



JANUARY 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	20	5	13	-5	4	11	52	0	BR HZ	1		0.0	0.00	29.38	30.37	3.1	32	3.7	13	29	10	30	01		
02	26	4	15	-3	9	13	50	0		1		0.0	0.00	29.44	30.43	1.7	32	2.5	12	32	9	29	02		
03	25	6	16	-2	10	15	49	0		1		0.0	0.00	29.27	30.25	5.2	24	6.4	21	22	15	23	03		
04	33	20	27	9	17	24	38	0		1		0.0	0.00	28.99	29.96	7.5	22	8.1	20	21	15	23	04		
05	36	28	32	14	27	30	33	0		T		0.0	0.00	28.94	29.89	2.7	25	4.7	18	33	14	33	05		
06	33	16	25	8	18	24	40	0	SN	T		T	T	29.03	29.99	8.2	33	8.7	26	01	20	36	06		
07	27	8	18	1	9	16	47	0	DZ	T		0.0	0.00	29.12	30.10	4.9	25	7.5	21	24	14	21	07		
08	44	23	34	17	21	29	31	0		T		0.0	0.00	28.75	29.70	7.9	21	8.4	18	22	15	22	08		
09	53	38	46*	29	34	40	19	0		0		0.0	0.00	28.69	29.62	5.4	26	7.3	21	27	15	27	09		
10	41	31	36	19	30	33	29	0		0		0.0	T	28.97	29.91	5.4	29	7.0	21	30	16	30	10		
11	45	25	35	18	25	32	30	0		RA DZ SN BR	0		0.0	0.00	29.02	29.97	4.6	24	6.2	21	27	16	29	11	
12	41	28	35	18	23	30	30	0	0			T	T	28.79	29.74	6.5	29	8.3	31*	29	22	31	12		
13	37	22	30	13	24	29	35	0	0			0.2	0.02	28.77	29.72	7.0	12	7.7	23	12	20	12	13		
14	35	31	33	16	31	32	32	0	T			0.8	0.09	28.69	29.63	1.7	07	5.7	17	12	14	12	14		
15	31	25	28	12	23	27	37	0	2			0.7	0.06	29.11	30.07	6.2	29	7.6	21	30	16	31	15		
16	27	19	23	6	20	23	42	0	SN BR	1		2.8	0.21	29.10	30.07	2.1	27	5.5	22	29	18	31	16		
17	24	11	18	1	12	16	47	0	SN BR	4		T	T	29.15	30.12	3.8	25	5.8	18	29	13	28	17		
18	15	1*	8*	-9	0	7	57	0	SN HZ	3		0.0	0.00	29.25	30.24	2.9	28	4.5	15	31	12	32	18		
19	28	4	16	-1	13	17	49	0		3		T	T	28.98	29.95	6.9	21	7.3	21	24	15	22	19		
20	30	18	24	7	20	24	41	0		3		T	T	28.87	29.83	9.2	19	9.8	28	18	23	18	20		
21	36	26	31	14	23	28	34	0	BR HZ	2		0.0	0.00	28.84	29.79	5.5	23	7.9	22	30	17	29	21		
22	47	23	35	18	24	32	30	0		1		0.0	0.00	28.90	29.85	11.5	18	11.5	29	17	22	17	22		
23	42	27	35	18	28	33	30	0		1		0.0	0.00	28.88	29.82	3.1	34	6.2	16	36	15	01	23		
24	38	28	33	16	21	29	32	0		0		0.0	0.00	29.03	29.98	5.5	26	7.5	17	25	13	22	24		
25	52	28	40	23	18	32	25	0		0		0.0	0.00	28.99	29.94	10.0	21	10.4	29	22	18	22	25		
26	51	28	40	23	22	34	25	0		0		0.0	0.00	28.96	29.90	7.2	19	7.5	17	20	14	19	26		
27	55*	31	43	26	28	38	22	0	BR	0		0.0	0.00	28.90	29.84	8.1	20	8.3	21	21	16	21	27		
28	36	28	32	14	28	31	33	0		0		0.0	0.00	28.98	29.93	9.4	03	10.2	20	03	17	03	28		
29	28	23	26	8	21	23	39	0		T		T	T	29.11	30.07	11.3	03	11.6	21	02	18	04	29		
30	29	23	26	8	21	24	39	0		T		T	T	29.31	30.28	7.1	03	7.5	16	03	14	03	30		
31	30	24	27	9	25	27	38	0		2		2.5	0.25	29.06	30.02	13.9	03	14.4	28	04	23*	01	31		
35.3 21.0 28.2 ■■										< MONTHLY AVERAGES TOTALS->				7.0	0.63	29.01	29.97	2.0	25	7.6	<- MONTHLY AVERAGES				
10.1 11.7 10.9 ■■										<-----DEPARTURE FROM NORMAL----->						-.62		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.25 DATE :31				SEA LEVEL PRESSURE DATE TIME												
MONTHLY TOTAL DEPARTURE 1135 -384									GREATEST 24-HR SNOWFALL: 2.8 DATE :16				MAXIMUM : 30.51 02 0753												
SEASON TO DATE TOTAL DEPARTURE 3483 -983									GREATEST SNOW DEPTH: 4 DATE : 17				MINIMUM : 29.51 09 0453												
HEATING: 1135 -384									NUMBER OF DAYS WITH → MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32 : 30				PRECIPITATION ≥ 0.01 INCH : 5								
COOLING: 0 0									MAXIMUM TEMP ≤ 32 : 13				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 2								
									THUNDERSTORMS : 0				HEAVY FOG : 0				SNOWFALL ≥ 1.0 INCH : 2								

JANUARY 2002
MADISON, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MADISON, WI

JANUARY 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	0.02	0.04	T		T	T	T	0.02 T	0.01		T	T	01	0.01												01	0.19	0.00
02													02													0.00		
03													03													0.00		
04													04													0.00		
05													05													0.00		
06													06													T		
07													07													0.00		
08													08													0.00		
09													09													0.00		
10													10													T		
11													11													0.00		
12													12													T		
13													13													0.02		
14													14													0.09		
15													15													0.06		
16	16	0.21																										
17	17	T																										
18	18	0.00																										
19	19	T																										
20	20	T																										
21	21	0.00																										
22	22	0.00																										
23	23	0.00																										
24	24	0.00																										
25	25	0.00																										
26	26	0.00																										
27	27	0.00																										
28	28	0.00																										
29	29	T																										
30	30	T																										
31	31	0.25																										

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

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
JANUARY 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							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							9.00	10.00	
05							6.00	10.00	
06							7.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							8.00	10.00	
11							8.00	10.00	
12							6.00	10.00	
13							1.50	10.00	
14							1.00	10.00	
15							1.00	10.00	
16							.75	10.00	
17							5.00	10.00	
18							8.00	10.00	
19							6.00	10.00	
20							3.00	8.00	
21							5.00	10.00	
22							10.00	10.00	
23							7.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							3.00	10.00	
29							1.50	10.00	
30							5.00	10.00	
31							.75	10.00	
MONTHLY AVGS							6.63	9.94	

SUNSHINE (MINUTES)
 Total: Possible:
 Percent Possible:

NUMBER OF DAYS WITH:
SKY CONDITION
 CLR PTLY CLDY CLOUDY MISSING
 31
MINIMUM VISIBILITY (MILES)
 <=0.25 <=3.0 >=7.0
 0 8 18

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

JANUARY 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 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: 0729		JAN 01	SUNSET: 1633										SUNRISE: 0729		JAN 07	SUNSET: 1639										
03	BKN	085		10.00		13	0	10	56	5	32	29.28	30.26	03	CLR	NC		10.00		12	7	11	80	8	32	29.21	30.19		
06	SCT	NC		10.00		10	-1	8	61	3	29	29.30	30.28	06	CLR	NC		10.00		9	5	8	84	5	31	29.19	30.17		
09	SCT	NC		10.00		11	1	9	64	3	32	29.37	30.36	09	CLR	NC		10.00		12	7	11	80	7	30	29.24	30.22		
12	FEW	NC		10.00		17	6	14	62	3	VR	29.38	30.36	12	CLR	NC		10.00		19	8	16	62	7	25	29.17	30.14		
15	SCT	NC		10.00		20	9	17	62	5	02	29.41	30.40	15	CLR	NC		10.00		26	9	21	48	8	23	29.07	30.04		
18	FEW	NC		10.00		15	8	13	74	5	31	29.45	30.44	18	SCT	NC		10.00		24	10	20	55	10	20	29.04	30.01		
21	CLR	NC		10.00		10	6	9	84	0	00	29.48	30.47	21	CLR	NC		10.00		24	11	20	57	8	22	28.99	29.97		
24	CLR	NC		10.00		6	3	5	87	0	00	29.47	30.47	24	CLR	NC		10.00		23	13	20	65	10	22	28.94	29.90		
			SUNRISE: 0729		JAN 02	SUNSET: 1634										SUNRISE: 0729		JAN 08	SUNSET: 1640										
03	BKN	028		10.00		9	6	8	88	0	00	29.50	30.49	03	CLR	NC		10.00		24	14	21	65	8	21	28.89	29.85		
06	CLR	NC		10.00		5	2	4	87	0	00	29.49	30.49	06	CLR	NC		10.00		23	15	21	72	6	19	28.84	29.79		
09	CLR	NC		10.00		13	10	12	88	0	00	29.51	30.50	09	CLR	NC		10.00		26	17	23	69	10	21	28.80	29.76		
12	CLR	NC		10.00		23	13	20	65	5	36	29.45	30.44	12	CLR	NC		10.00		35	20	30	54	8	21	28.74	29.69		
15	CLR	NC		10.00		25	13	21	60	5	VR	29.40	30.39	15	CLR	NC		10.00		40	26	34	58	9	19	28.68	29.63		
18	CLR	NC		10.00		18	11	16	74	0	00	29.38	30.38	18	CLR	NC		10.00		39	25	34	57	7	20	28.68	29.62		
21	CLR	NC		10.00		16	9	14	74	5	29	29.38	30.36	21	CLR	NC		10.00		42	28	36	58	7	22	28.64	29.58		
24	CLR	NC		10.00		13	8	12	81	5	VR	29.32	30.30	24	CLR	NC		10.00		42	31	37	65	7	23	28.61	29.55		
			SUNRISE: 0729		JAN 03	SUNSET: 1635										SUNRISE: 0728		JAN 09	SUNSET: 1641										
03	CLR	NC		10.00		11	7	10	84	3	VR	29.32	30.30	03	CLR	NC		10.00		40	32	37	73	5	23	28.60	29.52		
06	CLR	NC		10.00		8	5	7	87	5	28	29.34	30.32	06	CLR	NC		10.00		45	33	40	63	9	26	28.59	29.52		
09	CLR	NC		10.00		11	7	10	84	7	29	29.34	30.33	09	CLR	NC		10.00		47	33	41	59	12	28	28.63	29.56		
12	CLR	NC		10.00		20	10	17	65	8	26	29.30	30.28	12	CLR	NC		10.00		52	44	48	75	7	26	28.67	29.60		
15	CLR	NC		10.00		25	12	21	58	8	22	29.25	30.22	15	CLR	NC		10.00		51	35	44	54	9	27	28.70	29.63		
18	CLR	NC		10.00		22	14	20	71	9	21	29.22	30.20	18	CLR	NC		10.00		47	31	40	54	6	26	28.76	29.69		
21	CLR	NC		10.00		21	14	19	74	9	20	29.18	30.16	21	CLR	NC		10.00		43	32	38	65	7	VR	28.81	29.74		
24	CLR	NC		10.00		21	13	19	71	10	22	29.14	30.11	24	CLR	NC		10.00		39	31	36	73	0	00	28.86	29.79		
			SUNRISE: 0729		JAN 04	SUNSET: 1636										SUNRISE: 0728		JAN 10	SUNSET: 1642										
03	CLR	NC		10.00		22	12	19	66	12	22	29.07	30.04	03	CLR	NC		10.00		32	29	31	88	5	30	28.89	29.83		
06	CLR	NC		10.00		20	11	17	68	12	22	29.02	29.99	06	CLR	NC		10.00		32	29	31	88	3	VR	28.93	29.86		
09	CLR	NC		10.00		22	13	19	68	7	VR	29.02	29.98	09	CLR	NC		10.00		33	31	32	92	0	00	28.96	29.90		
12	CLR	NC		10.00		29	17	25	61	10	23	28.97	29.93	12	BKN	040		10.00		40	30	36	68	12	30	28.96	29.90		
15	CLR	NC		10.00		32	20	28	61	8	22	28.94	29.89	15	OVC	021		10.00		38	30	35	73	9	27	28.97	29.91		
18	CLR	NC		10.00		31	21	27	67	6	22	28.96	29.92	18	OVC	027		10.00		37	30	34	76	9	27	28.99	29.94		
21	BKN	110		10.00		32	22	28	66	3	20	28.97	29.93	21	OVC	035		8.00	-DZ	35	31	33	85	9	28	29.03	29.98		
24	OVC	100		10.00		33	24	30	70	6	21	28.94	29.89	24	OVC	026		10.00		35	25	31	67	9	30	29.06	30.01		
			SUNRISE: 0729		JAN 05	SUNSET: 1637										SUNRISE: 0728		JAN 11	SUNSET: 1643										
03	CLR	NC		10.00		30	24	28	79	5	21	28.96	29.91	03	OVC	026		10.00		34	24	30	67	7	VR	29.08	30.03		
06	OVC	095		8.00		30	25	28	82	3	VR	28.94	29.89	06	FEW	NC		10.00		30	22	27	72	5	27	29.09	30.04		
09	BKN	095		6.00	HZ	31	26	29	82	3	VR	28.98	29.93	09	CLR	NC		10.00		31	24	28	76	7	VR	29.10	30.05		
12	BKN	100		7.00		34	27	31	76	7	21	28.95	29.89	12	CLR	NC		10.00		39	27	34	62	7	VR	29.05	30.01		
15	FEW	NC		8.00		36	28	33	73	6	23	28.92	29.87	15	CLR	NC		10.00		45	27	38	49	9	22	28.99	29.93		
18	FEW	NC		9.00		34	28	32	79	6	24	28.96	29.91	18	CLR	NC		10.00		40	26	34	58	7	23	28.98	29.93		
21	FEW	NC		7.00		32	28	30	85	3	29	28.93	29.88	21	CLR	NC		10.00		37	26	33	65	3	22	28.95	29.89		
24	OVC	017		7.00		32	27	30	82	10	32	28.94	29.88	24	CLR	NC		10.00		33	24	30	70	6	21	28.90	29.84		
			SUNRISE: 0729		JAN 06	SUNSET: 1638										SUNRISE: 0727		JAN 12	SUNSET: 1644										
03	CLR	NC		10.00		28	23	26	81	5	30	28.95	29.90	03	BKN	120		10.00		34	24	30	67	6	VR	28.86	29.80		
06	OVC	055		10.00		29	24	27	82	7	30	28.95	29.89	06	SCT	NC		10.00		31	26	29	82	3	25	28.80	29.74		
09	OVC	050		8.00		31	26	29	82	7	30	28.97	29.91	09	OVC	019		8.00	-SN	34	29	32	82	10	30	28.80	29.74		
12	SCT	NC		10.00		32	19	28	59	15	36	28.99	29.94	12	FEW	NC		10.00		39	23	33	53	13	30	28.74	29.69		
15	BKN	037		10.00		30	15	25	54	10	35	29.03	29.99	15	SCT	NC		10.00		38	18	31	44	14	31	28.73	29.67		
18	SCT	NC		10.00		24	14	21	65	7	34	29.11	30.08	18	FEW	NC		10.00		34	19	29	54	8	30	28.79	29.74		
21	CLR	NC		10.00		20	10	17	65	8	33	29.17	3																

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

JANUARY 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 <small>Okta</small>		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 <small>Okta</small>	VISIBILITY (MILES)			DRY BULB	DEW POINT	WET BULB
SUNRISE: 0727 JAN 13						SUNSET: 1645						SUNRISE: 0724 JAN 19						SUNSET: 1653										
03	CLR	NC			10.00	26	20	24	78	0	00	28.80	29.75	03	CLR	NC			10.00	6	-1	5	73	0	00	29.10	30.09	
06	CLR	NC			10.00	23	18	21	81	0	00	28.80	29.75	06	OVC	070			10.00	8	2	7	76	0	00	29.06	30.05	
09	CLR	NC			10.00	28	22	26	78	7	17	28.83	29.78	09	SCT	NC			7.00	14	6	12	71	5	18	29.02	30.00	
12	BKN	110			10.00	34	23	30	64	12	14	28.79	29.74	12	BKN	022			7.00	-SN	23	15	21	72	9	21	28.96	29.93
15	OVC	090			10.00	37	24	32	60	14	12	28.73	29.67	15	OVC	018			6.00	HZ	27	21	25	78	9	23	28.90	29.86
18	OVC	026			4.00	36	25	32	64	15	12	28.74	29.69	18	BKN	028			7.00		27	22	25	81	8	20	28.87	29.84
21	OVC	060			6.00	33	31	32	92	10	11	28.73	29.68	21	CLR	NC			7.00		27	22	25	81	7	21	28.90	29.86
24	OVC	046			10.00	34	29	32	82	9	12	28.70	29.64	24	CLR	NC			7.00		27	21	25	78	10	23	28.92	29.88
SUNRISE: 0727 JAN 14						SUNSET: 1647						SUNRISE: 0723 JAN 20						SUNSET: 1654										
03	OVC	044			5.00	33	31	32	92	9	11	28.67	29.61	03	CLR	NC			8.00		25	17	22	72	6	VR	28.96	29.91
06	OVC	060			5.00	33	31	32	92	7	10	28.62	29.56	06	CLR	NC			7.00		22	18	21	85	9	20	28.95	29.90
09	OVC	031			2.00	33	31	32	92	9	08	28.61	29.55	09	CLR	NC			3.00	BR	22	19	21	89	7	21	28.95	29.91
12	OVC	007			2.50	34	31	33	89	5	06	28.62	29.56	12	CLR	NC			5.00	HZ	27	21	25	78	10	19	28.93	29.88
15	OVC	007			2.50	35	31	33	85	3	31	28.64	29.59	15	CLR	NC			6.00	HZ	30	21	27	69	13	18	28.83	29.78
18	OVC	005			1.00	34	31	33	89	7	31	28.73	29.67	18	CLR	NC			7.00		27	21	25	78	9	16	28.80	29.75
21	OVC	005			1.00	32	32	32	100	6	31	28.79	29.74	21	SCT	NC			7.00		26	22	25	84	13	18	28.77	29.72
24	OVC	013			1.50	31	30	31	96	6	29	28.85	29.80	24	BKN	025			8.00		29	24	27	82	10	19	28.72	29.67
SUNRISE: 0726 JAN 15						SUNSET: 1648						SUNRISE: 0723 JAN 21						SUNSET: 1655										
03	OVC	014			8.00	28	25	27	88	7	28	28.92	29.87	03	OVC	013			6.00	HZ	29	24	27	82	6	19	28.66	29.61
06	OVC	049			7.00	28	25	27	88	8	29	28.98	29.93	06	OVC	085			6.00	HZ	31	26	29	82	6	23	28.66	29.61
09	OVC	020			8.00	29	24	27	82	10	30	29.08	30.03	09	OVC	016			6.00	HZ	29	22	27	75	13	28	28.77	29.72
12	OVC	022			10.00	30	24	28	79	13	30	29.14	30.10	12	FEW	NC			10.00		30	20	27	66	12	28	28.88	29.83
15	OVC	029			10.00	31	24	28	76	7	26	29.17	30.13	15	CLR	NC			10.00		36	20	30	52	6	VR	28.91	29.85
18	OVC	029			10.00	28	21	26	75	7	28	29.21	30.18	18	CLR	NC			10.00		32	21	28	64	8	18	28.97	29.92
21	OVC	025			10.00	26	18	23	71	5	27	29.23	30.19	21	CLR	NC			10.00		29	24	27	82	6	17	28.98	29.93
24	OVC	025			10.00	25	18	23	75	3	VR	29.26	30.23	24	CLR	NC			10.00		28	22	26	78	7	18	28.99	29.95
SUNRISE: 0726 JAN 16						SUNSET: 1649						SUNRISE: 0722 JAN 22						SUNSET: 1657										
03	OVC	023			10.00	23	17	21	78	0	00	29.25	30.21	03	CLR	NC			10.00		28	20	25	72	8	18	29.01	29.97
06	OVC	034			6.00	24	18	22	77	6	19	29.21	30.18	06	CLR	NC			10.00		29	20	26	69	12	19	29.01	29.97
09	VV	013			1.00	24	22	23	91	6	16	29.15	30.11	09	CLR	NC			10.00		31	22	28	69	6	18	29.03	29.99
12	OVC	007			0.75	25	23	24	92	3	16	29.07	30.03	12	CLR	NC			10.00		41	24	34	51	13	18	28.95	29.90
15	OVC	009			1.00	26	24	25	92	7	01	28.99	29.95	15	CLR	NC			10.00		47	27	39	46	17	18	28.82	29.76
18	OVC	041			4.00	25	21	24	85	6	30	28.99	29.95	18	CLR	NC			10.00		44	27	37	51	15	18	28.75	29.69
21	OVC	020			10.00	24	17	22	75	7	VR	29.02	29.99	21	CLR	NC			10.00		41	27	35	57	15	19	28.77	29.72
24	OVC	022			10.00	19	11	17	71	14	28	29.08	30.04	24	CLR	NC			10.00		39	28	35	65	10	20	28.75	29.69
SUNRISE: 0725 JAN 17						SUNSET: 1650						SUNRISE: 0721 JAN 23						SUNSET: 1658										
03	CLR	NC			10.00	13	8	12	81	5	24	29.10	30.07	03	CLR	NC			10.00		36	29	33	76	7	21	28.75	29.69
06	CLR	NC			7.00	13	11	12	92	5	25	29.12	30.10	06	CLR	NC			10.00		33	29	31	85	5	19	28.76	29.70
09	CLR	NC			6.00	15	11	14	84	6	VR	29.17	30.14	09	CLR	NC			10.00		36	31	34	82	0	00	28.84	29.78
12	FEW	NC			8.00	20	14	18	78	8	22	29.18	30.16	12	CLR	NC			10.00		40	28	35	63	8	35	28.87	29.80
15	BKN	021			10.00	24	15	21	68	13	27	29.13	30.11	15	OVC	030			10.00		39	29	35	67	10	03	28.92	29.86
18	CLR	NC			10.00	20	12	18	71	5	VR	29.16	30.14	18	OVC	028			10.00		36	28	33	73	6	34	28.99	29.93
21	CLR	NC			10.00	19	11	17	71	7	VR	29.16	30.14	21	OVC	028			10.00		34	27	31	76	8	34	29.00	29.95
24	CLR	NC			10.00	14	9	13	80	7	VR	29.19	30.17	24	OVC	028			10.00		33	26	30	75	7	34	29.01	29.96
SUNRISE: 0724 JAN 18						SUNSET: 1651						SUNRISE: 0720 JAN 24						SUNSET: 1659										
03	CLR	NC			8.00	11	6	10	81	6	28	29.21	30.19	03	OVC	030			10.00		31	25	29	79	6	32	29.00	29.96
06	CLR	NC			10.00	7	2	6	80	6	28	29.24	30.22	06	OVC	026			10.00		30	23	28	75	7	29	29.03	29.99
09	CLR	NC			10.00	7	-2	5	66	8	31	29.31	30.29	09	BKN	020			10.00		29	20	26	69	9	30	29.09	30.04
12	CLR	NC			10.00	9	-4	7	55	10	26	29.33	30.31	12	CLR	NC			10.00		32	21	28	64	8	24	29.05	30.01
15	CLR	NC			10.00	14	-3	11	47	5	28	29.28	30.26	15	CLR	NC			10.00		38	19	31	47	9	23	29.00	29.95
18	CLR	NC			10.00	5	-3	4	69	0	00	29.25	30.24	18	CLR	NC			10.00		34	20	29	56	6	22	29.01	29.97
21	CLR	NC			10.00	8	-2	6	63	0	00	29.23	30.22	21	CLR	NC			10.00		33	20	29	59	10	22	29.01	29.96
24	CLR	NC			10.00	4	0	3	83	3	16	29.19	30.18	24	CLR	NC			10.00		31	20	27	64	7	23	29.04	29.99

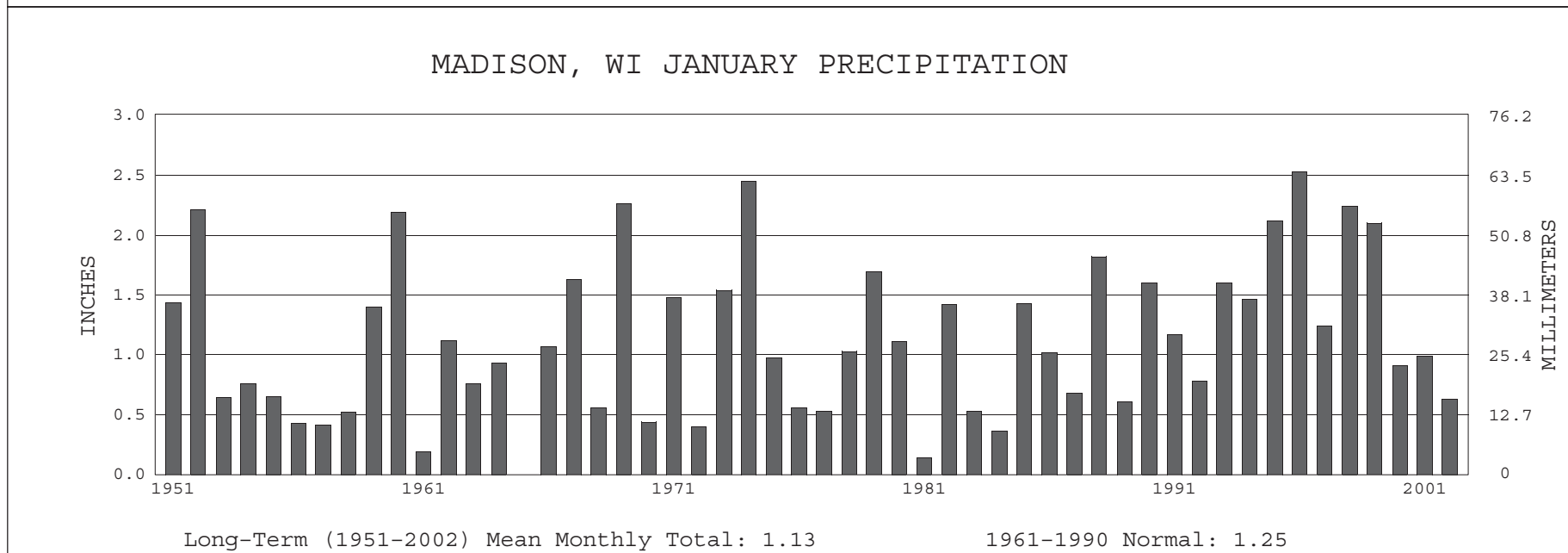
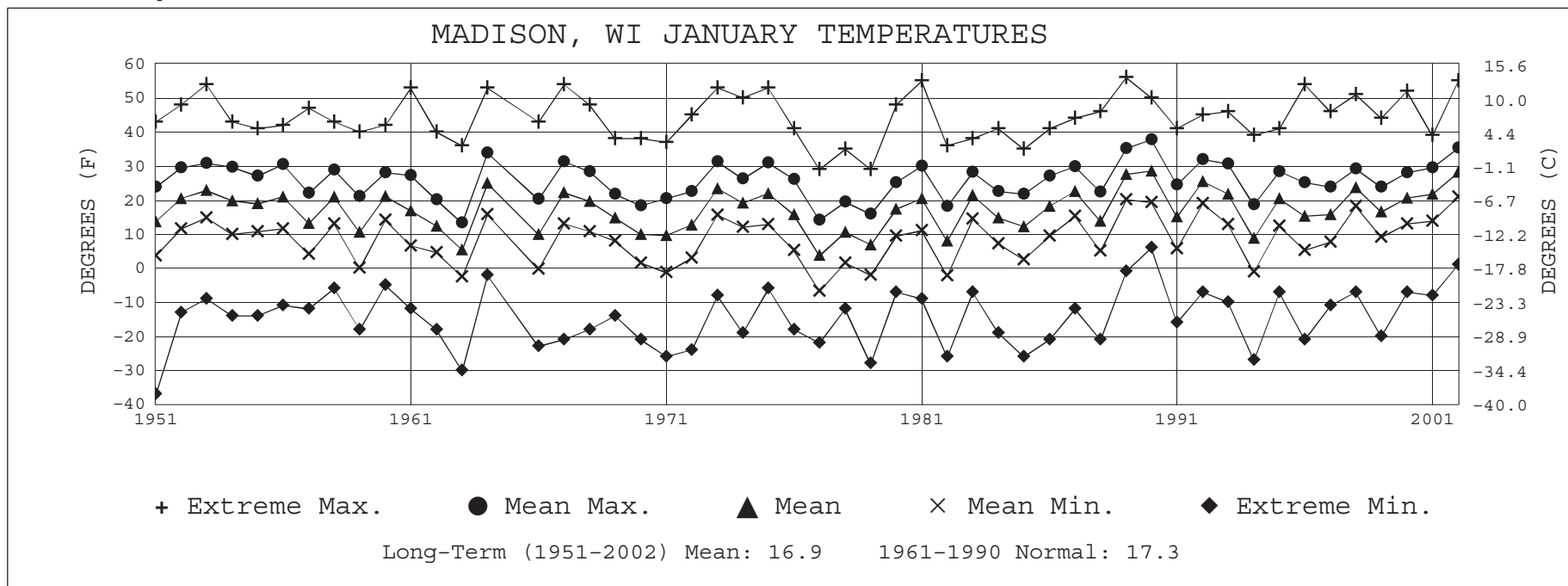
MADISON, WI

JANUARY 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 OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Otkas	VISIBILITY (MILES)		Dry Bulb	Dew Point	Wet Bulb		Speed (MPH)	DIRECTION TENS OF DEG	Station	Sea Level		Sky Cover	Ceiling 100'S OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Otkas	VISIBILITY (MILES)		Dry Bulb	Dew Point	Wet Bulb		Speed (MPH)	DIRECTION TENS OF DEG	Station	Sea Level		
3-Hourly Forecast																															
SUNRISE: 0719						JAN 25	SUNSET: 1700						SUNRISE: 0714						JAN 31	SUNSET: 1708											
03	CLR	NC			10.00		30	18	26	61	3	23	29.04	30.00	03	OVC	010			1.00	-SN BR		26	23	25	88	12	03	29.22	30.19	
06	CLR	NC			10.00		29	19	26	66	8	22	29.04	29.99	06	OVC	016			1.75	-SN BR		27	24	26	89	15	02	29.15	30.12	
09	SCT	NC			10.00		34	17	28	50	12	21	29.01	29.97	09	OVC	011			1.00	-SN BR		27	25	26	92	14	03	29.16	30.12	
12	CLR	NC			10.00		47	17	36	30	17	21	28.99	29.93	12	OVC	013			2.50	BR		30	26	29	85	22	04	29.08	30.05	
15	CLR	NC			10.00		52	19	39	27	12	21	28.93	29.87	15	OVC	011			10.00			30	27	29	88	12	05	29.04	30.00	
18	CLR	NC			10.00		49	17	37	28	10	21	28.93	29.88	18	OVC	007			2.50	-SN BR		29	27	28	92	15	04	28.96	29.91	
21	CLR	NC			10.00		45	17	35	33	13	21	28.96	29.90	21	OVC	006			1.00	-FZDZSN BR		29	28	29	96	14	02	28.86	29.81	
24	CLR	NC			10.00		42	18	33	38	10	21	28.97	29.91	24	VV	006			1.00	-SN BR		24	22	23	91	14	36	28.80	29.75	
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 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.																															
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)																					
							STATION	SEA LEVEL																							
01			27	19	24	75	29.01	29.97	9.12	6	2	24																			
02			26	19	24	75	29.01	29.97	9.04	6	2	27																			
03			26	19	23	75	29.01	29.97	9.13	5	1	26																			
04			25	19	23	78	29.01	29.97	9.16	5	1	27																			
05			25	19	23	78	29.01	29.96	8.90	5	2	25																			
06			25	19	23	78	29.01	29.97	8.77	6	2	25																			
07			24	19	23	80	29.02	29.98	8.36	6	2	25																			
08			25	19	23	79	29.02	29.98	7.74	7	1	26																			
09			26	20	24	77	29.04	29.99	8.03	7	2	28																			
10			28	20	26	74	29.04	30.00	8.28	8	3	26																			
11			30	21	27	70	29.04	30.00	8.43	9	3	27																			
12			32	21	28	67	29.02	29.97	8.57	10	3	26																			
13			33	21	29	64	29.00	29.95	8.56	9	3	26																			
14			34	21	29	62	28.98	29.94	8.81	9	2	25																			
15			34	21	30	62	28.98	29.94	9.05	9	3	24																			
16			34	21	29	63	28.99	29.95	8.84	8	2	23																			
17			33	21	29	65	29.00	29.95	8.65	7	2	23																			
18			31	21	28	68	29.00	29.96	8.63	8	2	23																			
19			30	21	27	70	29.00	29.96	8.52	7	2	22																			
20			29	21	26	73	29.00	29.96	8.71	6	2	22																			
21			29	21	26	73	29.00	29.96	8.74	7	2	23																			
22			29	21	26	74	29.00	29.96	9.05	8	3	24																			
23			28	20	25	74	29.00	29.96	8.97	7	2	26																			
24			27	20	25	75	29.00	29.96	8.76	7	2	25																			





JANUARY 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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