



JULY 2002

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

## MARQUETTE, MI

MARQUETTE MICHIGAN COUNTY ARPT (MQT)

Lat: 46°32' N Long: 87°34' W Elev (Ground): 1415 Feet

Time Zone: EASTERN WBAN: 94850 ISSN #:0198-2648

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		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																																		
																			PEAK		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	95*	74	85*	22			0	20		0		0.0	0.00											01																													
02	90	66	78	15			0	13		0		0.0	0.15											02																													
03	83	60	72	9			0	7		0		0.0	0.01											03																													
04	65	50	58*	-5			7	0		0		0.0	0.00											04																													
05	73	49	61	-2			4	0		0		0.0	T											05																													
06	87	59	73	9			0	8			0		0.0	0.00										06																													
07	83	68	76	12			0	11			0		0.0	0.03										07																													
08	81	63	72	8			0	7			0		0.0	0.45										08																													
09	71	53	62	-2			3	0			0		0.0	0.00										09																													
10	76	49	63	-1			2	0			0		0.0	0.00										10																													
11	76	46	61	-3			4	0			0		0.0	0.00										11																													
12	83	52	68	4			0	3			0		0.0	0.00										12																													
13	84	55	70	6			0	5			0		0.0	0.00										13																													
14	86	58	72	8			0	7			0		0.0	0.00										14																													
15	85	65	75	11			0	10			0		0.0	0.00										15																													
16	92	66	79	14			0	14			0		0.0	0.00										16																													
17	88	61	75	10			0	10			0		0.0	0.00										17																													
18	68	49	59	-6			6	0			0		0.0	0.00										18																													
19	81	46*	64	-1			1	0			0		0.0	0.00										19																													
20	89	58	74	9			0	9			0		0.0	T										20																													
21	91	68	80	15			0	15			0		0.0	1.07										21																													
22	79	49	64	-1			1	0			0		0.0	T										22																													
23	72	47	60	-5			5	0			0		0.0	0.00										23																													
24	79	49	64	-1			1	0			0		0.0	0.00										24																													
25	72	57	65	0			0	0			0		0.0	0.31										25																													
26	82	60	71	6			0	6			0		0.0	0.03										26																													
27	88	56	72	7			0	7			0		0.0	1.04										27																													
28	85	62	74	9			0	9			0		0.0	0.16										28																													
29	80	64	72	7			0	7			0		0.0	0.11										29																													
30	89	62	76	11			0	11			0		0.0	0.00										30																													
31	79	63	71	6			0	6			0		0.0	0.03										31																													
81.7										57.5		69.6		■ ■						1.1		6.0		< MONTHLY AVERAGES TOTALS->						0.0		3.39						<- MONTHLY AVERAGES															
6.5										4.0		5.2		■ ■		<-----		-----		DEPARTURE FROM NORMAL		----->				0.38		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.20 DATE : 27-28									SEA LEVEL PRESSURE									DATE			TIME																							
MONTHLY									GREATEST 24-HR SNOWFALL: 0.0 DATE :									MAXIMUM																																			
TOTAL DEPARTURE									SEASON TO DATE									MINIMUM																																			
									TOTAL DEPARTURE																																												
HEATING: 34 -58									34 -58									NUMBER OF DAYS WITH ➔									MAXIMUM TEMP ≥ 90: 4									MINIMUM TEMP ≤ 32: 0									PRECIPITATION ≥ 0.01 INCH : 11								
COOLING: 185 113									273 159																		MAXIMUM TEMP ≤ 32: 0									MINIMUM TEMP ≤ 0: 0									PRECIPITATION ≥ 0.10 INCH : 7								
																																				HEAVY FOG									SNOWFALL ≥ 1.0 INCH : 0								

## 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 0.25 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		
DESCRIPTOR	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			

## MARQUETTE, MI JULY 2002

Sky Cover is the mean cloud cover observed from 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).

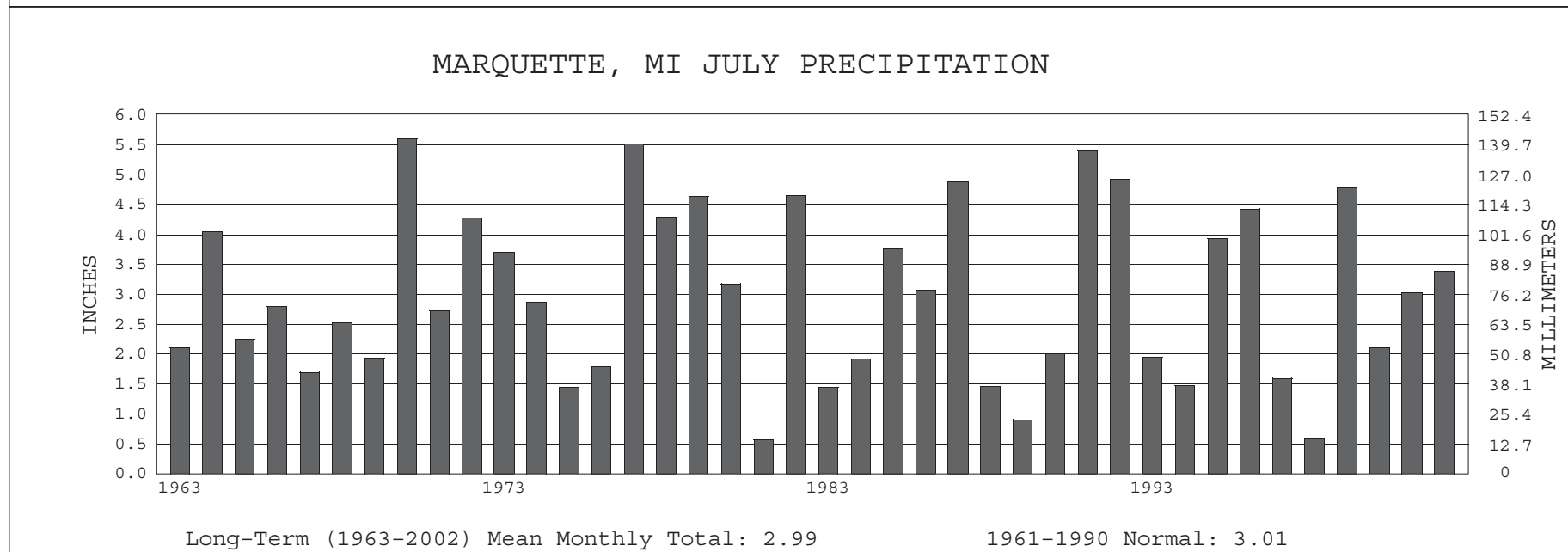
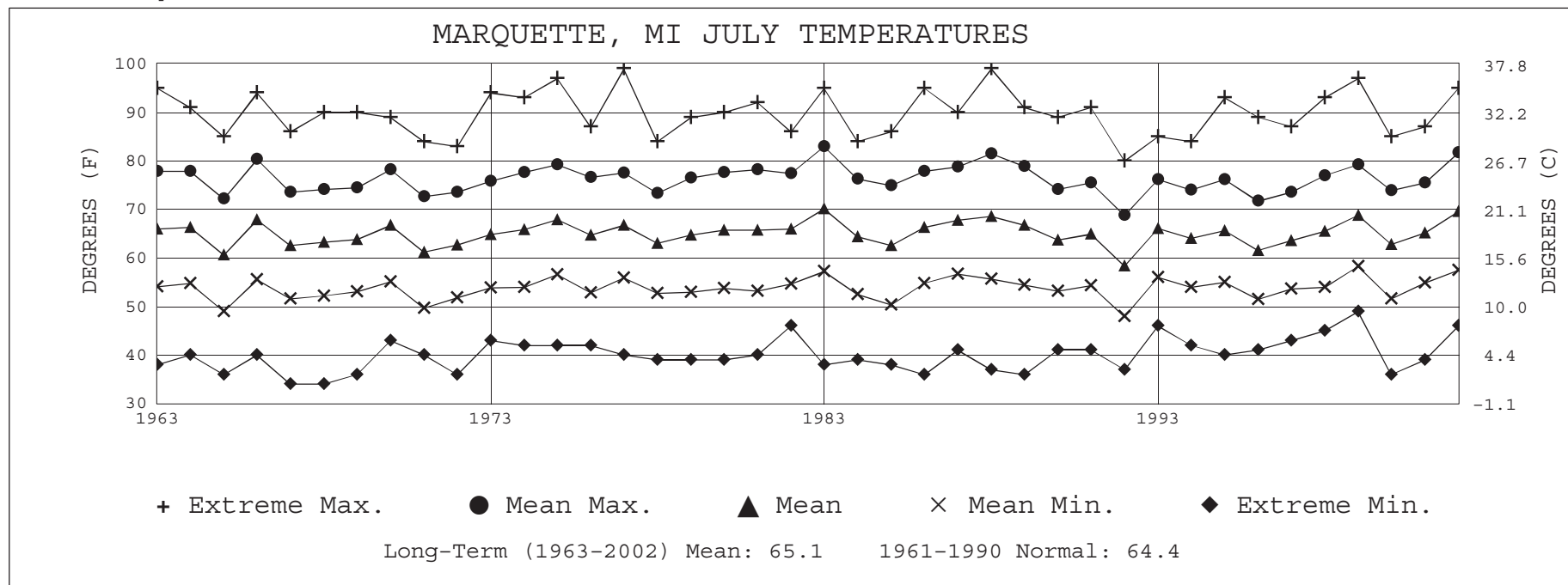
Sky Condition is based on the SR–SS sky cover.  
Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			SKY COVER	SATELLITE	SKY COVER	SATELLITE			
01	946	100							
02	842	89							
03	890	94							
04	911	97							
05	838	89							
06	941	100							
07	808	86							
08	829	88							
09	895	95							
10	897	96							
11	935	100							
12	933	100							
13	899	97							
14	888	95							
15	900	96							
16	888	96							
17	883	96							
18	876	95							
19	879	96							
20	823	90							
21	593	65							
22	804	88							
23	886	97							
24	883	97							
25	67	7							
26	879	97							
27	819	91							
28	850	94							
29	655	73							
30	869	97							
31	844	94							
MONTHLY AVGS									
SUNSHINE (MINUTES)									
Total: 25850    Possible: 28638									
Percent Possible: 90									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR   PTLY CLDY   CLOUDY   MISSING									
31									
MINIMUM VISIBILITY (MILES)									
<=0.25    <=3.0    >=7.0									





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*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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