



FEBRUARY 2002

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

MADISON, WI

DANE COUNTY REGIONAL AIRPORT (MSN)

Lat: 43°08' N Long: 89°20' W Elev (Ground): 857 Feet

Time Zone: CENTRAL WBAN: 14837 ISSN #:0198-5736

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	31	19	25	6	17	23	40	0	SN BR	3		2.0	0.10	29.19	30.15	7.8	31	9.3	22	31	17	36	01	
02	32	9	21	1	17	21	44	0	BR HZ	3		0.0	0.00	29.29	30.26	8.5	19	9.2	25	18	20	19	02	
03	36	15	26	6	18	24	39	0	SN BR	2		T	T	29.13	30.10	6.6	30	8.5	23	32	18	31	03	
04	23	8*	16*	-4	4	13	49	0		2		0.0	0.00	29.49	30.47	3.5	29	7.3	18	32	14	33	04	
05	32	15	24	4	13	20	41	0		2		0.0	0.00	29.34	30.32	5.9	24	6.6	22	23	14	22	05	
06	43	17	30	10	23	27	35	0	BR HZ	2		0.0	0.00	29.11	30.07	5.5	21	6.8	18	22	14	21	06	
07	46	27	37	17	26	32	28	0	BR HZ	1		0.0	0.00	29.03	29.98	3.4	24	6.2	18	22	13	22	07	
08	51	27	39	19	28	33	26	0	BR HZ	T		0.0	0.00	29.06	30.01	3.8	18	5.9	18	23	13	23	08	
09	47	29	38	17	33	36	27	0	RA BR	0		0.0	0.06	29.05	30.00	7.9	11	9.3	20	09	17	14	09	
10	37	20	29	8	25	29	36	0	RA SN BR	1		2.1	0.32	29.21	30.16	10.8	36	11.7	30	01	23	36	10	
11	36	13	25	4	18	24	40	0		1		0.0	0.00	29.12	30.08	11.1	20	12.1	32	19	26*	19	11	
12	39	19	29	8	19	28	36	0	SN	1		T	T	29.00	29.95	10.9	29	11.9	35	28	24	30	12	
13	36	11	24	2	14	22	41	0		T		0.0	0.00	29.30	30.27	7.3	21	7.5	22	21	16	22	13	
14	48	30	39	17	23	32	26	0		0		0.0	0.00	29.00	29.95	14.1	20	14.1	35*	20	24	19	14	
15	43	34	39	17	26	33	26	0	SN BR	0		T	T	28.89	29.83	7.5	26	9.6	26	30	20	29	15	
16	42	30	36	13	24	32	29	0	SN	0		T	T	28.94	29.89	8.5	30	10.1	30	01	23	31	16	
17	37	21	29	6	17	26	36	0		0		0.0	0.00	29.26	30.22	0.6	25	6.3	15	33	10	17	17	
18	49	27	38	15	26	34	27	0	RA	0		0.0	0.07	29.07	30.02	11.8	18	12.0	26	19	22	19	18	
19	44	39	42	18	40	41	23	0	RA DZ BR	0		0.0	0.68	28.81	29.75	8.5	15	8.7	17	16	14	16	19	
20	44	32	38	14	37	38	27	0	RA DZ SN FG+ BR	1		0.9	0.77	28.55	29.48	4.7	31	6.2	18	29	14	31	20	
21	32	23	28	4	24	27	37	0	SN BR	1		0.3	0.03	29.07	30.02	9.1	34	9.0	23	33	17	35	21	
22	36	15	26	1	17	23	39	0		1		0.0	0.00	29.28	30.25	0.6	08	3.8	12	17	9	16	22	
23	47	27	37	12	27	34	28	0		0		0.0	0.00	29.01	29.96	12.3	18	12.4	26	19	22	18	23	
24	62*	36	49*	23	35	41	16	0	BR	0		0.0	0.00	28.86	29.79	9.2	18	10.8	32	16	25	16	24	
25	37	25	31	5	26	30	34	0	SN BR	T		0.3	0.03	29.03	29.98	10.1	34	10.3	22	01	16	36	25	
26	25	17	21	-5	16	20	44	0	SN BR	2		1.9	0.11	28.98	29.94	11.4	31	11.8	24	31	18	31	26	
27	26	14	20	-7	7	16	45	0	SN	2		T	T	29.06	30.03	8.3	31	9.5	22	32	17	32	27	
28	29	17	23	-4	12	20	42	0	SN	1		T	T	29.03	30.00	6.5	25	8.6	22	28	16	27	28	
38.9 22.0 30.5 ■■ 21.9 27.8 34.3 0.0 < MONTHLY AVERAGES TOTALS->												7.5	2.17	29.08	30.03	3.3	25	9.1	<- MONTHLY AVERAGES					
8.1 7.7 7.9 ■■ <-----DEPARTURE FROM NORMAL----->												0.89	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.79 DATE :20-21				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY									GREATEST 24-HR SNOWFALL: 2.1 DATE :10				MAXIMUM				30.55 04 1053							
TOTAL DEPARTURE									GREATEST SNOW DEPTH: 3 DATE :02+				MINIMUM				29.36 20 1253							
HEATING: 961 -282 4444 -1265									NUMBER OF DAYS WITH →		MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32 : 25				PRECIPITATION ≥ 0.01 INCH : 9					
COOLING: 0 0 0 0											MAXIMUM TEMP ≤ 32 : 8				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 5					
											THUNDERSTORMS : 0				HEAVY FOG : 1				SNOWFALL ≥ 1.0 INCH : 3					

FEBRUARY 2002
MADISON, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MADISON, WI

FEBRUARY 2002

MSN

WBAN # 14837

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	T	0.01	T	0.01	T	0.06	T	T					01												01	0.08	0.10	
02													02												02		0.00	
03													03						T	T					03		T	
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	0.06		
10	0.05	0.06	0.08	0.03	0.01	0.07	0.01	T	T	T	0.01	T	10										T	0.06	10	0.32		
11													11												11	0.00		
12													12	T	T			T							12	T		
13													13												13	0.00		
14													14												14	0.00		
15								T	T				15												15	T		
16								T	T	T			16												16	T		
17													17				T							T	17	0.00		
18													18			T								T	18	0.06		
19	0.07	0.09	0.06	0.07	0.07	0.03	0.07	T		0.02	T	T	19	T	0.01	0.07	0.06	0.02	0.03	T	T	T	0.02	0.04	19	0.75		
20	T	T	T	0.01			0.02	0.10	0.12	0.06	0.07	0.05	20	0.04	0.05	0.06	0.03	0.03	0.02	0.06	0.02	0.01	T	T	20	0.77		
21	T	0.02	T	T	0.01	T		T	T	T			21												21	0.03		
22													22												22	0.00		
23													23												23	0.00		
24													24												24	0.00		
25					0.01	0.02	T						25								T	T	T	T	25	0.03		
26	T	T	T		T	T	0.01	T	T	T	T	0.01	26	T	T	0.01	T	0.02	0.02	0.01	T	T	T	T	26	0.08		
27													27												27			
28													28	T	T										28			

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.02	.03	.04	.05	.07	.10	.13	.16	.20	.22	.25	.28
Ending Date	20	20	20	20	20	20	20	20	20	20	20	20
Ending Time (Hour/Min)	0850	0850	0850	0850	0850	0850	0850	0850	0850	0903	0936	0936

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

**MADISON, WI
FEBRUARY 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).

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							1.25	10.00	
02							3.00	10.00	
03							5.00	10.00	
04							10.00	10.00	
05							7.00	10.00	
06							2.00	10.00	
07							3.00	10.00	
08							4.00	10.00	
09							2.50	10.00	
10							.50	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							2.00	10.00	
16							3.00	10.00	
17							10.00	10.00	
18							7.00	10.00	
19							.75	6.00	
20							.13	10.00	
21							1.50	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							5.00	10.00	
25							1.25	10.00	
26							.25	10.00	
27							6.00	10.00	
28							8.00	10.00	
MONTHLY AVGS							5.56	9.86	
<p align="center">SUNSHINE (MINUTES)</p> <p>Total: Possible:</p> <p> Percent Possible:</p>									
<p align="center">NUMBER OF DAYS WITH:</p> <p align="center">SKY CONDITION</p> <p align="center">CLR PTLY CLDY CLOUDY MISSING</p> <p align="center">28</p> <p align="center">MINIMUM VISIBILITY (MILES)</p> <p align="center"><=0.25 <=3.0 >=7.0</p> <p align="center">1 11 12</p>									

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

FEBRUARY 2002

MSN

WBAN # 14837

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>Okta</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>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0713						FEB 01	SUNSET: 1710						SUNRISE: 0706						FEB 07	SUNSET: 1718									
03	OVC	013			5.00	-SN BR	24	21	23	88	12	33	28.83	29.78	03	CLR	NC			4.00	BR	29	26	28	89	0	00	28.97	29.91
06	OVC	055			2.50	-SN BR	22	19	21	89	12	31	28.95	29.91	06	CLR	NC			4.00	BR	28	26	27	92	5	VR	28.99	29.94
09	SCT	NC			10.00		25	18	23	75	15	31	29.13	30.09	09	CLR	NC			6.00	HZ	31	26	29	82	6	28	29.05	30.01
12	FEW	NC			10.00		29	18	25	64	10	31	29.23	30.20	12	CLR	NC			10.00		40	25	34	55	10	31	29.06	30.02
15	FEW	NC			10.00		31	18	27	59	9	28	29.31	30.27	15	CLR	NC			10.00		45	24	37	44	5	VR	29.04	29.99
18	CLR	NC			10.00		26	13	22	57	5	27	29.38	30.36	18	CLR	NC			10.00		40	27	35	60	6	20	29.07	30.02
21	CLR	NC			10.00		23	12	20	63	5	VR	29.42	30.40	21	CLR	NC			10.00		35	27	32	72	10	20	29.01	29.97
24	CLR	NC			10.00		19	12	17	74	0	00	29.45	30.43	24	CLR	NC			7.00		33	27	31	78	9	23	29.01	29.96
SUNRISE: 0712						FEB 02	SUNSET: 1711						SUNRISE: 0704						FEB 08	SUNSET: 1719									
03	CLR	NC			10.00		13	9	12	84	0	00	29.43	30.42	03	CLR	NC			7.00		31	25	29	79	7	21	28.99	29.94
06	CLR	NC			5.00	BR	13	10	12	88	7	18	29.42	30.41	06	CLR	NC			8.00		29	25	28	85	3	VR	29.01	29.96
09	CLR	NC			5.00	BR	16	13	15	88	8	18	29.39	30.37	09	CLR	NC			10.00		34	26	31	73	5	22	29.06	30.01
12	FEW	NC			9.00		27	18	24	69	15	19	29.31	30.28	12	CLR	NC			10.00		43	28	37	56	5	26	29.07	30.02
15	CLR	NC			10.00		29	21	26	72	18	19	29.22	30.19	15	SCT	NC			10.00		50	31	42	48	7	18	29.05	29.99
18	SCT	NC			8.00		29	23	27	78	13	19	29.15	30.12	18	CLR	NC			6.00	HZ	37	31	35	79	7	15	29.09	30.04
21	SCT	NC			10.00		30	23	28	75	10	21	29.11	30.07	21	CLR	NC			4.00	BR	33	30	32	89	10	16	29.11	30.07
24	BKN	023			8.00		31	23	28	72	7	VR	29.09	30.06	24	CLR	NC			4.00	BR	31	28	30	89	6	12	29.11	30.06
SUNRISE: 0710						FEB 03	SUNSET: 1712						SUNRISE: 0703						FEB 09	SUNSET: 1720									
03	BKN	022			10.00		28	22	26	78	3	VR	29.10	30.06	03	CLR	NC			4.00	BR	32	28	31	85	5	10	29.09	30.03
06	CLR	NC			7.00		23	20	22	88	6	26	29.13	30.10	06	CLR	NC			3.00	BR	30	28	29	92	6	10	29.06	30.01
09	CLR	NC			7.00		24	19	22	81	5	VR	29.10	30.07	09	CLR	NC			3.00	BR	35	32	34	89	8	13	29.08	30.04
12	FEW	NC			10.00		34	23	30	64	7	23	29.06	30.02	12	CLR	NC			10.00		46	33	40	61	9	16	29.05	30.01
15	SCT	NC			10.00		34	24	30	67	13	29	29.03	29.99	15	CLR	NC			10.00		47	35	42	63	13	12	29.02	29.96
18	FEW	NC			10.00		25	12	21	58	15	31	29.16	30.13	18	OVC	043			10.00		43	34	39	71	10	07	29.03	29.98
21	CLR	NC			10.00		20	9	17	62	12	31	29.24	30.21	21	OVC	050			8.00		40	34	37	79	14	08	29.02	29.97
24	CLR	NC			10.00		15	4	12	61	13	33	29.32	30.28	24	OVC	034			3.00	-RA BR	37	35	36	93	12	04	28.99	29.93
SUNRISE: 0709						FEB 04	SUNSET: 1714						SUNRISE: 0702						FEB 10	SUNSET: 1722									
03	CLR	NC			10.00		11	2	9	67	8	33	29.38	30.36	03	OVC	006			1.75	-RASN BR	33	32	33	96	14	04	28.96	29.89
06	CLR	NC			10.00		8	2	7	76	6	33	29.46	30.45	06	OVC	006			0.75	-SN	32	31	32	96	16	01	29.02	29.97
09	CLR	NC			10.00		11	3	9	70	10	34	29.54	30.53	09	OVC	010			0.75	-SN	32	30	31	92	13	36	29.14	30.09
12	CLR	NC			10.00		17	4	14	56	8	28	29.56	30.55	12	OVC	019			9.00		33	28	31	82	21	36	29.21	30.16
15	CLR	NC			10.00		22	4	17	46	3	VR	29.51	30.50	15	FEW	NC			10.00		34	22	30	61	12	34	29.25	30.21
18	CLR	NC			10.00		21	5	17	50	6	21	29.50	30.49	18	CLR	NC			10.00		30	18	26	61	8	34	29.35	30.31
21	CLR	NC			10.00		17	6	14	62	9	19	29.48	30.47	21	CLR	NC			10.00		25	15	22	66	6	32	29.41	30.39
24	CLR	NC			10.00		16	6	14	65	10	22	29.46	30.45	24	CLR	NC			10.00		20	12	18	71	5	32	29.44	30.41
SUNRISE: 0708						FEB 05	SUNSET: 1715						SUNRISE: 0701						FEB 11	SUNSET: 1723									
03	CLR	NC			10.00		16	5	13	62	9	22	29.42	30.41	03	CLR	NC			10.00		16	11	15	80	3	30	29.41	30.39
06	CLR	NC			10.00		17	8	15	68	9	24	29.38	30.36	06	CLR	NC			10.00		14	12	13	92	0	00	29.38	30.36
09	CLR	NC			10.00		20	9	17	62	9	26	29.38	30.36	09	CLR	NC			10.00		22	15	20	75	13	17	29.31	30.28
12	CLR	NC			10.00		26	13	22	57	7	25	29.36	30.34	12	CLR	NC			10.00		30	17	26	59	16	20	29.19	30.16
15	CLR	NC			10.00		31	16	26	54	8	24	29.29	30.26	15	CLR	NC			10.00		32	20	28	61	23	18	28.99	29.96
18	CLR	NC			10.00		29	18	25	64	6	23	29.30	30.27	18	CLR	NC			10.00		32	23	29	69	15	20	28.88	29.83
21	CLR	NC			9.00		25	19	23	78	6	22	29.28	30.25	21	CLR	NC			10.00		35	23	31	61	13	21	28.80	29.75
24	CLR	NC			7.00		22	17	20	82	0	00	29.25	30.22	24	SCT	NC			10.00		36	26	32	67	9	24	28.75	29.69
SUNRISE: 0707						FEB 06	SUNSET: 1716						SUNRISE: 0659						FEB 12	SUNSET: 1724									
03	CLR	NC			4.00	BR	20	16	19	85	0	00	29.22	30.18	03	OVC	041			10.00		38	26	33	62	9	28	28.78	29.72
06	CLR	NC			4.00	BR	21	18	20	88	3	21	29.19	30.15	06	OVC	036			10.00		36	25	32	64	7	28	28.84	29.78
09	CLR	NC			2.00	BR	23	19	22	85	5	20	29.16	30.14	09	CLR	NC			10.00		35	21	30	57	10	29	28.94	29.88
12	CLR	NC			5.00	HZ	35	25	31	67	12	23	29.11	30.07	12	BKN	080			10.00		38	24	33	57	13	27	28.95	29.89
15	CLR	NC			10.00		43	29	37	58	7	VR	29.05	30.01	15	BKN	060			10.00		36	17	29	46	17	30	28.99	29.94
18	CLR	NC	</																										

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

FEBRUARY 2002

MSN

WBAN # 14837

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES,HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES,HG)	
			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	OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)			DRY BULB	DEW POINT
SUNRISE: 0658					FEB 13	SUNSET: 1726					SUNRISE: 0649					FEB 19	SUNSET: 1734										
03	CLR	NC		10.00	14	6	12	71	0	00	29.36	30.33	03	OVC	050		6.00	-RA	BR	39	37	38	93	9	16	28.96	29.89
06	CLR	NC		10.00	12	6	11	77	0	00	29.38	30.35	06	OVC	005		4.00	BR		40	38	39	93	7	14	28.90	29.84
09	CLR	NC		10.00	22	10	19	60	12	22	29.38	30.36	09	OVC	005		2.50	BR		41	39	40	93	10	17	28.88	29.81
12	FEW	NC		10.00	30	12	25	47	12	22	29.36	30.33	12	OVC	022		6.00	-RA		43	41	42	93	13	16	28.83	29.76
15	CLR	NC		10.00	35	19	29	52	9	22	29.28	30.25	15	OVC	007		2.50	-RA		43	42	43	97	8	14	28.77	29.71
18	CLR	NC		10.00	34	20	29	56	10	20	29.23	30.20	18	OVC	005		2.50	BR		44	43	44	96	8	15	28.74	29.67
21	CLR	NC		10.00	31	22	28	69	12	20	29.21	30.17	21	OVC	003		2.00	-DZ	BR	43	42	43	97	7	13	28.69	29.62
24	CLR	NC		10.00	31	22	28	69	10	20	29.17	30.14	24	OVC	001		0.75	-DZ	BR	43	43	43	100	6	16	28.63	29.56
SUNRISE: 0656					FEB 14	SUNSET: 1727					SUNRISE: 0648					FEB 20	SUNSET: 1735										
03	CLR	NC		10.00	31	20	27	64	8	21	29.15	30.11	03	VV	001		0.25	-DZ	FG	43	43	43	100	3	13	28.56	29.48
06	CLR	NC		10.00	31	20	27	64	10	20	29.10	30.06	06	VV	001		0.13	FG		43	43	43	100	0	00	28.49	29.41
09	CLR	NC		10.00	34	21	29	59	13	20	29.08	30.04	09	OVC	002		1.50	RA	BR	42	42	42	100	5	34	28.45	29.38
12	CLR	NC		10.00	44	21	35	40	17	20	29.00	29.96	12	OVC	006		7.00	-RA		39	38	39	96	9	32	28.44	29.37
15	CLR	NC		10.00	47	24	38	41	21	19	28.91	29.85	15	OVC	006		2.50	-SN		34	33	34	97	8	28	28.49	29.41
18	CLR	NC		10.00	42	25	35	51	16	19	28.91	29.85	18	OVC	006		0.75	-SN		33	32	33	96	8	30	28.59	29.52
21	CLR	NC		10.00	40	25	34	55	17	19	28.87	29.81	21	OVC	014		4.00	-SN	BR	33	31	32	92	8	31	28.65	29.59
24	SCT	NC		10.00	39	25	34	57	13	19	28.81	29.75	24	OVC	012		7.00	-SN		32	30	31	92	0	00	28.73	29.67
SUNRISE: 0655					FEB 15	SUNSET: 1728					SUNRISE: 0646					FEB 21	SUNSET: 1736										
03	CLR	NC		10.00	38	26	33	62	8	24	28.78	29.71	03	OVC	048		6.00	-SN		30	25	28	82	0	00	28.81	29.75
06	CLR	NC		10.00	34	28	32	79	8	26	28.80	29.74	06	OVC	049		10.00			29	24	27	82	0	00	28.89	29.84
09	OVC	038		8.00	35	30	33	82	12	29	28.88	29.82	09	OVC	016		3.00	-SN		29	24	27	82	17	35	28.99	29.94
12	OVC	022		10.00	36	27	32	70	12	30	28.95	29.89	12	OVC	016		10.00			29	24	27	82	14	34	29.08	30.04
15	SCT	NC		10.00	40	24	34	53	9	28	28.94	29.88	15	OVC	025		10.00			30	24	28	79	15	34	29.15	30.11
18	CLR	NC		10.00	38	20	31	48	6	VR	28.97	29.91	18	FEW	NC		10.00			29	22	27	75	9	33	29.23	30.19
21	BKN	100		10.00	37	27	33	67	8	22	28.93	29.88	21	CLR	NC		10.00			27	20	25	75	8	34	29.26	30.22
24	OVC	110		10.00	38	28	34	68	8	22	28.86	29.80	24	CLR	NC		10.00			24	18	22	77	8	33	29.30	30.26
SUNRISE: 0654					FEB 16	SUNSET: 1730					SUNRISE: 0645					FEB 22	SUNSET: 1738										
03	SCT	NC		10.00	36	27	32	70	5	23	28.79	29.73	03	CLR	NC		10.00			20	15	19	81	6	35	29.32	30.29
06	BKN	050		10.00	36	26	32	67	7	28	28.79	29.72	06	CLR	NC		10.00			15	14	15	95	0	00	29.33	30.30
09	OVC	034		10.00	36	29	33	76	14	32	28.87	29.81	09	CLR	NC		10.00			24	15	21	68	5	33	29.34	30.30
12	BKN	039		10.00	38	20	31	48	17	31	28.95	29.89	12	CLR	NC		10.00			30	18	26	61	3	VR	29.32	30.29
15	FEW	NC		10.00	41	22	34	47	14	30	28.98	29.92	15	CLR	NC		10.00			35	18	29	50	3	13	29.25	30.22
18	SCT	NC		10.00	36	19	30	50	8	31	29.04	30.00	18	CLR	NC		10.00			31	22	28	69	6	10	29.24	30.21
21	OVC	080		10.00	33	21	29	61	6	28	29.08	30.03	21	CLR	NC		10.00			29	18	25	64	5	15	29.21	30.18
24	OVC	055		10.00	30	21	27	69	7	31	29.13	30.09	24	OVC	110		10.00			28	22	26	78	6	16	29.19	30.15
SUNRISE: 0652					FEB 17	SUNSET: 1731					SUNRISE: 0643					FEB 23	SUNSET: 1739										
03	CLR	NC		10.00	27	17	24	66	6	33	29.19	30.15	03	OVC	095		10.00			31	22	28	69	6	17	29.14	30.09
06	CLR	NC		10.00	23	17	21	78	6	33	29.25	30.22	06	BKN	085		10.00			32	23	29	69	14	18	29.09	30.04
09	CLR	NC		10.00	27	18	24	69	6	36	29.33	30.29	09	OVC	055		10.00			35	25	31	67	15	18	29.05	30.01
12	FEW	NC		10.00	32	17	27	54	5	VR	29.33	30.29	12	BKN	100		10.00			42	27	36	55	15	18	29.00	29.95
15	CLR	NC		10.00	36	16	29	44	6	VR	29.30	30.26	15	SCT	NC		10.00			45	29	38	54	16	18	28.92	29.86
18	CLR	NC		10.00	33	17	28	52	8	16	29.27	30.23	18	BKN	110		10.00			45	29	38	54	13	19	28.93	29.87
21	CLR	NC		10.00	31	18	27	59	7	18	29.24	30.20	21	CLR	NC		10.00			42	31	37	65	10	18	28.96	29.90
24	CLR	NC		10.00	30	19	26	64	8	17	29.20	30.16	24	CLR	NC		10.00			41	31	37	67	9	19	28.95	29.89
SUNRISE: 0651					FEB 18	SUNSET: 1732					SUNRISE: 0642					FEB 24	SUNSET: 1740										
03	CLR	NC		10.00	31	17	26	56	10	18	29.18	30.13	03	CLR	NC		10.00			38	31	35	76	6	18	28.96	29.90
06	CLR	NC		10.00	31	20	27	64	13	17	29.14	30.10	06	CLR	NC		10.00			37	30	34	76	5	17	28.98	29.92
09	CLR	NC		10.00	35	22	30	59	17	18	29.11	30.06	09	CLR	NC		10.00			41	32	37	70	9	20	28.97	29.91
12	CLR	NC		10.00	46	26	38	46	20	18	29.05	30.00	12	CLR	NC		10.00			54	36	46	51	14	17	28.88	29.81
15	SCT	NC		10.00	48	29	40	48	14	19	29.02	29.97	15	CLR	NC		10.00			61	38	50	43	17	17	28.74	29.67
18	SCT	NC		10.00	46	30	39	54	14	17	28.98	29.93	18	CLR	NC		10.00			55	40	48	57	7	18	28.76	29.69
21	OVC	070		10.00	45	31	39	58	10	18	29.00	29.95	21	BKN	095		10.00			50	38	44	63	7	17	28.78	29.71
24	OVC	046		7.00	39	37	38	93	9	15	28.99	29.93	24	CLR	NC		5.00	BR		36	33	35	89	8	35	28.82	29.75

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

FEBRUARY 2002

MSN

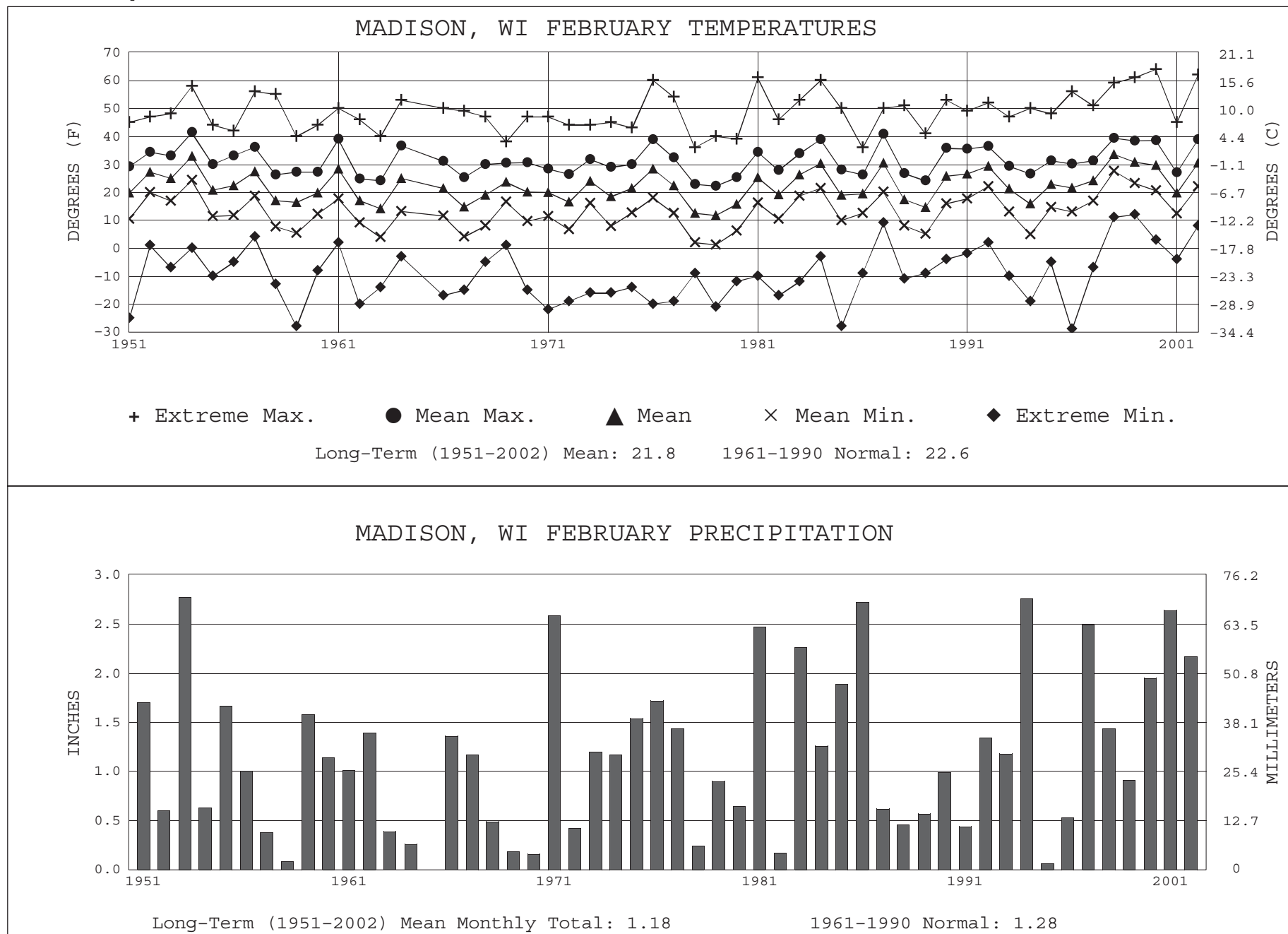
WBAN # 14837

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		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
03	OVC	008			SUNRISE: 0640	37	34	36	89	14	35	28.87	29.80
06	OVC	018			FEB 25	33	32	33	96	9	36	28.97	29.90
09	OVC	011			SUNSET: 1741	32	30	31	92	9	34	29.04	29.99
12	OVC	021				31	24	28	76	8	34	29.09	30.04
15	OVC	027				32	22	28	66	7	33	29.08	30.04
18	OVC	039				32	21	28	64	6	33	29.10	30.06
21	OVC	035				29	19	26	66	13	33	29.10	30.06
24	OVC	027				25	18	23	75	14	36	29.05	30.01
03	OVC	042			SUNRISE: 0638	22	15	20	75	12	34	29.02	29.99
06	OVC	039			FEB 26	21	16	20	81	12	34	28.99	29.95
09	OVC	028			SUNSET: 1743	21	17	20	85	14	32	28.97	29.93
12	OVC	034				23	17	21	78	14	31	28.95	29.91
15	OVC	021				23	18	21	81	14	30	28.94	29.89
18	OVC	019				20	17	19	89	12	29	28.96	29.93
21	OVC	035				19	15	18	85	9	30	28.98	29.94
24	BKN	045				17	12	16	80	10	31	28.97	29.93
03	OVC	100			SUNRISE: 0637	17	10	15	74	13	31	28.98	29.94
06	CLR	NC			FEB 27	15	5	13	64	13	32	29.01	29.98
09	CLR	NC			SUNSET: 1744	15	6	13	67	14	31	29.06	30.04
12	FEW	NC				20	7	17	57	10	32	29.09	30.07
15	CLR	NC				25	8	20	48	7	28	29.08	30.05
18	CLR	NC				25	6	20	44	5	VR	29.10	30.07
21	CLR	NC				21	7	17	54	3	VR	29.11	30.08
24	CLR	NC				19	8	16	62	7	24	29.09	30.06
03	CLR	NC			SUNRISE: 0635	18	10	16	71	7	20	29.04	30.01
06	BKN	110			FEB 28	18	7	15	62	8	18	28.99	29.96
09	OVC	060			SUNSET: 1745	22	11	19	63	12	21	28.97	29.93
12	OVC	026				26	17	23	69	9	25	28.97	29.93
15	BKN	038				28	14	24	56	14	27	28.99	29.95
18	BKN	048				28	13	23	53	8	26	29.05	30.02
21	CLR	NC				25	13	21	60	6	28	29.12	30.09
24	FEW	NC				22	12	19	66	6	31	29.18	30.15
03					SUNRISE:								
06					FEB 29								
09					SUNSET:								
12													
15													
18													
21													
24													
03					SUNRISE:								
06					FEB 30								
09					SUNSET:								
12													
15													
18													
21													
24													

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8.
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.
NC= No ceiling detected.
& = Original observation contained additional weather elements.
See page 3 for additional notes.

HOUR (LST)	AVERAGES										RESULTANT 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			28	21	26	75	29.06	30.03	7.46	8	2	25
02			28	21	26	75	29.07	30.02	7.77	7	3	27
03			27	21	25	77	29.06	30.01	7.96	6	2	28
04			27	21	25	79	29.06	30.01	7.88	6	1	27
05			26	20	24	79	29.07	30.02	7.59	6	2	27
06			26	20	24	81	29.07	30.03	7.30	6	2	26
07			26	20	24	81	29.08	30.04	7.15	9	3	26
08			26	21	25	80	29.09	30.05	7.20	8	3	27
09			29	22	26	76	29.09	30.05	7.42	10	4	27
10			30	22	28	72	29.10	30.06	8.29	11	4	26
11			32	22	29	67	29.10	30.06	8.84	11	5	25
12			34	22	30	63	29.09	30.04	9.20	11	5	25
13			35	23	31	62	29.07	30.03	9.36	10	5	24
14			36	23	31	59	29.06	30.01	9.29	12	5	24
15			37	23	32	58	29.06	30.01	9.14	11	5	23
16			37	22	32	58	29.06	30.01	9.12	11	5	23
17			36	22	31	60	29.06	30.02	9.06	10	4	23
18			34	22	30	63	29.08	30.03	8.86	9	4	22
19			33	22	29	66	29.09	30.04	9.05	9	4	23
20			32	22	28	67	29.08	30.04	8.93	9	4	23
21			31	22	28	69	29.08	30.04	8.79	9	4	22
22			31	22	28	70	29.08	30.04	8.92	8	4	24
23			30	22	27	73	29.08	30.04	8.56	8	3	25
24			29	21	26	75	29.08	30.04	8.10	7	2	25





FEBRUARY 2002

MADISON, 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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