



MAY 1999

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): 858 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	73	37	55	4	36	47	10	0	10 RA BR RA BR	0		0.0	0.00	29.32	30.26	0.5	22	1.4	10	12	9	12	01				
02	74	40	57	5	38	49	8	0		0		0.0	0.00	29.15	30.08	6.0	14	6.5	24	12	18	15	02				
03	78	48	63	11	42	53	2	0		0		0.0	0.00	28.96	29.88	10.7	15	11.4	31	15	26	15	03				
04	80	52	66	14	53	59	0	1		0		0.0	0.03	28.77	29.67	14.4	14	14.9	34	11	30*	12	04				
05	76	54	65	12	55	60	0	0		0		0.0	0.11	28.57	29.47	13.3	16	14.0	37*	16	29	17	05				
06	61	51	56	3	50	52	9	0	RA DZ BR	0		0.0	0.82	28.48	29.39	7.4	20	9.1	28	19	20	19	06				
07	55	50	53	0	49	51	12	0	RA DZ BR	0		0.0	0.02	28.58	29.50	13.1	20	13.5	29	18	22	19	07				
08	57	48	53	-1	46	49	12	0	RA	0		0.0	T	28.89	29.82	5.5	29	7.3	18	28	13	30	08				
09	65	37	51	-3	45	49	14	0	MIFG	0		0.0	0.00	29.15	30.08	3.0	15	4.6	17	17	14	13	09				
10	73	41	57	3	45	51	8	0		0		0.0	0.00	29.13	30.06	10.3	10	10.8	25	11	23	11	10				
11	77	53	65	10	50	56	0	0	RA	0		0.0	0.01	29.08	30.00	10.6	10	11.5	29	11	23	12	11				
12	61	49	55	0	50	52	10	0	RA BR HZ	0		0.0	0.26	29.02	29.95	13.9	07	14.4	25	05	22	06	12				
13	63	42	53	-2	37	45	12	0	RA	0		0.0	T	29.06	29.99	11.5	06	11.8	24	07	21	07	13				
14	69	36*	53	-3	40	48	12	0		0		0.0	0.00	29.18	30.11	6.1	07	7.1	22	09	17	09	14				
15	66	50	58	2	53	56	7	0	RA BR HZ	0		0.0	0.03	29.11	30.04	6.2	15	7.0	18	13	16	16	15				
16	75	56	66	10	60	62	0	1	TS TSRA FG BR HZ	0		0.0	1.64	28.97	29.89	4.9	15	8.7	32	31	24	31	16				
17	71	60	66	9	60	62	0	1	TSRA RA BR	0		0.0	0.16	28.85	29.76	5.4	20	8.8	25	19	21	19	17				
18	68	51	60	3	49	54	5	0	RA DZ BR	0		0.0	0.14	29.06	29.99	8.5	30	8.8	23	29	17	30	18				
19	72	44	58	0	47	54	7	0		0		0.0	0.00	29.23	30.15	3.1	19	4.3	15	17	13	17	19				
20	75	53	64	6	48	56	1	0		0		0.0	0.00	29.13	30.05	9.8	18	10.0	21	18	17	17	20				
21	68	58	63	5	56	59	2	0	RA FG BR HZ	0		0.0	0.09	29.02	29.94	1.0	13	5.6	17	20	14	19	21				
22	72	54	63	4	53	57	2	0	FG+ BCFG BR	0		0.0	0.00	29.10	30.02	4.6	08	6.9	18	10	16	11	22				
23	66	50	58	-1	48	52	7	0	RA BR	0		0.0	0.38	28.87	29.80	6.5	29	11.2	28	31	20	30	23				
24	55	41	48*	-11	39	44	17	0	RA BCFG	0		0.0	0.02	28.85	29.77	9.1	31	9.3	28	31	21	31	24				
25	65	38	52	-7	38	46	13	0	BCFG	0		0.0	0.00	28.90	29.83	8.8	31	9.8	31	31	24	30	25				
26	72	47	60	0	40	50	5	0	RA DZ BR HZ	0		0.0	0.00	29.09	30.02	4.2	31	5.3	18	36	15	02	26				
27	79	45	62	2	46	55	3	0		0		0.0	0.00	29.12	30.04	3.2	24	4.0	17	27	14	27	27				
28	83	56	70	9	58	63	0	5		0		0.0	0.00	29.13	30.04	1.7	22	3.1	14	22	10	24	28				
29	84	58	71*	10	56	62	0	6		0		0.0	0.00	29.17	30.09	2.8	23	3.5	17	20	13	23	29				
30	84*	56	70	8	55	62	0	5		0		0.0	0.00	29.11	30.02	5.4	18	5.9	23	16	18	16	30				
31	79	60	70	8	63	65	0	5		0		0.0	0.01	28.87	29.78	6.8	20	8.7	21	19	16	16	31				
70.8		48.9	59.9	■ ■	48.6	54.2	5.7	0.8		< MONTHLY AVERAGES		TOTALS-->		0.0	3.72	29.00	29.92	0.7	22	8.4	<-- MONTHLY AVERAGES						
1.9		4.7	3.4	■ ■	<----- DEPARTURE FROM NORMAL ----->										0.58	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.80 DATE: 16-17				GREATEST 24-HR SNOWFALL: 0.0 DATE:				GREATEST SNOW DEPTH: 0 DATE:				SEA LEVEL PRESSURE DATE TIME					
MONTHLY TOTAL DEPARTURE										MAXIMUM : 30.34 01 0753				MINIMUM : 29.33 06 0953													
SEASON TO DATE TOTAL DEPARTURE									HEATING: 178 -116 6337 -1268				COOLING: 24 -6 24 -6														
									NUMBER OF DAYS WITH →		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 14												
											MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 7												
											THUNDERSTORMS : 2		HEAVY FOG : 1		SNOWFALL ≥ 1.0 INCH : 0												

MAY 1999
MADISON, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MADISON, WI

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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													01												01			0.00	
02													02													02			0.00
03													03													03			0.00
04													04													04			0.03
05	T	0.01				T	0.03	0.04	T				05		T		0.03	0.03	T					T	T	05			0.11
06	T	T			T	0.26	0.06	0.28	T	0.06	0.07	0.02	06	0.03	0.02		T	0.01	0.01	T	0.01	T		T	T	06			0.82
07	T	T		T	T	T	T	T		T	T		07			T	0.01		T							07			0.02
08	T		T										08					T	0.01							08			T
09													09													09			0.00
10													10													10			0.00
11													11													11			0.01
12	0.03	0.11	0.12	T									12						T	T	T		T	0.01	T	12			0.26
13	T	T			T	T	T	T	T	T			13												T	13			T
14													14													14			0.00
15													15					T	0.02	0.01	T					15			0.03
16													16													16			1.64
17	0.12	0.01		T	0.01	0.02	0.01	0.02	0.06	T	0.03	T	17		T	T	0.16						T	1.21	0.27	17			0.16
18		T											18													18			0.14
19													19													19			0.00
20													20													20			0.00
21													21			0.01	0.01	T	T	0.02	0.04	0.01				21			0.09
22													22													22			0.00
23				0.02	0.03	0.16	0.14	0.01			0.01	0.01	23										T	T		23			0.38
24													24		T	T					T	0.02				24			0.02
25													25													25			0.00
26													26													26			0.00
27													27													27			0.00
28													28													28			0.00
29													29													29			0.00
30													30													30			0.00
31								T	0.01		T		31						T							31			0.01

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
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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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

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							9.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							2.00	10.00	
06							3.00	10.00	
07							2.00	10.00	
08							8.00	10.00	
09							8.00	10.00	
10							10.00	10.00	
11							6.00	10.00	
12							1.75	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							2.00	10.00	
16							1.50	10.00	
17							7.00	10.00	
18							5.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							1.50	10.00	
22							.25	10.00	
23							1.50	10.00	
24							2.50	10.00	
25							9.00	10.00	
26							10.00	10.00	
27							7.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							7.00	10.00	
31							2.00	10.00	
MONTHLY AVGS							6.32	10.00	
<p align="center">SUNSHINE (MINUTES)</p> <p>Total: Possible:</p> <p align="center">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">31</p> <p align="center">MINIMUM VISIBILITY (MILES)</p> <p align="center"><=0.25 <=3.0 >=7.0</p> <p align="center">1 11 18</p>									

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Hour (LST)				SATELLITE		Weather	Temperature ° F				Relative Humidity (pct)	Wind		Pressure (Inches,Hg)		Hour (LST)				SATELLITE		Visibility (Miles)	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	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			
					SUNRISE: 0452	MAY 01		SUNSET: 1857										SUNRISE: 0444	MAY 07		SUNSET: 1904												
03	CLR	NC			10.00		39	36	38	89	0	00	29.38	30.32	03	OVC	015		10.00	DZ						51	47	49	86	17	19	28.49	29.40
06	CLR	NC			9.00		40	37	39	89	0	00	29.39	30.34	06	OVC	010		3.00	DZ BR						50	48	49	93	17	19	28.50	29.41
09	CLR	NC			10.00		63	30	48	29	0	00	29.39	30.33	09	OVC	010		3.00	BR						52	49	50	89	13	20	28.54	29.45
12	CLR	NC			10.00		69	34	52	27	0	00	29.35	30.29	12	OVC	013		10.00							55	49	52	80	15	21	28.58	29.49
15	CLR	NC			10.00		72	32	52	23	0	00	29.29	30.22	15	OVC	011		2.50	DZ BR						54	52	53	93	14	19	28.61	29.53
18	CLR	NC			10.00		71	32	52	24	3	24	29.23	30.16	18	OVC	010		2.00	DZ BR						53	51	52	93	9	21	28.65	29.57
21	CLR	NC			10.00		57	37	47	47	0	00	29.24	30.17	21	OVC	019		10.00							52	48	50	86	9	22	28.68	29.60
24	CLR	NC			10.00		48	38	43	68	0	00	29.23	30.16	24	OVC	018		10.00							51	47	49	86	9	24	28.68	29.60
					SUNRISE: 0450	MAY 02		SUNSET: 1858										SUNRISE: 0442	MAY 08		SUNSET: 1905												
03	CLR	NC			10.00		42	36	39	79	0	00	29.22	30.16	03	OVC	017		10.00							49	44	47	83	6	VR	28.71	29.63
06	CLR	NC			10.00		42	36	39	79	0	00	29.24	30.17	06	OVC	013		10.00							48	44	46	86	7	VR	28.77	29.70
09	CLR	NC			10.00		65	38	51	37	7	16	29.23	30.15	09	OVC	013		9.00							51	46	49	83	10	29	28.84	29.76
12	CLR	NC			10.00		71	37	54	29	12	19	29.19	30.11	12	OVC	017		10.00							54	48	51	80	10	30	28.89	29.81
15	CLR	NC			10.00		74	38	55	27	13	15	29.11	30.04	15	OVC	030		10.00							55	48	51	77	12	28	28.94	29.87
18	CLR	NC			10.00		68	39	53	35	12	13	29.07	30.00	18	OVC	032		10.00							55	48	51	77	7	VR	28.99	29.92
21	CLR	NC			10.00		59	39	49	48	9	12	29.06	29.98	21	OVC	036		10.00							55	44	49	67	5	29	29.04	29.98
24	CLR	NC			10.00		55	37	46	51	6	14	29.05	29.98	24	OVC	034		10.00							51	41	46	69	7	33	29.07	30.01
					SUNRISE: 0449	MAY 03		SUNSET: 1859										SUNRISE: 0441	MAY 09		SUNSET: 1906												
03	CLR	NC			10.00		51	37	45	59	3	12	29.04	29.96	03	CLR	NC		10.00							43	42	43	97	0	00	29.11	30.05
06	CLR	NC			10.00		53	41	47	64	3	13	29.03	29.96	06	CLR	NC		8.00							43	42	43	97	0	00	29.15	30.09
09	CLR	NC			10.00		69	46	57	44	14	15	29.00	29.93	09	FEW	NC		10.00							54	44	49	69	0	00	29.20	30.14
12	BKN	120			10.00		75	43	58	32	20	16	28.96	29.88	12	SCT	NC		10.00							60	45	52	58	0	00	29.18	30.11
15	SCT	NC			10.00		75	44	58	33	17	15	28.92	29.83	15	CLR	NC		10.00							64	48	55	56	9	15	29.15	30.09
18	BKN	085			10.00		73	42	56	33	12	14	28.89	29.80	18	CLR	NC		10.00							63	49	55	60	8	17	29.12	30.06
21	SCT	NC			10.00		64	42	53	45	10	12	28.90	29.81	21	CLR	NC		10.00							54	48	51	80	8	13	29.13	30.06
24	CLR	NC			10.00		59	43	51	56	8	15	28.90	29.80	24	CLR	NC		10.00							48	42	45	80	7	15	29.12	30.05
					SUNRISE: 0447	MAY 04		SUNSET: 1901										SUNRISE: 0440	MAY 10		SUNSET: 1907												
03	CLR	NC			10.00		57	45	51	64	7	13	28.85	29.77	03	CLR	NC		10.00							43	39	41	86	6	08	29.14	30.08
06	CLR	NC			10.00		57	48	52	72	7	12	28.88	29.79	06	CLR	NC		10.00							46	40	43	79	8	09	29.15	30.09
09	FEW	NC			10.00		71	55	62	57	16	15	28.85	29.76	09	CLR	NC		10.00							59	46	52	62	12	11	29.18	30.11
12	SCT	NC			10.00		76	56	64	50	22	15	28.79	29.69	12	CLR	NC		10.00							69	52	59	55	14	12	29.12	30.05
15	SCT	NC			10.00		78	54	64	43	23	13	28.69	29.59	15	CLR	NC		10.00							73	52	61	48	13	11	29.08	30.01
18	OVC	050			10.00	-RA	66	61	63	84	10	16	28.69	29.60	18	CLR	NC		10.00							67	50	57	55	17	09	29.08	30.01
21	BKN	065			10.00		69	54	60	59	16	12	28.66	29.56	21	CLR	NC		10.00							58	43	50	58	10	10	29.11	30.03
24	OVC	100			10.00		67	56	60	68	15	14	28.65	29.55	24	CLR	NC		10.00							54	43	48	67	8	11	29.09	30.02
					SUNRISE: 0446	MAY 05		SUNSET: 1902										SUNRISE: 0439	MAY 11		SUNSET: 1908												
03	BKN	110			10.00		65	56	60	73	9	15	28.57	29.47	03	FEW	NC		10.00							55	46	50	72	7	11	29.08	30.00
06	OVC	017			6.00	-RA BR	62	58	60	86	21	14	28.55	29.45	06	CLR	NC		10.00							54	44	49	69	8	12	29.12	30.04
09	BKN	022			10.00		64	60	62	87	14	14	28.55	29.45	09	BKN	070		10.00							63	49	55	60	13	13	29.13	30.06
12	SCT	NC			10.00		72	60	65	66	25	15	28.55	29.44	12	SCT	NC		10.00							73	54	62	51	12	10	29.09	30.01
15	SCT	NC			10.00		76	51	61	42	20	19	28.55	29.44	15	BKN	080		10.00							76	55	63	48	20	09	29.04	29.97
18	SCT	NC			10.00		73	48	59	41	13	19	28.57	29.47	18	BKN	100		10.00							70	50	59	49	16	12	29.05	29.97
21	CLR	NC			10.00		63	51	56	65	5	20	28.60	29.50	21	OVC	090		10.00							62	50	55	65	12	10	29.07	29.99
24	BKN	095			10.00		56	52	54	87	0	00	28.60	29.49	24	BKN	047		6.00	-RA						57	52	54	83	9	05	29.04	29.96
					SUNRISE: 0445	MAY 06		SUNSET: 1903										SUNRISE: 0438	MAY 12		SUNSET: 1910												
03	CLR	NC			10.00		54	52	53	93	0	00	28.53	29.43	03	OVC	020		3.00	-RA BR						53	51	52	93	20	09	29.03	29.95
06	OVC	006			3.00	-RA BR	53	51	52	93	8	28	28.50	29.40	06	OVC	007		2.50	BR						51	49	50	92	10	08	29.06	29.98
09	OVC	075			10.00	-RA	53	51	52	93	0	00	28.42	29.33	09	OVC	011		6.00	BR						53	49	51	86	18	08	29.03	29.96
12	OVC	027			5.00	-RA BR	52	49	50	89	8	21	28.44	29.35	12	OVC	015		6.00	HZ						59	53	56	81	15	09	29.02	29.96
15	OVC	036			10.00		54	48	51	80	9	21	28.46	29.37	15	OVC	017		7.00							59	52	55	78	16	06	28.99	29.91
18	OVC	015			3.00	-RA BR	53	50	51	89	10	21	28.48	29.39	18	OVC	035		8.00							55	48	51	77	15	06	28.99	29.91
21	OVC	012			10.00		52	50	51	93	14	19	28.52	29.43	21	BKN	120		9.00							50	46	48	86	15	06	29.00	29.94
24	OVC	016			10.00	DZ	52	48	50	86	20	19	28.51	29.42	24	OVC	041		10.00	-RA													

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

MAY 1999

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		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		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL				
				VISIBILITY (MILES)																											
			SUNRISE: 0436														SUNRISE: 0430														
03	OVC	048			10.00									03	CLR	NC				10.00											
06	OVC	070			10.00									06	CLR	NC				10.00											
09	OVC	048			10.00									09	SCT	NC				10.00											
12	OVC	065			10.00									12	CLR	NC				10.00											
15	CLR	NC			10.00									15	CLR	NC				10.00											
18	SCT	NC			10.00									18	CLR	NC				10.00											
21	CLR	NC			10.00									21	CLR	NC				10.00											
24	CLR	NC			10.00									24	CLR	NC				10.00											
			SUNRISE: 0435														SUNRISE: 0429														
03	CLR	NC			10.00									03	CLR	NC				10.00											
06	CLR	NC			10.00									06	CLR	NC				10.00											
09	CLR	NC			10.00									09	CLR	NC				10.00											
12	CLR	NC			10.00									12	SCT	NC				10.00											
15	CLR	NC			10.00									15	CLR	NC				10.00											
18	CLR	NC			10.00									18	CLR	NC				10.00											
21	CLR	NC			10.00									21	CLR	NC				10.00											
24	CLR	NC			10.00									24	BKN	120				10.00											
			SUNRISE: 0434														SUNRISE: 0429														
03	OVC	050			10.00									03	OVC	065				10.00											
06	FEW	NC			10.00									06	FEW	NC				10.00											
09	FEW	NC			7.00									09	SCT	NC				7.00											
12	OVC	036			8.00									12	FEW	NC				8.00											
15	OVC	039			6.00									15	BKN	020				4.00											
18	BKN	032			2.50									18	OVC	090				6.00											
21	OVC	055			2.50									21	BKN	055				6.00											
24	BKN	075			2.00									24	OVC	013				1.50											
			SUNRISE: 0433														SUNRISE: 0428														
03	BKN	100			2.50									03	OVC	009				2.50											
06	OVC	075			1.75									06	BKN	034				4.00											
09	CLR	NC			3.00									09	CLR	NC				10.00											
12	OVC	024			5.00									12	CLR	NC				10.00											
15	OVC	026			3.00									15	BKN	050				10.00											
18	SCT	NC			5.00									18	FEW	NC				10.00											
21	SCT	NC			8.00									21	CLR	NC				10.00											
24	OVC	019			2.50									24	CLR	NC				10.00											
			SUNRISE: 0432														SUNRISE: 0427														
03	CLR	NC			9.00									03	OVC	100				10.00											
06	FEW	NC			10.00									06	OVC	017				1.50											
09	CLR	NC			10.00									09	OVC	016				8.00											
12	OVC	029			10.00									12	BKN	034				10.00											
15	BKN	050			10.00									15	BKN	042				10.00											
18	SCT	NC			10.00									18	OVC	040				10.00											
21	BKN	085			10.00									21	OVC	028				10.00											
24	OVC	024			10.00									24	OVC	039				10.00											
			SUNRISE: 0431														SUNRISE: 0426														
03	OVC	019			10.00									03	OVC	025				10.00											
06	OVC	055			5.00									06	OVC	025				10.00											
09	BKN	013			10.00									09	OVC	025				10.00											
12	SCT	NC			10.00									12	OVC	036				10.00											
15	SCT	NC			10.00									15	OVC	065				10.00											
18	FEW	NC			10.00									18	OVC	070				10.00											
21	CLR	NC			10.00									21	CLR	NC				10.00											
24	CLR	NC			10.00									24	FEW	NC				2.50											

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

MAY 1999

MSN

WBAN # 14837

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)																													
				DRY BULB	DEW POINT					WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	DRY BULB	DEW POINT	WET BULB									SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																																	
SUNRISE: 0425 MAY 25 SUNSET: 1923																																SUNRISE: 0421 MAY 31 SUNSET: 1928																															
03	CLR	NC						9.00		40	39	40	97	0	00	28.86	29.79	03	SCT	NC						9.00		68	60	63	76	10	17	28.94	29.85																												
06	CLR	NC						10.00		46	40	43	79	8	27	28.85	29.78	06	BKN	012						3.00	BR	67	63	64	87	12	18	28.91	29.82																												
09	CLR	NC						10.00		58	34	47	41	14	30	28.85	29.78	09	OVC	010						2.00	BR	68	66	67	93	13	17	28.87	29.78																												
12	BKN	070						10.00		62	34	49	35	22	30	28.85	29.78	12	SCT	NC						10.00		74	64	68	71	10	21	28.86	29.76																												
15	BKN	070						10.00		65	37	51	36	15	31	28.88	29.80	15	SCT	NC						10.00		78	64	69	62	12	21	28.81	29.71																												
18	SCT	NC						10.00		61	39	50	44	14	32	28.94	29.86	18	BKN	055						10.00		73	64	67	74	9	27	28.81	29.72																												
21	CLR	NC						10.00		53	40	47	61	5	35	29.01	29.94	21	CLR	NC						10.00		68	61	64	78	9	28	28.87	29.78																												
24	OVC	110						10.00		51	41	46	69	3	29	29.02	29.95	24	CLR	NC						6.00	BR	60	59	59	96	0	00	28.86	29.77																												
SUNRISE: 0425 MAY 26 SUNSET: 1924																																3-HOURLY OBSERVATION NOTES																															
03	CLR	NC						10.00		48	41	45	77	5	29	29.03	29.96	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.																																													
06	BKN	120						10.00		50	41	46	71	6	28	29.08	30.01																																														
09	CLR	NC						10.00		63	39	51	41	12	31	29.10	30.03																																														
12	CLR	NC						10.00		69	38	53	32	10	35	29.10	30.03																																														
15	CLR	NC						10.00		72	36	54	27	6	VR	29.09	30.02																																														
18	CLR	NC						10.00		71	34	53	26	7	29	29.09	30.01																																														
21	CLR	NC						10.00		57	42	50	58	0	00	29.12	30.05																																														
24	CLR	NC						10.00		49	42	46	77	0	00	29.13	30.06																																														
SUNRISE: 0424 MAY 27 SUNSET: 1925																																SUMMARY BY HOUR																															
03	CLR	NC						10.00		46	41	44	83	0	00	29.14	30.06	AVERAGES														RESULTANT WIND (MPH)																															
06	CLR	NC						10.00		51	45	48	80	0	00	29.17	30.09																																														
09	CLR	NC						10.00		70	43	56	38	6	VR	29.16	30.08	PRESSURE (INCHES, HG)		VISIBILITY (MILES)		WIND SPEED (MPH)		SPEED		DIRECTION																																					
12	CLR	NC						10.00		77	40	57	26	7	22	29.13	30.06																																														
15	FEW	NC						10.00		78	44	59	30	8	22	29.09	30.01	STATION		SEA LEVEL																																											
18	SCT	NC						10.00		75	49	60	40	5	22	29.05	29.97																																														
21	FEW	NC						10.00		65	56	60	73	3	23	29.08	30.00	RELATIVE HUMIDITY																																													
24	CLR	NC						10.00		65	57	60	76	5	29	29.09	30.01																																														
SUNRISE: 0423 MAY 28 SUNSET: 1926																																HOUR (LST)																															
03	CLR	NC						10.00		57	54	55	90	0	00	29.11	30.03	01																																													
06	CLR	NC						10.00		62	57	59	84	0	00	29.14	30.06	02																																													
09	CLR	NC						10.00		73	60	65	64	3	VR	29.16	30.08	03																																													
12	FEW	NC						10.00		80	59	67	49	7	22	29.14	30.06	04																																													
15	SCT	NC						10.00		83	60	68	46	6	VR	29.11	30.03	05																																													
18	CLR	NC						10.00		81	57	66	44	5	23	29.09	30.01	06																																													
21	CLR	NC						10.00		67	61	63	81	0	00	29.11	30.03	07																																													
24	CLR	NC						10.00		71	55	62	57	6	VR	29.12	30.04	08																																													
SUNRISE: 0423 MAY 29 SUNSET: 1927																																09																															
03	CLR	NC						10.00		62	55	58	78	0	00	29.14	30.06	10																																													
06	CLR	NC						10.00		65	57	60	76	0	00	29.19	30.11	11																																													
09	CLR	NC						10.00		77	56	64	48	6	24	29.22	30.14	12																																													
12	FEW	NC						10.00		82	55	66	40	7	23	29.20	30.11	13																																													
15	SCT	NC						10.00		83	53	65	36	9	23	29.16	30.08	14																																													
18	FEW	NC						10.00		80	54	64	41	3	22	29.15	30.06	15																																													
21	CLR	NC						10.00		67	57	61	71	0	00	29.16	30.08	16																																													
24	CLR	NC						10.00		61	57	59	87	0	00	29.17	30.09	17																																													
SUNRISE: 0422 MAY 30 SUNSET: 1927																																18																															
03	CLR	NC						8.00		60	57	58	90	0	00	29.18	30.10	19																																													
06	CLR	NC						7.00		61	57	59	87	0	00	29.20	30.11	20																																													
09	CLR	NC						10.00		77	56	64	48	6	14	29.17	30.09	21																																													
12	SCT	NC						10.00		81	52	64	37	14	18	29.14	30.06	22																																													
15	FEW	NC						10.00		82	54	65	38	8	21	29.07	29.99	23																																													
18	BKN	080						10.00		80	55	65	42	5	17	29.00	29.92	24																																													
21	FEW	NC						10.00		69	57	62	66	5	16	29.01	29.93																																														
24	CLR	NC						8.00		71	58	63	63	8	17	28.99	29.90																																														

SUPPLEMENTARY HOURLY PRECIPITATION

UNIVERSAL RAIN GAUGE (WATER EQUIVALENT IN INCHES)

MAY 1999
MADISON, WI

LATITUDE 43° 8'N
LONGITUDE 89° 20'

A.M. HOUR (L.S.T.) ENDING AT													DATE	P.M. HOUR (L.S.T.) ENDING AT												DATE	DAILY TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	1		2	3	4	5	6	7	8	9	10	11	12			
01	T	0.10	0.08			0.25	0.06	0.28	T	0.06	0.05	0.04	01	0.03	T										01	0.00	
02													02												0.00		
03													03												0.00		
04													04												0.06		
05													05												0.06		
06													06												0.77		
07													07												0.00		
08													08												0.00		
09													09												0.00		
10													10												0.00		
11													11	11	0.00												
12													12	0.18													
13													13	0.00													
14													14	0.00													
15													15	0.00													
16	0.05										0.03		16												16	1.85	
17													17												0.08		
18													18												0.00		
19													19												0.00		
20													20												0.09		
21				0.01	0.05	0.20	0.07				0.01		21	21	0.00												
22													22	0.00													
23													23	0.34													
24													24	0.00													
25													25	0.00													
26													26	26	0.00												
27													27	0.00													
28													28	0.00													
29													29	0.00													
30													30	0.00													
31													31	0.00													
PUBLISHED BY: NCDC, ASHEVILLE, NC.																							MONTHLY TOTAL		3.43		

SUPPLEMENTARY MAXIMUM SHORT DURATION PRECIPITATION (MSDP)

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)					1.25	1.25	1.30	1.35	1.40	1.45	1.65	1.70
ENDED: DATE					16	16	16	16	16	16	16	16
ENDED: TIME					2200	2200	2200	2230	2230	2300	2330	2359

The time indicated is the ending time of the interval.
Date and time are not entered for trace amounts.

The National Weather Service has determined that the ASOS Heated Tipping-Bucket (HTB) rain gauge may not measure water equivalent precipitation accurately during frozen precipitation events. Precipitation data from a nearby site is provided on this page to supplement the ASOS HTB data. M = Missing Data.
* = Data distribution unknown.
First HPD value that follows is the total accumulated amount.



**MAY 1999
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.

DIRECTOR

NOTICE

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

We welcome your questions or comments, please contact us at
828–271–4800 (voice), 828–271–4876 (fax),
828–271–4010(TDD)
or orders@ncdc.noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

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