



# JUNE 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

JUNE 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	71	40	56	-1	39	48	9	0		0		0.0	0.00	28.51	30.04	2.5	25	6.0	15	28	12	10	01						
02	68	46	57	0	41	49	8	0		0		0.0	0.00	28.48	29.99	5.6	11	6.3	17	09	15	08	02						
03	69	41	55	-2	38	48	10	0		0		0.0	0.00	28.48	29.99	6.0	07	7.2	18	10	15	09	03						
04	70	43	57	0	42	49	8	0		0		0.0	0.00	28.45	29.96	4.2	11	5.6	15	12	13	10	04						
05	76	47	62	5	49	55	3	0	RA	0		0.0	0.11	28.41	29.91	2.3	28	5.6	26	20	23	19	05						
06	63	48	56	-2	50	52	9	0	RA FG+ BR	0		0.0	0.07	28.34	29.84	8.7	09	8.9	22	09	18	09	06						
07	62	48	55	-3	50	52	10	0	FG+ BR	0		0.0	0.00	28.32	29.83	9.1	09	10.0	22	09	18	07	07						
08	63	48	56	-2	50	52	9	0	TS TSRA RA FG BR	0		0.0	0.69	28.23	29.74	4.9	06	8.4	24	31	20	30	08						
09	68	49	59	1	47	52	6	0		0		0.0	0.00	28.31	29.82	1.7	04	7.0	17	27	12	08	09						
10	58	42	50	-9	48	50	15	0	RA BR	0		0.0	0.51	28.28	29.80	8.2	08	8.9	22	06	20	07	10						
11	69	38*	54	-5	46	51	11	0	FG+ BCFG BR	0		0.0	0.00	28.39	29.91	8.0	09	8.8	22	08	17	08	11						
12	61	44	53	-6	47	50	12	0	RA	0		0.0	T	28.32	29.84	7.2	11	7.3	18	11	15	11	12						
13	77	46	62	3	51	57	3	0	RA BR	0		0.0	T	28.38	29.88	6.1	34	6.7	21	35	16	33	13						
14	72	51	62	2	51	56	3	0		0		0.0	0.00	28.61	30.12	6.8	09	8.0	20	10	16	10	14						
15	74	45	60	0	47	54	5	0		0		0.0	0.00	28.66	30.17	6.7	10	6.9	17	11	15	11	15						
16	83*	51	67	7	55	60	0	2		0		0.0	0.00	28.61	30.12	4.8	15	6.1	18	19	15	15	16						
17	78	60	69	9	61	63	0	4	RA BR	0		0.0	0.22	28.50	30.00	1.7	20	5.0	17	26	15	26	17						
18	76	56	66	6	49	57	0	1		0		0.0	0.00	28.49	29.99	7.3	01	8.0	21	36	17	02	18						
19	67	47	57	-4	42	50	8	0		0		0.0	0.00	28.66	30.18	9.5	10	9.7	20	10	16	09	19						
20	79	44	62	1	43	53	3	0		0		0.0	0.00	28.58	30.10	7.3	18	8.5	23	21	18	18	20						
21	77	55	66	5	49	56	0	1		0		0.0	0.00	28.43	29.92	8.8	16	9.7	23	18	18	18	21						
22	80	56	68	7	58	62	0	3	TS TSRA RA BR	0		0.0	0.53	28.32	29.81	6.4	16	8.6	38*	27	30*	27	22						
23	75	62	69	7	64	65	0	4	TSRA RA BR	0		0.0	0.38	28.31	29.80	6.9	15	9.1	33	12	29	12	23						
24	80	60	70*	8	64	65	0	5	TS RA FG+ BR	0		0.0	0.02	28.36	29.85	4.2	12	6.6	16	10	14	10	24						
25	75	53	64	2	62	64	1	0	TS TSRA RA FG+ BR	0		0.0	0.55	28.27	29.75	7.2	24	11.5	30	29	23	28	25						
26	60	50	55	-8	49	51	10	0	RA BR	0		0.0	0.14	28.24	29.74	13.7	27	14.0	36	29	26	29	26						
27	65	47	56	-7	45	50	9	0		0		0.0	0.00	28.37	29.88	3.3	36	9.6	20	32	16	34	27						
28	54	45	50*	-13	46	48	15	0	RA BR	0		0.0	0.25	28.41	29.93	8.1	10	8.6	20	10	17	10	28						
29	76	45	61	-2	52	55	4	0	FG BR	0		0.0	0.00	28.50	30.02	5.2	29	7.4	24	30	20	30	29						
30	79	53	66	3	54	60	0	1		0		0.0	0.00	28.60	30.11	4.9	27	6.5	20	23	16	24	30						
< MONTHLY AVERAGES										TOTALS->		0.0	3.47	28.43	29.94	2.6	11	8.0	<- MONTHLY AVERAGES										
- .4										0.2		- .1		<-----DEPARTURE FROM NORMAL----->										- .78		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 0.91 DATE: 22-23				SEA LEVEL PRESSURE				DATE		TIME									
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM				: 30.24		19 0855									
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: 0 DATE:				MINIMUM				: 29.67		25 1755									
HEATING: 171 -9 9787 63										NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 11													
COOLING: 21 -7 21 -14												MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 9													
												THUNDERSTORMS : 5		HEAVY FOG : 5		SNOWFALL ≥ 1.0 INCH : 0													

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## DULUTH, MN

JUNE 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													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05			0.09		0.01				0.01	T		05		0.11		
06													06	T	T	0.06	0.01	T						06		0.07			
07													07											07		0.00			
08													08			0.47	0.19	0.02		T	0.01			08		0.69			
09													09											09		0.00			
10	T	T	0.04	0.07	0.04	0.06	0.07	0.06	0.07	0.06	0.01	0.03	10	T										10		0.51			
11													11												11		0.00		
12													12												12		T		
13													13												13		T		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17			T			T	0.02	0.10	0.08	T	0.01	0.01	17											17		0.22			
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
22													22								T			0.37	0.16	22		0.53	
23	0.13	0.11	0.09	0.04	0.01								23												23		0.38		
24													24												24		0.02		
25	0.05	0.10	0.17	0.09	0.02								25												25		0.55		
26													26	T											26		0.14		
27													27			T	0.01	0.05							27		0.00		
28													28	T	0.02										28		0.25		
29													29												29		0.00		
30													30												30		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)	.17	.32	.43	.47	.51	.57	.62	.66	.68	.68	.68	.70
Ending Date	08	08	08	08	08	08	08	08	08	08	08	23
Ending Time (Hour/Min)	1546	1545	1549	1554	1603	1619	1634	1651	1708	1708	1708	0127

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	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

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

## DULUTH, MN JUNE 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:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							7.00	10.00	
06							.25	10.00	
07							.25	10.00	
08							.50	10.00	
09							10.00	10.00	
10							2.00	10.00	
11							.25	10.00	
12							10.00	10.00	
13							1.50	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							1.50	10.00	
18							8.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							1.75	10.00	
23							1.75	10.00	
24							.50	10.00	
25							<.25	10.00	
26							1.75	10.00	
27							9.00	10.00	
28							5.00	10.00	
29							.50	10.00	
30							10.00	10.00	
MONTHLY AVGS							6.08	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 4            11           17									



# OBSERVATIONS AT 3-HOURLY INTERVALS

## DULUTH, MN

JUNE 2003

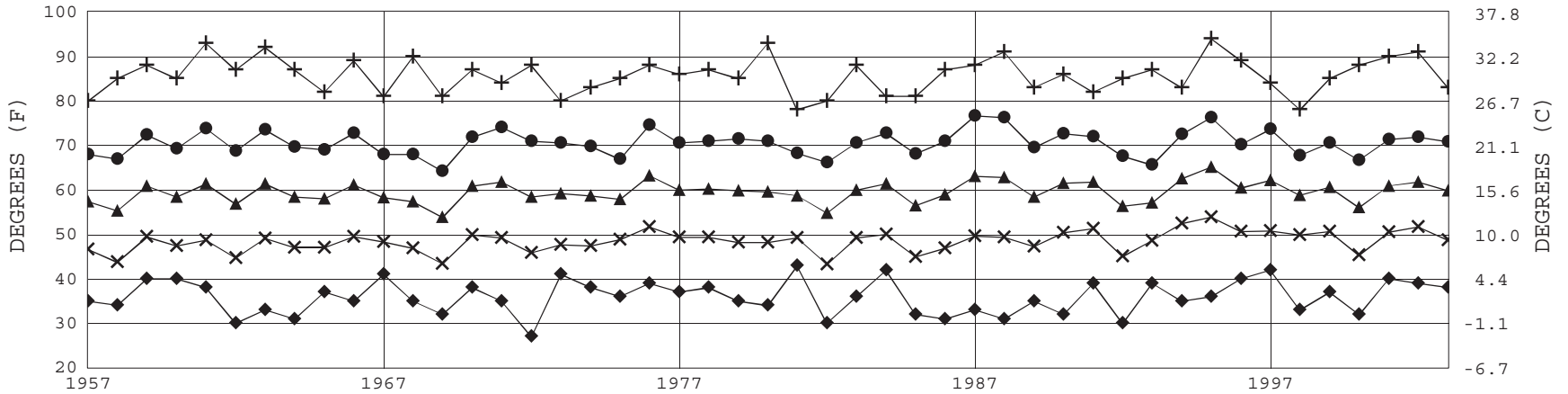
DLH

WBAN # 14913

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)
SUNRISE: 0414 JUN 13					SUNSET: 2003					SUNRISE: 0414 JUN 19					SUNSET: 2006										
03	FEW	NC	10.00		49	46	47	90	0	00	28.30	29.81	03	FEW	NC	10.00		53	45	49	74	9	08	28.62	30.14
06	OVC	090	10.00		52	50	51	93	0	00	28.33	29.85	06	CLR	NC	10.00		53	45	49	74	7	10	28.67	30.19
09	BKN	085	10.00		68	58	62	70	12	35	28.35	29.86	09	CLR	NC	10.00		60	42	51	52	14	11	28.73	30.24
12	BKN	090	10.00		76	53	62	45	14	32	28.36	29.86	12	CLR	NC	10.00		65	43	53	45	9	09	28.71	30.22
15	SCT	NC	10.00		76	50	61	40	12	34	28.38	29.88	15	CLR	NC	10.00		66	43	54	43	13	11	28.67	30.19
18	SCT	NC	10.00		75	49	60	40	8	01	28.40	29.89	18	FEW	NC	10.00		64	40	52	41	9	09	28.64	30.16
21	FEW	NC	10.00		64	53	58	68	6	35	28.46	29.96	21	CLR	NC	10.00		52	35	44	53	6	11	28.63	30.16
24	FEW	NC	10.00		60	52	56	75	6	35	28.50	30.00	24	FEW	NC	10.00		47	37	42	69	6	11	28.63	30.16
SUNRISE: 0414 JUN 14					SUNSET: 2004					SUNRISE: 0414 JUN 20					SUNSET: 2006										
03	CLR	NC	10.00		57	52	54	83	3	02	28.54	30.04	03	CLR	NC	10.00		47	37	42	69	0	00	28.64	30.17
06	CLR	NC	10.00		58	53	55	84	3	02	28.59	30.10	06	CLR	NC	10.00		52	41	47	66	3	15	28.66	30.18
09	CLR	NC	10.00		69	52	59	55	9	11	28.64	30.14	09	CLR	NC	10.00		69	46	56	44	13	21	28.65	30.16
12	FEW	NC	10.00		70	52	60	53	15	10	28.64	30.15	12	CLR	NC	10.00		75	43	57	32	9	19	28.59	30.11
15	FEW	NC	10.00		72	50	59	46	14	10	28.63	30.14	15	CLR	NC	10.00		79	42	59	27	17	21	28.55	30.06
18	FEW	NC	10.00		70	47	57	44	10	09	28.61	30.12	18	CLR	NC	10.00		75	45	58	34	13	18	28.50	30.01
21	FEW	NC	10.00		56	50	53	81	7	10	28.63	30.14	21	CLR	NC	10.00		59	47	53	64	6	13	28.50	30.01
24	FEW	NC	10.00		51	47	49	86	0	00	28.65	30.17	24	CLR	NC	10.00		57	45	51	64	6	16	28.50	30.00
SUNRISE: 0414 JUN 15					SUNSET: 2004					SUNRISE: 0415 JUN 21					SUNSET: 2006										
03	CLR	NC	10.00		45	43	44	93	0	00	28.66	30.18	03	CLR	NC	10.00		58	44	51	60	10	20	28.49	29.98
06	FEW	NC	10.00		56	50	53	81	3	09	28.67	30.19	06	CLR	NC	10.00		58	47	52	67	7	16	28.49	29.98
09	CLR	NC	10.00		66	52	58	61	8	14	28.68	30.20	09	CLR	NC	10.00		68	49	57	51	14	18	28.47	29.97
12	FEW	NC	10.00		71	52	60	51	9	12	28.67	30.19	12	CLR	NC	10.00		75	52	61	45	13	15	28.44	29.94
15	FEW	NC	10.00		72	51	60	48	10	11	28.65	30.17	15	CLR	NC	10.00		77	52	62	42	12	14	28.39	29.89
18	FEW	NC	10.00		69	42	55	38	13	10	28.64	30.15	18	CLR	NC	10.00		69	51	59	53	10	12	28.37	29.87
21	FEW	NC	10.00		59	46	52	62	6	10	28.64	30.16	21	CLR	NC	10.00		62	48	54	60	9	12	28.36	29.85
24	CLR	NC	10.00		53	46	49	77	7	10	28.63	30.15	24	FEW	NC	10.00		65	51	57	61	9	16	28.36	29.85
SUNRISE: 0414 JUN 16					SUNSET: 2005					SUNRISE: 0415 JUN 22					SUNSET: 2007										
03	FEW	NC	10.00		51	47	49	86	7	10	28.63	30.14	03	FEW	NC	10.00		61	50	55	67	8	15	28.35	29.84
06	FEW	NC	10.00		57	49	53	75	3	11	28.65	30.16	06	CLR	NC	10.00		61	51	55	70	8	14	28.35	29.85
09	FEW	NC	10.00		71	58	63	63	6	VR	28.65	30.16	09	FEW	NC	10.00		68	57	61	68	8	20	28.33	29.82
12	FEW	NC	10.00		79	58	66	49	8	19	28.62	30.13	12	FEW	NC	10.00		79	64	69	60	13	17	28.32	29.80
15	FEW	NC	10.00		81	57	66	44	10	16	28.59	30.10	15	BKN	110	10.00		76	64	68	67	6	18	28.32	29.81
18	SCT	NC	10.00		72	59	64	64	7	12	28.57	30.08	18	SCT	NC	10.00		68	59	63	73	9	12	28.29	29.79
21	SCT	NC	10.00		64	58	60	81	3	09	28.58	30.09	21	SCT	NC	10.00		64	59	61	84	7	11	28.29	29.79
24	OVC	100	10.00		61	54	57	78	5	12	28.58	30.08	24	OVC	028	10.00		62	61	61	96	5	14	28.35	29.83
SUNRISE: 0414 JUN 17					SUNSET: 2005					SUNRISE: 0415 JUN 23					SUNSET: 2007										
03	OVC	075	10.00		62	58	60	86	0	00	28.57	30.07	03	OVC	002	4.00	-RA BR	62	62	62	100	22	15	28.26	29.74
06	OVC	039	4.00	-RA BR	62	59	60	90	0	00	28.57	30.07	06	SCT	NC	10.00		65	62	63	90	7	27	28.27	29.76
09	OVC	090	5.00	-RA BR	61	59	60	93	0	00	28.55	30.06	09	CLR	NC	10.00		69	62	65	78	12	19	28.30	29.80
12	FEW	NC	9.00		67	62	64	84	7	17	28.51	30.02	12	BKN	018	9.00		72	65	67	79	10	18	28.31	29.80
15	BKN	080	10.00		77	64	69	64	9	23	28.45	29.94	15	BKN	022	8.00		74	66	69	76	3	VR	28.32	29.81
18	SCT	NC	10.00		73	65	68	76	9	20	28.40	29.89	18	FEW	NC	9.00	-RA	72	66	68	82	8	10	28.32	29.81
21	SCT	NC	10.00		64	62	63	93	9	28	28.43	29.93	21	CLR	NC	8.00		66	63	64	90	9	09	28.31	29.80
24	SCT	NC	10.00		61	56	58	84	3	17	28.45	29.95	24	CLR	NC	9.00		65	63	64	93	10	11	28.33	29.82
SUNRISE: 0414 JUN 18					SUNSET: 2005					SUNRISE: 0415 JUN 24					SUNSET: 2007										
03	FEW	NC	10.00		57	55	56	93	0	00	28.44	29.94	03	SCT	NC	7.00		61	60	60	97	7	12	28.33	29.83
06	SCT	NC	10.00		62	55	58	78	12	34	28.46	29.96	06	OVC	003	3.00	BR	62	61	61	96	7	12	28.34	29.83
09	FEW	NC	10.00		70	51	59	51	8	35	28.49	29.99	09	BKN	090	9.00		72	66	68	82	7	VR	28.37	29.86
12	FEW	NC	10.00		74	44	57	34	13	01	28.50	29.99	12	SCT	NC	9.00		74	65	68	74	8	13	28.35	29.84
15	SCT	NC	10.00		72	41	55	33	9	01	28.49	29.99	15	SCT	NC	10.00		79	66	70	65	0	00	28.38	29.87
18	FEW	NC	10.00		73	42	56	33	12	36	28.48	29.98	18	BKN	080	10.00	TS	72	64	67	76	6	12	28.39	29.88
21	FEW	NC	10.00		63	48	55	58	3	36	28.53	30.04	21	OVC	080	10.00		68	63	65	84	13	10	28.36	29.85
24	BKN	090	10.00		56	46	51	70	6	03	28.58	30.09	24	BKN	003	0.50	-RA FG	63	63	63	100	5	11	28.31	29.80



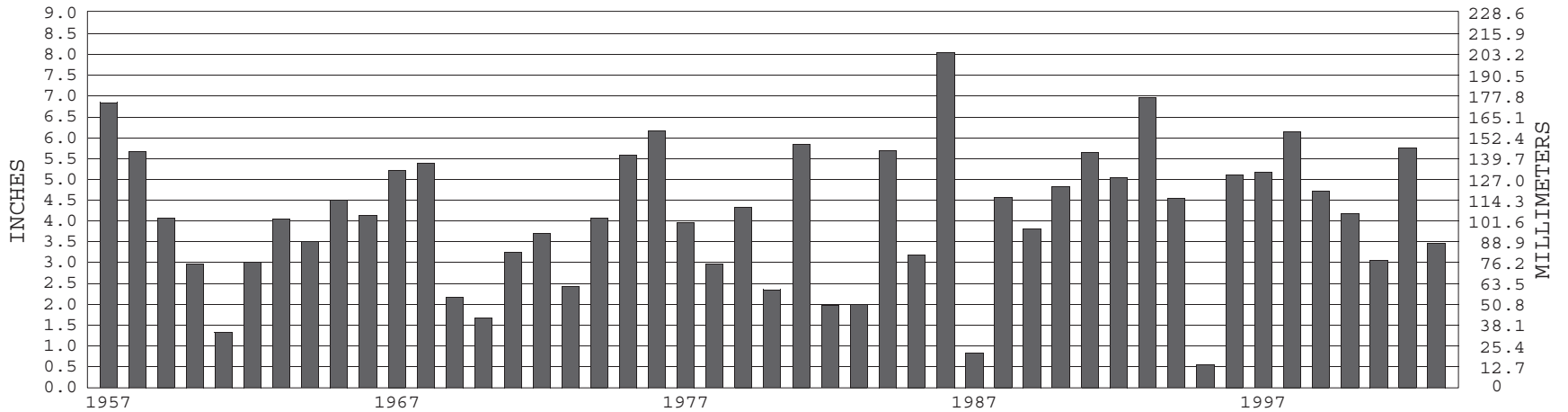
### DULUTH, MN JUNE TEMPERATURES



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

Long-Term (1957-2003) Mean: 59.5      1961-1990 Normal: 59.9

### DULUTH, MN JUNE PRECIPITATION



Long-Term (1957-2003) Mean Monthly Total: 4.14

1961-1990 Normal: 4.25



JUNE 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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