



FEBRUARY 2002

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

MINNEAPOLIS-ST.PAUL, MN

INTERNATIONAL AIRPORT (MSP)

Lat: 44°52' N Long: 93°13' W Elev (Ground): 871 Feet

Time Zone: CENTRAL WBAN: 14922 ISSN #:0198-2745

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	27	12	20	4	13	18	45	0	SN BR				T	29.33	30.28	5.0	29	7.9	20	34	16	35	01		
02	32	10	21	5	15	19	44	0	SN BR HZ				T	29.20	30.14	3.8	24	8.9	29	29	23	30	02		
03	24	9	17	0	11	17	48	0	SN BR				T	29.28	30.23	10.3	33	12.2	28	33	24	33	03		
04	20	1*	11*	-6	2	9	54	0					0.00	29.52	30.48	5.3	22	7.0	18	23	15	22	04		
05	31	12	22	5	13	19	43	0	BR HZ				0.00	29.34	30.29	4.3	22	4.7	16	23	14	23	05		
06	41	21	31	14	23	29	34	0	BR HZ				0.00	29.02	29.95	8.0	23	9.5	24	23	20	23	06		
07	41	27	34	17	28	33	31	0					0.00	29.02	29.94	4.9	22	8.0	18	16	16	16	07		
08	50	28	39	21	28	35	26	0					0.00	29.00	29.92	5.3	13	6.8	22	11	17	12	08		
09	39	33	36	18	31	34	29	0	RA SN BR HZ				0.02	29.08	30.00	13.2	05	16.0	33	03	26	02	09		
10	33	22	28	10	17	24	37	0					0.00	29.45	30.39	10.6	35	12.6	37	02	29	02	10		
11	43	21	32	13	21	29	33	0					0.00	28.95	29.88	10.9	23	17.0	45	31	36	29	11		
12	36	17	27	8	14	24	38	0	SN BR				T	29.14	30.06	14.8	31	15.4	47*	33	37*	31	12		
13	44	17	31	12	18	27	34	0					0.00	29.19	30.12	11.7	23	12.0	26	23	23	23	13		
14	47	33	40	20	25	34	25	0					0.00	28.81	29.72	9.7	22	12.3	36	22	29	22	14		
15	43	30	37	17	25	33	28	0	RA				T	28.95	29.86	11.0	29	12.3	29	28	23	27	15		
16	41	29	35	15	25	32	30	0					0.00	29.08	30.00	12.3	32	12.8	28	34	22	35	16		
17	44	22	33	12	23	30	32	0					0.00	29.19	30.12	9.8	17	10.5	28	19	22	16	17		
18	49	36	43	22	30	37	22	0	RA BR				0.05	28.90	29.81	9.6	16	10.4	29	19	21	18	18		
19	42	34	38	17	38	39	27	0	RA DZ SN BR				0.14	28.80	29.71	7.8	06	10.4	23	03	17	03	19		
20	34	28	31	9	27	29	34	0	SN BR				0.12	28.82	29.73	14.2	36	14.4	29	02	22	01	20		
21	33	21	27	5	17	24	38	0	SN BR				0.02	29.29	30.23	9.1	36	9.5	25	01	20	36	21		
22	37	15	26	3	21	26	39	0					0.00	29.24	30.18	6.3	16	6.5	17	15	15	14	22		
23	51*	36	44*	21	31	37	21	0	RA				T	28.87	29.78	4.6	19	8.7	21	03	17	03	23		
24	39	23	31	8	26	29	34	0	RA SN PL BR				0.04	29.00	29.91	15.6	02	16.2	33	35	28	03	24		
25	24	15	20	-4	10	17	45	0	SN				T	29.29	30.24	15.0	33	15.5	26	35	22	32	25		
26	20	10	15	-9	7	13	50	0	SN BR				0.02	29.23	30.18	15.7	33	15.8	31	36	26	33	26		
27	23	3	13	-12	1	12	52	0					0.00	29.17	30.12	5.9	29	8.1	21	33	15	33	27		
28	24	10	17	-8	7	16	48	0	SN				T	29.09	30.04	11.7	31	12.7	31	27	24	31	28		
< MONTHLY AVERAGES										TOTALS-->				0.41	29.12	30.05	3.5	31	11.2	<-- MONTHLY AVERAGES					
7.7										8.7		8.2		<-----DEPARTURE FROM NORMAL----->				-.38		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3					
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.14				DATE :19		SEA LEVEL PRESSURE				DATE TIME						
MONTHLY									GREATEST 24-HR SNOWFALL:				DATE :		MAXIMUM		: 30.58		04 1053						
TOTAL DEPARTURE									GREATEST SNOW DEPTH:				DATE :		MINIMUM		: 29.60		11 1653						
HEATING: 1021									NUMBER OF DAYS WITH ➔		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32 : 23		PRECIPITATION ≥ 0.01 INCH : 7										
COOLING: 0											MAXIMUM TEMP ≤ 32 : 9		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 2										
											THUNDERSTORMS : 0		HEAVY FOG : 0		SNOWFALL ≥ 1.0 INCH : :										

FEBRUARY 2002
MINNEAPOLIS-ST.PAUL, MN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MINNEAPOLIS—ST.PAUL, MN

FEBRUARY 2002

MSP

WBAN # 14922

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								01			T	
02													02												02			T	
03									T				03												03			T	
04													04												04			0.00	
05													05												05			0.00	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09		0.01	0.01			T	T					09			0.00	
10													10											T	10			0.02	
11													11												11			0.00	
12								T					12												12			T	
13													13												13			0.00	
14													14												14			0.00	
15													15							T					15			T	
16													16												16			0.00	
17													17												17			0.00	
18													18									T			18	T		0.05	
19	T	T	T										19	T	T	T			0.01	T		0.01	0.02	T	19	0.05		0.14	
20	0.01	T			T	T	T	T	T	T	T	T	20	T	T	T	T	T	T	T	T	T	T	T	20	0.01		0.12	
21	T	T											21												21	T		0.02	
22													22												22			0.00	
23				T	T	T							23												23			T	
24										T	T		24				T	T	T						24	T		0.04	
25												T	25	T								T		T	25			T	
26			T			T					T	T	26	T	T	T	T	T							26	T		0.02	
27		T	T	T	T	T							27												27			0.00	
28													28												28			T	

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

**MINNEAPOLIS-ST. PAUL, MN
FEBRUARY 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.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							2.50	10.00	
02							1.75	10.00	
03							2.00	10.00	
04							10.00	10.00	
05							6.00	10.00	
06							5.00	10.00	
07							8.00	10.00	
08							8.00	10.00	
09							2.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							1.25	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							4.00	10.00	
19							1.00	10.00	
20							.75	10.00	
21							1.75	10.00	
22							7.00	10.00	
23							10.00	10.00	
24							1.50	10.00	
25							3.00	10.00	
26							2.00	10.00	
27							10.00	10.00	
28							9.00	10.00	
MONTHLY AVGS							6.51	10.00	
<p align="center">SUNSHINE (MINUTES)</p> <p>Total: Possible:</p> <p> 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">28</p> <p align="center">MINIMUM VISIBILITY (MILES)</p> <p align="center"><=0.25 <=3.0 >=7.0</p> <p align="center">0 8 15</p>									

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 Off 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 Off 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: 0732				FEB 01		Sunset: 1721				Sunrise: 0725				FEB 07		Sunset: 1730													
03	SCT	NC			10.00		20	17	19	89	10	34	29.16	30.10	03	CLR	NC			10.00		33	28	31	82	8	31	29.04	29.96
06	SCT	NC			10.00		16	13	15	88	7	31	29.24	30.18	06	CLR	NC			10.00		30	25	28	82	3	28	29.07	29.99
09	CLR	NC			10.00		15	9	14	77	7	30	29.33	30.27	09	FEW	NC			9.00		31	27	29	85	7	23	29.11	30.03
12	CLR	NC			10.00		24	12	21	60	8	29	29.37	30.31	12	FEW	NC			10.00		38	29	34	70	7	22	29.08	30.01
15	CLR	NC			10.00		26	14	22	60	9	25	29.38	30.32	15	SCT	NC			10.00		40	28	35	63	10	16	28.99	29.90
18	CLR	NC			10.00		22	13	19	68	8	24	29.41	30.37	18	BKN	200			10.00		39	29	35	67	7	17	28.93	29.84
21	CLR	NC			9.00		17	11	15	77	7	21	29.41	30.37	21	CLR	NC			10.00		37	31	35	79	10	24	28.93	29.85
24	BKN	120			8.00		12	8	11	84	7	15	29.40	30.36	24	SCT	NC			10.00		35	27	32	72	5	24	28.97	29.88
Sunrise: 0731				FEB 02		Sunset: 1723				Sunrise: 0723				FEB 08		Sunset: 1731													
03	SCT	NC			8.00		11	7	10	84	6	12	29.35	30.29	03	CLR	NC			10.00		30	25	28	82	0	00	28.99	29.90
06	FEW	NC			7.00		10	6	9	84	9	15	29.28	30.22	06	CLR	NC			10.00		31	25	29	79	0	00	29.00	29.93
09	BKN	200			5.00	HZ	14	9	13	80	8	15	29.21	30.16	09	CLR	NC			10.00		32	26	30	79	0	00	29.04	29.96
12	BKN	180			8.00		28	17	25	63	12	22	29.13	30.07	12	FEW	NC			10.00		44	29	38	55	5	14	29.03	29.96
15	OVC	150			10.00		30	20	27	66	10	28	29.09	30.03	15	SCT	NC			10.00		49	30	41	48	10	12	29.00	29.91
18	OVC	021			10.00		32	26	30	79	7	27	29.12	30.06	18	OVC	180			10.00		46	30	39	54	15	10	28.99	29.90
21	FEW	NC			10.00		27	21	25	78	12	30	29.15	30.09	21	OVC	250			10.00		42	32	38	68	12	10	28.96	29.87
24	CLR	NC			10.00		22	18	21	85	3	25	29.17	30.10	24	OVC	200			8.00		38	30	35	73	16	12	28.99	29.89
Sunrise: 0730				FEB 03		Sunset: 1724				Sunrise: 0722				FEB 09		Sunset: 1733													
03	SCT	NC			9.00		21	18	20	88	9	24	29.16	30.10	03	BKN	150			7.00		37	30	34	76	14	11	28.95	29.85
06	FEW	NC			10.00		21	18	20	88	6	27	29.14	30.07	06	OVC	150			6.00	HZ	36	30	34	79	14	10	28.96	29.87
09	OVC	012			8.00		21	18	20	88	14	34	29.18	30.12	09	OVC	150			4.00	HZ	35	30	33	82	12	07	29.02	29.94
12	BKN	023			10.00		23	14	20	68	17	31	29.25	30.19	12	OVC	015			3.00	HZ	38	32	35	79	14	07	29.07	29.99
15	SCT	NC			10.00		21	8	18	57	20	33	29.27	30.22	15	OVC	011			3.00	BR	36	33	35	89	16	03	29.08	30.01
18	CLR	NC			10.00		16	4	13	59	14	32	29.39	30.33	18	OVC	011			3.00	-SN BR	34	32	33	92	18	03	29.15	30.08
21	CLR	NC			10.00		12	0	10	58	16	36	29.47	30.43	21	OVC	011			7.00		34	31	33	89	17	02	29.23	30.16
24	CLR	NC			10.00		9	-1	7	64	10	35	29.54	30.50	24	OVC	013			10.00		33	29	31	85	25	02	29.28	30.20
Sunrise: 0729				FEB 04		Sunset: 1725				Sunrise: 0721				FEB 10		Sunset: 1734													
03	CLR	NC			10.00		5	-2	4	72	7	32	29.57	30.54	03	OVC	015			10.00		31	26	29	82	22	36	29.30	30.23
06	CLR	NC			10.00		3	-2	2	79	0	00	29.58	30.55	06	CLR	NC			10.00		27	18	24	69	17	36	29.38	30.31
09	CLR	NC			10.00		4	-1	3	80	5	VR	29.60	30.58	09	FEW	NC			10.00		24	14	21	65	15	35	29.48	30.43
12	CLR	NC			10.00		14	2	11	58	7	22	29.58	30.54	12	FEW	NC			10.00		29	12	24	49	13	36	29.51	30.45
15	CLR	NC			10.00		20	3	16	48	10	22	29.48	30.45	15	FEW	NC			10.00		31	12	25	45	13	34	29.51	30.45
18	FEW	NC			10.00		18	4	15	54	9	20	29.45	30.42	18	FEW	NC			10.00		26	14	22	60	8	30	29.53	30.47
21	SCT	NC			10.00		14	3	12	61	10	21	29.41	30.38	21	CLR	NC			10.00		24	15	21	68	3	22	29.51	30.46
24	FEW	NC			10.00		14	5	12	67	13	22	29.40	30.35	24	CLR	NC			10.00		22	16	20	78	6	18	29.43	30.38
Sunrise: 0727				FEB 05		Sunset: 1727				Sunrise: 0719				FEB 11		Sunset: 1735													
03	CLR	NC			10.00		14	6	12	71	8	24	29.38	30.33	03	SCT	NC			10.00		23	17	21	78	7	15	29.34	30.28
06	CLR	NC			10.00		13	8	12	81	5	21	29.38	30.33	06	SCT	NC			10.00		24	18	22	77	9	17	29.19	30.13
09	BKN	011			6.00	HZ	16	10	14	77	0	00	29.42	30.38	09	OVC	180			10.00		31	15	26	52	20	18	29.00	29.93
12	FEW	NC			9.00		24	17	22	75	0	00	29.40	30.36	12	OVC	200			10.00		37	18	30	46	14	21	28.86	29.78
15	CLR	NC			10.00		29	15	25	56	3	17	29.34	30.29	15	OVC	250			10.00		39	24	33	55	18	24	28.75	29.67
18	FEW	NC			10.00		28	17	25	63	6	24	29.32	30.26	18	BKN	250			10.00		38	27	34	65	14	23	28.69	29.61
21	FEW	NC			9.00		25	20	23	81	7	20	29.24	30.18	21	OVC	040			10.00		40	30	36	68	30	30	28.77	29.68
24	CLR	NC			6.00	BR	22	19	21	89	7	20	29.20	30.14	24	OVC	027			10.00		36	25	32	64	20	32	28.86	29.77
Sunrise: 0726				FEB 06		Sunset: 1728				Sunrise: 0718				FEB 12		Sunset: 1737													
03	CLR	NC			6.00	BR	21	18	20	88	5	19	29.14	30.08	03	OVC	032			10.00		33	22	29	64	13	32	28.93	29.84
06	CLR	NC			6.00	HZ	23	18	21	81	6	20	29.09	30.03	06	OVC	046			10.00		31	23	28	72	10	27	28.96	29.88
09	FEW	NC			6.00	HZ	26	19	24	75	9	20	29.05	29.98	09	SCT	NC			10.00		32	18	27	56	29	31	29.00	29.91
12	CLR	NC			9.00		36	22	31	57	16	23	29.00	29.92	12	FEW	NC			10.00		30	10	24	43	21	31	29.13	30.06
15	CLR	NC			9.00		40	26	34	58	15	24	28.94	29.86	15	CLR	NC			10.00		30	7	23	38	21	32	29.23	30.16
18	FEW	NC			10.00		38	30	35	73	8	23	28.95	29.87	18	CLR	NC			10.00		25	8	20	48	10	31	29.30	30.24
21	CLR	NC			10.00		40	26	34	58	10	26	28.97	29.88	21	CLR	NC			10.00		21	8	18	57	9	30	29.35	30.29
24	CLR	NC			10.00		38	28	34	68	12	30	29.00	29.93	24	CLR	NC			10.00		19	8	16	62	6	25	29.37	30.31

OBSERVATIONS AT 3-HOURLY INTERVALS

MINNEAPOLIS-ST. PAUL, MN

FEBRUARY 2002

MSP

WBAN # 14922

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: 0716 FEB 13 SUNSET: 1738						SUNRISE: 0707 FEB 19 SUNSET: 1747																							
03	OVC	085			10.00	19	11	17	71	9	23	29.35	30.29	03	OVC	005			4.00	BR	41	39	40	93	10	11	28.83	29.73	
06	FEW	NC			10.00	20	12	18	71	8	20	29.30	30.24	06	OVC	005			4.00	BR	41	39	40	93	12	11	28.81	29.71	
09	CLR	NC			10.00	27	18	24	69	13	23	29.25	30.19	09	OVC	003			1.75	BR	41	40	41	96	8	08	28.81	29.72	
12	CLR	NC			10.00	37	18	30	46	13	23	29.21	30.14	12	OVC	003			1.00	-DZ BR	40	40	40	100	10	04	28.81	29.72	
15	FEW	NC			10.00	44	18	34	35	18	24	29.12	30.05	15	OVC	005			1.50	-RA BR	39	38	39	96	10	04	28.77	29.68	
18	FEW	NC			10.00	41	21	34	45	16	22	29.08	30.00	18	OVC	007			4.00	-DZ BR	40	38	39	93	8	02	28.78	29.69	
21	BKN	250			10.00	38	24	33	57	14	22	29.05	29.97	21	OVC	007			10.00	-RA	36	34	35	93	15	02	28.79	29.70	
24	SCT	NC			10.00	36	27	32	70	10	21	29.00	29.92	24	OVC	007			9.00	-SN	34	33	34	97	10	01	28.76	29.67	
SUNRISE: 0715 FEB 14 SUNSET: 1740						SUNRISE: 0706 FEB 20 SUNSET: 1748																							
03	CLR	NC			10.00	35	25	31	67	10	19	28.93	29.84	03	OVC	009			10.00		34	32	33	92	13	01	28.74	29.65	
06	OVC	150			10.00	37	23	32	57	12	19	28.83	29.73	06	OVC	010			1.50	-SN BR	32	29	31	88	12	36	28.75	29.66	
09	BKN	200			10.00	38	24	33	57	15	19	28.78	29.69	09	OVC	016			2.50	-SN BR	30	27	29	88	16	01	28.76	29.67	
12	BKN	200			10.00	43	24	36	47	22	22	28.77	29.67	12	OVC	016			1.00	-SN	30	25	28	82	14	36	28.78	29.70	
15	BKN	180			10.00	46	24	37	42	15	23	28.72	29.63	15	OVC	019			4.00	-SN	29	24	27	82	15	36	28.79	29.71	
18	BKN	250			10.00	42	26	36	53	5	25	28.75	29.66	18	OVC	021			1.50	-SN BR	28	25	27	88	16	35	28.87	29.79	
21	OVC	250			10.00	39	29	35	67	8	30	28.79	29.70	21	OVC	022			2.00	-SN BR	29	27	28	92	15	36	28.94	29.85	
24	SCT	NC			10.00	37	26	33	65	13	32	28.85	29.76	24	OVC	016			3.00	-SN BR	28	26	27	92	12	36	29.00	29.92	
SUNRISE: 0713 FEB 15 SUNSET: 1741						SUNRISE: 0704 FEB 21 SUNSET: 1749																							
03	BKN	095			10.00	34	25	31	70	16	33	28.92	29.83	03	OVC	018			10.00		29	23	27	78	15	01	29.05	29.98	
06	BKN	033			10.00	32	22	28	66	14	33	28.99	29.90	06	OVC	018			10.00		25	18	23	75	15	01	29.17	30.10	
09	SCT	NC			10.00	32	23	29	69	10	30	29.05	29.97	09	BKN	200			10.00		22	14	20	71	15	01	29.28	30.22	
12	SCT	NC			10.00	39	25	34	57	14	26	29.00	29.92	12	SCT	NC			10.00		27	16	24	63	8	36	29.35	30.28	
15	OVC	200			10.00	43	24	36	47	14	28	28.94	29.85	15	FEW	NC			10.00		32	16	27	52	10	35	29.38	30.32	
18	OVC	060			10.00	42	25	35	51	9	26	28.93	29.85	18	FEW	NC			10.00		29	14	24	54	6	35	29.41	30.36	
21	OVC	090			10.00	41	25	35	53	10	26	28.90	29.81	21	CLR	NC			10.00		25	17	23	72	0	00	29.42	30.37	
24	BKN	110			10.00	36	26	32	67	8	27	28.87	29.78	24	CLR	NC			10.00		22	18	21	85	0	00	29.40	30.35	
SUNRISE: 0712 FEB 16 SUNSET: 1742						SUNRISE: 0702 FEB 22 SUNSET: 1751																							
03	BKN	090			10.00	36	27	32	70	14	30	28.90	29.80	03	CLR	NC			10.00		18	16	17	92	5	16	29.39	30.33	
06	OVC	037			10.00	36	28	33	73	15	32	28.98	29.89	06	BKN	200			9.00		16	15	16	96	0	00	29.38	30.32	
09	SCT	NC			10.00	36	25	32	64	15	33	29.06	29.98	09	OVC	200			7.00		22	17	20	82	3	14	29.35	30.29	
12	OVC	033			10.00	38	26	33	62	12	30	29.11	30.04	12	OVC	200			10.00		32	20	28	61	8	14	29.28	30.22	
15	BKN	046			10.00	39	23	33	53	17	31	29.12	30.04	15	OVC	200			10.00		36	24	32	62	10	17	29.19	30.12	
18	BKN	065			10.00	39	24	33	55	12	30	29.15	30.07	18	OVC	080			10.00		35	27	32	72	13	15	29.12	30.06	
21	FEW	NC			10.00	35	23	31	61	10	32	29.20	30.13	21	OVC	090			10.00		35	27	32	72	12	17	29.05	29.98	
24	CLR	NC			10.00	30	21	27	69	5	35	29.26	30.19	24	OVC	080			10.00		37	26	33	65	9	17	29.00	29.93	
SUNRISE: 0710 FEB 17 SUNSET: 1744						SUNRISE: 0701 FEB 23 SUNSET: 1752																							
03	CLR	NC			10.00	27	20	25	75	0	00	29.28	30.21	03	OVC	070			10.00		36	28	33	73	9	16	28.93	29.84	
06	CLR	NC			10.00	23	20	22	88	0	00	29.29	30.22	06	BKN	085			10.00		38	30	35	73	13	17	28.87	29.78	
09	CLR	NC			10.00	29	21	26	72	8	16	29.31	30.24	09	OVC	250			10.00		39	30	35	70	12	19	28.83	29.75	
12	FEW	NC			10.00	37	21	31	52	12	17	29.28	30.20	12	OVC	200			10.00		45	32	39	61	13	23	28.82	29.73	
15	FEW	NC			10.00	43	23	35	45	17	15	29.16	30.09	15	OVC	250			10.00		50	32	42	50	8	21	28.81	29.71	
18	OVC	250			10.00	40	27	35	60	16	16	29.09	30.02	18	OVC	200			10.00		50	31	42	48	0	00	28.87	29.77	
21	BKN	250			10.00	38	27	34	65	14	16	29.02	29.95	21	SCT	NC			10.00		42	33	38	71	6	34	28.91	29.82	
24	BKN	120			10.00	41	26	35	55	20	19	28.99	29.90	24	OVC	150			10.00		40	31	36	70	13	03	28.94	29.85	
SUNRISE: 0709 FEB 18 SUNSET: 1745						SUNRISE: 0659 FEB 24 SUNSET: 1754																							
03	SCT	NC			10.00	40	26	34	58	14	18	28.93	29.84	03	OVC	090			10.00		36	30	34	79	15	02	28.96	29.87	
06	SCT	NC			10.00	39	25	34	57	10	17	28.90	29.81	06	OVC	032			10.00		34	27	31	76	16	03	28.99	29.89	
09	BKN	250			10.00	39	26	34	60	10	18	28.90	29.81	09	OVC	017			10.00		34	28	32	79	14	04	28.98	29.89	
12	OVC	200			10.00	48	28	40	46	10	15	28.88	29.79	12	OVC	011			10.00		32	28	30	85	21	02	28.89	29.80	
15	OVC	180			10.00	47	30	40	52	9	15	28.86	29.76	15	OVC	015			10.00		30	25	28	82	16	01	28.92	29.84	
18	OVC	044			10.00	42	32	38	68	8	15	28.90	29.81	18	OVC	036			3.00	-SN BR	27	23	26	85	17	01	29.02	29.95	
21	OVC	060			10.00	41	33	38	74	9	13	28.89	29.80	21	OVC	019			10.00		26	19	24	75	20	36	29.10	30.03	
24	OVC	038			4.00	40	38	39																					

MINNEAPOLIS-ST. PAUL, MN

FEBRUARY 2002

MSP

WBAN # 14922

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 OFF	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 OFF	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	Dry Bulb		Dew Point	Wet Bulb	Speed (MPH)	DIRECTION TENS OF DEG	Station	Sea Level
03	SCT	NC			10.00																								
06	BKN	032			10.00																								
09	BKN	200			10.00																								
12	OVC	021			9.00	-SN																							
15	BKN	026			10.00																								
18	OVC	075			10.00																								
21	OVC	080			10.00																								
24	OVC	037			3.00	-SN																							
SUNRISE: 0657 FEB 25 SUNSET: 1755																													
03	OVC	021			5.00	-SN BR																							
06	OVC	020			7.00	-SN																							
09	OVC	013			4.00	-SN																							
12	OVC	028			8.00	-SN																							
15	OVC	025			6.00	-SN																							
18	OVC	055			10.00																								
21	SCT	NC			10.00																								
24	FEW	NC			10.00																								
SUNRISE: 0656 FEB 26 SUNSET: 1756																													
03	CLR	NC			10.00																								
06	CLR	NC			10.00																								
09	CLR	NC			10.00																								
12	FEW	NC			10.00																								
15	BKN	250			10.00																								
18	BKN	250			10.00																								
21	BKN	250			10.00																								
24	OVC	250			10.00																								
SUNRISE: 0654 FEB 27 SUNSET: 1758																													
03	CLR	NC			10.00																								
06	CLR	NC			10.00																								
09	CLR	NC			10.00																								
12	FEW	NC			10.00																								
15	BKN	250			10.00																								
18	BKN	250			10.00																								
21	BKN	250			10.00																								
24	OVC	250			10.00																								
SUNRISE: 0652 FEB 28 SUNSET: 1759																													
03	BKN	050			10.00																								
06	SCT	NC			10.00																								
09	FEW	NC			10.00																								
12	FEW	NC			10.00																								
15	BKN	200			10.00																								
18	BKN	200			10.00																								
21	SCT	NC			10.00																								
24	SCT	NC			10.00																								
SUNRISE: FEB 29 SUNSET:																													
SUNRISE: FEB 30 SUNSET:																													

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.

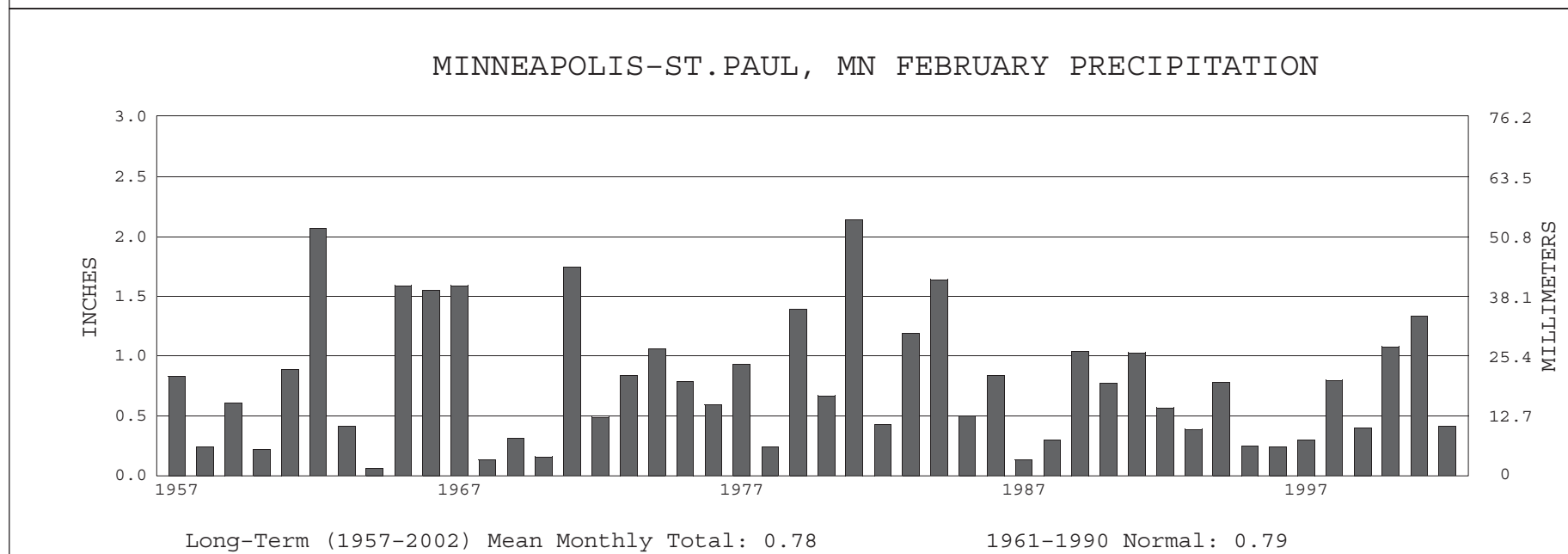
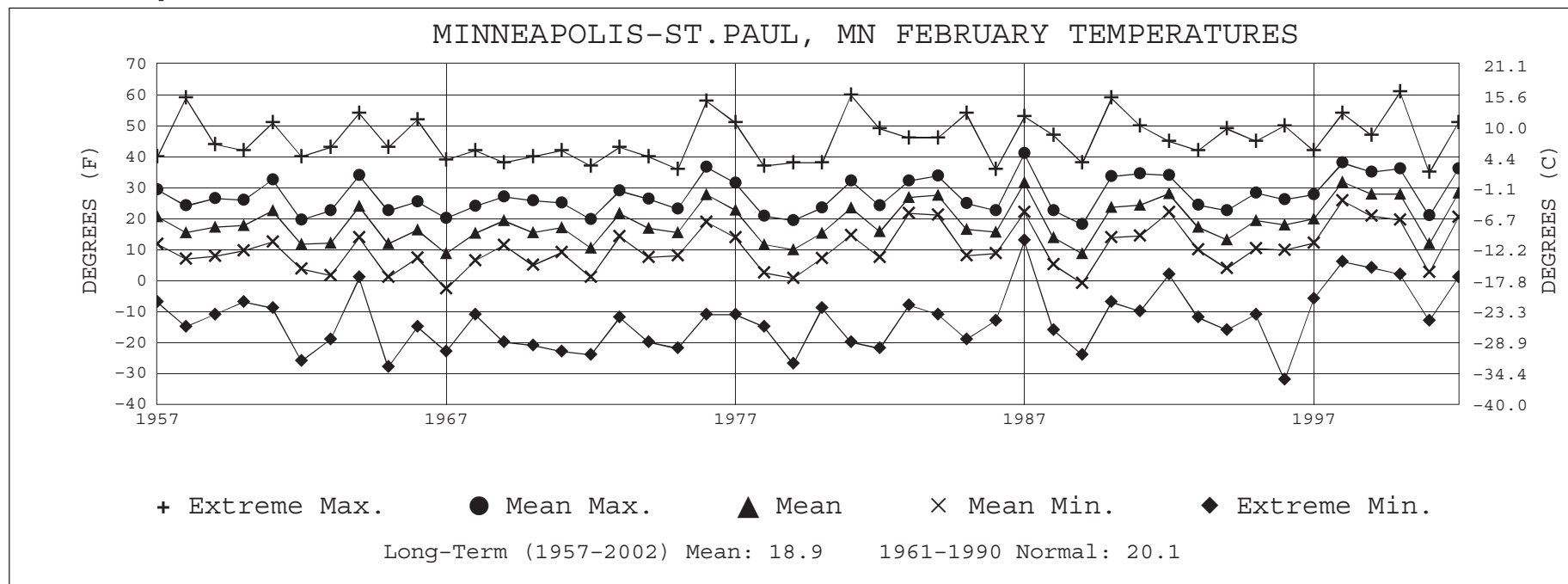
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.

NC= No ceiling detected.

& = Original observation contained additional weather elements.

See page 3 for additional notes.

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			27	20	25	76	29.12	30.04	8.81	10	3	32
02			26	20	24	77	29.11	30.04	9.04	10	3	33
03			26	20	24	77	29.11	30.04	9.25	10	3	33
04			26	19	24	78	29.11	30.04	9.07	10	3	33
05			25	19	23	78	29.11	30.04	8.86	10	3	34
06			25	18	23	78	29.12	30.04	8.95	9	2	33
07			24	18	22	78	29.12	30.05	8.52	10	2	32
08			25	18	23	77	29.13	30.06	8.40	11	3	31
09			26	18	23	73	29.13	30.06	8.33	11	3	32
10			28	19	25	69	29.13	30.06	8.62	11	3	30
11			30	19	26	64	29.13	30.06	8.96	11	4	30
12			32	19	28	61	29.12	30.05	8.86	12	5	28
13			33	19	28	59	29.11	30.04	9.00	13	5	29
14			34	19	29	58	29.10	30.03	8.91	14	5	28
15			34	20	29	57	29.09	30.02	9.05	14	5	29
16			34	20	29	59	29.10	30.02	8.80	13	4	29
17			33	21	29	61	29.10	30.03	9.25	12	4	28
18			32	20	28	64	29.11	30.04	8.98	11	4	29
19			31	20	28	65	29.11	30.04	9.38	11	4	30
20			30	20	27	67	29.12	30.05	9.41	12	5	31
21			29	20	26	69	29.12	30.05	9.54	12	5	30
22			29	20	26	70	29.12	30.06	9.43	11	5	30
23			28	20	25	72	29.13	30.06	9.25	10	4	32
24			27	19	25	73	29.13	30.06	8.96	11	3	32





FEBRUARY 2002

MINNEAPOLIS—ST. PAUL, MN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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