27	29.25	29.98	12	SCT	NC		10.00	88	69	75	54	8	29	29.36	30.10	
15	CLR	NC			10.00			78	51	62	39	10	27	29.25	29.98	15	SCT	NC		6.00	89	70	76	53	6	27	29.32	30.05	
18	CLR	NC			10.00			76	50	61	40	12	31	29.27	30.01	18	FEW	NC		9.00	85	68	73	57	8	25	29.31	30.03	
21	CLR	NC			10.00			70	53	60	55	5	28	29.31	30.03	21	CLR	NC		8.00	78	69	72	74	6	23	29.31	30.03	
24	CLR	NC			10.00			64	53	58	68	3	26	29.34	30.07	24	CLR	NC		5.00	74	69	71	85	6	22	29.27	30.00	
					SUNRISE: 0519	SEP 04			SUNSET: 1823										SUNRISE: 0526	SEP 10									
03	CLR	NC			10.00			63	53	57	70	5	28	29.37	30.10	03	CLR	NC		5.00	74	67	69	79	9	25	29.24	29.96	
06	CLR	NC			10.00			62	54	57	75	8	30	29.42	30.16	06	FEW	NC		4.00	73	65	68	76	8	25	29.22	29.94	
09	FEW	NC			10.00			73	55	62	53	3	VR	29.46	30.20	09	BKN	200		7.00	79	66	70	65	10	25	29.18	29.90	
12	FEW	NC			10.00			73	57	63	57	9	06	29.46	30.20	12	BKN	150		10.00	84	65	71	53	17	31	29.16	29.88	
15	FEW	NC			10.00			74	55	63	52	5	11	29.45	30.19	15	OVC	045		10.00	71	65	67	81	14	32	29.18	29.91	
18	FEW	NC			10.00			69	55	61	61	5	12	29.45	30.19	18	OVC	034		10.00	68	58	62	70	18	02	29.24	29.97	
21	CLR	NC			10.00			65	57	60	76	3	10	29.46	30.20	21	FEW	NC		10.00	63	52	57	68	12	35	29.30	30.03	
24	CLR	NC			10.00			61	57	59	87	0	00	29.47	30.21	24	CLR	NC		10.00	60	51	55	72	6	33	29.31	30.04	
					SUNRISE: 0520	SEP 05			SUNSET: 1821										SUNRISE: 0527	SEP 11									
03	CLR	NC			10.00			58	55	56	90	0	00	29.44	30.19	03	CLR	NC		10.00	58	52	55	81	7	30	29.31	30.05	
06	FEW	NC			10.00			61	57	59	87	0	00	29.47	30.22	06	CLR	NC		10.00	56	51	53	84	8	33	29.35	30.10	
09	FEW	NC			10.00			71	60	64	68	7	14	29.47	30.21	09	FEW	NC		10.00	67	52	58	59	8	33	29.39	30.14	
12	FEW	NC			10.00			73	62	66	69	7	09	29.48	30.22	12	CLR	NC		10.00	69	49	58	49	13	04	29.38	30.12	
15	FEW	NC			10.00			72	62	66	71	12	07	29.46	30.20	15	FEW	NC		10.00	70	47	57	44	8	07	29.34	30.09	
18	FEW	NC			10.00			68	62	64	81	6	07	29.41	30.16	18	FEW	NC		10.00	68	47	57	47	0	00	29.34	30.09	
21	FEW	NC			10.00	BCFG		64	62	63	93	5	07	29.39	30.13	21	CLR	NC		10.00	61	49	54	65	0	00	29.35	30.10	
24	CLR	NC			8.00			61	59	60	93	5	15	29.37	30.12	24	CLR	NC		10.00	59	47	53	64	0	00	29.34	30.09	
					SUNRISE: 0521	SEP 06			SUNSET: 1819										SUNRISE: 0528	SEP 12									
03	CLR	NC			10.00			62	60	61	93	0	00	29.36	30.11	03	CLR	NC		10.00	57	47	52	69	5	28	29.34	30.09	
06	VV	001			0.75	BR		64	62	63	93	6	16	29.38	30.12	06	CLR	NC		10.00	57	45	51	64	0	00	29.36	30.11	
09	FEW	NC			10.00			73	62	66	69	7	22	29.40	30.14	09	FEW	NC		10.00	68	51	58	55	7	26	29.37	30.11	
12	SCT	NC			10.00			76	66	69	72	12	12	29.35	30.09	12	FEW	NC		10.00	76	50	61	40	12	25	29.33	30.07	
15	BKN	230			10.00			75	67	70	76	15	14	29.30	30.0														

OBSERVATIONS AT 3-HOURLY INTERVALS

MILWAUKEE, WI

SEPTEMBER 2002

MKE

WBAN # 14839

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: 0529 SEP 13 SUNSET: 1807						SUNRISE: 0535 SEP 19 SUNSET: 1754																							
03	FEW	NC			10.00	58	52	55	81	3	21	29.28	30.01	03	OVC	026			10.00	73	68	70	84	12	20	28.93	29.65		
06	BKN	220			10.00	61	50	55	67	7	28	29.30	30.03	06	OVC	023			7.00	73	69	70	87	8	20	28.93	29.65		
09	BKN	250			10.00	72	52	60	50	8	27	29.31	30.05	09	OVC	017			8.00	75	71	72	88	13	20	28.92	29.65		
12	BKN	250			10.00	75	54	63	48	8	21	29.28	30.01	12	OVC	180			7.00	76	73	74	91	10	19	28.88	29.61		
15	BKN	140			10.00	72	57	63	60	10	13	29.25	29.98	15	BKN	005			10.00	70	70	70	100	10	21	28.86	29.59		
18	BKN	240			10.00	70	53	60	55	7	17	29.23	29.96	18	BKN	230			10.00	73	70	71	90	10	20	28.86	29.59		
21	SCT	NC			10.00	65	57	60	76	5	18	29.22	29.95	21	OVC	120			10.00	73	70	71	90	8	23	28.89	29.62		
24	FEW	NC			7.00	59	55	57	87	0	00	29.19	29.92	24	OVC	095			9.00	72	69	70	91	5	18	28.90	29.62		
SUNRISE: 0530 SEP 14 SUNSET: 1805						SUNRISE: 0537 SEP 20 SUNSET: 1753																							
03	FEW	NC			5.00	BR	60	57	58	90	3	21	29.17	29.91	03	BKN	095			10.00	70	68	69	93	3	17	28.89	29.62	
06	SCT	NC			3.00	HZ	61	56	58	84	5	22	29.17	29.91	06	OVC	024			10.00	71	68	69	90	10	17	28.88	29.61	
09	SCT	NC			10.00	70	56	62	61	8	21	29.16	29.89	09	OVC	016			9.00	71	69	70	94	9	17	28.86	29.59		
12	BKN	180			10.00	79	53	64	41	9	22	29.13	29.85	12	OVC	036			10.00	68	64	66	87	16	23	28.82	29.54		
15	OVC	100			10.00	76	53	62	45	8	24	29.11	29.84	15	OVC	060			10.00	70	64	66	82	14	23	28.81	29.53		
18	OVC	055			9.00	-RA	71	59	64	66	14	33	29.15	29.88	18	BKN	100			10.00	67	60	63	79	14	24	28.84	29.57	
21	OVC	041			6.00	BR	64	61	62	90	8	33	29.21	29.95	21	BKN	045			10.00	66	59	62	78	20	24	28.91	29.64	
24	OVC	016			10.00	65	61	63	87	9	01	29.25	29.98	24	CLR	NC			10.00	63	59	61	87	12	23	28.95	29.68		
SUNRISE: 0531 SEP 15 SUNSET: 1803						SUNRISE: 0538 SEP 21 SUNSET: 1751																							
03	OVC	032			10.00	60	53	56	78	10	01	29.31	30.05	03	CLR	NC			10.00	60	57	58	90	12	22	29.00	29.73		
06	SCT	NC			10.00	56	50	53	81	9	35	29.37	30.11	06	CLR	NC			10.00	59	54	56	83	12	25	29.08	29.82		
09	SCT	NC			10.00	63	57	60	81	18	02	29.38	30.13	09	CLR	NC			10.00	65	55	59	70	10	30	29.15	29.89		
12	FEW	NC			10.00	65	50	57	59	21	04	29.40	30.15	12	FEW	NC			10.00	71	55	62	57	10	29	29.17	29.90		
15	FEW	NC			10.00	64	52	57	65	17	04	29.38	30.13	15	SCT	NC			10.00	68	59	63	73	7	08	29.19	29.93		
18	FEW	NC			10.00	60	50	55	70	8	03	29.38	30.13	18	BKN	050			10.00	63	56	59	78	5	01	29.24	29.98		
21	CLR	NC			10.00	58	50	54	75	5	36	29.38	30.13	21	OVC	055			10.00	60	40	50	48	6	32	29.28	30.02		
24	CLR	NC			10.00	53	49	51	86	3	31	29.36	30.11	24	OVC	100			10.00	59	42	50	54	6	32	29.30	30.04		
SUNRISE: 0532 SEP 16 SUNSET: 1760						SUNRISE: 0539 SEP 22 SUNSET: 1749																							
03	CLR	NC			10.00	52	47	49	83	3	30	29.36	30.11	03	OVC	070			10.00	57	44	50	62	6	26	29.32	30.06		
06	CLR	NC			10.00	51	48	50	89	0	00	29.37	30.13	06	OVC	100			10.00	54	46	50	75	6	27	29.31	30.06		
09	CLR	NC			10.00	64	50	56	61	6	27	29.40	30.14	09	BKN	180			10.00	56	47	51	72	10	27	29.33	30.08		
12	CLR	NC			10.00	70	52	60	53	9	26	29.37	30.11	12	BKN	180			10.00	64	35	50	34	18	28	29.31	30.06		
15	FEW	NC			10.00	71	55	62	57	8	14	29.31	30.05	15	BKN	100			10.00	63	34	49	34	14	31	29.30	30.04		
18	FEW	NC			10.00	70	48	58	46	7	23	29.28	30.02	18	FEW	NC			10.00	59	35	48	41	9	31	29.33	30.08		
21	CLR	NC			10.00	61	53	57	75	6	20	29.30	30.03	21	CLR	NC			10.00	53	38	46	57	5	28	29.38	30.13		
24	CLR	NC			10.00	58	50	54	75	3	21	29.30	30.04	24	CLR	NC			10.00	50	38	44	63	5	27	29.41	30.16		
SUNRISE: 0533 SEP 17 SUNSET: 1758						SUNRISE: 0540 SEP 23 SUNSET: 1747																							
03	CLR	NC			10.00	58	50	54	75	3	VR	29.29	30.03	03	CLR	NC			10.00	47	38	43	71	6	28	29.42	30.18		
06	CLR	NC			10.00	59	50	54	72	3	24	29.31	30.04	06	FEW	NC			10.00	45	39	42	80	0	00	29.43	30.18		
09	FEW	NC			10.00	72	56	62	57	8	25	29.32	30.06	09	FEW	NC			10.00	58	41	50	54	12	21	29.43	30.18		
12	BKN	240			10.00	78	57	65	48	9	17	29.28	30.01	12	BKN	250			10.00	64	41	52	43	12	21	29.38	30.13		
15	BKN	200			10.00	74	60	65	62	13	14	29.21	29.95	15	BKN	065			10.00	65	41	53	42	14	19	29.31	30.06		
18	BKN	220			10.00	69	57	62	66	9	15	29.20	29.93	18	BKN	110			10.00	64	42	53	45	14	22	29.28	30.02		
21	OVC	230			9.00	66	61	63	84	5	16	29.19	29.92	21	FEW	NC			10.00	55	39	47	55	17	29	29.36	30.11		
24	OVC	130			8.00	64	61	62	90	0	00	29.15	29.88	24	FEW	NC			10.00	48	39	44	71	10	30	29.43	30.19		
SUNRISE: 0534 SEP 18 SUNSET: 1756						SUNRISE: 0541 SEP 24 SUNSET: 1745																							
03	OVC	120			9.00	67	63	64	87	0	00	29.10	29.83	03	CLR	NC			10.00	44	37	41	76	5	30	29.50	30.26		
06	OVC	020			4.00	BR	65	64	64	97	3	36	29.05	29.78	06	CLR	NC			10.00	42	37	40	82	7	30	29.55	30.30	
09	OVC	005			2.00	-RA BR	64	62	63	93	13	27	29.02	29.75	09	FEW	NC			10.00	51	38	45	61	9	31	29.60	30.35	
12	BKN	220			10.00	73	58	64	59	12	24	29.05	29.78	12	FEW	NC			10.00	57	38	48	49	6	VR	29.59	30.35		
15	SCT	NC			10.00	75	66	69	74	14	14	29.00	29.72	15	CLR	NC			10.00	57	39	48	51	13	12	29.57	30.32		
18	BKN	150			3.00	BR	70	67	68	90	7	16	28.98	29.71	18	CLR	NC			10.00	53	40	47	61	8	16	29.55	30.31	
21	OVC	100			6.00	BR	72	68	69	87	10	17	28.97	29.70	21	CLR	NC			10.00	51	42	47	71	7	17	29.54	30.30	
24	OVC	250			5.00	BR	71	68	69	90	9	16	28.95	29.67	24	CLR	NC			10.00	48	43	46	83	0	00	29.56	30.31	

OBSERVATIONS AT 3-HOURLY INTERVALS

MILWAUKEE, WI

SEPTEMBER 2002

MKE

WBAN # 14839

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)	
				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					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: 0542																									
03	SCT	NC			10.00		46	43	45	89	0	00	29.58	30.34															
06	BKN	180			10.00		50	45	48	83	0	00	29.55	30.31															
09	BKN	110			10.00		60	50	55	70	9	18	29.53	30.28															
12	FEW	NC			10.00		68	46	56	45	10	16	29.47	30.22															
15	FEW	NC			10.00		68	47	57	47	12	14	29.40	30.15															
18	FEW	NC			10.00		61	49	54	65	8	16	29.39	30.14															
21	BKN	240			10.00		59	51	55	75	8	18	29.37	30.12															
24	SCT	NC			10.00		57	53	55	87	7	17	29.31	30.06															
				SUNRISE: 0543																									
03	FEW	NC			8.00		56	54	55	93	0	00	29.30	30.04															
06	SCT	NC			2.00	BR	54	53	53	97	0	00	29.28	30.02															
09	FEW	NC			10.00		68	52	59	57	5	VR	29.27	30.01															
12	FEW	NC			10.00		73	52	61	48	9	13	29.22	29.95															
15	FEW	NC			10.00		70	53	60	55	8	11	29.14	29.88															
18	BKN	220			5.00	BR	60	58	59	93	13	01	29.14	29.88															
21	OVC	003			3.00	BR	58	57	57	97	9	01	29.12	29.86															
24	OVC	005			8.00		57	55	56	93	14	01	29.08	29.82															
				SUNRISE: 0544																									
03	OVC	003			1.50	BR	57	55	56	93	16	01	29.05	29.78															
06	OVC	005			7.00		57	54	55	90	16	01	29.06	29.80															
09	OVC	009			10.00		58	53	55	84	17	02	29.09	29.83															
12	OVC	013			10.00		61	53	57	75	16	36	29.10	29.84															
15	BKN	140			10.00		60	51	55	72	14	04	29.16	29.90															
18	BKN	095			10.00		57	40	49	53	9	36	29.23	29.97															
21	FEW	NC			10.00		54	42	48	64	5	34	29.28	30.02															
24	CLR	NC			10.00		51	43	47	74	3	31	29.31	30.06															
				SUNRISE: 0545																									
03	CLR	NC			10.00		48	43	46	83	3	29	29.35	30.10															
06	FEW	NC			10.00		54	48	51	80	9	09	29.40	30.16															
09	FEW	NC			10.00		63	45	54	52	15	12	29.43	30.18															
12	SCT	NC			10.00		65	53	58	66	14	13	29.39	30.14															
15	SCT	NC			10.00		65	55	59	70	13	12	29.32	30.07															
18	OVC	085			4.00	BR	60	57	58	90	5	13	29.34	30.09															
21	BKN	100			2.50	BR	63	59	61	87	6	13	29.33	30.07															
24	OVC	080			2.00	-RA BR	63	61	62	93	6	19	29.33	30.07															
				SUNRISE: 0547																									
03	OVC	044			1.50	RA BR	63	61	62	93	5	27	29.35	30.09															
06	OVC	110			4.00	-RA BR	62	60	61	93	6	18	29.34	30.09															
09	SCT	NC			4.00	BR	67	63	64	87	15	17	29.31	30.04															
12	BKN	190			4.00	HZ	71	63	66	76	14	18	29.27	30.00															
15	FEW	NC			7.00		79	65	70	62	15	21	29.21	29.94															
18	FEW	NC			5.00	HZ	72	65	67	79	5	17	29.20	29.94															
21	CLR	NC			8.00		72	64	67	76	9	20	29.20	29.93															
24	CLR	NC			10.00		73	63	67	71	14	22	29.18	29.91															
				SUNRISE: 0548																									
03	CLR	NC			10.00		72	63	66	73	15	23	29.18	29.90															
06	BKN	090			9.00		68	61	64	78	3	17	29.24	29.97															
09	BKN	250			10.00		72	61	65	69	12	20	29.22	29.94															
12	SCT	NC			10.00		82	62	69	51	14	21	29.15	29.88															
15	SCT	NC			10.00		83	57	67	41	21	19	29.09	29.81															
18	SCT	NC			10.00		77	55	64	47	12	20	29.08	29.80															
21	CLR	NC			10.00		73	52	61	48	14	21	29.10	29.83															
24	CLR	NC			10.00		74	56	63	54	21	23	29.10	29.83															

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.

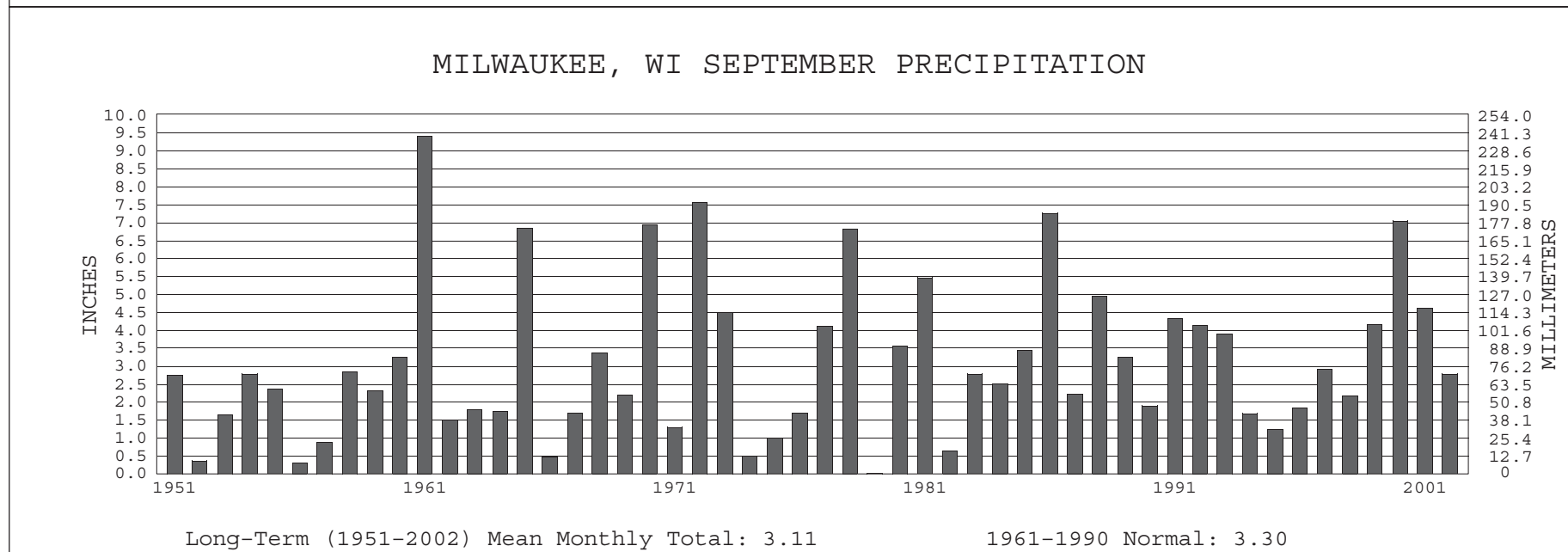
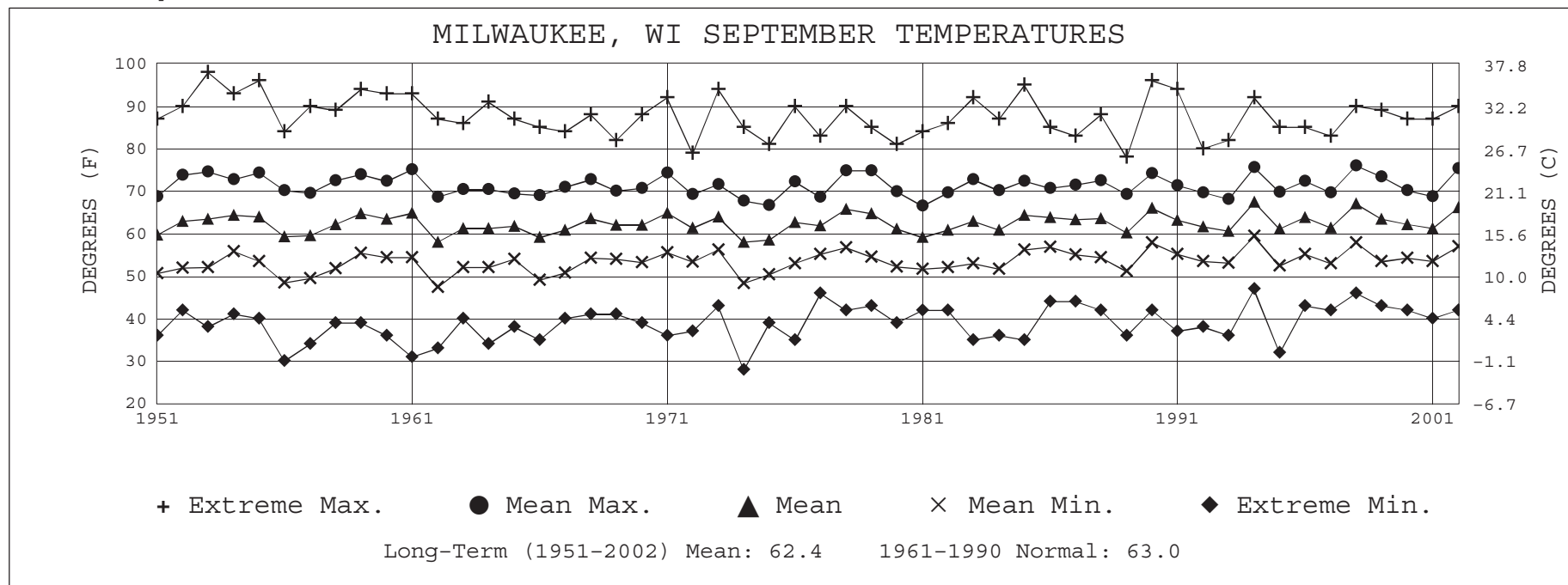
NC= No ceiling detected.

& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND	
	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			62	56	58	81	29.28	30.02	7.88	6	3	26
02			61	56	58	82	29.28	30.01	8.08	6	3	26
03			61	55	58	83	29.28	30.02	8.20	5	3	26
04			60	55	57	84	29.28	30.02	8.02	5	2	25
05			60	55	57	84	29.29	30.03	7.85	5	2	30
06			60	55	57	83	29.30	30.04	7.33	5	2	27
07			63	56	59	79	29.30	30.04	7.65	7	3	24
08			66	56	60	73	29.30	30.04	8.65	9	3	22
09			68	57	62	68	29.30	30.04	9.23	10	4	23
10			71	57	62	63	29.30	30.04	9.47	10	4	22
11			72	57	63	59	29.29	30.03	9.67	10	4	23
12			73	56	63	57	29.28	30.01	9.63	11	3	22
13			73	57	63	57	29.26	30.00	9.53	11	3	17
14			73	57	63	58	29.25	29.99	9.63	12	5	18
15			72	57	63	60	29.24	29.98	9.70	12	5	16
16			72	56	63	59	29.24	29.98	9.70	12	4	17
17			71	56	62	62	29.24	29.98	9.20	10	4	17
18			69	56	61	65	29.24	29.98	8.83	9	2	21
19			67	56	61	69	29.25	29.99	8.67	8	2	21
20			66	56	60	71	29.26	30.00	8.68	7	3	24
21			65	56	60	73	29.26	30.00	8.55	7	3	23
22			64	56	60	75	29.26	30.00	8.50	6	3	25
23			64	56	59	77	29.26	30.00	8.46	6	3	24
24			63	56	59	79	29.26	30.00	8.40	6	3	24





SEPTEMBER 2002

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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