



# FEBRUARY 2003

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# DULUTH, MN

INTERNATIONAL AIRPORT (DLH)  
 Lat: 46° 50' N Long: 92° 11' W Elev (Ground): 1426 Feet  
 Time Zone: CENTRAL WBAN: 14913 ISSN #: 0198-2702

FEBRUARY 2003  
DULUTH, MN

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																																						
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	25	26	15	25	26	39	0	SN BR	2		0.1	T	28.27	29.83	3.3	13	4.3	10	12	9	13	01																																				
02	30	27	29	18	28	28	36	0	FG+ FZFG BR	2		0.0	0.00	28.35	29.92	7.0	08	7.2	15	08	13	08	02																																				
03	29	8	19	8	19	21	46	0	SN BR BLSN	3		2.4	0.12	28.21	29.77	10.0	35	11.1	33	33	25	33	03																																				
04	9	-8	1	-11	-8	0	64	0	SN HZ BLSN	3		T	T	28.43	30.05	14.7	33	14.9	32	32	25	33	04																																				
05	12	-9	2	-10	-4	2	63	0	SN BR	3		0.1	T	28.50	30.12	4.7	25	5.9	15	24	13	24	05																																				
06	6	-10	-2	-14	-9	-2	67	0	SN	3		T	T	28.70	30.33	9.0	33	9.3	21	33	16	33	06																																				
07	17	-14	2	-10	-5	1	63	0	SN BR UP	3		0.5	T	28.35	29.97	13.8	25	14.7	33	23	28	23	07																																				
08	17	-8	5	-8	-6	3	60	0	SN BR BLSN	4		0.1	T	28.32	29.92	14.1	31	14.5	29	29	23	29	08																																				
09	15	-12	2	-11	-8	0	63	0	SN BLSN	4		0.1	T	28.20	29.81	16.0	27	17.5	41*	27	33*	27	09																																				
10	0	-17*	-8	-21	-20	-9	73	0		4		0.0	0.00	28.34	29.97	8.3	29	11.3	22	34	17	23	10																																				
11	10	-11	0	-14	-9	-2	65	0	SN UP BLSN	4		T	T	28.09	29.70	14.9	29	17.4	40	31	31	29	11																																				
12	6	-13	-3	-17	-15	-4	68	0	SN HZ	3		T	T	28.43	30.06	11.5	29	11.9	29	30	23	29	12																																				
13	14	-4	5	-9	-7	4	60	0	SN HZ	3		T	T	28.53	30.15	8.5	30	8.9	24	33	20	33	13																																				
14	14	-1	7	-7	-7	6	58	0	SN	3		T	T	28.63	30.25	6.0	01	6.3	15	01	13	01	14																																				
15	8	-5	2	-13	-5	0	63	0	SN BR HZ	3		0.2	T	28.97	30.63	5.4	08	7.7	18	13	15	13	15																																				
16	23	-4	10	-5	1	8	55	0		3		0.0	0.00	28.83	30.46	7.1	16	8.1	18	17	16	20	16																																				
17	31	9	20	5	5	17	45	0	SN	3		T	T	28.38	29.97	11.7	17	11.9	24	14	20	17	17																																				
18	27	10	19	3	16	19	46	0	RA FZRA SN FZFG BR UP	3		1.4	0.07	28.18	29.75	14.6	26	16.9	33	29	28	27	18																																				
19	36	9	23	7	15	20	42	0	SN	3		T	T	28.44	30.02	12.5	26	13.5	24	29	20	25	19																																				
20	43*	26	35*	19	26	29	30	0	BR HZ	3		0.0	0.00	28.34	29.89	5.5	27	10.9	22	25	18	24	20																																				
21	26	8	17	0	13	15	48	0	SN FZFG BR	1		1.5	0.04	28.40	29.98	11.3	06	12.2	26	07	22	08	21																																				
22	11	-3	4	-13	-2	3	61	0	SN BCFG	3		T	T	28.48	30.09	6.7	04	8.8	20	06	16	06	22																																				
23	9	-8	1	-16	-13	-2	64	0		3		0.0	0.00	28.58	30.21	7.2	35	7.7	16	31	14	31	23																																				
24	-2	-15	-8*	-26	-19	-9	73	0		3		0.0	0.00	28.73	30.38	10.5	30	11.0	31	28	21	29	24																																				
25	14	-15	0	-18	-9	-1	65	0		3		0.0	0.00	28.67	30.32	10.9	22	11.2	28	22	21	22	25																																				
26	24	2	13	-6	5	11	52	0		3		0.0	0.00	28.44	30.05	10.8	22	10.9	23	22	18	21	26																																				
27	35	10	23	4	13	21	42	0	BR HZ	3		0.0	0.00	28.44	30.02	3.7	25	6.1	18	26	15	23	27																																				
28	33	10	22	3	9	18	43	0		1		0.0	0.00	28.49	30.07	1.3	04	4.8	13	36	10	13	28																																				
										18.7				-0.5		9.1		■ ■		1.0		8.0		55.5		0.0		< MONTHLY AVERAGES		TOTALS->		6.4		0.23		28.45		30.06		4.6		29		10.6		<- MONTHLY AVERAGES													
										-5.7				-5.6		-5.7		■ ■		<-----DEPARTURE FROM NORMAL----->										- .60		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																											
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION: 0.12 DATE :03										SEA LEVEL PRESSURE DATE TIME																																							
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 2.4 DATE :03										MAXIMUM : 30.69 15 1955																													
HEATING: 1554 132										7082 -10										GREATEST SNOW DEPTH: 4 DATE : 11+										MINIMUM : 29.54 11 0855																													
COOLING: 0 0										0 0										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 28										PRECIPITATION ≥ 0.01 INCH : 3									
																														MAXIMUM TEMP ≤ 32 : 24										MINIMUM TEMP ≤ 0 : 17										PRECIPITATION ≥ 0.10 INCH : 1									
																														THUNDERSTORMS : 0										HEAVY FOG : 1										SNOWFALL ≥ 1.0 INCH : 3									

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## DULUTH, MN

FEBRUARY 2003

DLH

WBAN # 14913

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			T	T	T	T	T	T			01													01		T	
02													02													02			0.00
03	T	T	T	T	T	T	T	T	T	T	T		03	T		T		T	T	T	T	T	T	T		03	T		0.12
04	T												04												04			T	
05													05					T	T	T	T	T	T	T		05		T	
06	T	T			T	T							06												06			T	
07												T	07												07			T	
08	T	T	T	T	T	T	T	T					08												08			T	
09													09	T											09			T	
10													10												10				0.00
11			T	T	T	T	T	T	T				11			T	T	T							11			T	
12													12												12			T	
13													13	T											13			T	
14													14	T											14			T	
15													15	T	T	T	T								15			T	
16													16												16				0.00
17													17												17		0.00	T	
18	T	T	T	T	T	T	T	T	T	T	T		18	T	T	T	T	T	T	T	T	T	T		18		T		0.07
19	T	T											19												19			T	
20													20												20				0.00
21													21	T	T	T	T	T	T	T	T				21		T		0.04
22	T	T	T	T									22	T	T	T	T	T	T	T					22			T	
23													23												23				0.00
24													24												24				0.00
25													25												25				0.00
26													26												26				0.00
27													27												27				0.00
28													28												28				0.00

### 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.

## REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

\* = 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

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971–2000

### WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):  
'+' = Heavy    ' ' = Moderate    '- ' = Light

## DULUTH, MN FEBRUARY 2003

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

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.

### ADDITIONAL NOTES:

**Note:** 2002 LCD Annual, the element "Normal Dry Bulb" was not updated using the 1971–2000 Normals. Correction will be made in the 2003 LCD Annual.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.75	5.00	
02							<.25	9.00	
03							.75	10.00	
04							6.00	10.00	
05							2.50	10.00	
06							8.00	10.00	
07							2.50	10.00	
08							.75	10.00	
09							2.50	10.00	
10							8.00	10.00	
11							.25	10.00	
12							2.50	10.00	
13							4.00	10.00	
14							9.00	10.00	
15							.75	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							.50	10.00	
19							9.00	10.00	
20							2.00	10.00	
21							.00	9.00	
22							1.25	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							7.00	10.00	
27							4.00	10.00	
28							10.00	10.00	
<b>MONTHLY AVGS</b>							5.26	9.75	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH: SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 28									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 1            11           12									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# DULUTH, MN

FEBRUARY 2003

DLH

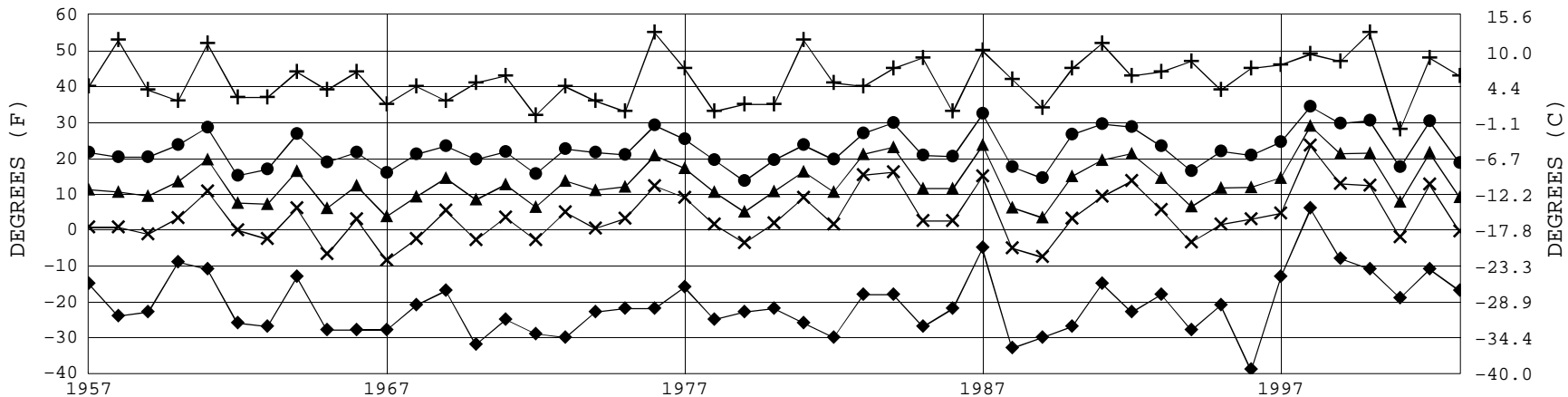
WBAN # 14913

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				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	RELATIVE HUMIDITY (PCT)	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	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0733				FEB 01	SUNSET: 1712				SUNRISE: 0725				FEB 07	SUNSET: 1721															
03	OVC	002	2.50 BR	25	25	25	100	7	18	28.30	29.87	03	CLR	NC	10.00				-13	-17	-13	82	10	28	28.63	30.28			
06	OVC	002	4.00 -SN BR	25	24	25	96	6	17	28.27	29.84	06	CLR	NC	10.00				-12	-19	-13	70	10	26	28.56	30.21			
09	OVC	002	1.75 -SN BR	25	24	25	96	7	13	28.25	29.80	09	CLR	NC	10.00				-6	-12	-7	75	14	25	28.46	30.10			
12	OVC	004	1.50 BR	26	25	26	96	3	13	28.24	29.80	12	CLR	NC	10.00				8	-1	6	66	14	24	28.35	29.97			
15	OVC	006	1.50 BR	27	26	27	96	3	12	28.23	29.78	15	CLR	NC	10.00				13	2	10	61	20	21	28.22	29.83			
18	OVC	004	2.00 BR	26	26	26	100	3	05	28.26	29.83	18	SCT	NC	10.00				10	1	8	67	18	23	28.15	29.76			
21	OVC	010	2.00 BR	26	25	26	96	3	01	28.28	29.85	21	OVC	028	8.00 UP				12	6	11	77	15	23	28.09	29.70			
24	OVC	002	2.00 BR	27	26	27	96	3	05	28.29	29.85	24	OVC	075	6.00 -SN				17	12	16	80	14	26	28.09	29.67			
SUNRISE: 0732				FEB 02	SUNSET: 1713				SUNRISE: 0724				FEB 08	SUNSET: 1722															
03	VV	001	0.25 FZFG	27	27	27	100	3	05	28.32	29.88	03	BKN	027	10.00				16	11	15	80	15	31	28.14	29.72			
06	OVC	003	3.00 BR	28	27	28	96	5	09	28.34	29.91	06	OVC	028	6.00 -SN				11	5	10	77	16	31	28.23	29.82			
09	OVC	003	1.50 BR	28	28	28	100	6	08	28.38	29.95	09	SCT	NC	5.00 BLSN				5	-4	3	66	15	31	28.31	29.91			
12	VV	001	0.50 FZFG	29	29	29	100	8	09	28.38	29.95	12	FEW	NC	10.00				4	-9	2	54	16	31	28.35	29.95			
15	OVC	008	9.00	28	27	28	96	10	09	28.35	29.92	15	FEW	NC	7.00 BLSN				5	-13	2	43	20	30	28.30	29.95			
18	OVC	006	7.00	28	27	28	96	8	06	28.36	29.93	18	CLR	NC	10.00				0	-14	-2	51	13	29	28.45	30.02			
21	OVC	004	6.00 BR	29	28	29	96	9	08	28.35	29.91	21	CLR	NC	10.00				-4	-15	-5	59	14	31	28.44	30.07			
24	OVC	004	7.00	29	28	29	96	8	08	28.34	29.90	24	CLR	NC	10.00				-8	-15	-9	71	12	28	28.44	30.06			
SUNRISE: 0731				FEB 03	SUNSET: 1715				SUNRISE: 0722				FEB 09	SUNSET: 1724															
03	OVC	008	1.25 -SN BR	28	26	27	92	6	05	28.27	29.84	03	CLR	NC	10.00				-11	-17	-12	74	13	26	28.39	30.02			
06	OVC	022	2.50 -SN BR	27	26	27	96	8	02	28.26	29.81	06	CLR	NC	10.00				-11	-15	-11	82	14	25	28.30	29.94			
09	OVC	019	0.75 -SN BR	27	25	26	92	6	01	28.24	29.80	09	CLR	NC	10.00				-5	-10	-6	79	17	25	28.25	29.87			
12	BKN	023	2.00 -SN BR	29	25	28	85	8	34	28.18	29.73	12	CLR	NC	7.00 BLSN				8	-3	6	60	26	27	28.17	29.78			
15	OVC	007	9.00	22	20	21	92	13	33	28.15	29.70	15	BKN	037	10.00				12	-1	9	56	23	25	28.08	29.68			
18	OVC	011	4.00 -SN BR	15	12	14	88	13	33	28.17	29.74	18	SCT	NC	10.00				13	0	10	56	17	26	28.05	29.66			
21	OVC	055	4.00 -SN BLSN	13	7	11	77	18	34	28.17	29.74	21	SCT	NC	10.00				7	-8	4	50	14	30	28.08	29.69			
24	OVC	048	5.00 -SN BLSN	9	3	8	77	21	34	28.18	29.75	24	FEW	NC	10.00				-3	-13	-4	61	14	33	28.18	29.79			
SUNRISE: 0730				FEB 04	SUNSET: 1716				SUNRISE: 0721				FEB 10	SUNSET: 1725															
03	SCT	NC	7.00	2	-4	1	76	16	33	28.25	29.84	03	CLR	NC	10.00				-10	-16	-11	74	10	33	28.27	29.89			
06	CLR	NC	10.00	-6	-13	-7	71	18	33	28.33	29.94	06	CLR	NC	10.00				-15	-20	-15	77	8	32	28.34	29.97			
09	CLR	NC	7.00	-7	-15	-8	68	13	32	28.42	30.04	09	CLR	NC	10.00				-15	-23	-16	66	12	33	28.43	30.06			
12	FEW	NC	10.00	2	-9	0	60	16	33	28.46	30.07	12	CLR	NC	10.00				-6	-22	-7	45	10	29	28.47	30.10			
15	CLR	NC	10.00	8	-6	6	52	17	32	28.48	30.09	15	CLR	NC	10.00				-1	-20	-3	39	9	28	28.41	30.04			
18	CLR	NC	10.00	5	-7	3	57	9	32	28.53	30.17	18	CLR	NC	10.00				-3	-21	-4	41	10	25	28.35	30.00			
21	CLR	NC	10.00	1	-8	0	65	7	31	28.56	30.20	21	CLR	NC	10.00				-5	-19	-6	50	15	24	28.26	29.90			
24	CLR	NC	10.00	-2	-9	-3	72	8	31	28.56	30.19	24	BKN	075	10.00				-6	-17	-7	58	15	23	28.17	29.79			
SUNRISE: 0728				FEB 05	SUNSET: 1718				SUNRISE: 0720				FEB 11	SUNSET: 1727															
03	CLR	NC	10.00	-4	-10	-5	75	6	31	28.53	30.16	03	VV	014	1.00 -SN				-6	-12	-7	75	13	23	28.03	29.65			
06	BKN	040	10.00	-8	-12	-8	82	3	29	28.51	30.15	06	OVC	030	4.00 -SN				-4	-9	-5	79	13	25	27.96	29.57			
09	OVC	050	10.00	-1	-6	-2	79	5	22	28.50	30.14	09	SCT	NC	7.00				2	-3	1	80	13	28	27.93	29.54			
12	OVC	050	10.00	7	-5	5	57	8	23	28.49	30.11	12	SCT	NC	9.00				9	-6	6	50	25	30	27.98	29.58			
15	OVC	055	10.00	12	-3	9	51	7	22	28.45	30.06	15	OVC	027	1.50 BLSN				8	0	6	69	22	31	28.04	29.65			
18	OVC	041	6.00 -SN	10	2	8	69	6	23	28.47	30.10	18	SCT	NC	10.00				1	-16	-1	44	17	32	28.19	29.80			
21	BKN	033	2.50 -SN BR	7	4	6	87	5	28	28.50	30.12	21	CLR	NC	6.00 BLSN				-5	-17	-6	56	17	30	28.29	29.92			
24	OVC	050	4.00 -SN BR	4	1	3	88	7	31	28.52	30.14	24	CLR	NC	10.00				-10	-22	-11	54	15	28	28.37	30.00			
SUNRISE: 0727				FEB 06	SUNSET: 1719				SUNRISE: 0718				FEB 12	SUNSET: 1728															
03	OVC	100	8.00	2	-1	1	88	12	32	28.57	30.19	03	BKN	120	10.00				-11	-19	-12	67	8	24	28.38	30.01			
06	CLR	NC	10.00	-1	-5	-2	82	10	33	28.64	30.27	06	BKN	006	3.00 -SN				-13	-18	-14	78	9	27	28.37	30.01			
09	CLR	NC	10.00	-3	-8	-4	79	9	36	28.72	30.35	09	CLR	NC	7.00				-8	-16	-9	67	13	30	28.42	30.06			
12	FEW	NC	10.00	3	-8	1	60	9	31	28.75	30.39	12	CLR	NC	10.00				0	-16	-2	46	15	29	28.46	30.09			
15	CLR	NC	10.00	4	-13	2	45	13	33	28.73	30.37	15	CLR	NC	10.00				5	-13	2	43	22	29	28.45	30.09			
18	CLR	NC	10.00	-1	-15	-2	51	6	32	28.75	30.40	18	FEW	NC	10.00				3	-12	1	49	9	28	28.47	30.10			
21	CLR	NC	10.00	-6	-17	-7	58	6	32	28.74	30.40	21	SCT	NC	10.00				2	-11	0	54	8	30	28.46	30.09			
24	CLR	NC	10.00	-9	-17	-10	67	9	30	28.71	30.35	24	OVC	065	10.00				4	-8	2	57	10	28	28.46	30.08			





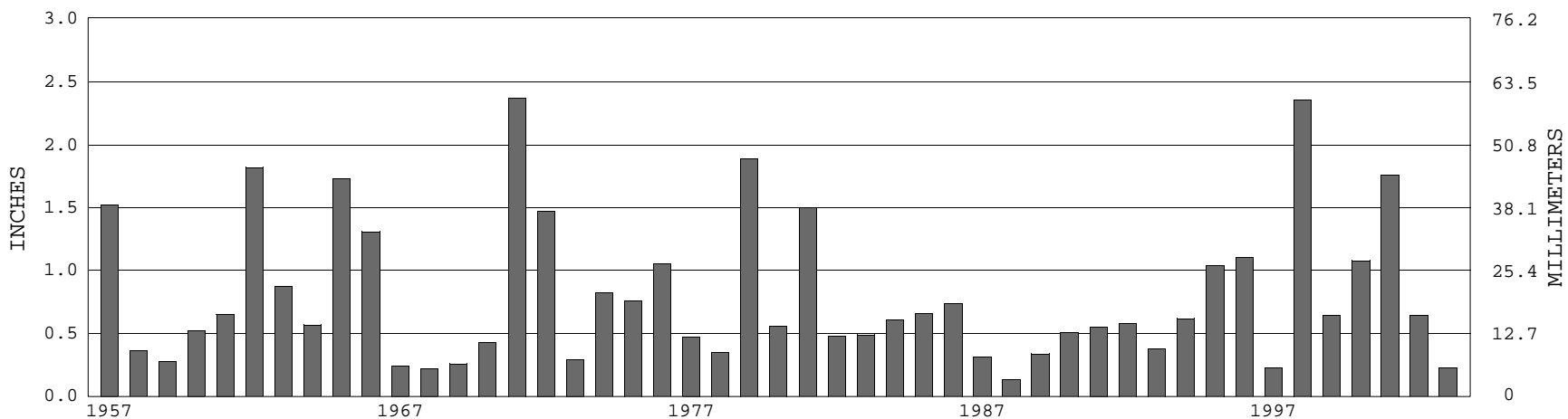
### DULUTH, MN FEBRUARY TEMPERATURES



+ Extreme Max.      ● Mean Max.      ▲ Mean      × Mean Min.      ◆ Extreme Min.

Long-Term (1957-2003) Mean: 13.2      1961-1990 Normal: 14.8

### DULUTH, MN FEBRUARY PRECIPITATION



Long-Term (1957-2003) Mean Monthly Total: 0.80

1961-1990 Normal: 0.83



FEBRUARY 2003

DULUTH, 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.*

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