



AUGUST 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	93*	65	79*	7	70	74	0	14	BCFG BR TSRA RA BR FG+ BCFG BR HZ	0		0.0	0.00	28.96	29.86	5.8	23	9.5	24	19	21	19	01		
02	81	56	69	-3	56	61	0	4		0		0.0	0.00	29.20	30.11	3.7	34	5.1	16	32	13	31	02		
03	85	54	70	-2	60	65	0	5		0		0.0	0.00	29.21	30.13	4.9	15	5.6	16	15	14	16	03		
04	81	67	74	2	69	70	0	9		0		0.0	0.61	29.18	30.10	1.0	30	3.6	32	29	24	30	04		
05	82	59	71	-1	65	67	0	6		0		0.0	0.00	29.24	30.16	7.0	05	7.6	24	05	21	05	05		
06	73	52	63	-8	52	57	2	0	MIFG	0		0.0	0.00	29.37	30.30	9.4	06	9.9	21	06	17	07	06		
07	77	49	63*	-8	54	58	2	0		0		0.0	0.00	29.37	30.30	1.7	06	3.2	15	13	12	20	07		
08	80	53	67	-4	56	60	0	2		0		0.0	0.00	29.34	30.27	1.2	07	2.7	13	06	9	08	08		
09	83	56	70	-1	56	62	0	5		0		0.0	0.00	29.24	30.16	2.8	19	3.9	16	16	14	16	09		
10	85	56	71	1	61	66	0	6		0		0.0	0.00	29.08	29.99	4.7	21	6.2	18	25	14	22	10		
11	92	61	77	7	65	68	0	12	TS TSRA RA BCFG BR	0		0.0	T	29.05	29.96	3.1	21	4.6	28	23	18	25	11		
12	86	67	77	8	68	71	0	12	TSRA RA BR HZ	0		0.0	0.36	28.99	29.89	6.3	20	7.6	22	18	18	18	12		
13	77	63	70	1	65	66	0	5	TS TSRA RA DZ BR HZ	0		0.0	0.34	28.94	29.85	2.4	27	6.7	20	17	16	17	13		
14	77	60	69	0	57	61	0	4	DZ BR	0		0.0	T	28.94	29.85	4.5	21	5.8	16	23	13	19	14		
15	83	62	73	4	61	66	0	8	RA	0		0.0	T	28.94	29.85	10.3	20	11.5	33*	18	24*	18	15		
16	82	61	72	3	58	64	0	7	TSRA RA BR RA RA BR	0		0.0	0.00	29.08	29.99	2.9	21	5.0	21	17	16	17	16		
17	80	57	69	0	61	65	0	4		0		0.0	0.62	28.92	29.83	7.0	21	9.5	30	20	23	18	17		
18	77	50	64	-5	50	56	1	0		0		0.0	0.01	29.03	29.95	1.8	28	3.5	15	22	10	30	18		
19	76	52	64	-5	54	58	1	0		0		0.0	0.03	29.06	29.98	5.0	34	5.5	20	35	15	36	19		
20	78	49*	64	-5	54	59	1	0		0		0.0	0.00	29.20	30.12	5.7	14	6.1	22	12	18	12	20		
21	87	62	75	7	67	69	0	10	TS TSRA RA BR	0		0.0	0.59	29.05	29.96	9.8	18	11.0	30	26	21	27	21		
22	73	66	70	2	68	69	0	5	TS TSRA RA DZ BR	0		0.0	0.48	29.09	30.00	3.2	10	6.9	17	08	15	08	22		
23	75	65	70	2	66	67	0	5	DZ BR HZ	0		0.0	T	29.05	29.97	1.7	04	3.3	13	06	12	07	23		
24	81	66	74	7	65	67	0	9	BR	0		0.0	0.00	29.05	29.96	3.8	33	4.5	15	31	13	31	24		
25	81	58	70	3	63	65	0	5	FG BCFG BR	0		0.0	0.00	29.10	30.02	3.0	36	3.3	13	01	9	02	25		
26	82	56	69	2	60	63	0	4	FG+ BR HZ	0		0.0	0.00	29.14	30.06	2.2	08	2.7	14	09	10	10	26		
27	83	58	71	4	63	65	0	6	BR	0		0.0	0.00	29.27	30.19	5.3	05	6.1	18	06	15	07	27		
28	80	55	68	1	59	62	0	3	FG+ BR	0		0.0	0.00	29.32	30.24	4.2	09	5.1	15	09	13	09	28		
29	79	51	65	-1	56	59	0	0	BCFG BR	0		0.0	0.00	29.28	30.20	1.0	05	2.5	13	11	10	06	29		
30	81	51	66	0	58	62	0	1	BCFG BR	0		0.0	0.00	29.34	30.26	3.2	10	3.9	13	13	10	12	30		
31	82	58	70	5	59	64	0	5	FG BCFG BR HZ	0		0.0	0.00	29.34	30.27	3.1	14	4.2	16	12	13	11	31		
81.0 57.9 69.5 ■■										< MONTHLY AVERAGES TOTALS->		0.0 3.04		29.14 30.06		1.0 15 5.7		<- MONTHLY AVERAGES							
1.6 -.8 0.4 ■■										<-----DEPARTURE FROM NORMAL----->		-1.29		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.07 DATE: 21-22				SEA LEVEL PRESSURE DATE TIME												
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM : 30.34 06 0953												
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE:				MINIMUM : 29.72 17 0753												
HEATING: 7 -26 8 -37									NUMBER OF DAYS WITH ➔		MAXIMUM TEMP ≥ 90: 2		MINIMUM TEMP ≤ 32 : 0		PRECIPITATION ≥ 0.01 INCH : 8										
COOLING: 156 2 661 131											MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 6										
											THUNDERSTORMS : 7		HEAVY FOG : 3		SNOWFALL ≥ 1.0 INCH : 0										

AUGUST 2002
MADISON, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MADISON, WI

AUGUST 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													01												01			0.00
02													02												02			0.00
03													03												03			0.00
04		0.16	0.22	0.05	0.02	0.09	T	T	0.03	0.04	T		04					T							04			0.61
05													05												05			0.00
06													06												06			0.00
07													07												07			0.00
08													08												08			0.00
09													09												09			0.00
10													10												10			0.00
11													11					T							11			T
12													12		0.01	0.12		T	T	0.02		0.01	0.11	0.09	T	12		0.36
13			0.03	0.05	0.10	0.12	0.04						13				T	T	T						13			0.34
14	T												14											T	14			T
15													15							T	T	T			15			T
16													16												16			0.00
17					T	T	0.62						17												17			0.62
18													18											T	18			0.01
19	0.03				T	T							19											T	19			0.03
20													20												20			0.00
21													21						0.28	0.15	0.10	0.06	T		21			0.59
22		T	T	0.05	0.06	0.17	0.05	0.02	0.04	0.01	0.01	0.03	22	0.03	0.01				T						22			0.48
23													23						T						23			T
24													24												24			0.00
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													31												31			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
AUGUST 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							8.00	10.00	
02							10.00	10.00	
03							4.00	10.00	
04							1.50	10.00	
05							.25	10.00	
06							10.00	10.00	
07							9.00	10.00	
08							3.00	10.00	
09							9.00	10.00	
10							8.00	10.00	
11							1.50	10.00	
12							3.00	10.00	
13							2.50	10.00	
14							2.00	10.00	
15							10.00	10.00	
16							9.00	10.00	
17							.75	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							6.00	10.00	
21							1.00	10.00	
22							1.00	10.00	
23							1.25	9.00	
24							3.00	10.00	
25							.50	10.00	
26							.00	10.00	
27							4.00	10.00	
28							.25	10.00	
29							3.00	10.00	
30							4.00	10.00	
31							.50	10.00	
MONTHLY AVGS							4.61	9.97	
<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">3 16 11</p>									

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

AUGUST 2002

MSN

WBAN # 14837

HOUR (LST)				SATELLITE		WEATHER	TEMPERATURE °F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)				SATELLITE		WEATHER	TEMPERATURE °F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING	100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING	100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
					SUNRISE: 0448	AUG 01			SUNSET: 1920										SUNRISE: 0454	AUG 07											
03	CLR	NC			10.00		74	71	72	91	6	20	28.97	29.87	03	CLR	NC			10.00		49	48	48	97	3	32	29.38	30.31		
06	FEW	NC			9.00		77	71	73	82	8	20	28.97	29.86	06	CLR	NC			10.00		53	51	52	93	0	00	29.39	30.32		
09	FEW	NC			10.00		83	73	76	72	7	VR	28.95	29.85	09	FEW	NC			10.00		68	57	62	68	3	09	29.39	30.33		
12	FEW	NC			10.00		92	74	79	56	17	20	28.89	29.79	12	SCT	NC			10.00		74	53	62	48	0	00	29.38	30.31		
15	BKN	060			10.00		88	75	79	66	9	23	28.90	29.80	15	FEW	NC			10.00		76	55	63	48	5	11	29.35	30.27		
18	SCT	NC			10.00		85	76	78	75	8	29	28.94	29.84	18	FEW	NC			10.00		74	55	63	52	6	04	29.33	30.25		
21	CLR	NC			10.00		76	67	70	74	8	32	29.01	29.92	21	CLR	NC			10.00		65	57	60	76	9	10	29.35	30.27		
24	CLR	NC			10.00		66	54	59	65	6	35	29.09	30.00	24	CLR	NC			10.00		57	55	56	93	0	00	29.36	30.28		
					SUNRISE: 0449	AUG 02			SUNSET: 1919										SUNRISE: 0455	AUG 08											
03	CLR	NC			10.00		60	54	57	80	7	33	29.15	30.06	03	CLR	NC			7.00		54	53	53	97	0	00	29.37	30.29		
06	SCT	NC			10.00		60	55	57	84	6	34	29.20	30.11	06	CLR	NC			4.00	MIFG	55	54	54	96	0	00	29.38	30.32		
09	CLR	NC			10.00		72	57	63	60	7	34	29.21	30.13	09	FEW	NC			10.00		71	55	62	57	0	00	29.39	30.32		
12	CLR	NC			10.00		76	58	65	54	7	VR	29.22	30.13	12	FEW	NC			10.00		76	55	63	48	5	31	29.37	30.29		
15	CLR	NC			10.00		80	56	65	44	8	34	29.19	30.10	15	CLR	NC			10.00		79	55	64	44	5	04	29.33	30.25		
18	CLR	NC			10.00		77	56	64	48	5	34	29.18	30.10	18	CLR	NC			10.00		76	56	64	50	6	06	29.29	30.22		
21	CLR	NC			10.00		63	57	60	81	0	00	29.22	30.14	21	CLR	NC			10.00		62	57	59	84	0	00	29.30	30.22		
24	CLR	NC			10.00		62	58	60	86	3	15	29.24	30.16	24	CLR	NC			10.00		65	57	60	76	6	17	29.30	30.22		
					SUNRISE: 0450	AUG 03			SUNSET: 1918										SUNRISE: 0456	AUG 09											
03	CLR	NC			10.00		56	55	55	97	0	00	29.24	30.16	03	CLR	NC			10.00		62	55	58	78	6	17	29.28	30.20		
06	CLR	NC			4.00	BR BCFG	57	56	56	96	0	00	29.27	30.19	06	CLR	NC			9.00		58	55	56	90	0	00	29.34	30.26		
09	CLR	NC			10.00		74	58	64	57	8	18	29.29	30.22	09	CLR	NC			10.00		72	59	64	64	3	VR	29.31	30.23		
12	CLR	NC			10.00		81	61	68	51	10	15	29.24	30.16	12	CLR	NC			10.00		79	56	65	45	7	VR	29.26	30.17		
15	CLR	NC			10.00		84	61	69	46	10	17	29.20	30.11	15	CLR	NC			10.00		82	49	63	32	8	17	29.20	30.11		
18	CLR	NC			10.00		83	61	69	48	10	13	29.14	30.06	18	CLR	NC			10.00		80	55	65	42	10	18	29.17	30.09		
21	CLR	NC			10.00		74	63	67	69	5	12	29.15	30.06	21	CLR	NC			10.00		64	58	60	81	0	00	29.17	30.09		
24	CLR	NC			10.00		75	64	68	69	7	16	29.12	30.03	24	CLR	NC			10.00		60	58	59	93	0	00	29.16	30.08		
					SUNRISE: 0451	AUG 04			SUNSET: 1916										SUNRISE: 0457	AUG 10											
03	OVC	039			5.00	-TSRA BR	68	67	67	96	0	00	29.14	30.05	03	CLR	NC			10.00		61	56	58	84	5	16	29.13	30.05		
06	SCT	NC			10.00		70	69	69	97	3	VR	29.20	30.11	06	CLR	NC			10.00		63	58	60	84	3	VR	29.12	30.03		
09	BKN	080			9.00	-RA	72	69	70	91	3	VR	29.21	30.13	09	CLR	NC			10.00		76	61	67	60	12	22	29.10	30.02		
12	SCT	NC			10.00		76	69	71	79	3	29	29.19	30.10	12	FEW	NC			10.00		84	62	70	48	6	VR	29.06	29.98		
15	FEW	NC			10.00		81	67	72	62	0	00	29.18	30.10	15	BKN	060			10.00		84	62	70	48	9	22	29.03	29.95		
18	OVC	065			10.00		74	70	71	88	5	36	29.19	30.10	18	FEW	NC			10.00		82	63	70	53	8	22	29.02	29.93		
21	SCT	NC			8.00		70	69	69	97	0	00	29.19	30.11	21	CLR	NC			10.00		77	64	69	64	6	22	29.04	29.96		
24	CLR	NC			7.00		68	67	67	96	0	00	29.19	30.11	24	FEW	NC			8.00		70	65	67	84	5	23	29.06	29.97		
					SUNRISE: 0452	AUG 05			SUNSET: 1915										SUNRISE: 0459	AUG 11											
03	SCT	NC			2.00	BR BCFG	66	66	66	100	0	00	29.18	30.09	03	CLR	NC			4.00	BR	65	63	64	93	0	00	29.05	29.96		
06	VV	001			0.25	FG	69	68	68	96	0	00	29.20	30.11	06	CLR	NC			2.50	BR BCFG	63	62	62	97	0	00	29.07	29.98		
09	OVC	005			3.00	BR	74	72	73	94	6	05	29.23	30.14	09	CLR	NC			10.00		80	67	71	64	8	22	29.09	30.00		
12	BKN	046			7.00		80	72	74	76	9	01	29.21	30.13	12	FEW	NC			10.00		88	60	70	39	7	24	29.07	29.98		
15	BKN	045			10.00		79	71	74	77	13	03	29.21	30.12	15	SCT	NC			10.00		89	62	71	41	10	19	29.03	29.94		
18	BKN	042			10.00		73	59	64	62	12	08	29.26	30.18	18	SCT	NC			10.00		76	66	69	72	5	20	29.00	29.91		
21	CLR	NC			10.00		64	56	59	75	10	07	29.32	30.24	21	CLR	NC			10.00		70	66	67	87	0	00	29.02	29.93		
24	CLR	NC			10.00		59	53	56	81	13	05	29.36	30.27	24	CLR	NC			6.00	BR	72	68	69	87	7	05	29.02	29.93		
					SUNRISE: 0453	AUG 06			SUNSET: 1914										SUNRISE: 0460	AUG 12											
03	CLR	NC			10.00		55	50	52	83	10	03	29.37	30.29	03	CLR	NC			5.00	BR	73	70	71	90	7	18	28.99	29.89		
06	CLR	NC			10.00		56	51	53	84	9	04	29.38	30.31	06	CLR	NC			3.00	BR	72	68	69	87	7	19	28.99	29.90		
09	FEW	NC			10.00		67	53	59	61	16	07	29.40	30.33	09	SCT	NC			7.00		77	68	71	74	8	23	29.00	29.91		
12	SCT	NC																													

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

AUGUST 2002

MSN

WBAN # 14837

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0501 AUG 13 SUNSET: 1904						SUNRISE: 0507 AUG 19 SUNSET: 1855																							
03	OVC	049			6.00	-RA BR	66	64	65	93	0	00	28.99	29.90	03	OVC	048			10.00	59	55	57	87	7	36	28.97	29.88	
06	OVC	028			2.50	+RA BR	67	66	66	97	5	22	28.98	29.89	06	FEW	NC			10.00	59	55	57	87	3	34	28.99	29.91	
09	BKN	011			8.00		73	68	70	84	12	19	28.96	29.86	09	CLR	NC			10.00	67	55	60	66	8	36	29.07	29.99	
12	BKN	075			10.00		77	68	71	74	5	29	28.94	29.85	12	FEW	NC			10.00	72	53	61	52	12	01	29.07	29.98	
15	BKN	065			10.00		71	65	67	81	8	33	28.90	29.81	15	SCT	NC			10.00	75	52	62	45	6	31	29.06	29.98	
18	OVC	014			10.00		67	63	64	87	6	34	28.92	29.83	18	FEW	NC			10.00	72	51	60	48	6	32	29.08	30.00	
21	OVC	029			10.00		64	61	62	90	0	00	28.92	29.83	21	CLR	NC			10.00	57	54	55	90	0	00	29.14	30.06	
24	OVC	036			5.00	-DZ BR	63	61	62	93	5	33	28.93	29.83	24	CLR	NC			10.00	53	51	52	93	3	33	29.15	30.08	
SUNRISE: 0502 AUG 14 SUNSET: 1903						SUNRISE: 0508 AUG 20 SUNSET: 1854																							
03	FEW	NC			10.00		62	60	61	93	0	00	28.92	29.83	03	CLR	NC			10.00	51	50	51	96	0	00	29.18	30.10	
06	OVC	003			2.00	BR	61	59	60	93	0	00	28.95	29.86	06	CLR	NC			6.00	51	50	51	96	0	00	29.22	30.14	
09	FEW	NC			10.00		65	59	61	81	6	VR	28.97	29.88	09	CLR	NC			10.00	70	60	64	71	3	13	29.24	30.16	
12	SCT	NC			10.00		75	55	63	50	7	23	28.94	29.85	12	SCT	NC			10.00	75	55	63	50	9	14	29.23	30.15	
15	SCT	NC			10.00		77	54	63	45	10	23	28.93	29.83	15	FEW	NC			10.00	77	55	64	47	12	15	29.18	30.10	
18	CLR	NC			10.00		75	52	62	45	7	20	28.91	29.82	18	CLR	NC			10.00	72	55	62	55	15	13	29.15	30.08	
21	CLR	NC			10.00		69	56	61	63	8	19	28.94	29.85	21	FEW	NC			10.00	66	54	59	65	9	13	29.19	30.11	
24	CLR	NC			10.00		66	56	60	70	7	19	28.95	29.86	24	SCT	NC			10.00	64	55	59	73	8	16	29.17	30.09	
SUNRISE: 0503 AUG 15 SUNSET: 1901						SUNRISE: 0509 AUG 21 SUNSET: 1852																							
03	CLR	NC			10.00		64	56	59	75	12	19	28.95	29.85	03	CLR	NC			10.00	63	58	60	84	6	13	29.15	30.06	
06	CLR	NC			10.00		63	57	59	81	5	VR	28.96	29.87	06	OVC	015			10.00	67	59	62	76	14	16	29.11	30.03	
09	CLR	NC			10.00		72	60	65	66	14	18	28.96	29.87	09	BKN	014			10.00	73	65	68	76	14	18	29.08	30.00	
12	FEW	NC			10.00		80	58	66	47	18	18	28.92	29.83	12	CLR	NC			10.00	82	71	74	69	10	18	29.05	29.96	
15	SCT	NC			10.00		82	63	70	53	14	20	28.90	29.80	15	FEW	NC			10.00	86	73	77	65	17	17	28.98	29.88	
18	OVC	046			10.00		79	64	69	60	13	21	28.91	29.82	18	OVC	011			1.00	73	70	71	90	15	26	28.99	29.90	
21	OVC	050			10.00		75	67	70	76	7	VR	28.95	29.86	21	BKN	110			10.00	73	71	72	94	7	20	28.99	29.89	
24	CLR	NC			10.00		71	66	68	84	5	28	28.99	29.90	24	FEW	NC			10.00	73	71	72	94	8	20	28.99	29.90	
SUNRISE: 0504 AUG 16 SUNSET: 1860						SUNRISE: 0511 AUG 22 SUNSET: 1851																							
03	CLR	NC			9.00		66	63	64	90	5	28	29.04	29.95	03	BKN	048			10.00	73	71	72	94	7	22	28.99	29.89	
06	CLR	NC			10.00		63	60	61	90	0	00	29.09	30.01	06	OVC	026			7.00	72	70	71	94	3	21	29.01	29.92	
09	CLR	NC			10.00		74	59	65	60	5	22	29.14	30.05	09	OVC	014			3.00	70	69	69	97	5	21	29.09	30.01	
12	FEW	NC			10.00		78	51	62	39	7	24	29.14	30.06	12	OVC	007			4.00	70	69	69	97	5	06	29.13	30.05	
15	CLR	NC			10.00		82	54	65	38	3	VR	29.09	30.01	15	OVC	008			10.00	72	69	70	91	9	07	29.11	30.02	
18	CLR	NC			10.00		76	55	63	48	7	20	29.07	29.99	18	OVC	010			8.00	69	66	67	90	7	09	29.13	30.04	
21	CLR	NC			10.00		71	59	64	66	6	18	29.06	29.97	21	OVC	010			8.00	69	66	67	90	8	10	29.16	30.08	
24	CLR	NC			10.00		71	65	67	81	13	17	28.99	29.89	24	OVC	016			3.00	66	63	64	90	6	07	29.13	30.05	
SUNRISE: 0505 AUG 17 SUNSET: 1858						SUNRISE: 0512 AUG 23 SUNSET: 1849																							
03	OVC	027			9.00		72	67	69	84	17	16	28.85	29.75	03	OVC	008			5.00	65	63	64	93	0	00	29.12	30.03	
06	SCT	NC			10.00		73	68	70	84	14	18	28.90	29.80	06	OVC	004			2.00	65	64	64	97	5	09	29.09	30.01	
09	BKN	012			10.00		74	70	71	88	12	20	28.83	29.73	09	OVC	006			2.50	69	66	67	90	5	11	29.07	29.99	
12	SCT	NC			10.00		79	65	70	62	12	24	28.86	29.76	12	OVC	010			5.00	70	66	67	87	5	24	29.07	29.99	
15	FEW	NC			10.00		78	56	65	47	13	26	28.90	29.80	15	OVC	027			8.00	74	67	69	79	0	00	29.02	29.93	
18	SCT	NC			10.00		70	56	62	61	6	27	28.95	29.86	18	OVC	014			3.00	71	68	69	90	3	VR	28.99	29.91	
21	CLR	NC			10.00		62	51	56	67	5	27	29.01	29.93	21	OVC	004			2.00	69	67	68	93	6	02	29.00	29.92	
24	CLR	NC			10.00		57	50	53	78	3	VR	29.04	29.96	24	OVC	017			2.50	68	66	67	93	5	34	29.02	29.94	
SUNRISE: 0506 AUG 18 SUNSET: 1857						SUNRISE: 0513 AUG 24 SUNSET: 1847																							
03	CLR	NC			10.00		54	48	51	80	5	28	29.05	29.97	03	OVC	006			5.00	67	66	66	97	5	33	29.00	29.91	
06	CLR	NC			10.00		53	48	50	83	0	00	29.07	30.00	06	BKN	050			3.00	67	65	66	93	6	32	29.04	29.96	
09	CLR	NC			10.00		65	50	57	59	6	VR	29.08	30.00	09	BKN	014			10.00	71	66	68	84	7	31	29.06	29.97	
12	CLR	NC			10.00		70	49	58	47	7	27	29.06	29.98	12	SCT	NC			10.00	77	65	69	66	10	32	29.07	29.98	
15	CLR	NC			10.00		74	48	59	40	7	22	29.00	29.93	15	SCT	NC			10.00	80	64	70	58	6	34	29.04	29.96	
18	CLR	NC			10.00		71	53	61	53	3	35	28.99	29.91	18	FEW	NC			10.00	76	64	68	67	3	32	29.04	29.96	
21	BKN	080			10.00		66	53	59	63	0	00	29.00	29.92	21	CLR	NC			10.00	67	64	65	91	0	00	29.07	29.99	
24	OVC	060			10.00		62	57	59	84	3	25	28.99	29.91	24	CLR	NC			10									

MADISON, WI

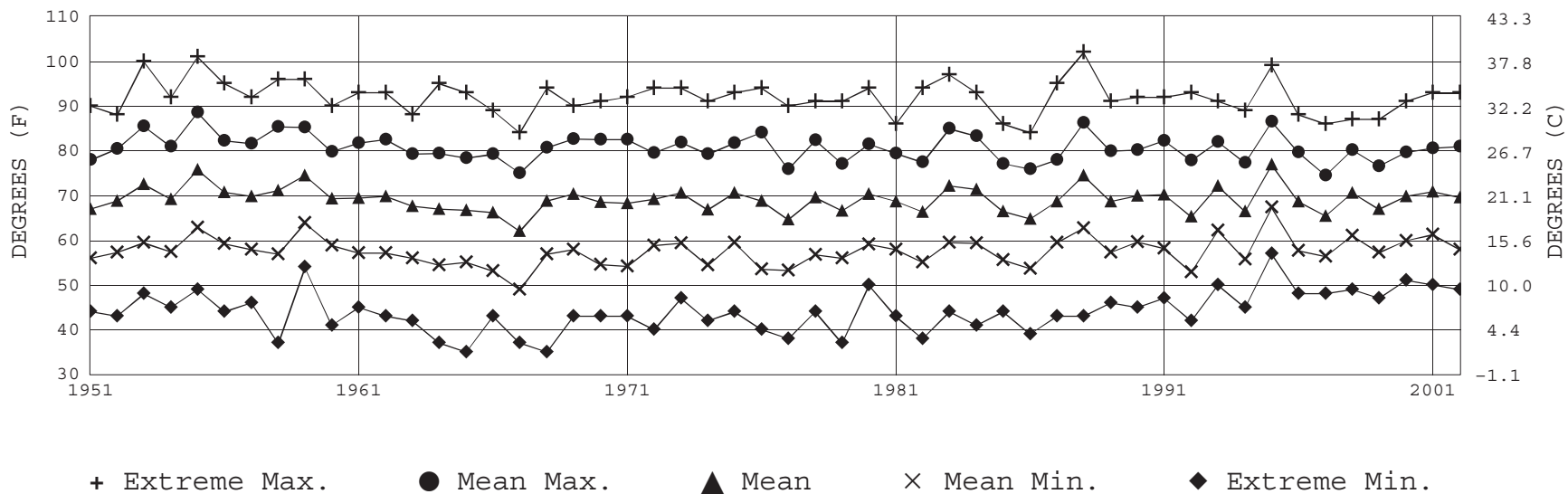
AUGUST 2002

MSN

WBAN # 14837

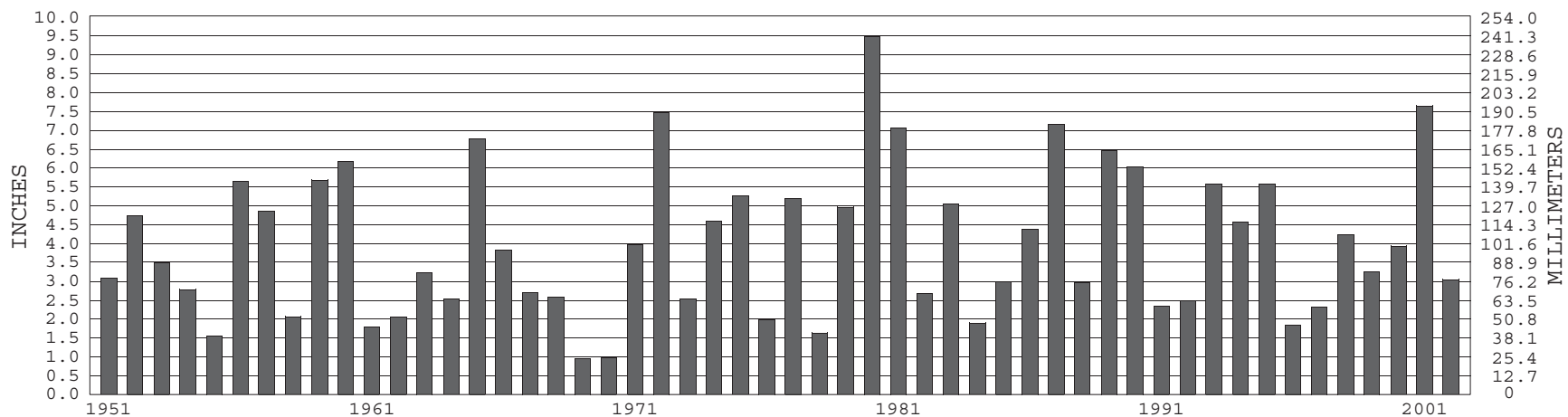
Hour (LST)				Satellite		Weather	Temperature °F			Relative Humidity (Pct)	Wind		Pressure (Inches,Hg)		Hour (LST)				Satellite		Weather	Temperature °F			Relative Humidity (Pct)	Wind		Pressure (Inches,Hg)	
	Sky Cover	Ceiling 100'S OffT	Observation Time (LST)	Eff ClD AMT Ocktas	Visibility (Miles)		Dry Bulb	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 Ocktas	Visibility (Miles)		Dry Bulb	Dew Point	Wet Bulb		Speed (MPH)	Direction Tens of Deg	Station	Sea Level
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)	Speed	Direction																	
							Station	Sea Level																					
01			63	60	61	89	29.14	30.05	8.10	4	1	18																	
02			62	59	61	90	29.14	30.05	7.54	4	0	0																	
03			62	59	60	91	29.13	30.05	7.56	4	0	0																	
04			61	59	60	93	29.14	30.05	6.85	3	1	22																	
05			61	59	60	92	29.15	30.06	6.17	4	1	17																	
06			62	59	60	91	29.16	30.07	6.02	3	1	17																	
07			65	61	63	87	29.16	30.08	6.76	5	1	15																	
08			69	62	64	80	29.16	30.08	7.67	6	2	15																	
09			71	62	66	74	29.16	30.08	8.48	6	2	18																	
10			74	62	66	67	29.16	30.08	9.05	6	2	20																	
11			76	61	67	61	29.16	30.07	9.32	7	2	19																	
12			78	61	67	58	29.15	30.06	9.42	7	2	20																	
13			79	61	67	55	29.14	30.05	9.61	6	1	16																	
14			79	60	67	54	29.13	30.04	9.77	8	1	15																	
15			79	60	68	54	29.12	30.03	9.94	7	1	19																	
16			79	60	67	55	29.11	30.03	9.77	8	1	11																	
17			77	61	67	59	29.11	30.03	9.81	8	1	18																	
18			75	61	66	63	29.11	30.03	9.42	7	1	12																	
19			71	61	65	72	29.12	30.04	9.52	5	2	13																	
20			69	61	64	77	29.13	30.05	9.45	4	2	13																	
21			67	60	63	80	29.14	30.06	9.23	4	2	12																	
22			66	60	63	81	29.15	30.06	8.90	4	1	15																	
23			65	60	62	83	29.15	30.06	8.52	4	2	14																	
24			64	59	61	86	29.15	30.06	8.34	4	1	15																	

MADISON, WI AUGUST TEMPERATURES



Long-Term (1951-2002) Mean: 69.1 1961-1990 Normal: 69.1

MADISON, WI AUGUST PRECIPITATION



Long-Term (1951-2002) Mean Monthly Total: 4.00

1961-1990 Normal: 4.33



AUGUST 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.

DIRECTOR

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