



JUNE 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	73	51	62	6			3	0		0		0.0	0.00																												
02	54	35	45*	-11			20	0		0		0.0	0.00																												
03	61	34*	48	-8			17	0		0		0.0	0.00																												
04	51	43	47	-10			18	0		0		0.0	0.17																												
05	66	42	54	-3			11	0		0		0.0	T																												
06	76	39	58	1			7	0		0		0.0	0.10																												
07	75	56	66	9			0	1		0		0.0	0.67																												
08	75	52	64	6			1	0		0		0.0	0.08																												
09	75	48	62	4			3	0		0		0.0	0.00																												
10	90	56	73	15			0	8		0		0.0	0.06																												
11	71	48	60	2			5	0		0		0.0	0.33																												
12	60	45	53	-6			12	0		0		0.0	0.11																												
13	66	47	57	-2			8	0		0		0.0	0.10																												
14	64	43	54	-5			11	0		0		0.0	0.31																												
15	57	48	53	-6			12	0		0		0.0	0.30																												
16	68	49	59	0			6	0		0		0.0	0.00																												
17	65	44	55	-5			10	0		0		0.0	0.00																												
18	77	40	59	-1			6	0		0		0.0	0.00																												
19	77	55	66	6			0	1		0		0.0	T																												
20	82	56	69	9			0	4		0		0.0	0.29																												
21	76	53	65	4			0	0		0		0.0	T																												
22	78	51	65	4			0	0		0		0.0	0.00																												
23	71	60	66	5			0	1		0		0.0	0.61																												
24	80	60	70	9			0	5		0		0.0	0.03																												
25	83	65	74	13			0	9		0		0.0	0.36																												
26	80	61	71	9			0	6		0		0.0	0.26																												
27	77	57	67	5			0	2		0		0.0	0.03																												
28	84	61	73	11			0	8		0		0.0	0.00																												
29	88	63	76	13			0	11		0		0.0	0.00																												
30	94*	69	82*	19			0	17		0		0.0	0.00																												
73.1										51.0		62.1		■ ■						5.0		2.4		< MONTHLY AVERAGES		TOTALS-->				0.0		3.81								<-- MONTHLY AVERAGES	
2.8										2.7		2.8		■ ■		<-----DEPARTURE FROM NORMAL----->						0.60		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																	
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.69				DATE: 07-08				SEA LEVEL PRESSURE										DATE TIME														
MONTHLY									GREATEST 24-HR SNOWFALL: 0.0				DATE: :				MAXIMUM										:														
TOTAL DEPARTURE									SEASON TO DATE				GREATEST SNOW DEPTH: 0				DATE: :				MINIMUM										:										
HEATING: 150 -43									8710 -857				NUMBER OF DAYS WITH ➔				MAXIMUM TEMP ≥ 90: 2				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH : 16																
COOLING: 73 43									88 46								MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 12																
																	THUNDERSTORMS :				HEAVY FOG :				SNOWFALL ≥ 1.0 INCH : 0																

JUNE 2002
MARQUETTE, MI

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 JUNE 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.

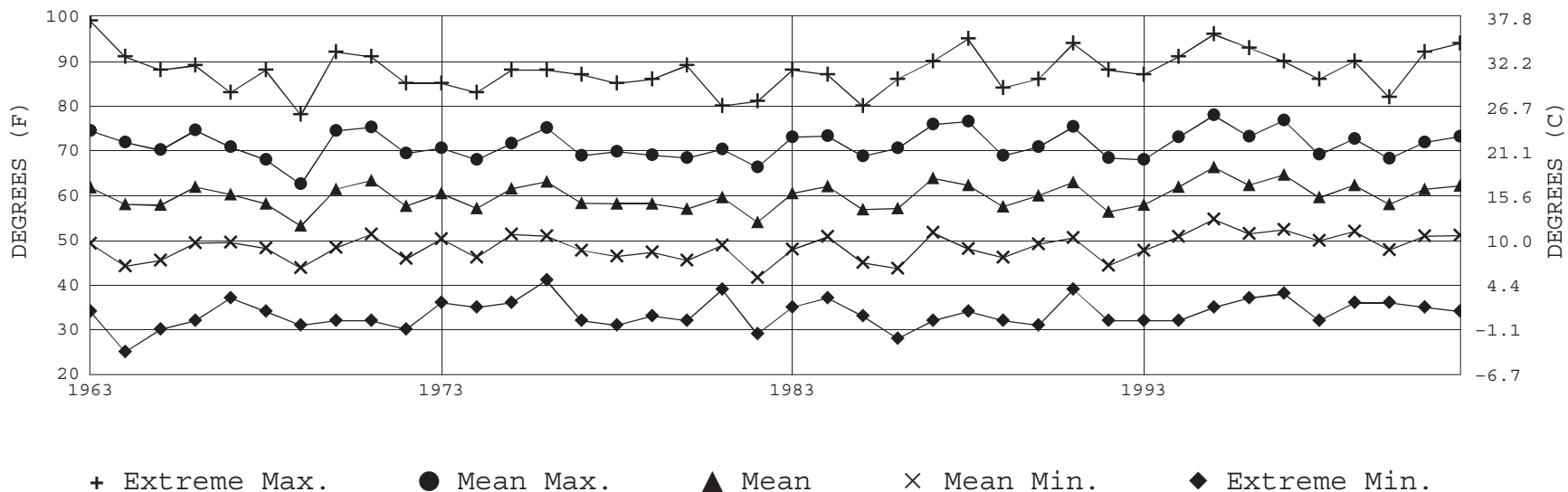
A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

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:

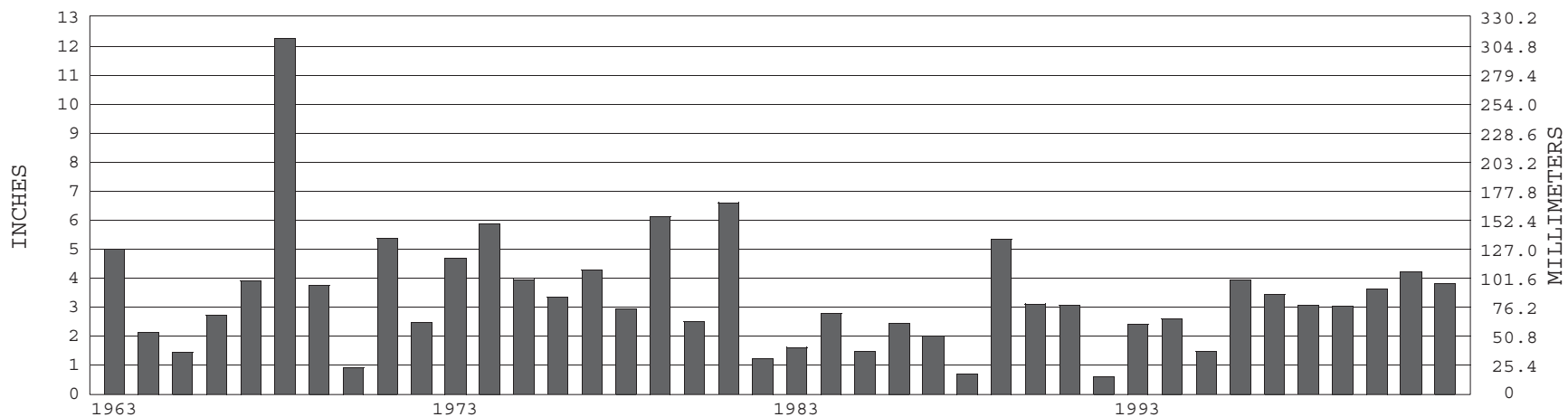
DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			SKY COVER	SATELLITE	SKY COVER	SATELLITE			
01	862	92							
02	867	93							
03	760	81							
04	0	0							
05	900	96							
06	881	94							
07	559	59							
08	788	84							
09	793	84							
10	698	74							
11	635	67							
12	468	49							
13	394	42							
14	512	54							
15	0	0							
16	882	93							
17	928	98							
18	950	100							
19	897	94							
20	825	87							
21	712	75							
22	884	93							
23	285	30							
24	870	92							
25	887	93							
26	750	79							
27	831	88							
28	948	100							
29	899	95							
30	947	100							
MONTHLY AVGS									
SUNSHINE (MINUTES)									
Total: 21612 Possible: 28349									
Percent Possible: 76									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING									
30									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0									

MARQUETTE, MI JUNE TEMPERATURES



Long-Term (1963-2002) Mean: 59.9 1961-1990 Normal: 59.3

MARQUETTE, MI JUNE PRECIPITATION



Long-Term (1963-2002) Mean Monthly Total: 3.41

1961-1990 Normal: 3.21



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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.

DIRECTOR

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