



MAY 1998

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	66	54	60	9	54	55	5	0	RA DZ BR HZ	0		0.0	0.13	28.75	29.67	8.5	36	9.0	30	01	24	01	01	
02	57	51	54	2	54	54	11	0	RA DZ BR	0		0.0	1.05	28.74	29.66	4.0	01	5.4	15	06	13	07	02	
03	54	48	51	-1	50	51	14	0	RA BR	0		0.0	0.02	28.84	29.76	8.4	36	8.7	18	01	16	01	03	
04	73	47	60	8	50	55	5	0	FG+ BR	0		0.0	0.00	28.85	29.77	1.3	19	4.9	13	16	11	16	04	
05	71	52	62	9	49	55	3	0	RA BR HZ	0		0.0	T	28.84	29.75	1.9	11	5.7	16	07	14	02	05	
06	70	46	58	5	53	56	7	0	RA FG+ BR HZ	0		0.0	0.11	28.86	29.78	2.9	12	4.2	28	14	23	14	06	
07	60	56	58	5	55	56	7	0	RA BR	0		0.0	0.75	28.73	29.65	9.4	06	10.5	22	08	17	08	07	
08	71	55	63	9	53	57	2	0		0		0.0	0.00	28.88	29.80	10.8	03	11.4	23	05	21	05	08	
09	71	48	60	6	47	52	5	0		0		0.0	0.00	29.07	30.00	8.1	05	9.2	22	08	20	05	09	
10	70	44	57	3	44	50	8	0		0		0.0	0.00	29.06	29.98	6.7	02	7.3	21	01	17	05	10	
11	74	40*	57	2	47	53	8	0		0		0.0	0.00	28.95	29.87	3.1	12	4.3	13	15	13	12	11	
12	78	52	65	10	54	58	0	0	TSRA	0		0.0	0.01	28.81	29.73	10.8	17	11.3	29	16	23	15	12	
13	75	52	64	9	52	57	1	0		0		0.0	0.00	29.01	29.93	1.8	30	3.5	14	33	10	30	13	
14	84	55	70	14	58	63	0	5		0		0.0	0.00	29.06	29.98	10.9	16	11.2	24	17	21	16	14	
15	83	65	74	18	65	68	0	9	TSRA RA BR HZ	0		0.0	0.37	28.89	29.80	12.5	17	13.0	38	27	30	17	15	
16	77	60	69	13	50	58	0	4		0		0.0	0.00	29.01	29.92	9.3	24	10.2	26	26	20	27	16	
17	85	50	68	11	52	60	0	3		0		0.0	0.00	29.16	30.08	7.3	20	7.8	21	21	17	18	17	
18	87*	62	75	18	59	66	0	10		0		0.0	0.00	29.04	29.95	7.9	20	8.7	25	22	21	20	18	
19	83	62	73	15	61	65	0	8	TSRA RA	0		0.0	0.11	29.03	29.94	3.3	29	5.7	32	33	24	32	19	
20	73	52	63	5	51	57	2	0		0		0.0	0.00	29.09	30.01	2.3	32	4.2	15	02	11	03	20	
21	73	45	59	1	48	53	6	0		0		0.0	0.00	29.09	30.01	5.6	07	7.0	20	08	16	09	21	
22	60	44	52	-7	43	48	13	0	RA	0		0.0	T	29.08	30.01	10.6	07	10.9	29	07	24	08	22	
23	68	50	59	0	42	50	6	0	TS TSRA RA	0		0.0	0.02	29.05	29.97	9.7	07	10.4	34	08	31*	08	23	
24	56	46	51*	-8	50	51	14	0	TSRA RA DZ BR	0		0.0	0.45	28.99	29.92	4.7	04	5.9	18	05	16	05	24	
25	72	44	58	-1	50	54	7	0	MIFG	0		0.0	0.00	29.05	29.98	1.9	33	3.2	14	28	10	33	25	
26	76	48	62	2	50	56	3	0	MIFG	0		0.0	0.00	29.07	29.99	2.6	17	3.3	16	18	14	16	26	
27	79	53	66	6	55	61	0	1		0		0.0	0.00	29.04	29.96	4.2	21	5.0	16	19	13	22	27	
28	86	65	76*	15	66	69	0	11	TS TSRA RA BR HZ	0		0.0	0.92	28.96	29.87	7.6	21	10.1	37	26	25	16	28	
29	81	58	70	9	60	64	0	5	RA	0		0.0	0.01	29.02	29.93	3.6	25	5.8	32	20	23	19	29	
30	81	51	66	4	61	63	0	1	TSRA BR HZ	0		0.0	T	28.90	29.81	5.0	13	8.0	37	17	26	17	30	
31	76	49	63	1	54	59	2	0	TS TSRA BR	0		0.0	0.63	28.78	29.69	7.0	31	8.5	40*	31	28	30	31	
73.2 51.7 62.5 ■■											TOTALS-->		0.0	4.58	28.96	29.88	1.1	10	7.6	<- MONTHLY AVERAGES				
4.3 7.5 6.0 ■■											<----- DEPARTURE FROM NORMAL ----->		1.44		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.06 DATE: 02-03					SEA LEVEL PRESSURE DATE TIME										
MONTHLY									GREATEST 24-HR SNOWFALL: 0.0 DATE:					MAXIMUM : 30.16 17 0817										
SEASON TO DATE									GREATEST SNOW DEPTH: 0 DATE:					MINIMUM : 29.38 31 0048										
TOTAL DEPARTURE									NUMBER OF DAYS WITH →					PRECIPITATION ≥ 0.01 INCH : 13										
HEATING: 129 -165 6526 -1079									MAXIMUM TEMP ≥ 90: 0					PRECIPITATION ≥ 0.10 INCH : 9										
COOLING: 57 27 57 27									MAXIMUM TEMP ≤ 32 : 0					SNOWFALL ≥ 1.0 INCH : 0										
									THUNDERSTORMS : 8					HEAVY FOG : 2										

MAY 1998
MADISON, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MADISON, WI

MAY 1998

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				T	T	T			0.01	0.02	0.08	0.01	01	T		T			T	0.01	0.11	0.13	0.11	0.04	01	0.61	0.13		
02	T			0.01	0.06	0.02	0.07	0.08	0.01	0.02	T	T	02		T	0.01	0.01	0.01	0.02	0.18	0.17	0.11	0.13	0.11	0.04		02	1.05	
03	0.01	T											03				T	T	T						03		0.02		
04													04												04		0.00		
05					T	T	T						05												05		T		
06													06			0.01			0.07	0.02	0.01	T			06		0.11		
07	T	T		T	T	0.08	0.08	0.05	0.03	0.04	0.09	0.09	07	0.09	0.08		0.07	0.03	0.01	T	T	0.01	T		07		0.75		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12						T	0.01	T				12		0.01		
13													13												13		0.00		
14													14												14		0.00		
15													15								T	0.37	T		15		0.37		
16													16												16		0.00		
17													17												17		0.00		
18													18		T	T									18		0.00		
19		T											19												19		0.11		
20			0.11										20		T	T									20		0.00		
21													21												21		0.00		
22													22				T	T						0.01	22		T		
23													23			0.01	T						T		23		0.02		
24	0.01	0.08	0.08	0.04	0.02	0.01	0.02	0.02	0.01	0.04	0.08	0.03	24	T		0.01	T								24		0.45		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28						T	0.81	0.01					28								T	0.07	0.03	T	28		0.92		
29	T	0.01											29												29		0.01		
30													30												30		T		
31		0.61	T										31												31		0.61	0.63	

MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

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 1: NCDC derives these data from one-minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: 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
MAY 1998**

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 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.

ADDITIONAL NOTES AND CORRECTIONS:
Sunrise and sunset times listed in the March and April 1998 LCD were incorrect and should not be used.

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OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

MAY 1998

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: 0451		MAY 01	SUNSET: 1857										SUNRISE: 0443		MAY 07	SUNSET: 1904										
03	OVC	008		2.50	BR	55	54	54	96	6	31	28.80	29.71	03	OVC	034		2.50	BR	57	53	55	87	9	06	28.75	29.67		
06	OVC	065		1.25	BR	55	55	55	100	7	34	28.78	29.70	06	OVC	011		1.50	-RA BR	57	54	55	90	14	08	28.74	29.65		
09	BKN	049		6.00	-RA BR	59	55	57	87	12	01	28.75	29.67	09	OVC	009		2.50	-RA BR	57	56	56	96	15	08	28.73	29.65		
12	OVC	033		2.00	DZ BR	58	57	57	97	8	34	28.75	29.67	12	OVC	013		1.50	-RA BR	57	56	56	96	16	08	28.72	29.64		
15	BKN	024		3.00	HZ	62	56	59	81	10	36	28.72	29.64	15	OVC	034		2.00	BR	60	57	58	90	13	06	28.70	29.61		
18	OVC	075		10.00		58	51	54	78	18	01	28.72	29.64	18	OVC	055		1.50	BR	59	57	58	93	0	00	28.72	29.64		
21	OVC	070		8.00		54	53	53	97	8	03	28.72	29.64	21	OVC	075		10.00		58	55	56	90	8	02	28.74	29.65		
24	OVC	008		5.00	DZ BR	54	53	53	97	8	01	28.72	29.64	24	BKN	120		10.00		57	53	55	87	9	36	28.75	29.67		
			SUNRISE: 0450		MAY 02	SUNSET: 1859										SUNRISE: 0442		MAY 08	SUNSET: 1905										
03	OVC	006		5.00	BR	53	53	53	100	6	34	28.70	29.62	03	OVC	090		7.00		56	52	54	87	7	01	28.76	29.68		
06	OVC	006		1.25	-RA BR	53	53	53	100	5	34	28.73	29.65	06	SCT	NC		10.00		57	51	54	81	12	02	28.82	29.74		
09	OVC	008		3.00	-RA BR	55	54	54	96	3	31	28.74	29.66	09	CLR	NC		10.00		64	53	58	68	10	03	28.86	29.77		
12	OVC	018		9.00		57	55	56	93	5	01	28.74	29.66	12	CLR	NC		10.00		69	54	60	59	16	03	28.88	29.80		
15	OVC	028		1.25	BR	56	55	55	97	0	00	28.73	29.65	15	CLR	NC		10.00		70	55	61	59	17	04	28.91	29.82		
18	OVC	017		1.50	-RA BR	55	55	55	100	3	32	28.73	29.65	18	CLR	NC		10.00		65	55	59	70	12	04	28.93	29.85		
21	OVC	023		2.50	RA BR	53	53	53	100	10	09	28.77	29.69	21	CLR	NC		10.00		60	50	55	70	15	06	28.99	29.91		
24	OVC	080		9.00		51	50	51	96	7	02	28.77	29.70	24	OVC	095		10.00		56	49	52	77	8	02	29.03	29.96		
			SUNRISE: 0448		MAY 03	SUNSET: 1860										SUNRISE: 0441		MAY 09	SUNSET: 1906										
03	OVC	008		7.00		50	49	49	96	13	01	28.77	29.69	03	BKN	120		10.00		50	45	47	83	6	03	29.05	29.98		
06	OVC	009		9.00		49	47	48	93	12	01	28.80	29.72	06	FEW	NC		10.00		49	44	47	83	7	01	29.08	30.01		
09	OVC	005		6.00	BR	50	49	49	96	13	02	28.82	29.75	09	SCT	NC		10.00		61	49	54	65	10	07	29.11	30.03		
12	OVC	007		6.00	BR	53	50	51	89	10	02	28.85	29.77	12	CLR	NC		10.00		69	51	59	53	12	06	29.09	30.01		
15	OVC	007		5.00	BR	54	52	53	93	9	35	28.86	29.78	15	FEW	NC		10.00		70	49	58	47	16	08	29.05	29.98		
18	OVC	009		6.00	BR	54	52	53	93	5	36	28.86	29.79	18	CLR	NC		10.00		64	46	54	52	10	08	29.05	29.98		
21	OVC	080		4.00	BR	52	52	52	100	6	34	28.89	29.81	21	CLR	NC		10.00		53	43	48	69	7	03	29.08	30.01		
24	BKN	090		4.00	BR	52	52	52	100	6	33	28.88	29.81	24	CLR	NC		10.00		48	38	43	68	7	35	29.07	30.00		
			SUNRISE: 0447		MAY 04	SUNSET: 1901										SUNRISE: 0440		MAY 10	SUNSET: 1908										
03	SCT	NC		0.75	BR	49	49	49	100	3	31	28.88	29.80	03	CLR	NC		10.00		46	39	43	77	5	36	29.06	29.99		
06	OVC	001		0.25	FG	48	48	48	100	6	33	28.90	29.83	06	CLR	NC		10.00		46	41	44	83	5	35	29.09	30.03		
09	CLR	NC		10.00		61	50	55	67	5	VR	28.89	29.81	09	CLR	NC		10.00		59	45	52	60	8	04	29.10	30.03		
12	CLR	NC		10.00		69	51	59	53	6	VR	28.87	29.78	12	CLR	NC		10.00		66	46	55	49	14	03	29.07	30.00		
15	FEW	NC		10.00		72	50	59	46	8	17	28.83	29.74	15	CLR	NC		10.00		69	42	55	38	8	08	29.03	29.96		
18	FEW	NC		10.00		71	50	59	47	6	20	28.79	29.70	18	CLR	NC		10.00		65	45	54	49	8	04	29.02	29.95		
21	CLR	NC		10.00		63	52	57	68	5	21	28.82	29.73	21	CLR	NC		10.00		54	49	51	83	0	00	29.03	29.96		
24	BKN	100		10.00		59	51	55	75	9	17	28.79	29.70	24	CLR	NC		10.00		48	47	47	96	0	00	29.00	29.93		
			SUNRISE: 0446		MAY 05	SUNSET: 1902										SUNRISE: 0438		MAY 11	SUNSET: 1909										
03	CLR	NC		8.00		58	51	54	78	5	20	28.78	29.69	03	CLR	NC		8.00		46	45	46	96	0	00	29.00	29.93		
06	CLR	NC		6.00	-RA	59	52	55	78	6	21	28.82	29.73	06	CLR	NC		10.00		45	44	45	97	0	00	29.00	29.93		
09	SCT	NC		10.00		61	50	55	67	10	03	28.85	29.77	09	CLR	NC		10.00		63	45	53	52	8	03	28.99	29.91		
12	CLR	NC		10.00		68	45	56	44	10	06	28.87	29.78	12	FEW	NC		10.00		71	47	58	42	5	10	28.96	29.88		
15	CLR	NC		10.00		70	46	57	42	7	06	28.85	29.76	15	SCT	NC		10.00		72	48	59	43	0	00	28.91	29.83		
18	CLR	NC		10.00		69	45	56	42	3	14	28.84	29.75	18	SCT	NC		10.00		70	50	59	49	9	12	28.88	29.80		
21	CLR	NC		10.00		59	51	55	75	5	14	28.88	29.79	21	CLR	NC		10.00		62	50	55	65	9	14	28.89	29.81		
24	CLR	NC		4.00	BR	52	52	52	100	0	00	28.88	29.80	24	CLR	NC		10.00		56	47	51	72	5	13	28.89	29.80		
			SUNRISE: 0445		MAY 06	SUNSET: 1903										SUNRISE: 0437		MAY 12	SUNSET: 1910										
03	SCT	NC		0.75	BR	49	49	49	100	0	00	28.86	29.78	03	CLR	NC		10.00		54	46	50	75	8	18	28.87	29.78		
06	VV	001		<.25	FG	51	51	51	100	0	00	28.90	29.82	06	FEW	NC		10.00		56	47	51	72	10	16	28.85	29.77		
09	BKN	008		1.50	BR	58	53	55	84	0	00	28.89	29.81	09	BKN	095		10.00		65	52	58	63	14	14	28.81	29.72		
12	BKN	080		8.00		68	49	57	51	7	10	28.88	29.80	12	CLR	NC		10.00		70	55	61	59	15	17	28.80	29.72		
15	FEW	NC		9.00		69	56	61	63	6	13	28.84	29.75	15	FEW	NC		10.00		76	57	64	52	17	17	28.76	29.67		
18	OVC	055		9.00	+RA																								

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

MAY 1998

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		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
					SUNRISE: 0436 MAY 13			SUNSET: 1911										SUNRISE: 0430 MAY 19			SUNSET: 1917							
03	CLR	NC			10.00		55	53	54	93	0	00	28.91	29.82	03	BKN	035			10.00	64	62	63	93	3	25	28.99	29.90
06	CLR	NC			10.00		54	48	51	80	6	VR	28.98	29.89	06	FEW	NC			10.00	64	60	62	87	7	22	29.00	29.91
09	CLR	NC			10.00		61	50	55	67	8	30	29.01	29.93	09	CLR	NC			10.00	76	63	68	64	3	VR	29.05	29.96
12	CLR	NC			10.00		68	52	59	57	3	VR	29.03	29.95	12	CLR	NC			10.00	81	65	70	58	7	30	29.06	29.98
15	FEW	NC			10.00		73	53	61	50	5	VR	29.04	29.96	15	FEW	NC			10.00	81	56	66	42	7	VR	29.03	29.95
18	CLR	NC			10.00		72	51	60	48	3	VR	29.05	29.98	18	CLR	NC			10.00	81	65	70	58	3	27	29.00	29.91
21	CLR	NC			10.00		60	54	57	80	0	00	29.08	30.00	21	CLR	NC			10.00	72	52	60	50	5	32	29.05	29.96
24	CLR	NC			10.00		59	52	55	78	0	00	29.08	30.00	24	CLR	NC			10.00	65	46	55	51	5	32	29.05	29.96
					SUNRISE: 0435 MAY 14			SUNSET: 1912										SUNRISE: 0429 MAY 20			SUNSET: 1918							
03	CLR	NC			10.00		57	52	54	83	6	17	29.11	30.03	03	CLR	NC			10.00	58	52	55	81	0	00	29.08	29.99
06	CLR	NC			10.00		59	52	55	78	8	17	29.12	30.04	06	CLR	NC			10.00	61	51	56	70	6	34	29.11	30.03
09	SCT	NC			10.00		70	55	61	59	12	18	29.11	30.03	09	CLR	NC			10.00	69	52	59	55	3	VR	29.13	30.05
12	CLR	NC			10.00		79	62	68	56	14	14	29.07	29.99	12	OVC	120			10.00	69	53	60	57	3	26	29.11	30.03
15	CLR	NC			10.00		83	65	71	55	16	15	29.03	29.95	15	SCT	NC			10.00	70	55	61	59	6	25	29.08	30.00
18	CLR	NC			10.00		80	64	70	58	14	13	29.00	29.91	18	CLR	NC			10.00	71	49	59	46	5	VR	29.05	29.98
21	CLR	NC			10.00		74	60	65	62	12	15	29.01	29.93	21	CLR	NC			10.00	57	50	53	78	0	00	29.08	30.01
24	CLR	NC			10.00		69	60	64	73	8	17	29.01	29.92	24	CLR	NC			10.00	52	50	51	93	0	00	29.09	30.02
					SUNRISE: 0434 MAY 15			SUNSET: 1913										SUNRISE: 0428 MAY 21			SUNSET: 1919							
03	CLR	NC			10.00		67	61	63	81	7	18	28.99	29.91	03	CLR	NC			10.00	49	46	47	90	0	00	29.08	30.01
06	CLR	NC			6.00 HZ		67	62	64	84	3	16	29.00	29.91	06	CLR	NC			10.00	56	51	53	84	0	00	29.09	30.01
09	CLR	NC			5.00 HZ		75	66	69	74	14	15	28.99	29.89	09	CLR	NC			10.00	65	52	58	63	7	36	29.12	30.05
12	BKN	036			3.00 HZ		80	69	73	69	16	17	28.95	29.86	12	CLR	NC			10.00	69	53	60	57	3	VR	29.09	30.01
15	FEW	NC			4.00 HZ		83	67	72	59	18	15	28.82	29.72	15	FEW	NC			10.00	71	52	60	51	12	08	29.03	29.96
18	FEW	NC			2.50 HZ		81	68	72	65	25	17	28.75	29.66	18	CLR	NC			10.00	63	44	53	50	15	09	29.05	29.98
21	OVC	055			8.00 TSRA		68	62	64	81	9	20	28.79	29.70	21	CLR	NC			10.00	54	43	48	67	9	10	29.10	30.03
24	CLR	NC			10.00		69	55	61	61	13	22	28.80	29.70	24	CLR	NC			10.00	46	40	43	79	7	09	29.12	30.05
					SUNRISE: 0433 MAY 16			SUNSET: 1914										SUNRISE: 0427 MAY 22			SUNSET: 1920							
03	FEW	NC			10.00		63	56	59	78	15	22	28.84	29.74	03	CLR	NC			10.00	46	38	42	73	8	06	29.10	30.03
06	CLR	NC			10.00		61	53	57	75	9	23	28.93	29.84	06	BKN	110			10.00	48	41	45	77	13	07	29.11	30.04
09	CLR	NC			10.00		68	55	60	63	13	24	28.99	29.91	09	SCT	NC			10.00	54	45	49	72	14	08	29.08	30.01
12	FEW	NC			10.00		75	50	61	42	14	28	29.03	29.94	12	SCT	NC			10.00	59	45	52	60	10	08	29.09	30.02
15	CLR	NC			10.00		77	48	60	36	10	23	29.04	29.95	15	OVC	070			10.00	58	45	51	62	15	09	29.08	30.01
18	CLR	NC			10.00		76	43	58	31	10	25	29.05	29.97	18	OVC	110			10.00	58	44	51	60	10	07	29.05	29.98
21	CLR	NC			10.00		67	44	55	44	6	22	29.12	30.04	21	OVC	075			10.00	55	43	49	64	10	07	29.06	30.00
24	CLR	NC			10.00		61	46	53	58	0	00	29.16	30.08	24	OVC	080			10.00	52	41	47	66	7	06	29.04	29.98
					SUNRISE: 0432 MAY 17			SUNSET: 1915										SUNRISE: 0427 MAY 23			SUNSET: 1921							
03	CLR	NC			10.00		53	46	49	77	0	00	29.21	30.13	03	OVC	070			10.00	52	44	48	75	7	06	29.04	29.98
06	CLR	NC			10.00		59	49	54	69	3	19	29.23	30.15	06	BKN	075			10.00	52	43	48	72	9	07	29.08	30.01
09	CLR	NC			10.00		74	52	61	46	8	18	29.23	30.15	09	CLR	NC			10.00	62	41	51	46	18	07	29.09	30.02
12	CLR	NC			10.00		81	51	63	35	10	21	29.19	30.10	12	CLR	NC			10.00	66	40	53	39	15	07	29.06	29.98
15	CLR	NC			10.00		84	53	65	35	12	22	29.13	30.05	15	SCT	NC			10.00	68	40	54	36	15	09	29.06	29.98
18	CLR	NC			10.00		82	54	65	38	10	18	29.07	29.99	18	FEW	NC			10.00	63	37	50	38	12	10	29.00	29.93
21	CLR	NC			10.00		74	55	63	52	7	18	29.10	30.01	21	OVC	110			10.00	57	41	49	55	8	07	29.01	29.93
24	FEW	NC			10.00		71	53	61	53	8	19	29.10	30.01	24	OVC	055			10.00	55	43	49	64	5	13	28.99	29.91
					SUNRISE: 0431 MAY 18			SUNSET: 1916										SUNRISE: 0426 MAY 24			SUNSET: 1922							
03	CLR	NC			10.00		67	54	59	63	5	19	29.11	30.02	03	OVC	090			8.00 -RA	51	47	49	86	6	07	28.92	29.84
06	CLR	NC			10.00		66	53	59	63	9	18	29.11	30.02	06	OVC	034			7.00 -RA	53	51	52	93	6	10	28.93	29.85
09	CLR	NC			10.00		76	58	65	54	9	21	29.07	29.99	09	OVC	013			2.50 -RA BR	54	52	53	93	8	03	28.96	29.88
12	FEW	NC			10.00		84	64	71	51	16	20	29.02	29.93	12	OVC	016			1.75 BR	54	53	53	97	10	05	28.99	29.91
15	FEW	NC			10.00		86	62	70	45	12	23	28.99	29.90	15	OVC	016			2.00 DZ BR	52	51	52	97	9	0		

MADISON, WI

MAY 1998

MSN

WBAN # 14837

Hour (LST)				SATELLITE		Weather	Temperature ° F				Wind		Pressure (Inches,Hg)		Hour (LST)				SATELLITE		Weather	Temperature ° F				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	Relative Humidity (Pct)	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	Relative Humidity (Pct)	Speed (Mph)	Direction Tens of Deg	Station	Sea Level
03	FEW	NC				SUNRISE: 0425	MAY 25				SUNSET: 1923				03	CLR	NC				SUNRISE: 0421	MAY 31				SUNSET: 1928					
06	SCT	NC													06	CLR	NC														
09	FEW	NC													09	BKN	030														
12	FEW	NC													12	FEW	NC														
15	SCT	NC													15	SCT	NC														
18	FEW	NC													18	FEW	NC														
21	CLR	NC													21	CLR	NC														
24	CLR	NC													24	CLR	NC														
03	CLR	NC													3—HOURLY OBSERVATION NOTES																
06	CLR	NC													Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8–2/8,																
09	CLR	NC													SCT = 3/8–4/8, BKN = 5/8–7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.																
12	FEW	NC													Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																
15	SCT	NC													NC= No ceiling detected.																
18	FEW	NC													& = Original observation contained additional weather elements.																
21	CLR	NC													See page 3 for additional notes.																
24	FEW	NC																													
03	FEW	NC													SUMMARY BY HOUR																
06	BKN	095													AVERAGES																
09	CLR	NC													RESULTANT																
12	FEW	NC													WIND																
15	SCT	NC													(MPH)																
18	CLR	NC													PRESSURE																
21	CLR	NC													(INCHES,HG)																
24	CLR	NC													VISIBILITY																
															(MILES)																
															WIND SPEED																
															(MPH)																
															SPEED																
															DIRECTION																
															(MPH)																
03	CLR	NC													WIND																
06	BKN	090													(MPH)																
09	OVC	023													SPEED																
12	SCT	NC													DIRECTION																
15	BKN	044													(MPH)																
18	FEW	NC													SPEED																
21	OVC	075													DIRECTION																
24	BKN	100													(MPH)																
03	CLR	NC													WIND																
06	CLR	NC													(MPH)																
09	CLR	NC													SPEED																
12	CLR	NC													DIRECTION																
15	FEW	NC													(MPH)																
18	CLR	NC													SPEED																
21	CLR	NC													DIRECTION																
24	CLR	NC													(MPH)																
03	CLR	NC													WIND																
06	FEW	NC													(MPH)																
09	CLR	NC													SPEED																
12	BKN	120													DIRECTION																
15	BKN	060													(MPH)																
18	CLR	NC													SPEED																
21	BKN	085													DIRECTION																
24	SCT	NC													(MPH)																

SUPPLEMENTARY HOURLY PRECIPITATION

UNIVERSAL RAIN GAUGE (WATER EQUIVALENT IN INCHES)

MAY 1998
MADISON, WI

LATITUDE 43° 8'N
LONGITUDE -89° 20'W

DATE	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													01												01	0.11		
02					0.06	0.02	0.10	0.05		0.03	0.07	0.01	02						0.25	0.22	0.13	0.10	0.12	0.01	02	1.06		
03													03												03	0.00		
04													04												04	0.00		
05													05												05	0.00		
06													06					0.06	0.02						06	0.08		
07						0.10	0.07	0.04	0.03	0.03	0.10	0.10	07	0.15	T	0.05	0.02	0.05	T						07	0.74		
08													08												08	0.00		
09													09												09	0.00		
10													10												10	0.00		
11													11												11	0.00		
12													12						T	0.03					12	0.03		
13													13												13	0.00		
14													14												14	0.00		
15													15									0.37	T		15	0.37		
16													16												16	0.00		
17													17												17	0.00		
18													18												18	0.00		
19		T	0.10										19												19	0.10		
20													20												20	0.00		
21													21												21	0.00		
22													22												22	0.00		
23													23			0.01	T								23	0.01		
24	T	0.07	0.07	0.02	0.01	T	0.04	T	0.01	0.03	0.08	0.02	24	T											24	0.35		
25													25												25	0.00		
26													26												26	0.00		
27													27												27	0.00		
28							0.80	0.01					28								0.05	0.03			28	0.89		
29													29												29	0.00		
30													30												30	0.00		
31	0.55	T											31												31	0.55		
PUBLISHED BY: NCDC, ASHEVILLE, NC.														MONTHLY TOTAL														4.29

SUPPLEMENTARY MAXIMUM SHORT DURATION PRECIPITATION (MSDP)

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)			0.28	0.30	0.53	0.75	0.80	0.80	0.80	0.81	0.81	0.81
ENDED: DATE			28	28	28	28	28	28	28	28	28	28
ENDED: TIME			0615	0620	0630	0650	0700	0700	0700	0800	0800	0800

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 1998
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
704–271–4800 (voice), 704–271–4876 (fax),
704–271–4010(TDD)
or orders@ncdc.noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

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