



# APRIL 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	64	53	59	20	51	54	6	0	BR HZ	0		0.0	0.00	28.86	29.78	9.6	16	10.4	18	16	16	16	01					
02	75*	51	63*	23	53	57	2	0	BR HZ	0		0.0	0.00	28.89	29.81	7.5	18	8.4	20	21	16	17	02					
03	61	50	56	16	54	55	9	0	TS TSRA RA FG BR	0		0.0	0.96	28.83	29.75	6.9	08	10.0	26	09	23	09	03					
04	58	43	51	10	45	48	14	0	RA BR	0		0.0	0.14	29.00	29.93	2.7	35	7.5	22	28	17	05	04					
05	54	41	48	7	41	43	17	0	TSRA RA BR	0		0.0	0.23	29.05	29.98	13.3	10	15.0	36	11	26	12	05					
06	57	42	50	8	41	45	15	0	RA BR	0		0.0	T	28.85	29.78	9.0	24	11.7	33	27	22	28	06					
07	72	35	54	12	42	49	11	0		0		0.0	0.00	29.00	29.93	7.2	20	8.8	32	17	26	18	07					
08	63	34	49	7	39	44	16	0	TSRA RA BCFG BR	0		0.0	1.05	28.86	29.79	12.2	07	12.8	34	05	29	05	08					
09	50	36	43	0	36	40	22	0	RA BR	0		0.0	0.71	28.80	29.73	20.2	05	20.7	41*	07	33*	05	09					
10	52	30	41	-2	32	38	24	0	TSRAGS RA	0		T	0.02	28.94	29.88	14.2	10	14.8	36	09	31	10	10					
11	44	39	42	-2	37	39	23	0	TS RA DZ BR	0		0.0	0.04	28.91	29.85	5.5	04	9.9	24	12	21	12	11					
12	50	29	40*	-4	36	39	25	0	BCFG BR	0		0.0	0.00	29.32	30.27	1.6	27	3.0	14	29	10	30	12					
13	61	29*	45	0	34	41	20	0	FZFG BCFG BR HZ	0		0.0	0.00	29.24	30.19	1.2	17	1.7	11	15	8	19	13					
14	63	34	49	4	35	43	16	0		0		0.0	0.00	29.04	29.98	2.4	12	3.7	15	13	13	13	14					
15	57	43	50	5	35	43	15	0	RA	0		0.0	T	28.67	29.59	9.6	04	10.6	30	02	24	02	15					
16	59	44	52	6	31	42	13	0	RA	0		0.0	T	28.58	29.50	13.0	02	13.9	37	02	29	01	16					
17	51	40	46	0	29	39	19	0	RA	0		0.0	T	28.94	29.88	8.2	35	9.1	26	36	22	36	17					
18	49	34	42	-4	35	39	23	0	RA SN BR	0		T	0.05	29.09	30.04	1.2	20	4.0	14	23	10	22	18					
19	53	32	43	-4	34	39	22	0	BR	0		0.0	0.00	29.05	29.99	1.7	25	2.8	14	22	10	23	19					
20	52	32	42	-5	40	42	23	0	RA BR	0		0.0	0.19	29.02	29.95	6.2	15	7.1	18	17	15	16	20					
21	56	39	48	0	44	46	17	0	TSRA RA BR HZ	0		0.0	0.51	28.86	29.79	11.1	07	11.4	29	05	25	06	21					
22	46	40	43	-5	42	43	22	0	TSRA RA DZ BR	0		0.0	1.69	28.89	29.82	18.1	06	19.1	38	08	32	08	22					
23	52	37	45	-3	33	39	20	0	RA BR	0		0.0	1.11	29.29	30.24	15.7	03	16.0	36	03	30	03	23					
24	58	32	45	-4	32	40	20	0		0		0.0	0.00	29.47	30.43	1.4	05	3.7	15	02	11	05	24					
25	63	32	48	-1	34	42	17	0	BCFG	0		0.0	0.00	29.26	30.20	2.2	17	2.8	16	16	13	17	25					
26	69	36	53	3	36	46	12	0		0		0.0	0.00	29.02	29.95	6.8	09	7.5	23	10	18	11	26					
27	54	45	50	0	38	45	15	0	RA	0		0.0	0.21	29.03	29.96	10.1	08	10.3	20	08	16	08	27					
28	63	41	52	2	35	44	13	0		0		0.0	0.00	29.23	30.17	15.2	06	15.6	31	05	26	08	28					
29	66	37	52	1	35	44	13	0		0		0.0	0.00	29.43	30.38	9.5	06	9.9	25	07	21	08	29					
30	68	37	53	2	35	45	12	0		0		0.0	0.00	29.44	30.38	3.8	06	4.5	18	11	16	07	30					
58.0 38.2 48.1 ■■										< MONTHLY AVERAGES TOTALS-->			T	6.91	29.03	29.96	5.1	07	9.6	<-- MONTHLY AVERAGES								
1.3 4.1 2.7 ■■										<----- DEPARTURE FROM NORMAL ----->										4.05	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 2.26 DATE :22-23				SEA LEVEL PRESSURE DATE TIME															
MONTHLY TOTAL DEPARTURE 496 -92									GREATEST 24-HR SNOWFALL: T DATE :18+				MAXIMUM : 30.51 24 0753															
SEASON TO DATE TOTAL DEPARTURE 6159 -1152									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.36 16 0353															
HEATING: 496 -92									NUMBER OF DAYS WITH → MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 7				PRECIPITATION ≥ 0.01 INCH : 13											
COOLING: 0 0									MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 10											
									THUNDERSTORMS : 7				HEAVY FOG : 0				SNOWFALL ≥ 1.0 INCH : 0											

APRIL 1999  
MADISON, WI

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MADISON, WI

APRIL 1999

MSN

WBAN # 14837

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	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	1.67 1.06	0.00		
02													02												02		0.00		
03						0.01	0.02			0.11	0.28	T	03	T	0.06	0.41	0.07							03	0.96				
04		T	0.04	0.02	0.02	0.04	0.02	T					04												04		0.14		
05									T	T	T	T	05	T	0.01	T		T	0.01			0.08	0.11	T	0.02		05	0.23	
06													06												06		T		
07					T	T							07												07		0.00		
08													08				T	T	0.09	0.16	0.12	0.12	0.21	0.24	0.11		08	1.05	
09	T	0.08	0.16	0.20	0.01	0.04	0.12	0.09	0.01	T	T		09												09		0.71		
10													10			T	0.02	T			T				10		0.02		
11				T	T	T	T	0.01	T	0.01	0.01	0.01	11	T											11		0.04		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15								T					15			T		T	T	T	T	T	T	T	15		T		
16	T	T	T	T	T	T							16												16		T		
17													17												17		T		
18		T	T		T	0.01	0.04	T					18					T							18		0.05		
19													19												19		0.00		
20												0.01	20	0.01	0.02	0.05	0.06	0.04							20		0.19		
21													21								T	0.11	T	0.21	0.19		21	0.51	
22	0.01	0.18	0.20	0.03	0.04	T	0.01	0.01	T	0.06	0.16	0.04	22	0.11	0.01	T	0.01	0.01	T	T	0.06	0.11	0.17	0.20	22		1.69		
23	0.23	0.23	0.27	0.13	0.12	0.07	0.01						23												23		1.11		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27										T	0.02	0.01	27	0.04	0.03	0.04	T	0.03	0.03	T	0.01	T	T		27		0.21		
28													28												28		0.00		
29													29												29		0.00		
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)												
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**  
**APRIL 1999**

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.

Errata- Page 7- Mo MSDP due to quage failure.

**MADISON, WI**

**APRIL 1999**

MSN

WBAN # 14837

Hour (LST)			SATELLITE		Weather	TEMPERATURE ° F				WIND RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		Hour (LST)			SATELLITE		VISIBILITY (MILES)	Weather	TEMPERATURE ° F				WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH) DIRECTION TENS OF DEG	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: 0540		APR 01	SUNSET: 1822									SUNRISE: 0530		APR 07	SUNSET: 1829													
03	OVC	012		3.00	BR	54	50	52	87	7	19	28.85	29.76	03	CLR	NC		10.00						38	35	37	89	3	19	29.16	30.10
06	OVC	008		2.00	BR	53	50	51	89	8	16	28.86	29.78	06	CLR	NC		10.00						41	37	39	86	3	20	29.13	30.08
09	OVC	010		3.00	HZ	56	51	53	84	9	18	28.88	29.80	09	SCT	NC		10.00						56	41	49	57	14	18	29.08	30.01
12	OVC	020		6.00	HZ	62	51	56	67	13	16	28.86	29.78	12	SCT	NC		10.00						63	44	53	50	22	18	28.94	29.86
15	OVC	038		6.00	HZ	62	51	56	67	13	15	28.85	29.77	15	SCT	NC		10.00						70	46	57	42	13	24	28.84	29.76
18	OVC	037		5.00	HZ	61	52	56	72	10	13	28.84	29.76	18	CLR	NC		10.00						69	47	57	45	7	26	28.87	29.79
21	OVC	041		9.00		59	51	55	75	9	13	28.89	29.81	21	CLR	NC		10.00						59	46	52	62	5	VR	28.92	29.84
24	OVC	049		7.00		58	50	54	75	9	13	28.91	29.83	24	CLR	NC		10.00						51	44	48	77	3	25	28.96	29.88
			SUNRISE: 0538		APR 02	SUNSET: 1823									SUNRISE: 0528		APR 08	SUNSET: 1830													
03	FEW	NC		7.00		54	49	51	83	10	16	28.89	29.81	03	CLR	NC		9.00						39	38	39	96	0	00	28.99	29.91
06	CLR	NC		2.00	BR	51	49	50	92	8	15	28.90	29.83	06	CLR	NC		10.00						34	34	34	100	3	02	29.01	29.95
09	SCT	NC		2.00	HZ	59	53	56	81	13	17	28.93	29.85	09	CLR	NC		10.00						57	38	48	49	15	05	29.00	29.93
12	CLR	NC		5.00	HZ	71	56	62	59	17	17	28.90	29.81	12	CLR	NC		10.00						62	43	52	50	12	09	28.97	29.90
15	FEW	NC		7.00		74	54	62	50	10	23	28.87	29.78	15	OVC	100		10.00						54	41	48	62	20	08	28.87	29.80
18	CLR	NC		7.00		69	54	60	59	3	22	28.87	29.79	18	OVC	048		3.00	TSRA					46	38	42	73	8	02	28.85	29.79
21	CLR	NC		7.00		64	55	59	73	7	21	28.92	29.83	21	OVC	070		3.00	TSRA BR					44	40	42	85	25	07	28.65	29.57
24	CLR	NC		5.00	BR	54	52	53	93	0	00	28.88	29.80	24	OVC	014		10.00	-RA					43	41	42	93	22	06	28.54	29.45
			SUNRISE: 0536		APR 03	SUNSET: 1824									SUNRISE: 0526		APR 09	SUNSET: 1831													
03	CLR	NC		5.00	BR	51	50	51	96	0	00	28.85	29.77	03	OVC	010		3.00	RA BR					44	43	44	96	23	06	28.52	29.44
06	OVC	016		2.00	-TSRA BR	58	54	56	87	8	31	28.88	29.79	06	OVC	012		3.00	-RA BR					40	38	39	93	24	05	28.60	29.53
09	OVC	025		4.00	BR	60	56	58	86	6	07	28.83	29.75	09	OVC	012		9.00	-RA					41	38	40	89	28	04	28.72	29.65
12	SCT	NC		8.00		61	57	59	87	15	09	28.80	29.72	12	BKN	020		10.00						47	41	44	80	25	04	28.80	29.73
15	OVC	030		1.75	+RA BR	57	56	56	96	3	33	28.85	29.77	15	OVC	045		10.00						49	37	43	64	23	06	28.88	29.81
18	OVC	095		5.00	BR	58	56	57	93	9	08	28.81	29.73	18	CLR	NC		10.00						47	33	41	59	21	05	28.98	29.92
21	OVC	004		3.00	BR	55	54	54	96	13	07	28.84	29.76	21	CLR	NC		10.00						40	28	35	63	15	04	29.02	29.97
24	OVC	002		2.50	BR	50	49	49	96	9	09	28.84	29.76	24	CLR	NC		10.00						36	27	33	70	8	07	29.05	30.00
			SUNRISE: 0535		APR 04	SUNSET: 1826									SUNRISE: 0524		APR 10	SUNSET: 1833													
03	OVC	004		2.50	-RA BR	49	48	48	97	6	11	28.79	29.71	03	CLR	NC		10.00						33	27	31	78	0	00	29.08	30.03
06	OVC	028		2.00	BR	50	50	50	100	5	30	28.86	29.78	06	CLR	NC		10.00						34	30	32	85	12	08	29.06	30.01
09	BKN	013		10.00		55	51	53	87	7	25	28.91	29.83	09	CLR	NC		10.00						45	29	38	54	20	11	29.04	29.98
12	OVC	014		10.00		51	45	48	80	10	29	29.01	29.94	12	CLR	NC		10.00						51	34	43	52	20	11	28.95	29.88
15	BKN	030		10.00		56	41	49	57	10	31	29.06	29.99	15	BKN	070		10.00						47	34	41	61	20	09	28.86	29.79
18	CLR	NC		10.00		54	41	48	62	7	01	29.10	30.04	18	OVC	044		10.00						46	35	41	66	14	09	28.86	29.79
21	BKN	001		2.00	BR	46	45	46	96	14	06	29.17	30.11	21	BKN	050		10.00						46	37	42	71	16	11	28.82	29.75
24	OVC	007		8.00		45	41	43	86	9	08	29.20	30.14	24	CLR	NC		10.00						44	36	40	73	13	11	28.75	29.68
			SUNRISE: 0533		APR 05	SUNSET: 1827									SUNRISE: 0523		APR 11	SUNSET: 1834													
03	OVC	013		8.00		44	40	42	85	8	06	29.25	30.18	03	OVC	018		10.00						41	36	39	82	16	12	28.66	29.59
06	OVC	005		3.00	BR	42	40	41	92	13	06	29.24	30.19	06	OVC	006		2.50	DZ					41	39	40	93	10	07	28.69	29.62
09	OVC	007		9.00		42	39	41	89	13	11	29.24	30.19	09	OVC	004		2.00	-RA BR					41	40	41	96	7	06	28.75	29.69
12	OVC	007		8.00		42	39	41	89	13	08	29.12	30.07	12	OVC	010		10.00						40	37	39	89	12	01	28.86	29.80
15	OVC	011		7.00		45	42	44	90	21	09	28.99	29.93	15	OVC	014		10.00						41	37	39	86	12	36	28.98	29.92
18	OVC	041		8.00		45	39	42	80	17	10	28.90	29.83	18	OVC	013		10.00						39	35	37	86	9	35	29.09	30.04
21	OVC	041		3.00	-TSRA BR	49	43	46	80	20	12	28.77	29.70	21	OVC	020		10.00						39	36	38	89	0	00	29.18	30.13
24	OVC	080		10.00		53	50	51	89	13	15	28.66	29.59	24	BKN	032		10.00						39	36	38	89	5	30	29.23	30.18
			SUNRISE: 0531		APR 06	SUNSET: 1828									SUNRISE: 0521		APR 12	SUNSET: 1835													
03	BKN	075		3.00	BR	52	52	52	100	10	15	28.58	29.50	03	CLR	NC		4.00	BR					33	32	33	96	0	00	29.28	30.23
06	BKN	021		10.00		49	41	45	74	15	22	28.60	29.53	06	BKN	120		2.50	BR					34	33	34	97	3	27	29.33	30.28
09	OVC	011		10.00		46	42	44	86	15	23	28.67	29.60	09	SCT	NC		10.00						45	38	42	77	7	VR	29.36	30.30
12	OVC	020		10.00		45	37	41	74	18	26	28.84	29.77	12	OVC	032		10.00						48	38	43	68	7	VR	29.36	30.30
15	BKN	028		10.00		48	36	43	63	16	27	28.96	29.89	15	OVC	026		10.00						48	38	43	68	8	26	29.33	30.28
18	CLR	NC		10.00		52	36	45	55	8	29	29.03	29.97	18	BKN	040		10.00						48	38	43	68	6	05	29.31	30.26
21	CLR	NC		10.00		46	38	42	73	5	22	29.12	30.06	21	CLR	NC		9.00						40	36	38	86	0	00	29.32	30.27
24	CLR	NC		10.00		42	38	40	85	3	VR	29.18	30.12	24	CLR	NC		5.00	BR					35	34	35	96	0	00	29.32	30.27

## OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

APRIL 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	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: 0519						APR 13	SUNSET: 1836						SUNRISE: 0510						APR 19	SUNSET: 1843																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
03	FEW	NC			3.00	BR	32	31	32	96	0	00	29.31	30.26	03	OVC	110		7.00	34	34	34	100	0	00	29.06	30.01	03	CLR	NC			1.25	BCFG	31	31	31	100	0	00	29.32	30.27	06	OVC	095			3.00	BR	34	34	34	100	0	00	29.06	30.01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
09	CLR	NC			10.00		50	38	44	63	0	00	29.31	30.25	09	FEW	NC		10.00	47	36	42	66	3	18	29.05	29.99	09	CLR	NC			10.00		59	32	47	36	0	00	29.27	30.22	12	OVC	070			10.00		49	31	41	50	8	27	29.04	29.98																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
12	CLR	NC			10.00		59	32	47	36	0	00	29.27	30.22	12	OVC	070		10.00	49	31	41	50	8	27	29.04	29.98	12	CLR	NC			10.00		60	33	47	36	6	13	29.20	30.14	15	BKN	055			10.00		51	32	43	48	8	23	29.02	29.97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
15	FEW	NC			10.00		60	33	47	36	6	13	29.20	30.14	15	BKN	055		10.00	51	32	43	48	8	23	29.02	29.97	15	CLR	NC			10.00		59	33	47	38	6	19	29.16	30.11	18	OVC	090			10.00		51	34	43	52	7	28	29.03	29.98																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
18	CLR	NC			10.00		46	38	42	73	0	00	29.15	30.09	21	SCT	NC		10.00	47	37	42	69	0	00	29.05	29.99	21	CLR	NC			10.00		46	38	42	71	0	00	29.15	30.09	24	FEW	NC			10.00		36	35	36	97	0	00	29.06	30.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
21	CLR	NC			10.00		42	33	38	71	0	00	29.15	30.09	24	FEW	NC		10.00	36	35	36	97	0	00	29.06	30.00	24	CLR	NC			10.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

## MADISON, WI

**APRIL 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	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
03	CLR	NC			8.00																								
06	CLR	NC			9.00																								
09	CLR	NC			10.00																								
12	CLR	NC			10.00																								
15	CLR	NC			10.00																								
18	CLR	NC			10.00																								
21	CLR	NC			10.00																								
24	CLR	NC			10.00																								
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)	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	RESULTANT WIND (MPH)																		
							STATION	SEA LEVEL			SPEED	DIRECTION																	
01			43	37	41	81	29.01	29.95	8.03	7	4	7																	
02			42	37	40	84	29.01	29.94	7.38	7	4	7																	
03			42	37	40	84	29.00	29.94	7.38	6	4	7																	
04			41	37	39	85	29.00	29.94	7.16	8	5	7																	
05			41	37	39	86	29.01	29.95	6.86	7	4	6																	
06			41	37	39	86	29.03	29.96	6.54	8	4	5																	
07			44	38	41	82	29.03	29.97	7.10	8	5	6																	
08			47	38	43	73	29.04	29.97	7.93	10	5	7																	
09			50	38	45	67	29.04	29.98	8.57	10	5	7																	
10			52	38	46	63	29.05	29.98	8.67	12	4	6																	
11			53	38	46	61	29.05	29.98	8.88	13	5	7																	
12			54	39	47	59	29.04	29.97	9.18	12	6	7																	
13			55	38	47	56	29.03	29.97	9.07	13	6	8																	
14			56	38	47	56	29.03	29.96	9.17	12	5	7																	
15			56	38	47	56	29.02	29.95	8.94	13	6	6																	
16			56	38	47	55	29.02	29.95	9.10	12	7	8																	
17			55	38	47	56	29.02	29.96	9.10	11	6	7																	
18			54	38	46	59	29.02	29.96	8.80	10	7	6																	
19			51	38	45	63	29.03	29.97	9.15	8	5	7																	
20			49	39	45	69	29.04	29.97	9.08	9	6	7																	
21			48	39	44	73	29.04	29.97	8.53	9	6	7																	
22			46	39	43	76	29.04	29.97	8.35	8	5	7																	
23			46	38	42	77	29.04	29.97	8.40	7	4	8																	
24			44	38	41	81	29.04	29.97	8.45	6	4	6																	

# SUPPLEMENTARY HOURLY PRECIPITATION

## UNIVERSAL RAIN GAUGE (WATER EQUIVALENT IN INCHES)

APRIL 1999  
MADISON, WI

LATITUDE 43° 8'N  
LONGITUDE 89° 20'

A.M. HOUR (L.S.T.) ENDING AT														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												01												01	0.00				
02						0.01			0.30	0.09		02		0.20	0.30	0.02								02	0.00				
03				0.02			0.05	0.01				03												03	0.92				
04												04								0.18				04	0.08				
05												05										0.01		05	0.19				
06												06												06	0.00				
07												07												07	0.00				
08												08					0.06	0.26	0.05	0.15	0.25	0.20	0.11	08	1.08				
09		0.11	0.20	0.25	T	0.02	0.15	0.10				09												09	0.83				
10												10												10	0.00				
11												11												11	0.00				
12												12												12	0.00				
13												13												13	0.00				
14												14												14	0.00				
15												15												15	0.00				
16												16												16	0.00				
17						0.01	0.05					17												17	0.06				
18												18												18	0.00				
19												19												19	0.00				
20												20	T	0.02	0.05	0.05	0.06	T						20	0.18				
21												21												21	0.49				
22		0.20	0.16		0.07					0.08	0.11	22	*	*	*	*	*	*	*	0.09	*	0.30	0.10	22	0.62				
23	*	*	*	*	*	*	2.05					23								*		*	*	23	2.05				
24												24												24	0.00				
25												25												25	0.00				
26												26												26	0.00				
27										T	T	27	0.05	0.05	0.03	0.05								27	0.18				
28												28												28	0.00				
29												29												29	0.00				
30												30												30	0.00				
PUBLISHED BY: NCDC, ASHEVILLE, NC.																						MONTHLY TOTAL				6.68			

### SUPPLEMENTARY MAXIMUM SHORT DURATION PRECIPITATION (MSDP)

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)												
ENDED: DATE												
ENDED: TIME												

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.



**APRIL 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](mailto:orders@ncdc.noaa.gov)  
Local Climatological Data is available at [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

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ASHEVILLE, NC 28801–5001

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