



MAY 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	53	39	46	-8	30	40	19	0					0.00	28.90	29.80	4.3	35	7.2	37	32	29	33	01										
02	50	31*	41*	-13	20	33	24	0	SN				T	28.92	29.83	12.5	30	13.3	33	30	28	29	02										
03	65	33	49	-5	27	40	16	0					0.00	29.11	30.02	10.7	16	11.7	25	16	22	18	03										
04	62	42	52	-3	37	46	13	0	RA				T	29.14	30.04	3.7	23	11.1	29	32	24	32	04										
05	76	38	57	2	42	49	8	0	TSRA RA BR				0.29	29.07	29.98	7.9	15	11.6	37	18	31	19	05										
06	57	44	51	-5	44	47	14	0	DZ BR				T	28.95	29.85	9.8	01	10.5	25	03	16	02	06										
07	51	39	45	-11	38	42	20	0	RA				0.23	29.20	30.11	11.1	06	11.9	30	09	24	08	07										
08	52	43	48	-9	44	46	17	0	TSRA RA DZ BR				1.28	28.84	29.74	7.6	06	12.4	29	02	22	11	08										
09	48	40	44	-13	31	38	21	0	RA				T	28.91	29.82	18.7	28	19.0	47*	28	36*	28	09										
10	61	36	49	-8	29	41	16	0					0.00	29.32	30.23	5.2	24	7.4	23	31	18	27	10										
11	53	43	48	-10	39	44	17	0	RA DZ BR				0.22	29.24	30.15	11.9	10	13.2	29	12	23	11	11										
12	50	41	46	-12	38	42	19	0	DZ BR				T	29.23	30.15	9.9	01	10.3	28	02	18	02	12										
13	63	39	51	-7	40	46	14	0	TSRA GR RA				0.12	29.19	30.10	8.8	32	10.7	32	31	26	35	13										
14	64	42	53	-6	38	46	12	0					0.00	29.17	30.08	2.1	13	7.5	18	14	15	14	14										
15	76	53	65	6	47	55	0	0	RA				T	28.85	29.74	7.5	21	12.6	32	23	25	23	15										
16	60	47	54	-5	36	46	11	0					0.00	29.11	30.00	10.9	36	11.5	31	03	22	02	16										
17	56	39	48	-12	28	40	17	0					0.00	29.33	30.24	6.8	03	8.3	26	02	16	01	17										
18	57	41	49	-11	25	40	16	0					0.00	29.34	30.25	8.5	35	8.9	24	36	17	33	18										
19	58	40	49	-11	24	39	16	0					0.00	29.41	30.33	8.0	02	9.7	29	03	21	03	19										
20	60	35	48	-13	27	40	17	0					0.00	29.51	30.43	1.9	06	5.6	21	03	16	02	20										
21	68	45	57	-4	30	45	8	0					0.00	29.32	30.23	11.4	19	12.0	29	18	22	18	21										
22	76	49	63	1	46	54	2	0	RA BR				0.25	28.94	29.83	15.1	18	16.2	40	18	30	21	22										
23	67	48	58	-4	44	51	7	0					0.00	28.93	29.82	12.1	29	15.7	29	27	25	27	23										
24	57	43	50	-12	34	43	15	0					0.00	29.22	30.13	6.7	03	8.4	21	03	17	03	24										
25	66	47	57	-6	44	50	8	0	RA BR				0.01	29.05	29.95	8.1	16	9.0	20	18	17	17	25										
26	71	56	64	1	51	56	1	0	TSRA RA				0.18	29.00	29.89	5.5	24	7.6	23	26	18	25	26										
27	77	55	66	3	55	61	0	1	RA				0.04	29.06	29.95	6.3	11	7.2	18	09	15	09	27										
28	75	60	68	5	59	62	0	3	TS TSRA RA BR				0.18	29.01	29.90	5.6	14	7.0	20	26	16	25	28										
29	84	59	72	9	61	65	0	7	RA BR				0.03	28.91	29.79	1.7	18	5.0	21	25	18	26	29										
30	91*	63	77*	13	55	64	0	12					0.00	28.78	29.65	8.6	27	11.1	31	28	24	28	30										
31	86	64	75	11	48	60	0	10					0.00	28.87	29.75	7.4	29	8.5	24	27	20	28	31										
64.2										45.0	54.6	■ ■	39.1	47.5	11.2	1.1	< MONTHLY AVERAGES		TOTALS->				2.83	29.09	29.99	0.7	02	10.4	<- MONTHLY AVERAGES				
-5.9										-3.5	-4.7	■ ■	<-----DEPARTURE FROM NORMAL----->										- .41	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.38			DATE :07-08			SEA LEVEL PRESSURE				DATE TIME														
MONTHLY									GREATEST 24-HR SNOWFALL:			DATE :			MAXIMUM				: 30.52				20 0753										
TOTAL DEPARTURE									GREATEST SNOW DEPTH:			DATE :			MINIMUM				: 29.54				30 1753										
SEASON TO DATE									NUMBER OF DAYS WITH ➡			MAXIMUM TEMP ≥ 90: 1			MINIMUM TEMP ≤ 32: 1			PRECIPITATION ≥ 0.01 INCH : 11															
HEATING: 348 104									MAXIMUM TEMP ≤ 32: 0			MINIMUM TEMP ≤ 0: 0			PRECIPITATION ≥ 0.10 INCH : 8																		
COOLING: 33 -8									THUNDERSTORMS: 5			HEAVY FOG: 0			SNOWFALL ≥ 1.0 INCH : :																		
6815 -1125									51 6																								

MAY 2002
MINNEAPOLIS-ST.PAUL, MN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MINNEAPOLIS–ST.PAUL, MN

MAY 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													01												01			0.00	
02											T	T	02												02			T	
03													03												03			0.00	
04										T			04												04			T	
05													05							0.03	0.11	0.15	T		05			0.29	
06						T	T						06												06			T	
07													07	T	0.10	T			T						07			0.23	
08	0.21	0.07	0.18	0.20	T								08		T	0.02	0.19	0.07	0.27	0.02	T	0.01		0.02	08			1.28	
09	T												09		T	T	T		T	0.05	0.01	0.01			09			T	
10													10												10			0.00	
11									T	T	T	0.05	11	0.01	T	0.02	0.02	0.01	0.01	0.02	0.05	0.03	T	T	11			0.22	
12	T	T	T	T	T	T		0.02					12												12			T	
13													13	0.09	0.01	T	T								13			0.12	
14													14												14			0.00	
15				T	T	T	T						15				T	T							15			T	
16													16												16			0.00	
17													17												17			0.00	
18													18												18			0.00	
19													19												19			0.00	
20													20												20			0.00	
21													21												21			0.00	
22													22									0.05	0.20		22			0.25	
23													23												23			0.00	
24													24												24			0.00	
25						T	0.01	T					25												25			0.01	
26												T	26		T	T	0.15	0.03	T	T	T				26			0.18	
27				0.04	T								27												27			0.04	
28													28			0.10	0.07	0.01							28			0.18	
29													29									T	0.03		29			0.03	
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)	.08	.13	.15	.17	.20	.27	.31	.36	.39	.39	.46	.56
Ending Date	26	08	08	08	22	08	08	08	08	08	08	08
Ending Time (Hour/Min)	1513	1721	1727	1730	2118	1757	1812	1804	1812	1812	1746	1804

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
MAY 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.

[illegible]

OBSERVATIONS AT 3-HOURLY INTERVALS

MINNEAPOLIS-ST. PAUL, MN
MAY 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 Okta		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 Okta		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
			SUNRISE: 0503		MAY 01			SUNSET: 1917									SUNRISE: 0454		MAY 07								
03	SCT	NC		10.00		42	36	39	79	0	00	28.96	29.85	03	CLR	NC		10.00		40	35	38	83	12	02	29.16	30.07
06	BKN	150		10.00		41	36	39	82	5	03	28.97	29.87	06	BKN	032		10.00		41	34	38	76	10	04	29.24	30.15
09	BKN	150		10.00		49	31	41	50	7	07	28.95	29.84	09	OVC	024		10.00		46	35	41	66	6	VR	29.32	30.23
12	BKN	200		10.00		51	27	41	39	3	06	28.91	29.81	12	OVC	150		10.00		51	38	45	61	15	07	29.26	30.18
15	OVC	180		10.00		53	26	42	35	5	VR	28.84	29.74	15	OVC	095		10.00		47	41	44	80	13	08	29.20	30.11
18	OVC	150		10.00		52	27	41	38	7	32	28.80	29.70	18	OVC	080		10.00	-RA	47	41	44	80	12	05	29.18	30.09
21	OVC	060		10.00		43	29	37	58	15	34	28.90	29.80	21	OVC	085		10.00		47	42	45	83	18	08	29.08	29.99
24	FEW	NC		10.00		39	23	33	53	15	33	28.90	29.81	24	OVC	037		9.00	RA	46	43	45	89	12	08	29.05	29.97
			SUNRISE: 0501		MAY 02			SUNSET: 1918									SUNRISE: 0453		MAY 08								
03	FEW	NC		10.00		34	21	29	59	8	31	28.92	29.83	03	OVC	033		5.00	TSRA BR	45	44	45	97	15	09	28.99	29.89
06	SCT	NC		10.00		33	24	30	70	7	27	28.92	29.83	06	OVC	027		10.00		43	40	42	89	17	09	28.96	29.86
09	BKN	090		10.00		42	20	34	41	18	30	28.90	29.80	09	OVC	017		10.00		46	41	44	83	13	10	28.90	29.80
12	BKN	049		10.00		44	24	36	45	17	29	28.89	29.79	12	OVC	017		10.00		50	44	47	80	13	09	28.81	29.71
15	FEW	NC		10.00		49	15	36	26	22	31	28.88	29.79	15	OVC	027		3.00	-TSRA BR	50	47	48	89	10	09	28.72	29.62
18	FEW	NC		10.00		49	18	37	29	14	30	28.91	29.82	18	OVC	020		2.50	TSRA BR	49	48	48	97	10	04	28.70	29.60
21	FEW	NC		10.00		43	18	34	37	8	29	28.99	29.90	21	OVC	005		8.00		46	45	46	96	16	32	28.72	29.63
24	CLR	NC		10.00		37	20	31	50	8	36	29.04	29.96	24	OVC	013		10.00	-DZ	45	43	44	93	13	30	28.81	29.71
			SUNRISE: 0460		MAY 03			SUNSET: 1919									SUNRISE: 0452		MAY 09								
03	CLR	NC		10.00		36	23	31	59	5	08	29.09	30.01	03	CLR	NC		10.00		42	36	39	79	12	26	28.81	29.71
06	BKN	100		10.00		35	25	31	67	6	14	29.15	30.07	06	BKN	150		10.00		41	32	37	70	18	28	28.79	29.69
09	FEW	NC		10.00		45	24	37	44	12	14	29.17	30.08	09	OVC	032		10.00		41	30	36	65	23	28	28.84	29.74
12	FEW	NC		10.00		56	23	42	28	14	14	29.14	30.05	12	OVC	050		10.00		45	30	39	56	29	27	28.87	29.78
15	CLR	NC		10.00		63	27	47	26	18	16	29.09	30.00	15	BKN	046		10.00	-RA	46	31	40	56	30	27	28.91	29.81
18	FEW	NC		10.00		64	31	49	29	16	19	29.06	29.97	18	OVC	055		10.00		47	29	39	50	20	28	28.98	29.88
21	FEW	NC		10.00		58	32	46	38	14	15	29.08	29.98	21	FEW	NC		10.00		44	30	38	58	18	29	29.07	29.99
24	CLR	NC		10.00		53	32	44	45	15	16	29.08	29.99	24	FEW	NC		10.00		41	32	37	70	7	26	29.14	30.05
			SUNRISE: 0458		MAY 04			SUNSET: 1921									SUNRISE: 0450		MAY 10								
03	CLR	NC		10.00		52	32	43	47	15	17	29.07	29.97	03	CLR	NC		10.00		38	32	36	79	8	23	29.18	30.10
06	SCT	NC		10.00		51	32	43	48	14	17	29.06	29.96	06	CLR	NC		10.00		37	30	34	76	7	24	29.26	30.18
09	BKN	150		10.00		61	39	50	44	18	22	29.05	29.95	09	FEW	NC		10.00		46	32	40	58	6	21	29.35	30.26
12	OVC	055		10.00		57	44	50	62	15	31	29.08	29.99	12	SCT	NC		10.00		58	31	46	36	15	28	29.37	30.28
15	OVC	033		10.00		54	40	47	59	13	33	29.17	30.08	15	BKN	250		10.00		60	25	45	26	12	27	29.36	30.27
18	BKN	040		10.00		54	37	46	53	8	33	29.21	30.12	18	BKN	250		10.00		59	21	43	23	7	25	29.36	30.27
21	CLR	NC		10.00		49	35	43	59	0	00	29.26	30.17	21	OVC	090		10.00		56	29	44	36	6	16	29.38	30.29
24	CLR	NC		10.00		43	36	40	76	0	00	29.29	30.20	24	BKN	130		10.00		53	30	43	41	7	12	29.37	30.27
			SUNRISE: 0457		MAY 05			SUNSET: 1922									SUNRISE: 0449		MAY 11								
03	CLR	NC		10.00		41	37	39	86	0	00	29.29	30.21	03	OVC	095		10.00		52	32	43	47	12	13	29.32	30.22
06	CLR	NC		7.00		39	36	38	89	6	14	29.29	30.20	06	OVC	085		10.00		52	32	43	47	8	13	29.30	30.20
09	BKN	250		10.00		51	28	41	41	15	18	29.26	30.17	09	OVC	043		10.00	-RA	51	37	45	59	13	14	29.32	30.23
12	BKN	200		10.00		58	32	46	38	20	15	29.10	30.01	12	OVC	034		10.00	-RA	48	43	46	83	17	10	29.26	30.17
15	BKN	200		10.00		72	46	58	40	20	18	28.93	29.82	15	OVC	021		2.00	-RA	46	32	40	58	14	10	29.19	30.10
18	OVC	070		10.00		63	50	56	63	8	01	28.85	29.75	18	OVC	008		2.00	-RA BR	44	42	43	92	12	08	29.14	30.05
21	OVC	039		6.00	-RA	60	55	57	84	18	14	28.86	29.75	21	OVC	017		2.00	BR	43	42	42	96	14	06	29.18	30.09
24	BKN	065		4.00	BR	54	53	53	97	8	02	28.92	29.81	24	OVC	015		10.00		44	40	42	87	12	06	29.17	30.08
			SUNRISE: 0456		MAY 06			SUNSET: 1923									SUNRISE: 0448		MAY 12								
03	OVC	002		2.00	BR	46	45	46	96	12	36	28.90	29.78	03	OVC	010		4.00	-DZ BR	41	38	40	91	9	02	29.17	30.08
06	OVC	002		1.00	-DZ BR	45	44	45	97	10	01	28.89	29.79	06	OVC	009		10.00		41	40	41	94	10	02	29.19	30.11
09	OVC	006		10.00		46	44	45	93	13	03	28.90	29.79	09	OVC	016		10.00		44	39	42	83	14	02	29.22	30.14
12	OVC	010		10.00		50	46	48	86	7	33	28.91	29.81	12	OVC	020		10.00		47	38	43	71	15	02	29.27	30.18
15	OVC	018		10.00		55	48	51	77	13	35	28.94	29.84	15	OVC	030		10.00		50	40	45	68	15	35	29.27	30.19
18	SCT	NC		10.00		55	42	49	62	13	02	28.98	29.88	18	OVC	037		10.00		50	38	44	63	13	36	29.27	30.19
21	CLR	NC		10.00		47	39	43	74	8	01	29.08	29.99	21	OVC	042		10.00		48	38	43	68	6	36	29.27	30.19
24	CLR	NC		10.00		44	38	41	79	10	02	29.13	30.04	24	FEW	NC		10.00		45	35	41	68	0	00	29.26	30.17

OBSERVATIONS AT 3-HOURLY INTERVALS

MINNEAPOLIS-ST. PAUL, MN
MAY 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 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: 0447 MAY 13 SUNSET: 1931						SUNRISE: 0440 MAY 19 SUNSET: 1938																							
03	BKN	200			10.00	41	37	39	86	3	16	29.25	30.16	03	CLR	NC			10.00	43	23	35	45	7	33	29.34	30.25		
06	BKN	085			8.00	42	38	40	85	6	23	29.22	30.14	06	CLR	NC			10.00	43	24	36	47	8	36	29.40	30.31		
09	FEW	NC			10.00	52	44	48	75	9	23	29.19	30.09	09	CLR	NC			10.00	52	23	40	32	13	03	29.42	30.34		
12	BKN	090			10.00	61	42	51	50	20	32	29.12	30.03	12	FEW	NC			10.00	55	26	43	33	9	05	29.40	30.32		
15	BKN	065			10.00	60	42	51	52	14	34	29.13	30.04	15	BKN	075			10.00	58	26	44	30	10	01	29.40	30.31		
18	SCT	NC			10.00	60	38	49	44	21	33	29.13	30.04	18	BKN	080			10.00	54	24	42	31	9	01	29.40	30.32		
21	BKN	050			10.00	55	38	47	53	8	33	29.20	30.10	21	FEW	NC			10.00	49	25	39	39	7	07	29.45	30.37		
24	FEW	NC			10.00	49	37	43	64	7	33	29.21	30.12	24	CLR	NC			10.00	43	26	36	51	13	08	29.52	30.44		
SUNRISE: 0446 MAY 14 SUNSET: 1933						SUNRISE: 0439 MAY 20 SUNSET: 1939																							
03	FEW	NC			10.00	44	37	41	76	7	32	29.22	30.13	03	CLR	NC			10.00	39	24	33	55	5	07	29.53	30.46		
06	FEW	NC			10.00	43	37	40	80	6	31	29.25	30.16	06	CLR	NC			10.00	39	26	34	59	0	00	29.58	30.50		
09	FEW	NC			10.00	50	38	44	63	5	VR	29.25	30.16	09	CLR	NC			10.00	47	24	38	41	7	07	29.59	30.52		
12	CLR	NC			10.00	58	40	49	51	5	29	29.22	30.13	12	CLR	NC			10.00	53	27	42	37	7	VR	29.55	30.47		
15	CLR	NC			10.00	63	36	50	37	8	10	29.16	30.06	15	CLR	NC			10.00	58	28	45	32	12	04	29.48	30.40		
18	FEW	NC			10.00	64	35	50	34	8	14	29.09	29.99	18	CLR	NC			10.00	59	27	45	29	6	02	29.44	30.36		
21	SCT	NC			10.00	57	42	50	58	12	15	29.07	29.97	21	CLR	NC			10.00	56	28	44	34	7	19	29.44	30.36		
24	BKN	150			10.00	53	42	48	66	12	15	29.02	29.92	24	CLR	NC			10.00	49	31	41	50	3	21	29.43	30.35		
SUNRISE: 0445 MAY 15 SUNSET: 1934						SUNRISE: 0438 MAY 21 SUNSET: 1940																							
03	BKN	150			10.00	56	38	47	51	7	17	28.98	29.87	03	CLR	NC			10.00	46	30	39	54	5	21	29.43	30.35		
06	OVC	085			10.00	57	46	51	67	18	17	28.91	29.80	06	SCT	NC			10.00	46	31	40	56	8	22	29.45	30.37		
09	SCT	NC			10.00	65	48	56	54	18	18	28.84	29.72	09	FEW	NC			10.00	56	33	45	42	7	20	29.42	30.34		
12	BKN	250			10.00	74	48	59	40	21	22	28.77	29.66	12	FEW	NC			10.00	63	30	48	29	16	17	29.35	30.26		
15	OVC	090			10.00	75	50	61	42	8	25	28.77	29.65	15	CLR	NC			10.00	67	26	48	21	17	19	29.26	30.17		
18	SCT	NC			10.00	76	48	60	37	8	28	28.77	29.65	18	FEW	NC			10.00	67	26	48	21	15	19	29.18	30.09		
21	CLR	NC			10.00	65	49	56	56	8	27	28.82	29.70	21	FEW	NC			10.00	61	30	47	31	16	17	29.17	30.07		
24	SCT	NC			10.00	53	45	49	74	15	32	28.93	29.81	24	FEW	NC			10.00	55	33	45	44	15	17	29.17	30.07		
SUNRISE: 0443 MAY 16 SUNSET: 1935						SUNRISE: 0437 MAY 22 SUNSET: 1941																							
03	FEW	NC			10.00	50	45	47	83	10	34	28.96	29.85	03	CLR	NC			10.00	50	34	43	54	12	16	29.13	30.03		
06	BKN	130			10.00	50	43	47	77	13	35	29.01	29.91	06	SCT	NC			10.00	50	36	44	59	12	16	29.09	29.99		
09	FEW	NC			10.00	53	37	46	55	15	03	29.05	29.95	09	BKN	150			10.00	60	42	51	52	14	17	29.03	29.93		
12	BKN	250			10.00	59	35	48	41	10	01	29.09	29.99	12	SCT	NC			10.00	72	49	59	44	20	18	28.90	29.78		
15	BKN	200			10.00	59	36	48	42	13	35	29.14	30.05	15	OVC	060			10.00	75	51	61	43	21	20	28.82	29.70		
18	BKN	200			10.00	58	33	46	39	9	01	29.16	30.07	18	OVC	050			10.00	73	53	61	50	21	20	28.81	29.69		
21	SCT	NC			10.00	52	31	43	45	12	36	29.22	30.12	21	OVC	050			4.00	68	57	61	68	17	23	28.85	29.74		
24	CLR	NC			10.00	47	30	40	52	10	03	29.27	30.17	24	FEW	NC		-RA	10.00	67	57	61	71	13	20	28.79	29.67		
SUNRISE: 0442 MAY 17 SUNSET: 1936						SUNRISE: 0437 MAY 23 SUNSET: 1943																							
03	CLR	NC			10.00	42	30	37	62	9	08	29.32	30.23	03	BKN	033			10.00	65	57	60	76	13	22	28.78	29.66		
06	SCT	NC			10.00	41	30	37	65	9	03	29.35	30.27	06	SCT	NC			10.00	59	41	50	51	14	24	28.82	29.71		
09	SCT	NC			10.00	46	29	39	51	9	04	29.39	30.30	09	SCT	NC			10.00	58	41	49	54	12	26	28.85	29.74		
12	SCT	NC			10.00	50	30	41	46	13	03	29.36	30.27	12	FEW	NC			10.00	64	45	54	50	18	28	28.88	29.76		
15	FEW	NC			10.00	55	27	43	34	8	34	29.31	30.22	15	BKN	041			10.00	61	43	52	52	18	30	28.95	29.83		
18	FEW	NC			10.00	55	25	42	31	8	03	29.29	30.20	18	OVC	037			10.00	54	40	47	59	13	31	29.02	29.92		
21	SCT	NC			10.00	50	28	41	43	8	04	29.31	30.22	21	OVC	035			10.00	51	38	45	61	18	33	29.11	30.01		
24	BKN	110			10.00	48	28	40	46	8	01	29.31	30.22	24	OVC	037			10.00	48	35	42	61	14	35	29.17	30.07		
SUNRISE: 0441 MAY 18 SUNSET: 1937						SUNRISE: 0436 MAY 24 SUNSET: 1944																							
03	BKN	085			10.00	46	29	39	51	7	34	29.33	30.24	03	OVC	037			10.00	46	32	40	58	14	01	29.21	30.11		
06	SCT	NC			10.00	43	27	37	53	9	34	29.37	30.28	06	BKN	039			10.00	44	30	38	58	15	03	29.27	30.18		
09	FEW	NC			10.00	50	27	40	41	8	03	29.38	30.29	09	BKN	200			10.00	47	33	41	59	10	03	29.27	30.18		
12	BKN	075			10.00	55	25	42	31	12	34	29.37	30.28	12	SCT	NC			10.00	51	35	44	54	6	09	29.28	30.19		
15	SCT	NC			10.00	56	20	41	25	6	35	29.34	30.24	15	SCT	NC			10.00	55	34	45	45	5	VR	29.24	30.14		
18	SCT	NC			10.00	56	20	41	25	17	32	29.30	30.21	18	BKN	120			10.00	55	35	46	47	7	09	29.19	30.10		
21	SCT	NC			10.00	52	22	40	31	5	04	29.31	30.22	21	OVC	200			10.00	54	36	46	51	7	03	29.18	30.09		
24	OVC	100			10.00	50	22	39	33	9	36	29.34	30.25	24	OVC	200			10.00	53	37	46	55	6	07	29.13	30.04		

MINNEAPOLIS-ST. PAUL, MN

MAY 2002

MSP

WBAN # 14922

[illegible]

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.

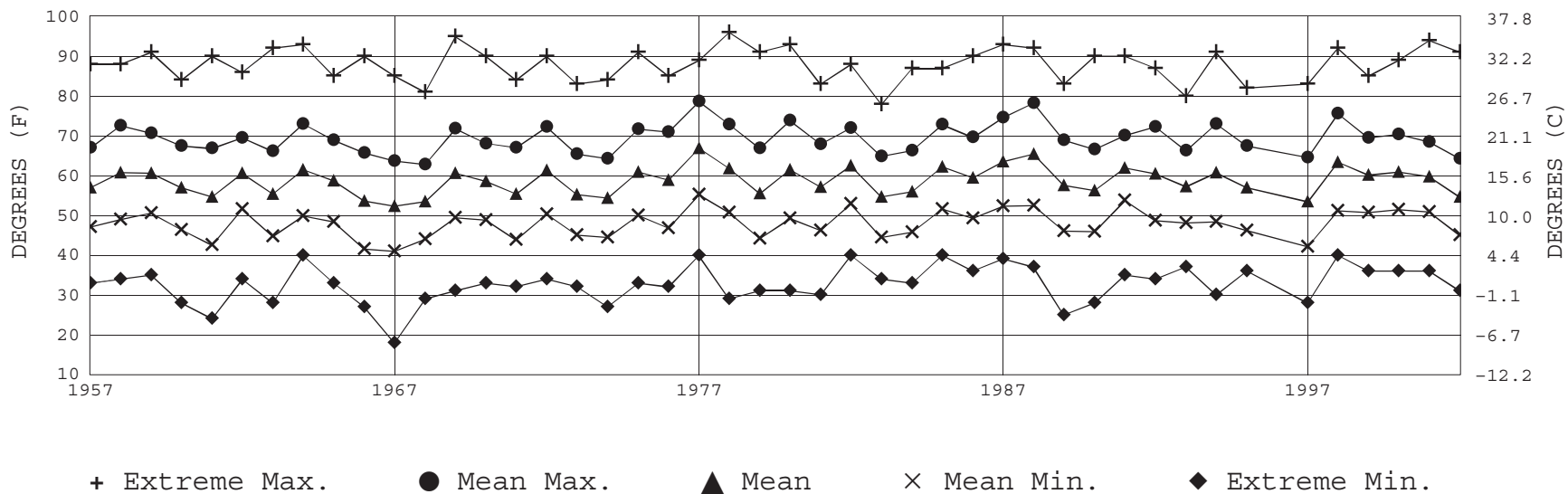
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

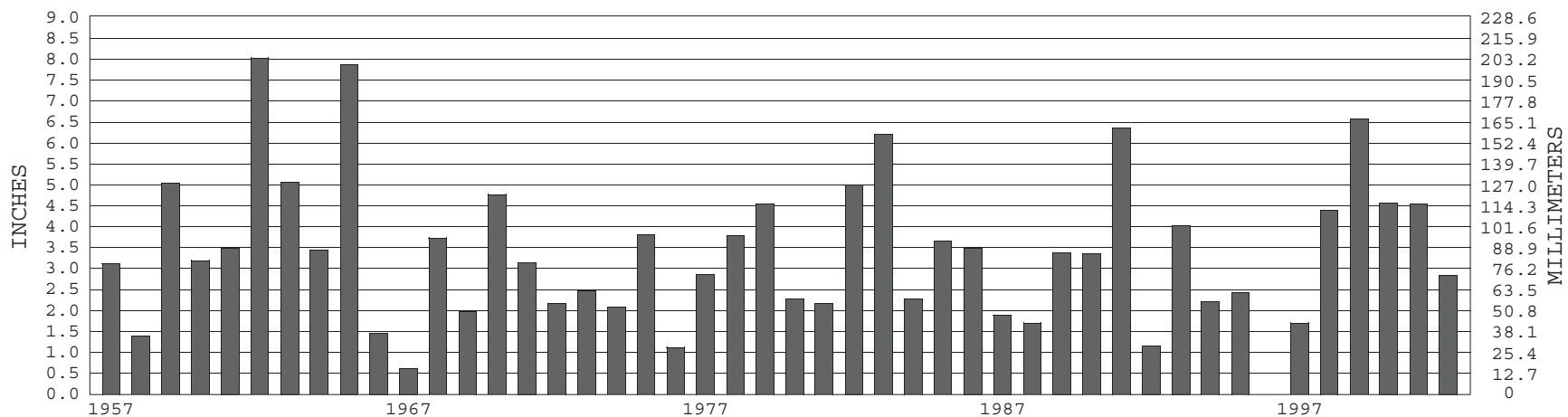
HOUR (LST)	AVERAGES									RESULTANT		
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			50	38	45	68	29.10	30.00	9.61	8	2	1
02			49	38	44	68	29.10	30.00	9.37	8	1	4
03			48	38	44	69	29.10	30.00	9.26	8	1	5
04			47	38	43	72	29.10	30.00	9.16	8	1	10
05			47	38	43	72	29.11	30.01	9.32	8	0	0
06			48	38	44	72	29.12	30.02	9.13	9	1	15
07			50	38	45	67	29.12	30.03	9.48	10	1	18
08			52	39	46	63	29.12	30.03	9.87	10	1	17
09			54	39	47	59	29.12	30.02	10.00	11	1	17
10			56	40	48	56	29.12	30.02	10.00	11	1	22
11			58	40	49	53	29.11	30.01	9.97	11	2	24
12			60	40	50	51	29.10	30.00	9.90	13	1	28
13			60	40	50	49	29.09	29.99	9.68	13	1	27
14			61	40	51	48	29.08	29.98	9.74	12	2	27
15			62	39	51	47	29.07	29.97	9.42	12	3	29
16			61	40	51	49	29.06	29.96	9.34	12	3	30
17			62	39	51	47	29.05	29.95	9.46	12	3	29
18			61	39	50	47	29.05	29.95	9.50	11	3	31
19			60	39	50	50	29.06	29.96	9.77	10	2	32
20			58	39	49	54	29.07	29.97	9.55	11	2	36
21			56	40	48	58	29.08	29.98	9.35	10	1	36
22			54	40	48	61	29.09	29.99	9.94	8	2	36
23			53	40	47	63	29.09	29.99	9.97	9	2	36
24			52	39	46	64	29.10	30.00	9.58	9	1	36

MINNEAPOLIS-ST. PAUL, MN MAY TEMPERATURES



Long-Term (1957-2002) Mean: 57.4 1961-1990 Normal: 59.3

MINNEAPOLIS-ST. PAUL, MN MAY PRECIPITATION



Long-Term (1957-2002) Mean Monthly Total: 3.38

1961-1990 Normal: 3.24



MAY 2002

MINNEAPOLIS—ST. PAUL, MN

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