



OCTOBER 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	75*	64	70*	15	62	65	0	5	TSRA RA BR	0		0.0	0.08	28.99	29.90	6.2	21	7.0	23	16	20	16	01				
02	64	51	58	3	55	56	7	0	RA DZ BR	0		0.0	0.22	29.12	30.04	8.4	04	8.8	22	05	18	03	02				
03	57	48	53	-2	50	52	12	0	RA DZ BR	0		0.0	0.04	29.09	30.03	6.9	08	8.4	17	04	15	06	03				
04	68	48	58	3	54	57	7	0	TSRA RA BR	0		0.0	0.94	28.67	29.58	7.3	22	12.8	38*	23	25*	30	04				
05	59	42	51	-4	40	46	14	0	RA	0		0.0	T	29.17	30.11	2.4	21	6.5	16	16	13	17	05				
06	67	41	54	0	42	48	11	0	RA	0		0.0	0.05	28.97	29.90	8.3	24	13.4	33	26	24	26	06				
07	50	32	41	-12	31	38	24	0	RA	0		0.0	0.01	29.25	30.20	2.3	21	5.7	18	32	13	31	07				
08	63	46	55	2	41	48	10	0	RA	0		0.0	T	29.13	30.06	7.2	20	7.5	21	19	17	18	08				
09	59	38	49	-3	39	44	16	0		0		0.0	0.00	29.22	30.16	1.9	35	3.0	16	36	12	36	09				
10	67	41	54	2	50	52	11	0	RA FG+ BR HZ	0		0.0	T	29.21	30.15	5.1	14	5.9	14	16	12	14	10				
11	73	41	57	5	46	51	8	0	MIFG BR HZ	0		0.0	0.00	29.16	30.09	6.0	16	6.2	20	18	17	17	11				
12	60	42	51	0	46	49	14	0	RA DZ BR HZ	0		0.0	0.03	29.14	30.07	2.5	28	5.7	22	31	16	29	12				
13	49	32	41	-9	22	34	24	0		0		0.0	0.00	29.43	30.38	5.5	28	7.3	24	28	17	28	13				
14	57	34	46	-4	26	38	19	0		0		0.0	0.00	29.22	30.16	10.2	18	10.3	29	18	24	18	14				
15	53	32	43	-7	30	38	22	0		0		0.0	0.00	29.04	29.98	6.3	32	7.6	22	29	17	33	15				
16	45	26	36	-13	22	30	29	0		0		0.0	0.00	29.13	30.08	2.5	36	3.9	18	02	13	01	16				
17	41	27	34	-15	32	34	31	0	RA SN FG+ FZFG BCFG BR	0		T	0.09	29.02	29.97	0.9	23	2.4	14	22	10	21	17				
18	55	31	43	-5	38	42	22	0	RA BR	0		0.0	0.17	28.85	29.78	7.3	21	11.5	26	29	20	28	18				
19	43	33	38	-10	29	36	27	0		0		0.0	0.00	29.06	30.00	6.6	30	7.7	24	31	17	31	19				
20	47	30	39	-9	29	35	26	0	RA	0		0.0	T	29.19	30.14	1.5	02	3.5	13	32	10	31	20				
21	50	37	44	-3	35	39	21	0	RA BR	0		0.0	0.01	29.15	30.09	3.0	17	8.8	23	18	18	18	21				
22	40	34	37	-10	31	34	28	0	DZ	0		0.0	T	29.36	30.32	9.9	34	10.3	20	01	17	36	22				
23	43	32	38	-8	29	33	27	0		0		0.0	0.00	29.52	30.49	10.0	03	10.3	22	01	17	02	23				
24	42	33	38	-8	34	36	27	0	RA SN BR	0		T	0.06	29.41	30.37	5.9	07	6.7	17	11	15	11	24				
25	44	38	41	-4	41	42	24	0	RA DZ BR	0		0.0	0.35	29.12	30.06	5.6	12	6.7	17	12	14	13	25				
26	50	39	45	0	34	40	20	0	DZ BR	0		0.0	T	29.15	30.09	3.9	30	6.0	16	30	13	30	26				
27	41	28	35	-9	28	34	30	0	RA SN	0		T	T	29.31	30.27	2.8	36	3.5	17	33	13	33	27				
28	45	32	39	-5	32	36	26	0	SN BR	0		0.3	0.05	29.24	30.20	6.0	07	7.0	17	11	14	10	28				
29	46	32	39	-5	31	36	26	0		0		0.0	0.00	29.16	30.11	9.7	06	10.3	22	06	20	06	29				
30	46	26	36	-7	30	33	29	0	BR	0		0.0	0.00	29.22	30.18	4.4	36	5.2	16	01	14	01	30				
31	41	26*	34*	-9	24	30	31	0		0		0.0	0.00	29.26	30.22	4.7	29	6.1	20	30	15	29	31				
52.9 36.6 44.8 ■■										< MONTHLY AVERAGES TOTALS->				0.3	2.10	29.16	30.10	0.2	29	7.3	<- MONTHLY AVERAGES						
-6.7 -2.3 -4.5 ■■										<-----DEPARTURE FROM NORMAL----->										- .08				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3			
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.95 DATE :03-04				SEA LEVEL PRESSURE DATE TIME														
MONTHLY TOTAL DEPARTURE 623 119 733 1									GREATEST 24-HR SNOWFALL: 0.3 DATE :28				MAXIMUM : 30.54 23 0953														
SEASON TO DATE TOTAL DEPARTURE 752 170									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.33 04 1353														
HEATING: 623 119 733 1									NUMBER OF DAYS WITH → MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32 : 13				PRECIPITATION ≥ 0.01 INCH : 13										
COOLING: 5 1 752 170									MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 4										
									THUNDERSTORMS : 2				HEAVY FOG : 2				SNOWFALL ≥ 1.0 INCH : 0										

OCTOBER 2002
MADISON, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MADISON, WI

OCTOBER 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	T	T											01	T				T	T			0.02	T	0.06	T	01	T		0.08
02	T	T											02	T				T	T			T	T			02			0.22
03	T	T	0.01	0.01			T	T		0.04	0.02	0.03	03	T		0.01	T		0.03	0.03	0.03	T	T		0.01	03			0.04
04	0.06	0.03		0.01	T	0.04	0.12	0.14	0.41	0.02	0.05	0.02	04	T					T			T				04			0.94
05													05						T		T	T				05			T
06						T	0.02	0.01					06							T	T	T		0.01	0.01	06			0.05
07													07									T				07			0.01
08							T						08	T	T											08			T
09													09													09			0.00
10										T	T		10													10			T
11													11													11			0.00
12													12	0.01	T	T	0.01	0.01								12			0.03
13													13													13			0.00
14													14													14			0.00
15													15													15			0.00
16													16					0.01								16			0.00
17							T	T	T	0.01	0.01	0.01	17	0.02	0.05	T										17			0.09
18													18	T		T										18			0.17
19													19													19			0.00
20													20									T	T	T	T	20			T
21	T												21													21			0.01
22													22						T	T						22			T
23													23													23			0.00
24				T	0.01	T	0.01	0.02	T	T	T		24			T							T	0.02		24			0.06
25	0.03	0.04	0.02	0.03	0.04	0.04	0.03	0.01	T	0.03	T		25	T	0.01	0.03	0.02	T	T	T	0.01	T	0.01	T		25			0.35
26													26													26			T
27	T												27													27			T
28	0.01	0.01	0.01	0.01	T	0.01	T						28										T	T		28			0.05
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)	.16	.18	.24	.28	.32	.39	.43	.49	.53	.55	.63	.67
Ending Date	04	04	04	04	04	04	04	04	04	04	04	04
Ending Time (Hour/Min)	0821	0824	0821	0821	0830	0827	0847	0855	0855	0851	0851	0851

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.

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

OCTOBER 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)	
			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	OBSERVATION TIME (LST)		EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG
	SKY COVER	CEILING 100'S OF FT													SKY COVER	CEILING 100'S OF FT											
			SUNRISE: 0555		OCT 01	SUNSET: 1739										SUNRISE: 0602		OCT 07	SUNSET: 1728								
03	CLR	NC			10.00	69	58	62	68	7	21	28.91	29.81	03	CLR	NC			10.00	38	31	35	76	6	29	29.24	30.18
06	CLR	NC			10.00	67	59	62	76	5	21	28.95	29.86	06	CLR	NC			10.00	34	30	32	85	0	00	29.29	30.24
09	SCT	NC			10.00	70	61	64	73	7	22	28.99	29.89	09	CLR	NC			10.00	44	29	38	55	6	28	29.32	30.26
12	BKN	110			10.00	72	63	66	73	9	22	28.99	29.90	12	SCT	NC			10.00	48	25	39	41	8	25	29.33	30.27
15	SCT	NC			10.00	74	63	67	69	7	23	29.00	29.91	15	OVC	090			10.00	49	27	40	43	7	17	29.23	30.18
18	SCT	NC			10.00	68	64	66	87	14	20	29.00	29.93	18	BKN	120			10.00	45	32	39	61	6	09	29.19	30.14
21	BKN	050			8.00	65	63	64	93	0	00	29.05	29.97	21	OVC	070			10.00	49	33	42	55	7	18	29.22	30.17
24	BKN	085			10.00	64	62	63	93	3	16	29.04	29.96	24	OVC	100			10.00	47	38	43	71	8	16	29.19	30.13
			SUNRISE: 0556		OCT 02	SUNSET: 1737										SUNRISE: 0603		OCT 08	SUNSET: 1727								
03	OVC	013			7.00	63	62	62	97	3	03	29.03	29.95	03	OVC	070			10.00	49	36	43	61	9	18	29.15	30.09
06	OVC	017			5.00	64	63	63	96	0	00	29.08	30.00	06	OVC	075			10.00	50	38	44	63	12	19	29.14	30.09
09	OVC	006			3.00	56	54	55	93	12	01	29.14	30.07	09	BKN	095			10.00	54	40	47	59	10	20	29.16	30.09
12	OVC	009			5.00	55	53	54	93	10	01	29.15	30.08	12	BKN	100			10.00	58	42	50	56	9	22	29.13	30.06
15	OVC	011			10.00	55	52	53	90	10	04	29.12	30.05	15	BKN	110			10.00	62	43	52	50	7	20	29.07	30.00
18	OVC	008			4.00	54	52	53	93	8	03	29.13	30.06	18	FEW	NC			10.00	59	42	50	54	7	22	29.10	30.03
21	OVC	021			10.00	52	50	51	93	14	04	29.16	30.09	21	FEW	NC			10.00	54	44	49	69	0	00	29.11	30.04
24	OVC	013			10.00	51	49	50	92	9	05	29.17	30.11	24	CLR	NC			10.00	50	43	47	77	3	21	29.12	30.05
			SUNRISE: 0557		OCT 03	SUNSET: 1735										SUNRISE: 0604		OCT 09	SUNSET: 1725								
03	OVC	009			3.00	49	48	48	97	9	03	29.16	30.10	03	OVC	120			10.00	49	45	47	86	5	35	29.14	30.08
06	OVC	011			10.00	48	46	47	93	12	04	29.19	30.13	06	BKN	014			8.00	49	45	47	86	6	34	29.21	30.15
09	OVC	017			10.00	50	46	48	86	10	07	29.18	30.12	09	CLR	NC			10.00	50	37	44	61	10	36	29.26	30.20
12	OVC	015			10.00	55	49	52	80	10	08	29.13	30.06	12	CLR	NC			10.00	55	35	46	47	5	VR	29.25	30.18
15	OVC	019			10.00	57	50	53	78	7	08	29.07	30.01	15	CLR	NC			10.00	59	36	48	42	3	09	29.21	30.14
18	OVC	011			10.00	57	53	55	87	7	13	29.02	29.96	18	CLR	NC			10.00	46	40	43	79	0	00	29.23	30.17
21	OVC	007			6.00	57	55	56	93	5	14	28.99	29.92	21	CLR	NC			10.00	39	37	38	93	0	00	29.24	30.18
24	OVC	003			2.50	57	56	56	96	3	12	28.88	29.80	24	FEW	NC			8.00	41	40	41	96	0	00	29.23	30.16
			SUNRISE: 0558		OCT 04	SUNSET: 1733										SUNRISE: 0605		OCT 10	SUNSET: 1723								
03	OVC	006			3.00	63	61	62	93	14	16	28.72	29.64	03	OVC	003			2.00	47	46	46	97	7	12	29.22	30.15
06	OVC	024			2.00	66	65	65	96	13	17	28.62	29.53	06	VV	001			0.25	49	49	49	100	8	12	29.22	30.16
09	OVC	024			4.00	64	60	62	87	10	23	28.54	29.44	09	OVC	001			0.25	49	48	48	97	9	09	29.26	30.20
12	BKN	034			10.00	63	59	61	87	15	18	28.47	29.38	12	OVC	005			2.50	55	52	53	90	7	13	29.23	30.17
15	BKN	049			10.00	62	48	54	60	17	23	28.51	29.41	15	FEW	NC			10.00	67	51	58	57	8	16	29.18	30.11
18	OVC	026			10.00	55	46	50	72	17	29	28.68	29.59	18	CLR	NC			10.00	55	51	53	87	0	00	29.19	30.12
21	OVC	035			10.00	51	41	46	69	13	31	28.89	29.81	21	CLR	NC			10.00	55	52	53	90	3	13	29.20	30.14
24	CLR	NC			10.00	48	40	44	74	8	29	29.01	29.94	24	FEW	NC			10.00	54	49	51	83	6	17	29.20	30.14
			SUNRISE: 0559		OCT 05	SUNSET: 1732										SUNRISE: 0606		OCT 11	SUNSET: 1721								
03	FEW	NC			10.00	46	41	44	83	6	VR	29.07	30.01	03	CLR	NC			4.00	46	45	46	96	0	00	29.20	30.13
06	CLR	NC			10.00	42	39	41	89	5	VR	29.15	30.09	06	FEW	NC			3.00	43	42	43	97	0	00	29.21	30.15
09	FEW	NC			10.00	47	39	43	74	7	27	29.24	30.18	09	CLR	NC			10.00	59	47	53	64	8	18	29.23	30.16
12	FEW	NC			10.00	54	37	46	53	7	28	29.24	30.18	12	CLR	NC			10.00	71	45	57	39	10	16	29.18	30.10
15	FEW	NC			10.00	58	36	47	44	3	VR	29.21	30.15	15	CLR	NC			10.00	72	45	57	38	10	18	29.12	30.05
18	OVC	080			10.00	54	44	49	69	0	00	29.20	30.14	18	CLR	NC			10.00	60	46	53	60	8	13	29.10	30.04
21	OVC	075			10.00	53	43	48	69	10	13	29.17	30.11	21	CLR	NC			10.00	58	47	52	67	10	15	29.11	30.03
24	BKN	120			10.00	55	41	48	59	10	17	29.11	30.05	24	CLR	NC			6.00	53	47	50	80	6	16	29.09	30.02
			SUNRISE: 0600		OCT 06	SUNSET: 1730										SUNRISE: 0607		OCT 12	SUNSET: 1720								
03	CLR	NC			10.00	55	41	48	59	15	17	29.00	29.93	03	BKN	046			6.00	50	47	48	89	0	00	29.08	30.01
06	BKN	070			10.00	55	42	49	62	9	20	28.96	29.88	06	BKN	070			4.00	53	49	51	86	5	VR	29.06	29.99
09	BKN	095			10.00	56	48	52	75	10	19	28.90	29.82	09	BKN	085			3.00	60	54	57	80	8	20	29.07	30.00
12	SCT	NC			10.00	65	50	57	59	15	22	28.85	29.76	12	OVC	048			6.00	56	52	54	87	5	32	29.11	30.04
15	FEW	NC			10.00	62	39	51	43	15	27	28.86	29.78	15	OVC	036			10.00	55	49	52	80	5	VR	29.12	30.05
18	BKN	060			10.00	51	36	44	56	16	27	28.97	29.89	18	BKN	060			10.00	49	44	47	83	6	VR	29.20	30.14
21	OVC	029			10.00	45	36	41	71	14	31	29.10	30.03	21	SCT												

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

OCTOBER 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>Oktas</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>Oktas</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
					SUNRISE: 0609	OCT 13			SUNSET: 1718										SUNRISE: 0616	OCT 19			SUNSET: 1708						
03	CLR	NC			10.00	37	24	32	60	7	29	29.37	30.31	03	OVC	031			10.00	41	30	36	65	13	31	28.93	29.86		
06	FEW	NC			10.00	32	25	29	75	6	VR	29.42	30.38	06	BKN	037			10.00	39	30	35	70	9	30	28.99	29.92		
09	CLR	NC			10.00	39	24	33	55	13	29	29.46	30.42	09	BKN	035			10.00	42	29	37	60	13	31	29.04	29.98		
12	FEW	NC			10.00	46	17	35	31	9	29	29.46	30.41	12	OVC	033			10.00	42	29	37	60	7	VR	29.10	30.05		
15	CLR	NC			10.00	48	16	36	28	13	27	29.42	30.37	15	OVC	035			10.00	42	28	36	58	9	31	29.08	30.02		
18	CLR	NC			10.00	45	20	36	37	3	VR	29.42	30.38	18	OVC	036			10.00	40	27	35	60	7	VR	29.12	30.07		
21	CLR	NC			10.00	40	25	34	55	3	18	29.43	30.39	21	OVC	038			10.00	38	27	34	65	5	29	29.13	30.08		
24	CLR	NC			10.00	37	25	33	62	7	18	29.42	30.37	24	OVC	037			10.00	34	26	31	73	0	00	29.14	30.09		
					SUNRISE: 0610	OCT 14			SUNSET: 1716										SUNRISE: 0617	OCT 20			SUNSET: 1707						
03	CLR	NC			10.00	39	23	33	53	0	00	29.40	30.36	03	OVC	035			10.00	34	28	32	79	3	VR	29.15	30.10		
06	CLR	NC			10.00	35	25	31	67	6	17	29.38	30.33	06	CLR	NC			10.00	30	26	29	85	3	VR	29.18	30.13		
09	CLR	NC			10.00	47	25	38	42	12	19	29.34	30.29	09	CLR	NC			10.00	37	25	32	62	3	VR	29.21	30.16		
12	CLR	NC			10.00	54	27	42	35	21	17	29.22	30.17	12	FEW	NC			10.00	44	28	38	53	5	VR	29.19	30.14		
15	CLR	NC			10.00	57	26	44	30	16	17	29.11	30.05	15	SCT	NC			10.00	47	29	39	50	3	07	29.17	30.12		
18	CLR	NC			10.00	52	26	41	37	9	19	29.07	30.01	18	OVC	065			10.00	43	32	38	65	5	04	29.19	30.14		
21	CLR	NC			10.00	48	28	40	46	10	19	29.04	29.98	21	OVC	060			10.00	40	30	36	68	3	05	29.21	30.16		
24	CLR	NC			10.00	47	27	39	46	9	19	28.99	29.92	24	OVC	065			10.00	38	34	36	86	5	05	29.22	30.17		
					SUNRISE: 0611	OCT 15			SUNSET: 1715										SUNRISE: 0618	OCT 21			SUNSET: 1705						
03	CLR	NC			10.00	46	31	40	56	0	00	28.96	29.89	03	OVC	080			8.00	37	33	35	86	8	09	29.21	30.16		
06	CLR	NC			10.00	39	32	36	76	5	27	28.99	29.93	06	OVC	100			10.00	38	32	36	79	6	13	29.18	30.13		
09	FEW	NC			10.00	48	34	42	58	14	31	29.03	29.97	09	OVC	019			10.00	42	34	39	73	10	18	29.18	30.13		
12	FEW	NC			10.00	51	31	42	46	12	33	29.03	29.98	12	BKN	090			10.00	46	33	40	61	13	17	29.11	30.06		
15	SCT	NC			10.00	52	29	42	41	10	32	29.03	29.97	15	OVC	048			10.00	50	34	43	54	7	21	29.07	30.01		
18	CLR	NC			10.00	45	28	38	52	5	31	29.08	30.02	18	OVC	046			10.00	46	39	43	77	3	31	29.08	30.03		
21	CLR	NC			10.00	38	27	34	65	6	34	29.12	30.06	21	OVC	022			9.00	44	39	42	83	7	34	29.14	30.09		
24	CLR	NC			10.00	33	27	31	78	5	34	29.12	30.07	24	OVC	009			6.00	37	33	35	86	9	33	29.20	30.14		
					SUNRISE: 0612	OCT 16			SUNSET: 1713										SUNRISE: 0620	OCT 22			SUNSET: 1704						
03	CLR	NC			10.00	30	25	28	82	5	33	29.14	30.09	03	OVC	015			10.00	36	29	33	76	8	32	29.24	30.19		
06	CLR	NC			10.00	27	23	26	85	6	33	29.16	30.12	06	OVC	015			10.00	35	29	33	78	13	33	29.29	30.24		
09	CLR	NC			10.00	37	25	32	62	8	04	29.19	30.14	09	OVC	015			10.00	36	30	34	79	10	32	29.34	30.29		
12	CLR	NC			10.00	42	20	34	41	10	33	29.15	30.10	12	OVC	019			10.00	39	31	36	73	10	34	29.36	30.32		
15	CLR	NC			10.00	45	19	35	35	6	VR	29.08	30.03	15	OVC	021			10.00	40	32	37	73	9	35	29.37	30.32		
18	CLR	NC			10.00	33	22	29	64	0	00	29.09	30.05	18	OVC	011			9.00	37	34	36	89	7	35	29.42	30.38		
21	BKN	070			10.00	33	25	30	72	0	00	29.08	30.03	21	OVC	013			10.00	35	31	33	85	14	36	29.45	30.42		
24	OVC	060			10.00	34	23	30	64	0	00	29.06	30.01	24	OVC	010			10.00	35	31	33	85	12	01	29.50	30.46		
					SUNRISE: 0613	OCT 17			SUNSET: 1712										SUNRISE: 0621	OCT 23			SUNSET: 1702						
03	OVC	050			10.00	34	28	32	79	0	00	29.04	29.98	03	OVC	012			10.00	34	30	32	85	14	02	29.51	30.47		
06	OVC	040			10.00	37	27	33	67	5	VR	29.03	29.98	06	OVC	012			10.00	33	29	31	85	10	36	29.55	30.52		
09	OVC	017			10.00	38	33	36	83	6	22	29.03	29.98	09	OVC	014			10.00	34	29	32	82	14	02	29.56	30.53		
12	OVC	020			7.00	40	35	38	83	7	20	29.00	29.96	12	BKN	020			10.00	39	30	35	70	9	04	29.54	30.51		
15	OVC	024			10.00	39	36	38	89	6	VR	28.99	29.93	15	OVC	041			10.00	41	30	37	65	12	05	29.51	30.48		
18	BKN	055			10.00	36	35	36	97	0	00	29.00	29.96	18	OVC	035			10.00	38	25	33	60	10	04	29.51	30.48		
21	CLR	NC			10.00	30	30	30	100	0	00	29.02	29.98	21	BKN	110			10.00	36	27	33	70	5	04	29.50	30.47		
24	OVC	095			7.00	32	32	32	100	0	00	29.02	29.98	24	OVC	090			10.00	36	28	33	73	6	04	29.48	30.44		
					SUNRISE: 0615	OCT 18			SUNSET: 1710										SUNRISE: 0622	OCT 24			SUNSET: 1701						
03	OVC	005			7.00	36	35	36	97	8	18	28.99	29.94	03	OVC	029			10.00	34	30	32	85	7	03	29.47	30.44		
06	OVC	003			5.00	38	37	38	97	14	14	28.90	29.84	06	OVC	007			8.00	34	32	33	92	7	04	29.47	30.44		
09	OVC	012			5.00	42	39	41	89	13	18	28.84	29.78	09	OVC	005			5.00	35	34	35	96	6	04	29.47	30.44		
12	OVC	075			10.00	46	40	43	79	10	20	28.79	29.72	12	OVC	005			6.00	39	37	38	93	7	08	29.42	30.38		
15	BKN	090			10.00	52	44	48	75	10	21	28.75	29.69	15	OVC	013			10.00	41	37	39	86	9	10	29.38	30.34		
18	FEW	NC			10.00	55	43	49	64	10	23	28.77	29.70	18	OVC</														

OBSERVATIONS AT 3-HOURLY INTERVALS

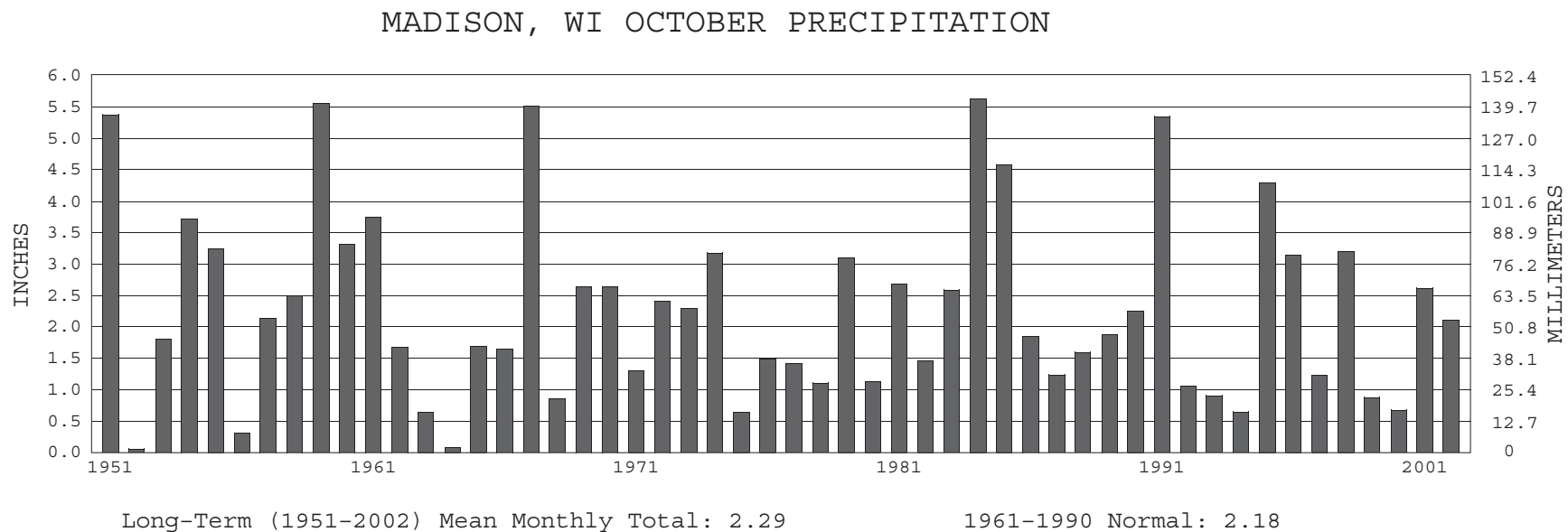
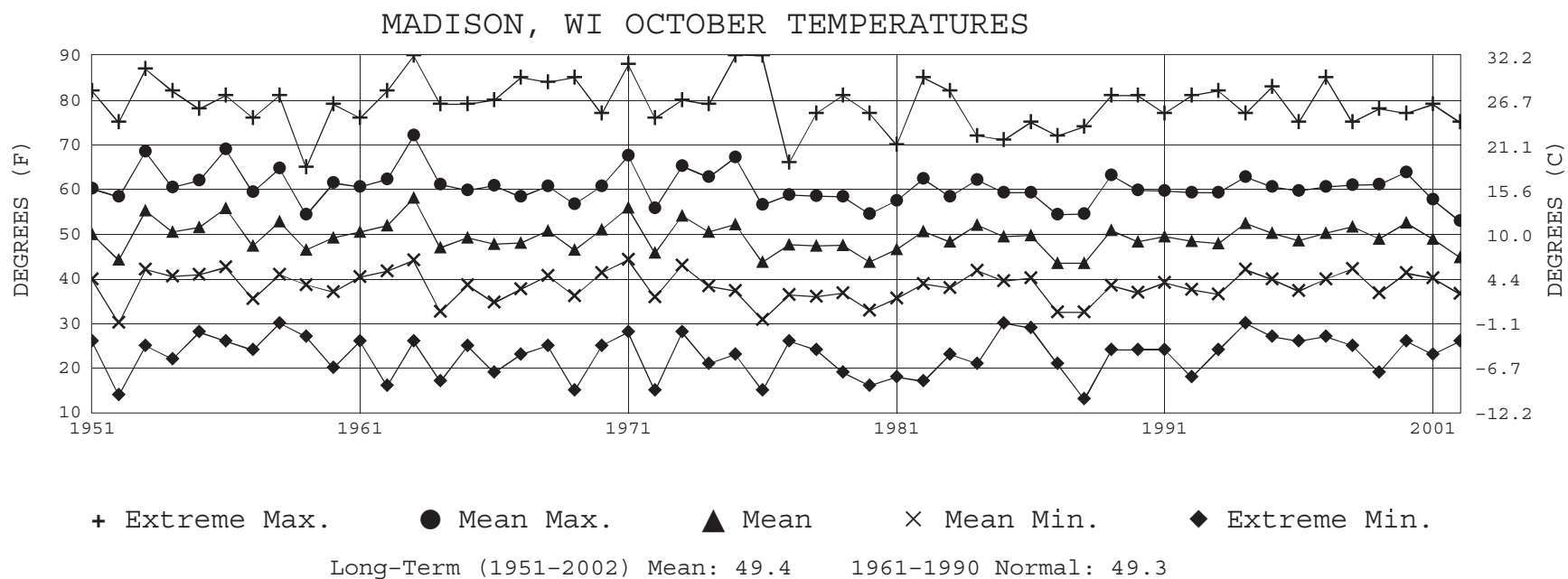
MADISON, WI

OCTOBER 2002

MSN

WBAN # 14837

HOUR (LST)	SKY COVER		CEILING 100'S OFFT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER		CEILING 100'S OFFT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		
				OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL					OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0623 OCT 25 SUNSET: 1659																																
03	OVC	021				8.00	-RA	40	37	39	89	8	09	29.24	30.19	03	OVC	100				10.00		31	30	31	96	0	00	29.26	30.22	
06	OVC	006				5.00	-RA BR	40	39	40	97	8	11	29.20	30.14	06	OVC	021				10.00		32	30	31	92	5	31	29.27	30.23	
09	OVC	006				6.00	-RA	42	40	41	92	9	13	29.15	30.10	09	OVC	015				10.00		34	28	32	79	13	30	29.30	30.26	
12	OVC	008				5.00	BR	44	41	43	89	9	12	29.08	30.03	12	SCT	NC				10.00		39	23	33	53	12	26	29.27	30.22	
15	OVC	009				2.50	-RA BR	44	42	43	93	8	12	29.04	29.99	15	BKN	120				10.00		40	21	33	47	8	30	29.22	30.18	
18	OVC	008				4.00	-RA BR	44	42	43	93	3	11	29.03	29.97	18	CLR	NC				10.00		32	20	28	61	7	27	29.23	30.19	
21	OVC	008				2.00	-RA BR	44	42	43	93	3	17	29.03	29.98	21	CLR	NC				10.00		29	20	26	69	5	27	29.26	30.22	
24	OVC	006				3.00	-DZ BR	43	42	43	97	6	28	29.04	29.98	24	CLR	NC				10.00		26	18	23	71	6	VR	29.26	30.22	
SUNRISE: 0625 OCT 26 SUNSET: 1658																																
03	OVC	016				10.00		42	39	41	89	6	30	29.06	30.01	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.																
06	OVC	013				9.00		40	37	39	89	7	31	29.10	30.05																	
09	BKN	031				9.00		42	38	40	85	7	31	29.15	30.10																	
12	SCT	NC				10.00		48	32	41	54	13	31	29.15	30.09																	
15	SCT	NC				10.00		49	32	42	52	3	VR	29.14	30.08																	
18	OVC	044				10.00		44	33	39	65	8	31	29.18	30.13																	
21	OVC	042				10.00		43	31	38	63	5	VR	29.21	30.16																	
24	OVC	029				10.00		42	33	38	71	6	VR	29.25	30.19																	
SUNRISE: 0626 OCT 27 SUNSET: 1656																																
03	OVC	043				10.00		37	28	34	70	5	33	29.29	30.24	SUMMARY BY HOUR																
06	CLR	NC				10.00		29	27	28	92	0	00	29.33	30.28																	
09	CLR	NC				10.00		38	26	33	62	8	04	29.35	30.30																	
12	FEW	NC				10.00		40	26	35	58	6	36	29.35	30.30																	
15	FEW	NC				10.00		40	26	35	58	3	33	29.32	30.27																	
18	OVC	065				10.00		38	28	34	68	0	00	29.32	30.27																	
21	OVC	060				10.00		38	31	35	76	0	00	29.29	30.24																	
24	OVC	021				6.00	-SN	35	31	33	85	5	03	29.29	30.24																	
SUNRISE: 0627 OCT 28 SUNSET: 1655																																
03	OVC	005				1.00	-SN BR	32	31	32	96	5	36	29.30	30.25	AVERAGES																
06	BKN	005				6.00	-SN BR	33	31	32	92	3	06	29.27	30.23																	
09	FEW	NC				10.00		36	32	34	86	3	VR	29.26	30.22																	
12	OVC	025				10.00		42	33	38	71	8	09	29.24	30.20																	
15	BKN	037				10.00		45	33	40	63	12	10	29.20	30.15																	
18	BKN	095				10.00		40	33	37	77	6	07	29.21	30.16																	
21	OVC	095				10.00		39	33	37	79	6	03	29.23	30.18																	
24	BKN	095				10.00		40	34	37	79	10	06	29.19	30.14																	
SUNRISE: 0628 OCT 29 SUNSET: 1654																																
03	OVC	026				10.00		40	36	38	86	8	07	29.15	30.10	RESULTANT WIND (MPH)																
06	OVC	100				10.00		41	35	38	79	10	07	29.16	30.11																	
09	SCT	NC				10.00		40	31	36	70	12	09	29.18	30.13																	
12	OVC	095				10.00		44	30	38	58	13	07	29.16	30.11																	
15	FEW	NC				10.00		43	29	37	58	16	04	29.12	30.06																	
18	CLR	NC				10.00		39	28	35	65	9	07	29.17	30.12																	
21	CLR	NC				10.00		33	29	31	85	6	03	29.18	30.13																	
24	CLR	NC				10.00		33	29	31	85	7	02	29.17	30.12																	
SUNRISE: 0630 OCT 30 SUNSET: 1652																																
03	CLR	NC				9.00		29	27	28	92	3	35	29.17	30.13	SUMMARY BY HOUR																
06	CLR	NC				8.00		28	26	27	92	5	34	29.22	30.17																	
09	BKN	024				6.00	BR	36	33	35	89	7	04	29.25	30.21																	
12	FEW	NC				10.00		44	31	39	60	10	04	29.22	30.18																	
15	BKN	035				10.00		44	32	39	63	10	36	29.20	30.16																	
18	SCT	NC				10.00		37	30	34	76	0	00	29.22	30.18																	
21	OVC	110				10.00		34	31	33	89	3	32	29.24	30.20																	
24	BKN	120				10.00		32	30	31	92	3	29	29.26	30.21																	
SUNRISE: 0631 OCT 31 SUNSET: 1651																																
03	OVC	021				10.00		31	30	31	92	5	31	29.27	30.23	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.																
06	OVC	015				10.00		34	28	32	79	13	30	29.30	30.26																	
09	OVC	015				10.00		32	30	31	92	5	31	29.27	30.23																	
12	SCT	NC				10.00		39	23	33	53	12	26	29.27	30.22																	
15	BKN	120				10.00		40	21	33	47	8	30	29.22	30.18																	
18	CLR	NC				10.00		32	20	28	61	7	27	29.23	30.19																	
21	CLR	NC				10.00		29	20	26	69	5	27	29.26	30.22																	
24	CLR	NC				10.00		26	18	23	71	6	VR	29.26	30.22																	
SUNRISE: 0630 OCT 30 SUNSET: 1652																																
03	CLR	NC				9.00		29	27	28	92	3	35	29.17	30.13	SUMMARY BY HOUR																
06	CLR	NC				8.00		28	26	27	92	5	34	29.22	30.17																	
09	BKN	024				6.00	BR	36	33	35	89	7	04	29.25	30.21																	
12	FEW	NC				10.00		44	31	39	60	10	04	29.22	30.18																	
15	BKN	035				10.00		44	32	39	63	10	36	29.20	30.16																	
18	SCT	NC				10.00		37	30	34	76	0	00	29.22	30.18																	
21	OVC	110				10.00		34	31	33	89	3	32	29.24	30.20																	
24	BKN	120				10.00		32	30	31	92	3	29	29.26	30.21																	
SUNRISE: 0631 OCT 31 SUNSET: 1651																																
03	OVC	021				10.00		31	30	31	92	5	31	29.27	30.23	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.																
06	OVC	015				10.00		34	28	32	79	13	30	29.30	30.26																	
09	OVC	015				10.00		32	30	31	92	5	31	29.27	30.23																	
12	SCT	NC				10.00		39	23	33	53	12	26	29.27	30.22																	
15	BKN	120				10.00		40	21	33	47	8	30	29.22	30.18																	
18	CLR	NC				10.00		32	20	28	61	7	27	29.23	30.19																	
21	CLR	NC				10.00		29	20	26	69	5	27	29.26	30.22																	
24	CLR	NC				10.00		26	18	23	71	6	VR	29.26	30.22																	
SUNRISE: 0630 OCT 30 SUNSET: 1652																																
03	CLR	NC				9.00		29	27	28	92	3	35	29.17	30.13	SUMMARY BY HOUR																
06	CLR	NC				8.00		28	26	27	92	5	34	29.22	30.17																	
09	BKN	024				6.00	BR	36	33	35	89	7	04	29.25	30.21																	
12	FEW	NC				10.00		44	31	39	60	10	04	29.22	30.18																	
15	BKN	035				10.00		44	32	39	63	10	36	29.20	30.16																	
18	SCT	NC				10.00		37	30	34	76	0	00	29.22	30.18																	
21	OVC	110				10.00		34	31	33	89	3	32	29.24	30.20																	
24	BKN	120				10.00		32	30	31	92	3	29	29.26	30.21																	
SUNRISE: 0631 OCT 31 SUNSET: 1651																																
03	OVC	021				10.00		31	30	31	92	5	31	29.27	30.23	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.																
06	OVC	015				10.00		34	28	32	79	13	30	29.30	30.26																	
09	OVC	015				10.00		32	30	31	92	5	31	29.27	30.23																	
12	SCT	NC				10.00		39	23	33	53	12	26	29.27	30.22																	
15	BKN	120				10.00		40	21	33	47	8	30	29.22	30.18																	
18	CLR	NC				10.00		32	20	28	61	7	27	29.23	30.19																	
21	CLR	NC				10.00		29	20	26	69	5	27	29.26	30																	





OCTOBER 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

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost is \$29 for online delivery (including back issues) compared to \$34 for offline delivery.** To order this and other subscriptions online with your credit card, go to:
www.ncdc.noaa.gov and choose subscriptions.

We welcome your questions or comments, please contact us at
Toll Free Number (866) 742–3322 (voice)
Fax Number : (304) 726–4409
TDD : 828–271–4010
or Email : ncdc.info@noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center
310 State Route 956 Building 300
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G–19