



MARCH 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	26	13	20	-8	11	18	45	0	SN BR	1		1.5	0.09	29.33	30.31	4.3	04	7.6	17	36	14	09	01				
02	24	15	20	-8	17	19	45	0	SN FG+ BR BLSN	3		6.6	0.40	28.97	29.93	13.2	36	14.2	28	33	23	01	02				
03	15	-4	6	-22	-4	5	59	0	SN BR BLSN	8		T	T	29.08	30.06	9.9	31	10.5	25	33	18	31	03				
04	12	-8*	2*	-27	-4	3	63	0	SN BLSN	7		0.5	0.02	29.14	30.13	6.7	20	7.5	23	19	20	19	04				
05	26	-1	13	-16	12	16	52	0	SN BR	7		0.3	0.01	29.17	30.15	2.3	13	4.3	14	18	12	19	05				
06	29	20	25	-5	22	24	40	0	SN BR HZ	7		T	T	29.17	30.14	9.3	03	9.5	20	01	17	02	06				
07	34	23	29	-1	24	27	36	0	RA BR	6		0.0	0.01	29.21	30.18	10.0	07	11.9	22	10	18	10	07				
08	51	34	43	13	43	44	22	0	TS TSRA RA DZ GS FG+ BCFG	3		T	0.46	28.86	29.80	6.0	16	7.9	28	18	22	18	08				
09	56	15	36	5	26	31	29	0	TSRA RA DZ SN BR	0		0.3	0.25	28.78	29.72	13.2	24	17.1	43*	27	30	27	09				
10	27	9	18	-13	3	15	47	0		0		0.0	0.00	29.44	30.42	10.0	29	10.9	36	27	25	28	10				
11	46	23	35	3	20	28	30	0		0		0.0	0.00	29.14	30.10	7.0	18	8.2	23	19	18	19	11				
12	52	21	37	5	27	33	28	0	BCFG BR	0		0.0	0.00	29.01	29.96	5.4	18	6.6	17	18	15	18	12				
13	53	35	44	12	32	38	21	0	BR HZ	0		0.0	0.00	28.88	29.82	2.8	28	8.0	20	19	16	19	13				
14	39	33	36	3	29	33	29	0	RA	0		0.0	T	28.84	29.78	15.7	07	16.0	37	08	31*	08	14				
15	38	29	34	1	26	31	31	0	BR HZ	0		0.0	0.00	28.95	29.89	6.0	31	8.4	26	27	18	27	15				
16	45	21	33	-1	20	28	32	0		0		0.0	0.00	29.38	30.34	6.6	06	8.4	18	09	16	08	16				
17	38	25	32	-2	27	30	33	0	SN PL BR	0		0.2	0.02	29.19	30.15	7.8	07	8.6	23	09	18	11	17				
18	45	31	38	3	29	33	27	0	BR	0		0.0	0.00	29.29	30.25	2.2	02	5.7	15	34	12	36	18				
19	41	28	35	0	32	34	30	0	RA SN BR HZ	0		T	0.16	29.21	30.17	3.3	06	7.1	18	12	16	12	19				
20	46	33	40	5	31	36	25	0	RA SN BR	0		T	T	29.17	30.12	2.7	30	8.0	32	33	22	32	20				
21	33	12	23	-13	5	15	42	0	SN BR BLSN	T		1.4	0.11	29.43	30.40	14.6	31	15.3	30	32	24	32	21				
22	34	12	23	-13	7	19	42	0		T		0.0	0.00	29.25	30.23	9.8	27	10.4	26	30	18	29	22				
23	44	26	35	-2	13	27	30	0		0		0.0	0.00	29.03	29.98	5.2	27	7.2	22	28	16	30	23				
24	38	19	29	-8	15	24	36	0		0		0.0	0.00	29.21	30.17	12.1	05	12.6	30	06	26	05	24				
25	32	16	24	-13	12	20	41	0	SN	0		T	T	29.41	30.39	16.0	04	16.5	31	05	26	05	25				
26	40	19	30	-8	18	24	35	0	BR	0		0.0	0.00	29.29	30.26	8.1	01	8.8	23	36	20	02	26				
27	50	19	35	-3	20	30	30	0		0		0.0	0.00	29.21	30.17	6.4	18	7.2	22	16	18	17	27				
28	53	34	44	5	34	38	21	0	RA SN BR HZ	0		T	0.10	28.90	29.84	10.8	18	11.4	28	15	22	18	28				
29	58*	30	44*	5	26	37	21	0	BR	0		0.0	0.00	28.83	29.76	2.1	22	4.6	24	28	20	30	29				
30	51	31	41	2	22	34	24	0		0		0.0	0.00	29.00	29.94	7.6	26	8.5	25	26	20	27	30				
31	47	26	37	-3	23	32	28	0	SN BR	0		0.9	0.07	29.06	30.01	6.1	27	8.5	24	29	18	29	31				
39.5 20.6 30.1 ■■										< MONTHLY AVERAGES TOTALS->				11.7	1.70	29.12	30.08	1.4	35	9.6	<- MONTHLY AVERAGES						
-3.3 -4.0 -3.6 ■■										<-----DEPARTURE FROM NORMAL----->										- .58				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3			
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.57				DATE :08-09				SEA LEVEL PRESSURE				DATE TIME						
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 6.6				DATE :02				MAXIMUM				30.52 10 1153						
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 8				DATE :03				MINIMUM				29.39 09 0653						
HEATING: 1074 60 5518 -1205									NUMBER OF DAYS WITH ➔		MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32 : 26				PRECIPITATION ≥ 0.01 INCH : 12								
COOLING: 0 0 0 0											MAXIMUM TEMP ≤ 32 : 8				MINIMUM TEMP ≤ 0 : 3				PRECIPITATION ≥ 0.10 INCH : 6								
											THUNDERSTORMS : 2				HEAVY FOG : 2				SNOWFALL ≥ 1.0 INCH : 3								

MARCH 2002
MADISON, WI

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MADISON, WI

MARCH 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					T	T	T	T	T	0.03	0.03	0.03	01	0.25	T	0.09
02	0.04	0.02	0.02	.01	T	0.02	.02	T	0.01	T	0.02	T	02	0.02	T	T	0.02	0.02	0.01	0.02	T	T	T	T	02	0.40			
03	T	T	T	T									03			T	T	T	T	T	T	T	T	T	03	T			0.02
04													04			T	T	T	T	T	T	T	T	T	04				0.01
05	T								T	T	T	0.01	05	T	T	T	T	T	T	T	T	T	T	T	05				
06													06							T	T				06	0.45		T	
07													07							T					07			0.01	
08	T	0.01	T		0.23	0.07	T						08					0.08	0.04	0.01	0.01	T	0.01	T	08			0.46	
09		0.01	0.09	0.01		0.08	0.03	T	0.01	0.01	T	T	09	T	T	0.01	T	T	T						09			0.25	
10													10												10			0.00	
11													11												11			0.00	
12													12												12			0.00	
13													13												13			0.00	
14													14				T	T	T						14			T	
15													15												15			0.00	
16													16												16			0.00	
17													17	T	0.01	T	0.01	T							17			0.02	
18													18												18			0.00	
19													19			T	T	0.01	0.01	0.02	0.04	0.06	0.02	T	19			0.16	
20	T	T											20											T	20			T	
21	0.01	0.06	0.01	0.02	0.01	T	T	T					21												21			0.11	
22													22												22			0.00	
23													23												23			0.00	
24													24												24			0.00	
25		T	T	T	T	T	T	T	T	T			25												25			T	
26													26												26			0.00	
27													27												27			0.00	
28								T	T	0.10	T		28												28			0.10	
29													29												29			0.00	
30													30												30			0.00	
31						T	0.04	T					31												31	0.04		0.07	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.09	.13	.15	.19	.20	.21	.23	.27	.28	.30	.30	.30
Ending Date	08	08	08	08	08	08	08	08	08	08	08	08
Ending Time (Hour/Min)	0420	0424	0424	0433	0441	0441	0512	0528	0545	0545	0545	0545

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
MARCH 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).

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.

ERRATA for Jan & Feb 2002 LCD's: To stay consistent with the Heating Degree Day Season (July 2001 – June 2002), NCDC reinstalled the 1961 – 1990 Heating Degree Day Normals and corrected the Jan & Feb 2002 LCD's. The corrected LCD's are available on NCDC's Website. The 1971 – 2000 Heating Degree Day Normals will go into effect with the July 2002 LCD. The new Cooling Degree Day Normals went into effect with the Jan 2002 LCD.

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OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

MARCH 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 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: 0633						MAR 01						SUNSET: 1746						SUNRISE: 0623						MAR 07						SUNSET: 1754											
03	OVC	031			10.00	19	9	16	65	8	32	29.27	30.24	03	OVC	029			10.00	25	18	23	75	9	02	29.29	30.26	03	OVC	029			10.00	25	18	23	75	9	02	29.29	30.26
06	FEW	NC			10.00	14	5	12	67	5	32	29.36	30.33	06	OVC	025			10.00	25	20	23	81	12	05	29.28	30.24	06	OVC	025			10.00	25	20	23	81	12	05	29.28	30.24
09	CLR	NC			10.00	17	6	14	62	3	VR	29.42	30.40	09	OVC	009			8.00	23	20	22	88	10	03	29.30	30.27	09	OVC	009			8.00	23	20	22	88	10	03	29.30	30.27
12	BKN	080			10.00	21	6	17	52	5	03	29.42	30.40	12	OVC	007			10.00	26	22	25	84	12	04	29.27	30.24	12	OVC	007			10.00	26	22	25	84	12	04	29.27	30.24
15	OVC	060			10.00	25	10	21	53	8	09	29.37	30.34	15	OVC	011			6.00	32	28	31	85	16	08	29.21	30.17	15	OVC	011			6.00	32	28	31	85	16	08	29.21	30.17
18	OVC	065			8.00	23	15	21	72	8	07	29.33	30.31	18	OVC	009			4.00	31	28	30	89	17	11	29.17	30.14	18	OVC	009			4.00	31	28	30	89	17	11	29.17	30.14
21	OVC	010			1.00	22	19	21	89	8	09	29.30	30.27	21	OVC	007			3.00	32	30	31	92	12	10	29.09	30.06	21	OVC	007			3.00	32	30	31	92	12	10	29.09	30.06
24	VV	003			1.00	22	20	21	92	10	05	29.23	30.20	24	OVC	005			2.50	34	33	34	97	15	13	28.97	29.92	24	OVC	005			2.50	34	33	34	97	15	13	28.97	29.92
SUNRISE: 0632						MAR 02						SUNSET: 1748						SUNRISE: 0622						MAR 08						SUNSET: 1755											
03	OVC	012			1.50	22	20	21	92	13	05	29.10	30.07	03	OVC	005			2.00	39	38	39	96	9	17	28.82	29.77	03	OVC	005			2.00	39	38	39	96	9	17	28.82	29.77
06	OVC	008			2.50	23	21	22	92	10	01	29.02	29.99	06	OVC	007			4.00	45	44	45	97	16	17	28.80	29.74	06	OVC	007			4.00	45	44	45	97	16	17	28.80	29.74
09	OVC	005			0.50	20	17	19	89	16	36	29.00	29.98	09	OVC	012			5.00	45	44	45	97	0	00	28.89	29.83	09	OVC	012			5.00	45	44	45	97	0	00	28.89	29.83
12	OVC	014			1.00	21	16	20	81	18	01	28.93	29.89	12	OVC	006			1.50	45	44	45	97	7	17	28.90	29.84	12	OVC	006			1.50	45	44	45	97	7	17	28.90	29.84
15	OVC	005			0.50	20	17	19	89	15	35	28.91	29.87	15	OVC	005			1.50	47	45	46	93	3	01	28.89	29.82	15	OVC	005			1.50	47	45	46	93	3	01	28.89	29.82
18	OVC	013			0.50	19	15	18	85	14	34	28.89	29.85	18	OVC	001			1.50	43	43	43	100	6	06	28.90	29.83	18	OVC	001			1.50	43	43	43	100	6	06	28.90	29.83
21	OVC	032			1.50	19	16	18	88	16	33	28.89	29.85	21	BKN	046			3.00	45	45	45	100	9	16	28.83	29.76	21	BKN	046			3.00	45	45	45	100	9	16	28.83	29.76
24	OVC	047			4.00	15	10	14	80	16	33	28.93	29.89	24	FEW	NC			10.00	50	46	48	86	13	16	28.73	29.66	24	FEW	NC			10.00	50	46	48	86	13	16	28.73	29.66
SUNRISE: 0630						MAR 03						SUNSET: 1749						SUNRISE: 0620						MAR 09						SUNSET: 1756											
03	OVC	080			4.00	12	5	10	73	14	31	28.94	29.91	03	OVC	029			3.00	52	49	50	89	15	16	28.57	29.49	03	OVC	029			3.00	52	49	50	89	15	16	28.57	29.49
06	SCT	NC			10.00	7	-1	5	70	12	31	28.99	29.96	06	OVC	039			5.00	53	50	51	89	8	20	28.50	29.42	06	OVC	039			5.00	53	50	51	89	8	20	28.50	29.42
09	CLR	NC			10.00	7	-3	5	63	12	31	29.06	30.03	09	OVC	007			2.50	36	35	36	97	16	23	28.53	29.45	09	OVC	007			2.50	36	35	36	97	16	23	28.53	29.45
12	CLR	NC			10.00	11	-3	8	53	12	30	29.09	30.07	12	OVC	020			6.00	27	20	25	75	13	25	28.62	29.56	12	OVC	020			6.00	27	20	25	75	13	25	28.62	29.56
15	SCT	NC			10.00	12	-3	9	51	14	31	29.11	30.09	15	OVC	022			2.00	24	17	22	75	20	26	28.79	29.73	15	OVC	022			2.00	24	17	22	75	20	26	28.79	29.73
18	FEW	NC			10.00	6	-6	4	57	12	29	29.17	30.16	18	BKN	041			10.00	23	13	20	65	17	26	28.99	29.93	18	BKN	041			10.00	23	13	20	65	17	26	28.99	29.93
21	CLR	NC			10.00	0	-8	-1	69	5	27	29.20	30.19	21	SCT	NC			10.00	18	5	15	57	18	27	29.15	30.11	21	SCT	NC			10.00	18	5	15	57	18	27	29.15	30.11
24	CLR	NC			10.00	-3	-12	-4	65	3	VR	29.18	30.18	24	FEW	NC			10.00	15	2	12	56	14	28	29.26	30.24	24	FEW	NC			10.00	15	2	12	56	14	28	29.26	30.24
SUNRISE: 0629						MAR 04						SUNSET: 1750						SUNRISE: 0618						MAR 10						SUNSET: 1758											
03	CLR	NC			10.00	-5	-14	-6	64	0	00	29.18	30.17	03	SCT	NC			10.00	12	0	10	58	20	28	29.34	30.32	03	SCT	NC			10.00	12	0	10	58	20	28	29.34	30.32
06	CLR	NC			10.00	-6	-13	-7	71	3	VR	29.17	30.17	06	FEW	NC			10.00	10	-1	8	61	12	29	29.41	30.40	06	FEW	NC			10.00	10	-1	8	61	12	29	29.41	30.40
09	CLR	NC			10.00	1	-9	0	62	8	21	29.18	30.18	09	FEW	NC			10.00	13	-1	10	54	18	30	29.49	30.48	09	FEW	NC			10.00	13	-1	10	54	18	30	29.49	30.48
12	CLR	NC			10.00	8	-5	6	55	9	20	29.13	30.12	12	CLR	NC			10.00	21	3	17	45	14	30	29.53	30.52	12	CLR	NC			10.00	21	3	17	45	14	30	29.53	30.52
15	OVC	047			8.00	11	0	9	61	14	18	29.08	30.07	15	CLR	NC			10.00	26	3	20	37	15	29	29.50	30.48	15	CLR	NC			10.00	26	3	20	37	15	29	29.50	30.48
18	OVC	050			3.00	10	5	9	80	10	19	29.10	30.09	18	CLR	NC			10.00	25	1	19	35	0	00	29.44	30.43	18	CLR	NC			10.00	25	1	19	35	0	00	29.44	30.43
21	OVC	024			5.00	11	6	10	81	6	19	29.11	30.10	21	BKN	120			10.00	24	9	20	52	7	23	29.44	30.42	21	BKN	120			10.00	24	9	20	52	7	23	29.44	30.42
24	OVC	034			6.00	8	5	7	87	0	00	29.13	30.12	24	CLR	NC			10.00	24	9	20	52	3	19	29.39	30.37	24	CLR	NC			10.00	24	9	20	52	3	19	29.39	30.37
SUNRISE: 0627						MAR 05						SUNSET: 1751						SUNRISE: 0617						MAR 11						SUNSET: 1759											
03	CLR	NC			7.00	0	-4	-1	83	0	00	29.16	30.15	03	CLR	NC			10.00	24	13	21	62	8	14	29.31	30.28	03	CLR	NC			10.00	24	13	21	62	8	14	29.31	30.28
06	BKN	090			6.00	11	8	10	88	0	00	29.20	30.18	06	FEW	NC			10.00	24	14	21	65	14	15	29.24	30.21	06	FEW	NC			10.00	24	14	21	65	14	15	29.24	30.21
09	OVC	055			6.00	15	11	14	84	0	00	29.24	30.22	09	CLR	NC			10.00	30	19	26	64	13	18	29.16	30.13	09	CLR	NC			10.00	30	19	26	64	13	18	29.16	30.13
12	OVC	043			3.00	20	15	19	81	8	17	29.22</																													

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

MARCH 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: 0613 MAR 13						SUNSET: 1800						SUNRISE: 0603 MAR 19						SUNSET: 1807											
03	CLR	NC			10.00	39	32	36	76	14	19	28.84	29.78	03	BKN	120			3.00	BR	29	27	28	92	3	09	29.32	30.27	
06	CLR	NC			4.00	37	34	36	89	7	20	28.82	29.75	06	SCT	NC			1.50	BR	29	27	28	92	3	10	29.29	30.25	
09	FEW	NC			6.00	42	35	39	76	7	22	28.79	29.72	09	SCT	NC			6.00	HZ	37	32	35	82	14	14	29.22	30.17	
12	CLR	NC			10.00	50	35	43	57	9	29	28.83	29.76	12	OVC	042			6.00	HZ	41	32	37	70	5	02	29.20	30.16	
15	CLR	NC			10.00	52	32	43	47	10	33	28.87	29.80	15	OVC	040			4.00	-RA	38	32	36	79	8	03	29.15	30.11	
18	OVC	090			10.00	47	32	40	56	5	32	28.92	29.86	18	OVC	004			1.50	-RA BR	38	36	37	93	9	36	29.16	30.11	
21	OVC	100			10.00	40	30	36	68	8	36	29.00	29.94	21	OVC	004			4.00	-RA BR	36	36	36	100	6	36	29.14	30.09	
24	OVC	120			10.00	36	26	32	67	7	01	29.02	29.97	24	OVC	006			3.00	-RASN BR	34	33	34	97	3	32	29.14	30.09	
SUNRISE: 0611 MAR 14						SUNSET: 1801						SUNRISE: 0601 MAR 20						SUNSET: 1808											
03	OVC	100			10.00	34	28	32	79	13	05	29.03	29.98	03	OVC	002			1.00	BR	33	33	33	100	9	35	29.13	30.08	
06	OVC	110			10.00	33	28	31	82	14	07	29.02	29.97	06	OVC	008			4.00	BR	34	32	33	92	9	34	29.17	30.13	
09	OVC	019			10.00	34	27	31	76	20	07	28.99	29.95	09	OVC	010			8.00		36	32	34	86	5	34	29.23	30.18	
12	OVC	019			10.00	39	30	35	70	25	07	28.88	29.82	12	OVC	019			10.00		39	32	36	76	9	33	29.25	30.21	
15	OVC	019			8.00	38	30	35	73	24	08	28.73	29.67	15	SCT	NC			10.00		44	29	38	55	7	19	29.19	30.14	
18	OVC	032			8.00	36	30	34	79	14	03	28.72	29.66	18	FEW	NC			10.00		43	30	38	60	8	17	29.13	30.09	
21	CLR	NC			10.00	36	31	34	82	14	06	28.62	29.56	21	BKN	046			10.00		42	31	37	65	10	20	29.14	30.09	
24	CLR	NC			7.00	34	31	33	89	3	08	28.59	29.52	24	OVC	020			4.00	-SN BR	34	30	32	85	15	32	29.13	30.08	
SUNRISE: 0610 MAR 15						SUNSET: 1802						SUNRISE: 0559 MAR 21						SUNSET: 1810											
03	OVC	009			4.00	37	34	36	89	7	22	28.63	29.57	03	OVC	010			0.75	-SN BLSN	25	22	24	88	20	33	29.24	30.19	
06	OVC	019			9.00	38	31	35	76	12	25	28.73	29.67	06	OVC	030			6.00	-SN BLSN	18	9	16	68	14	34	29.38	30.34	
09	OVC	021			10.00	35	26	32	70	13	29	28.85	29.80	09	BKN	028			10.00		14	1	11	56	21	32	29.49	30.47	
12	OVC	022			10.00	34	23	30	64	9	31	28.98	29.93	12	SCT	NC			10.00		17	-2	13	43	14	32	29.51	30.49	
15	OVC	030			10.00	35	22	30	59	10	34	29.03	29.98	15	SCT	NC			10.00		19	-1	15	41	15	32	29.48	30.47	
18	OVC	034			10.00	34	22	30	61	13	36	29.12	30.08	18	SCT	NC			10.00		18	1	14	47	15	29	29.46	30.45	
21	OVC	038			10.00	29	23	27	78	3	30	29.20	30.15	21	SCT	NC			10.00		15	2	12	56	12	29	29.49	30.48	
24	OVC	032			10.00	32	25	29	75	7	01	29.25	30.21	24	FEW	NC			10.00		12	2	10	64	10	28	29.45	30.44	
SUNRISE: 0608 MAR 16						SUNSET: 1804						SUNRISE: 0557 MAR 22						SUNSET: 1811											
03	OVC	026			10.00	29	22	27	75	10	01	29.30	30.26	03	CLR	NC			10.00		12	4	10	70	9	28	29.40	30.39	
06	CLR	NC			10.00	22	19	21	89	7	01	29.36	30.32	06	FEW	NC			10.00		12	5	10	73	8	26	29.38	30.36	
09	FEW	NC			10.00	31	20	27	64	12	07	29.41	30.38	09	FEW	NC			10.00		18	5	15	57	10	26	29.33	30.31	
12	CLR	NC			10.00	38	22	32	53	6	VR	29.44	30.41	12	FEW	NC			10.00		27	8	22	45	14	26	29.27	30.24	
15	CLR	NC			10.00	44	22	36	41	7	VR	29.39	30.36	15	CLR	NC			10.00		32	6	25	33	15	27	29.19	30.16	
18	CLR	NC			10.00	39	17	31	41	9	09	29.37	30.34	18	CLR	NC			10.00		32	8	25	36	12	27	29.14	30.11	
21	CLR	NC			10.00	30	19	26	64	7	09	29.39	30.37	21	CLR	NC			10.00		29	10	23	45	8	26	29.12	30.09	
24	CLR	NC			10.00	25	21	24	85	7	07	29.37	30.32	24	CLR	NC			10.00		28	9	23	45	7	24	29.08	30.04	
SUNRISE: 0606 MAR 17						SUNSET: 1805						SUNRISE: 0555 MAR 23						SUNSET: 1812											
03	BKN	120			10.00	27	25	26	92	6	06	29.31	30.26	03	CLR	NC			10.00		26	10	21	51	8	26	29.04	30.00	
06	BKN	110			10.00	30	24	28	79	9	07	29.26	30.22	06	CLR	NC			10.00		26	16	23	66	5	VR	29.01	29.97	
09	SCT	NC			10.00	35	22	30	59	17	09	29.22	30.18	09	CLR	NC			10.00		33	12	26	42	12	24	29.01	29.97	
12	BKN	080			9.00	37	27	33	67	13	12	29.19	30.16	12	CLR	NC			10.00		40	10	30	29	12	31	29.01	29.96	
15	OVC	014			4.00	34	31	33	89	10	04	29.10	30.06	15	CLR	NC			10.00		43	11	32	27	12	29	28.99	29.94	
18	OVC	012			7.00	32	30	31	92	7	06	29.10	30.06	18	CLR	NC			10.00		40	11	30	30	6	30	29.00	29.96	
21	OVC	024			7.00	32	30	31	92	6	05	29.13	30.08	21	CLR	NC			10.00		30	17	26	59	0	00	29.06	30.01	
24	OVC	022			5.00	32	30	31	92	0	00	29.14	30.09	24	CLR	NC			10.00		30	17	26	59	3	02	29.10	30.06	
SUNRISE: 0604 MAR 18						SUNSET: 1806						SUNRISE: 0554 MAR 24						SUNSET: 1813											
03	OVC	005			4.00	32	30	31	92	5	31	29.18	30.14	03	CLR	NC			10.00		24	18	22	77	0	00	29.10	30.05	
06	OVC	007			4.00	32	30	31	92	3	32	29.24	30.20	06	BKN	120			10.00		25	18	23	75	3	34	29.12	30.07	
09	BKN	013			10.00	35	30	33	82	6	34	29.30	30.25	09	SCT	NC			10.00		33	22	29	64	13	05	29.15	30.11	
12	BKN	021			10.00	39	28	35	65	6	VR	29.33	30.29	12	SCT	NC			10.00		37	18	30	46	13	06	29.19	30.14	
15	SCT	NC			10.00	43	28	37	56	5	VR	29.33	30.28	15	SCT	NC			10.00		35	19	29	52	20	04	29.19	30.15	
18	CLR	NC			10.00	38	29	34	70	9	04	29.33	30.29	18	FEW	NC			10.00		27								

OBSERVATIONS AT 3-HOURLY INTERVALS

MADISON, WI

MARCH 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: 0552 MAR 25 SUNSET: 1814																																
03	OVC	029			6.00	-SN		16	9	14	74	17	03	29.36	30.33	03	SCT	NC			10.00			33	22	29	64	7	18	29.07	30.02	
06	OVC	032			6.00	-SN		16	11	15	80	15	03	29.40	30.38	06	VV	011			1.00	-SN BR		32	30	31	92	6	27	29.11	30.06	
09	OVC	019			10.00	-SN		21	12	19	68	21	04	29.44	30.42	09	OVC	025			10.00			35	32	34	89	7	23	29.10	30.05	
12	CLR	NC			10.00			28	9	23	45	18	05	29.44	30.42	12	BKN	044			10.00			42	28	36	58	13	22	29.05	30.00	
15	FEW	NC			10.00			32	13	26	45	22	05	29.39	30.37	15	BKN	070			10.00			46	16	35	30	13	30	28.99	29.93	
18	OVC	035			10.00			28	15	24	58	15	07	29.42	30.40	18	BKN	060			10.00			38	17	31	43	10	29	29.03	29.98	
21	SCT	NC			10.00			24	16	22	71	14	05	29.41	30.40	21	SCT	NC			10.00			34	21	29	59	7	VR	29.04	30.00	
24	FEW	NC			10.00			19	16	18	88	5	34	29.38	30.35	24	OVC	039			10.00			33	18	28	54	8	29	29.07	30.02	
SUNRISE: 0550 MAR 26 SUNSET: 1815																																
03	BKN	034			10.00			20	17	19	89	8	36	29.32	30.29																	
06	OVC	024			10.00			19	17	18	92	10	36	29.33	30.30																	
09	OVC	014			7.00			25	19	23	78	15	02	29.32	30.28																	
12	BKN	020			10.00			31	18	27	59	14	36	29.30	30.26																	
15	FEW	NC			10.00			39	18	32	43	13	04	29.25	30.21																	
18	CLR	NC			10.00			34	18	29	52	9	06	29.26	30.22																	
21	CLR	NC			10.00			25	18	23	75	0	00	29.28	30.24																	
24	CLR	NC			10.00			20	17	19	89	0	00	29.28	30.25																	
SUNRISE: 0548 MAR 27 SUNSET: 1817																																
03	SCT	NC			10.00			21	19	20	92	0	00	29.27	30.23																	
06	FEW	NC			7.00			19	17	18	92	0	00	29.29	30.25																	
09	CLR	NC			10.00			36	22	31	57	6	21	29.29	30.25																	
12	CLR	NC			10.00			45	16	35	31	7	VR	29.25	30.21																	
15	CLR	NC			10.00			49	17	37	28	9	18	29.16	30.12																	
18	BKN	090			10.00			47	18	36	31	10	18	29.12	30.08																	
21	CLR	NC			10.00			40	24	34	53	12	17	29.12	30.07																	
24	SCT	NC			10.00			37	27	33	67	13	17	29.09	30.04																	
SUNRISE: 0547 MAR 28 SUNSET: 1818																																
03	OVC	110			8.00			35	24	31	64	12	16	29.03	29.97																	
06	OVC	090			8.00			35	26	32	70	20	16	28.94	29.88																	
09	OVC	047			4.00	-RA BR		36	32	34	86	14	18	28.92	29.86																	
12	OVC	011			5.00	BR		42	38	40	85	10	20	28.84	29.78																	
15	FEW	NC			8.00			50	38	44	63	10	19	28.84	29.77																	
18	FEW	NC			7.00			51	41	46	69	9	16	28.83	29.76																	
21	SCT	NC			7.00			42	37	40	82	5	20	28.86	29.80																	
24	CLR	NC			10.00			40	32	37	73	5	20	28.86	29.79																	
SUNRISE: 0545 MAR 29 SUNSET: 1819																																
03	CLR	NC			10.00			31	26	29	82	0	00	28.86	29.79																	
06	OVC	100			10.00			32	29	31	88	0	00	28.86	29.79																	
09	FEW	NC			7.00			41	35	38	79	0	00	28.86	29.80																	
12	BKN	070			10.00			50	31	42	48	6	18	28.82	29.75																	
15	SCT	NC			10.00			55	27	43	34	3	VR	28.75	29.68																	
18	SCT	NC			10.00			52	18	39	26	8	27	28.76	29.70																	
21	CLR	NC			10.00			45	19	35	35	6	VR	28.84	29.78																	
24	CLR	NC			10.00			40	24	34	53	6	27	28.88	29.81																	
SUNRISE: 0543 MAR 30 SUNSET: 1820																																
03	CLR	NC			10.00			37	25	32	62	6	23	28.90	29.83																	
06	FEW	NC			10.00			35	27	32	72	8	24	28.93	29.86																	
09	SCT	NC			10.00			40	28	35	63	10	27	28.98	29.91																	
12	SCT	NC			10.00			46	23	37	40	14	26	29.02	29.97																	
15	FEW	NC			10.00			50	18	38	28	10	28	29.01	29.96																	
18	FEW	NC			10.00			47	12	35	24	10	26	29.04	29.99																	
21	CLR	NC			10.00			40	18	32	41	6	VR	29.09	30.04																	
24	CLR	NC			10.00			32	20	28	61	0	00	29.09	30.04																	

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			26	19	24	73	29.12	30.08	8.07	8	1	36
02			26	19	24	75	29.12	30.08	7.80	8	1	36
03			25	19	23	79	29.11	30.07	7.36	8	2	34
04			25	19	24	79	29.11	30.07	7.92	8	1	2
05			25	20	24	80	29.11	30.07	7.99	8	2	33
06			25	20	23	82	29.12	30.08	7.32	8	1	35
07			26	20	24	81	29.13	30.09	7.26	9	2	34
08			27	21	25	77	29.14	30.10	7.16	11	1	33
09			28	20	26	73	29.14	30.10	8.11	11	2	35
10			30	20	27	67	29.15	30.11	8.38	11	2	32
11			32	20	28	63	29.15	30.11	8.64	11	3	31
12			33	20	29	61	29.14	30.10	8.52	10	2	32
13			34	20	30	59	29.12	30.08	8.29	11	2	31
14			35	20	30	57	29.11	30.07	8.18	11	2	34
15			36	20	31	55	29.10	30.06	8.35	11	3	35
16			36	20	30	55	29.10	30.06	8.23	11	2	1
17			35	20	30	58	29.10	30.06	8.34	11	2	36
18			33	20	29	61	29.11	30.07	8.31	10	2	1
19			32	20	28	65	29.12	30.08	8.32	9	2	3
20			31	20	27	68	29.12	30.08	8.28	9	1	2
21			30	21	27	71	29.13	30.09	8.31	7	1	5
22			29	21	26	72	29.13	30.09	8.36	8	1	5
23			29	21	26	73	29.12	30.08	8.34	8	1	4
24			27	20	25	75	29.12	30.08	8.11	7	1	36

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.

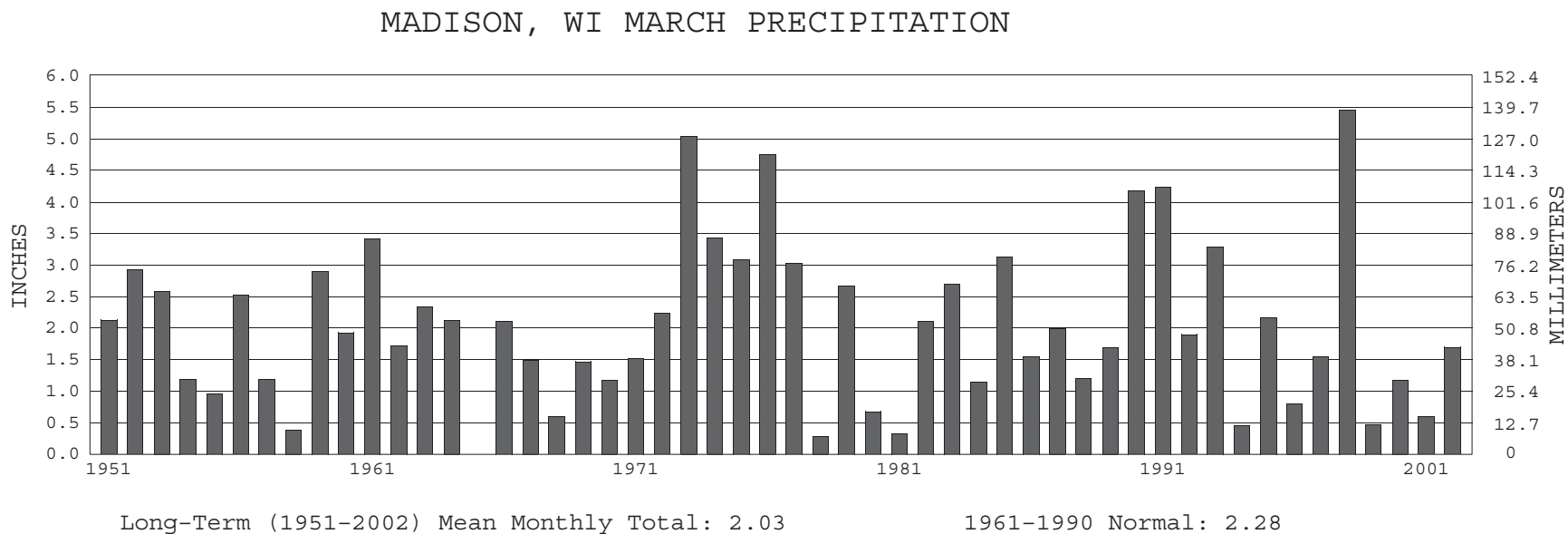
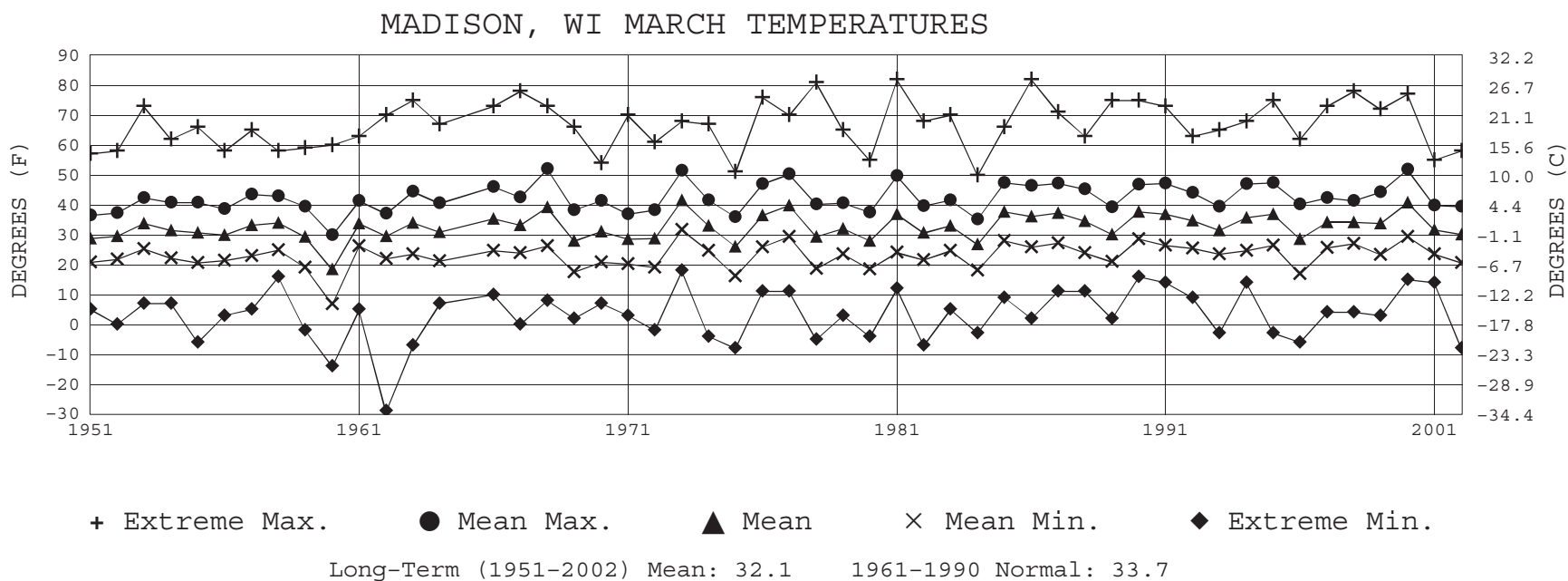
NC= No ceiling detected.

& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			26	19	24	73	29.12	30.08	8.07	8	1	36
02			26	19	24	75	29.12	30.08	7.80	8	1	36
03			25	19	23	79	29.11	30.07	7.36	8	2	34
04			25	19	24	79	29.11	30.07	7.92	8	1	2
05			25	20	24	80	29.11	30.07	7.99	8	2	33
06			25	20	23	82	29.12	30.08	7.32	8	1	35
07			26	20	24	81	29.13	30.09	7.26	9	2	34
08			27	21	25	77	29.14	30.10	7.16	11	1	33
09			28	20	26	73	29.14	30.10	8.11	11	2	35
10			30	20	27	67	29.15	30.11	8.38	11	2	32
11			32	20	28	63	29.15	30.11	8.64	11	3	31
12			33	20	29	61	29.14	30.10	8.52	10	2	32
13			34	20	30	59	29.12	30.08	8.29	11	2	31
14			35	20	30	57	29.11	30.07	8.18	11	2	34
15			36	20	31	55	29.10	30.06	8.35	11	3	35
16			36	20	30	55	29.10	30.06	8.23	11	2	1
17			35	20	30	58	29.10	30.06	8.34	11	2	36
18			33	20	29	61	29.11	30.07	8.31	10	2	1
19			32	20	28	65	29.12	30.08	8.32	9	2	3
20			31	20	27	68	29.12	30.08	8.28	9	1	2
21			30	21	27	71	29.13	30.09	8.31	7	1	5
22			29	21	26	72	29.13	30.09	8.36	8	1	5
23			29	21	26	73	29.12	30.08	8.34	8	1	4
24			27	20	25	75	29.12	30.08	8.11	7	1	3





MARCH 2002

MADISON, WI

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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