

# Southeast Michigan Climate Summary

## Monthly Temperature, Precipitation, and Severe Weather Summaries

Weather Forecast Office  
Detroit, MI



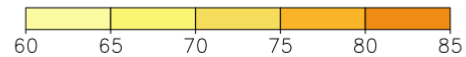
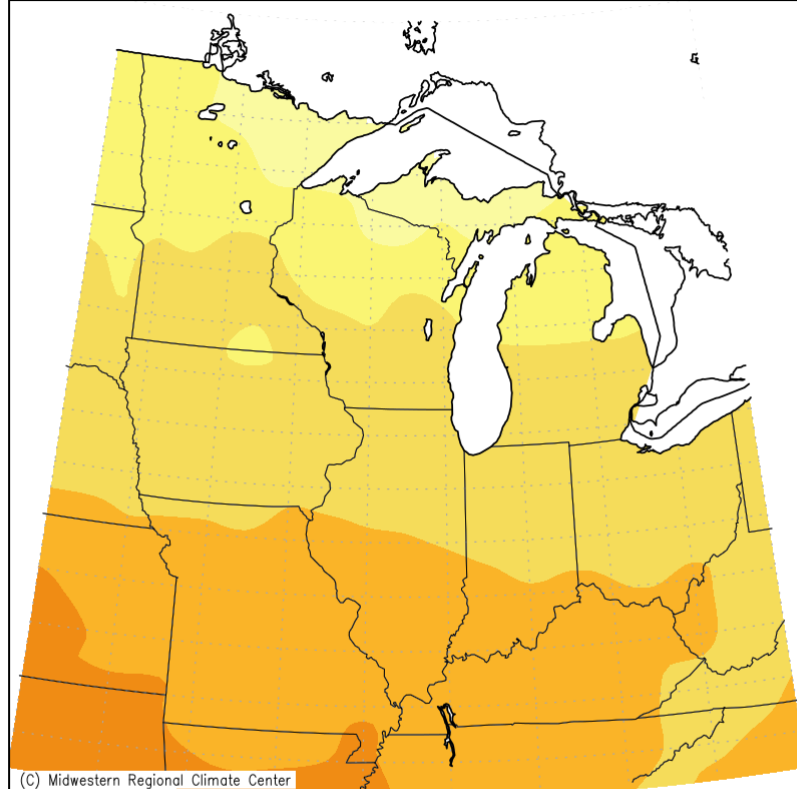
# July 2023 – Regional Temperature Summary

Weather Forecast Office  
Detroit, MI



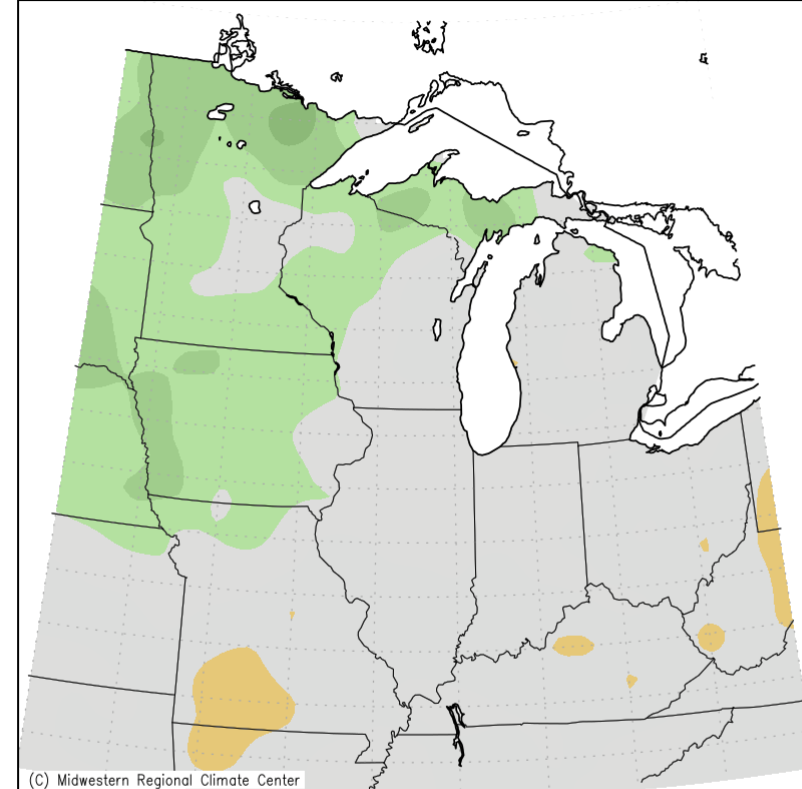
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)  
July 1, 2023 to July 31, 2023

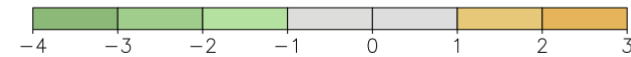


Midwestern Regional Climate Center  
Purdue University

Average Temperature (°F): Departure from Mean  
July 1, 2023 to July 31, 2023



Mean period is 1991–2020.



Midwestern Regional Climate Center  
Purdue University

# July 2023 – SE Michigan Temperature Summary

Weather Forecast Office  
Detroit, MI



Warmest, Coldest, and Averages (°F)

Location	Highest Temp	Lowest Temp	Avg High	Avg Low	Monthly Avg	Location	Highest Temp	Lowest Temp	Avg High	Avg Low	Monthly Avg
ADRIAN 2 NNE	90	52	82.5	61.4	72.0	HARBOR BEACH 1 SSE	88	56	77.3	61.3	69.3
ADRIAN LENAWEE CO AP	90	52	83.0	62.5	72.7	LAPEER 2W	94	54	82.6	61.0	71.8
ALGONAC WWTP	93	55	84.2	60.8	72.5	LAPEER WWTP	92	54	82.5	61.5	72.0
ANN ARBOR MNCPL AP	89	46	81.6	57.1	69.4	LEXINGTON WATER PLANT	89	56	78.4	61.6	70.0
ANN ARBOR SE	90	52	82.4	60.6	71.5	MANCHESTER	90	52	83.2	60.1	71.6
ANN ARBOR U OF MICH	90	50	82.5	59.6	71.1	MIDLAND	87	53	77.6	59.6	68.6
BAD AXE	91	54	80.4	60.7	70.5	MORENCI	90	54	82.4	61.5	71.9
CARO WWTP	90	55	80.9	60.2	70.6	OIL CITY 2S	89	50	79.4	57.5	68.4
CASS CITY 1 SSW	89	53	79.5	58.4	69.0	OWOSSO WWTP	92	54	81.5	60.6	71.1
CHELSEA	90	51	82.5	60.8	71.6	PONTIAC INTL AP	90	56	81.2	63.0	72.1
DEARBORN NO. 2	91	59	83.6	65.9	74.8	PONTIAC WWTP	91	57	82.3	63.1	72.7
DETROIT CITY AP	91	63	84.5	67.3	75.9	PORT AUSTIN WWTP	88	55	77.7	60.8	69.2
<b>DETROIT METRO AIRPORT</b>	<b>90</b>	<b>59</b>	<b>82.1</b>	<b>65.3</b>	<b>73.7</b>	PORT HOPE	89	57	77.6	63.2	70.4
DETROIT WILLOW RUN AP	89	53	82.2	62.5	72.3	PORT HURON	91	61	80.9	65.7	73.3
DUNDEE	91	54	84.0	62.7	73.4	RICHMOND 4 NNW	92	55	82.4	61.9	72.1
DURAND WWTP	90	53	82.3	60.1	71.2	SAGINAW #3	91	56	81.3	61.3	71.3
FARMINGTON	91	55	82.5	61.1	71.8	<b>SAGINAW MBS INTL AP</b>	<b>92</b>	<b>56</b>	<b>81.7</b>	<b>62.1</b>	<b>71.9</b>
FILION 5NNW	91	55	80.5	62.0	71.2	SALINE 4SW	92	51	85.3	60.9	73.1
FLINT 7W	89	54	79.6	60.6	70.1	TECUMSEH	89	53	82.5	60.8	71.7
<b>FLINT FCWOS</b>	<b>91</b>	<b>52</b>	<b>82.9</b>	<b>60.8</b>	<b>71.8</b>	WHITE LAKE 4E	91	50	81.6	58.3	70.0
GOODRICH	90	54	81.2	61.7	71.5	WHITMORE LAKE 1NW	89	53	82.0	60.5	71.2
GROSSE POINTE FARMS	94	59	83.5	65.1	74.3						



## Top 20 Coldest/Warmest Julys in Southeast Lower Michigan (°F)

Rank	Detroit Area*				Flint Bishop**				Saginaw Area***			
	Coldest		Warmest		Coldest		Warmest		Coldest		Warmest	
	Temp	Year	Temp	Year	Temp	Year	Temp	Year	Temp	Year	Temp	Year
1	67.1	1891	79.3	2011	65.6	2009	78.0	1921	66.0	2009	77.5	1921
2	68.8	1992	79.0	1955	66.9	1992	77.7	1935	66.2	1992	76.8	1916
3	68.9	2009	79.0	2012	67.3	1967	76.8	2011	67.1	1924	76.4	2012
4	68.9	1967	79.0	1921	67.3	1962	76.7	1934	67.2	1920	76.2	1935
5	69.6	1971	77.9	1916	67.4	1971	76.5	1955	67.3	1945	76.1	2011
6	69.6	1875	77.7	1931	67.4	1960	76.1	2012	67.5	1962	76.0	1931
7	69.7	1920	77.5	2020	67.5	2000	76.1	1931	67.5	1956	75.9	2020
8	69.9	2014	77.1	1988	67.6	1996	76.0	2016	67.8	1950	75.9	1955
9	69.9	1924	76.8	2019	68.3	2014	75.9	1936	67.9	2000	75.9	1936
10	69.9	1884	76.8	1999	68.3	1950	75.8	1933	68.2	1965	75.8	1988
11	70.2	2000	76.8	2016	68.4	2004	75.5	1987	68.4	2014	75.5	1934
12	70.3	1882	76.8	1901	68.4	1965	75.2	1988	68.4	1985	75.3	1933
13	70.4	1979	76.6	2010	68.6	1956	75.0	2019	68.5	2004	74.4	2019
14	70.4	1965	76.5	2002	68.6	1968	74.9	2002	68.6	1981	74.3	2010
15	70.4	1915	76.5	1952	68.6	1945	74.7	2020	68.6	1925	74.2	1930
16	70.4	1895	76.2	1949	69.0	1969	74.5	1949	68.7	1947	74.1	1983
17	70.6	1996	76.2	1935	69.1	1947	74.5	1939	68.8	1979	74.1	1937
18	70.6	1978	76.1	2006	69.2	1924	74.2	2010	68.8	1915	73.9	1987
19	70.7	1984	76.0	1987	69.4	1997	74.0	1983	69.1	1978	73.5	2006
20	70.7	1945	75.9	2018	69.4	1954	73.8	1977	69.1	1951	73.5	2002

\* Detroit Area temperature records date back to January 1874.

\*\* Flint Bishop temperature records date back to January 1921.

\*\*\* Saginaw Area temperature records date back to January 1912.

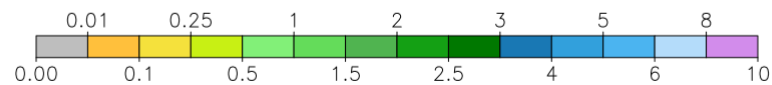
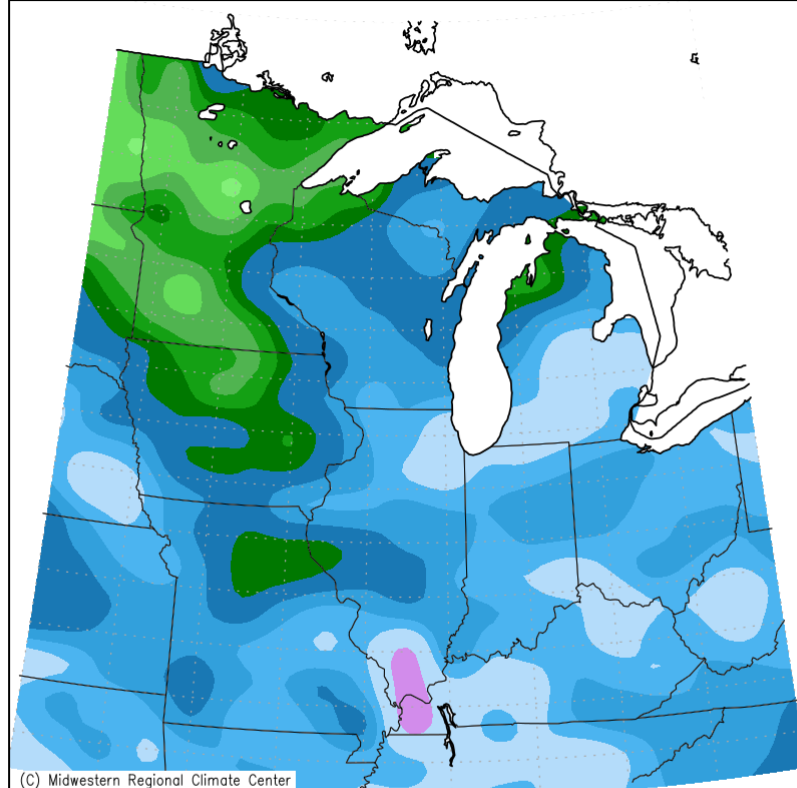
# July 2023 – Regional Precipitation Summary

Weather Forecast Office  
Detroit, MI



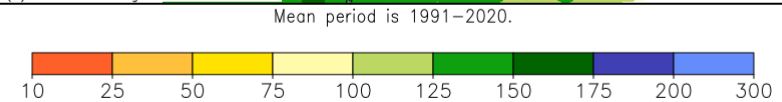
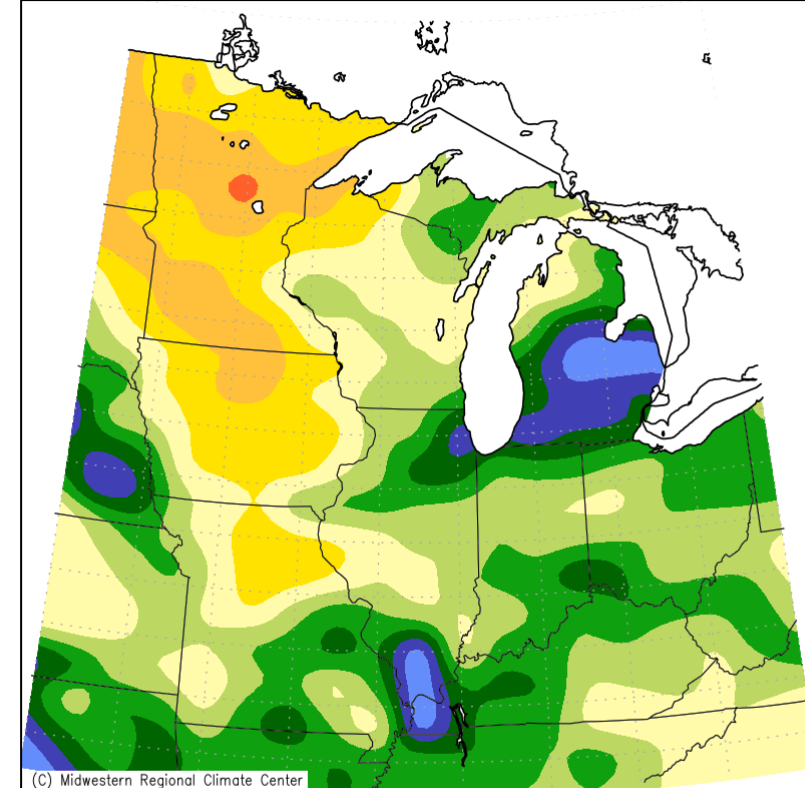
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

Accumulated Precipitation (in)  
July 1, 2023 to July 31, 2023



Midwestern Regional Climate Center  
Purdue University

Accumulated Precipitation: Percent of Mean  
July 1, 2023 to July 31, 2023



Midwestern Regional Climate Center  
Purdue University

# July 2023 – SE Michigan Precipitation Summary

Weather Forecast Office  
Detroit, MI



Highest daily total, monthly total, and total number of days of measureable precip (in.)

Location	Highest Daily Total	Monthly Total	# of Days with Precip	Location	Highest Daily Total	Monthly Total	# of Days with Precip	Location	Highest Daily Total	Monthly Total	# of Days with Precip
ADRIAN 2 NNE	2.25	6.63	12	DETROIT CITY AP	1.31	5.02	15	MILLINGTON 3 SE	4.49	9.63	12
ADRIAN LENAWEE CO AP	2.35	5.50	12	<b>DETROIT METRO AIRPORT</b>	<b>1.19</b>	<b>5.37</b>	<b>13</b>	MONROE 3.0 S	2.72	5.88	13
ALGONAC WWTP	1.05	5.01	13	DETROIT WILLOW RUN AP	1.74	6.57	14	MORENCI	2.52	6.34	12
ANN ARBOR 3.0 SE	1.31	5.56	11	DEXTER 2.2 SE	1.63	6.23	13	NEW BALTIMORE 0.4 SSE	1.06	5.86	13
ANN ARBOR 4.3 WSW	1.68	7.03	14	DURAND 6.2 WNW	3.08	6.70	14	OWOSSO WWTP	3.90	8.39	12
ANN ARBOR 4.5 W	1.57	6.28	13	DURAND WWTP	2.86	5.81	11	PLYMOUTH 5.4 W	1.19	5.47	12
ANN ARBOR SE	1.27	5.55	12	EASTPOINTE 1.2 SSW	0.81	4.91	15	PONTIAC WWTP	1.36	5.01	13
ANN ARBOR U OF MICH	1.33	5.73	17	FARMINGTON	1.07	5.15	16	PORT HOPE	0.58	3.10	13
BAD AXE	1.16	4.18	14	FENTON 2.7 SSE	2.35	5.90	16	PORT HURON	1.94	7.14	15
BAY PORT 3.2 SSW	1.70	7.00	16	FENTON 5.6 WSW	4.45	8.04	14	PORT HURON 1.6 W	3.67	7.60	11
BELLEVILLE 2.8 ESE	1.59	6.58	11	FENTON 6.2 WSW	4.45	7.77	12	RICHMOND 4 NNW	2.58	7.71	11
BERKLEY 0.6 N	1.15	4.07	12	FILION 5NNW	0.95	2.89	12	ROSEVILLE 1.7 ENE	1.32	5.98	13
BLOOMFIELD TWP 3.1 SW	1.45	5.20	12	FLINT 7W	2.65	6.21	12	SAGINAW 6.4 W	1.65	5.20	14
CANTON 2.7 N	0.95	5.04	12	<b>FLINT FCWOS</b>	<b>2.00</b>	<b>5.03</b>	<b>13</b>	SAGINAW #3	1.90	5.95	13
CARLETON 2.5 S	0.98	4.51	13	GOODRICH	2.72	6.17	12	<b>SAGINAW MBS INTL AP</b>	<b>1.46</b>	<b>6.90</b>	<b>15</b>
CARO WWTP	1.80	7.05	15	GROSSE POINTE FARMS	1.23	6.05	14	SALINE 3.8 SSW	1.48	4.05	11
CASS CITY 1 SSW	1.38	6.37	13	HARBOR BEACH 1 SSE	1.20	4.81	13	SALINE 4SW	1.50	3.95	11
CHELSEA	1.92	6.73	13	HOWELL 3.7 WSW	1.27	6.16	14	SOUTH LYON 2.6 SW	0.75	3.25	12
CHELSEA 3.7 NNE	1.60	5.84	13	HOWELL 4.9 ESE	1.51	6.21	15	ST CHARLES 5.0 W	2.06	5.56	14
CHESANING	2.15	6.01	13	LAPEER 2W	1.51	5.90	13	STERLING HGHTS 2.2 NNE	1.03	4.57	17
CHESTERFIELD 2.4 E	2.36	8.05	17	LAPEER WWTP	3.20	10.39	12	WHITE LAKE 0.5 E	1.04	4.75	14
CLAWSON 0.5 S	1.82	5.29	13	MANCHESTER	2.01	6.77	12	WHITE LAKE 4E	1.22	5.02	16
CLINTON 0.5 NE	3.62	7.24	11	MIDLAND	1.66	7.78	14	WHITMORE LAKE 1NW	0.84	3.54	12
DAVISON 5.2 N	2.27	4.26	11	MIDLAND 1.5 NNE	1.80	6.43	16	WYANDOTTE	1.32	7.24	14
DEARBORN HGHTS 1.8 NW	0.99	6.05	16	MIDLAND 4.7 SSE	2.02	5.85	15				

# July – Top 20 Wettest/Driest on Record

Weather Forecast Office  
Detroit, MI



## Top 20 Wettest/Driest Julys in Southeast Lower Michigan (in.)

Rank	Detroit Area*				Flint Bishop**				Saginaw Area***			
	Wettest		Driest		Wettest		Driest		Wettest		Driest	
	Total	Year	Total	Year	Total	Year	Total	Year	Total	Year	Total	Year
1	8.76	1878	0.50	1930	9.35	1992	0.16	1939	6.90	2023	0.38	1930
2	7.66	2011	0.59	1974	8.55	2000	0.39	1930	6.83	1950	0.44	1939
3	7.55	1902	0.74	1918	7.92	1957	0.67	1931	6.42	1912	0.45	1989
4	7.03	1937	0.78	1924	7.73	1932	0.73	1978	6.38	1952	0.65	1968
5	6.99	1915	0.79	1911	6.43	2011	0.83	1944	5.63	1928	0.74	1948
6	6.94	1925	0.81	1936	6.03	1945	0.87	1954	5.33	1964	0.78	1987
7	6.22	1879	0.95	1984	5.92	1969	0.88	1946	5.31	1980	0.82	1916
8	6.02	1969	0.99	1916	5.76	2014	1.05	1933	5.19	1924	0.92	1984
9	6.01	1943	1.10	1955	5.61	1980	1.08	1934	5.09	1996	0.93	1978
10	5.98	1957	1.10	1946	5.55	1959	1.11	1940	4.83	1957	0.98	1941
11	5.96	2010	1.16	2001	5.43	2005	1.13	1998	4.75	1913	1.01	1965
12	5.94	1909	1.17	1940	5.13	1950	1.19	1960	4.70	1999	1.08	2013
13	5.94	1876	1.20	1956	5.03	2023	1.37	2018	4.47	1947	1.10	1921
14	5.91	1992	1.20	1944	4.77	1923	1.38	1963	4.45	2012	1.11	1954
15	5.74	1880	1.23	1991	4.56	1947	1.43	1943	4.43	1994	1.11	1935
16	5.72	1998	1.24	1926	4.55	1922	1.47	1926	4.34	2021	1.13	1933
17	5.50	1901	1.27	1959	4.53	1952	1.51	1966	4.25	1992	1.14	2004
18	5.40	2000	1.31	1887	4.44	1937	1.53	1955	4.25	1923	1.22	1918
19	5.39	1896	1.44	1960	4.29	2021	1.57	1929	4.19	1997	1.23	1931
20	5.38	2005	1.47	1990	4.26	2006	1.60	2022	4.19	1991	1.23	1929

\* Detroit Area precipitation records date back to November 1874.

\*\* Flint Bishop precipitation records date back to January 1921.

\*\*\* Saginaw Area precipitation records date back to January 1912.

# July 2023 – Significant Weather Events

Weather Forecast Office  
Detroit, MI



Follow links for web summaries

## July 11 Severe Weather

[weather.gov/dtx/severeweather07112023](https://weather.gov/dtx/severeweather07112023)



## July 14 Lexington Tornado and Severe Weather

[weather.gov/dtx/severeweather07142023](https://weather.gov/dtx/severeweather07142023)



## July 20 Severe Weather

[weather.gov/dtx/severeweather07202023](https://weather.gov/dtx/severeweather07202023)



## July 26 Severe Weather

[weather.gov/dtx/severeweather07262023](https://weather.gov/dtx/severeweather07262023)







NOWData Observed Weather Climate Prediction and Variability Local Data/Records Climate Resources

### NOWData - NOAA Online Weather Data

1. Location » 2. Product » 3. Options » 4. View »

**View map**

- ☑ Daily data for a month
- Daily almanac
- Monthly summarized data
- Calendar day summaries
- Daily/monthly normals
- Climatology for a day
- First/last dates
- Temperature graphs
- Accumulation graphs

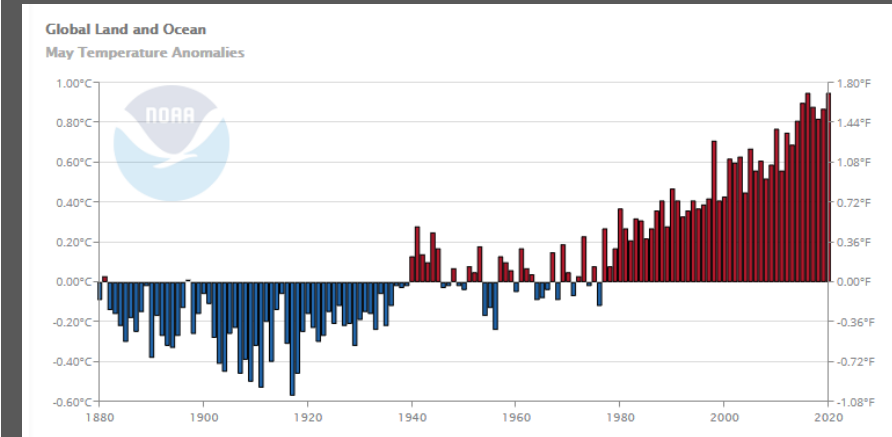
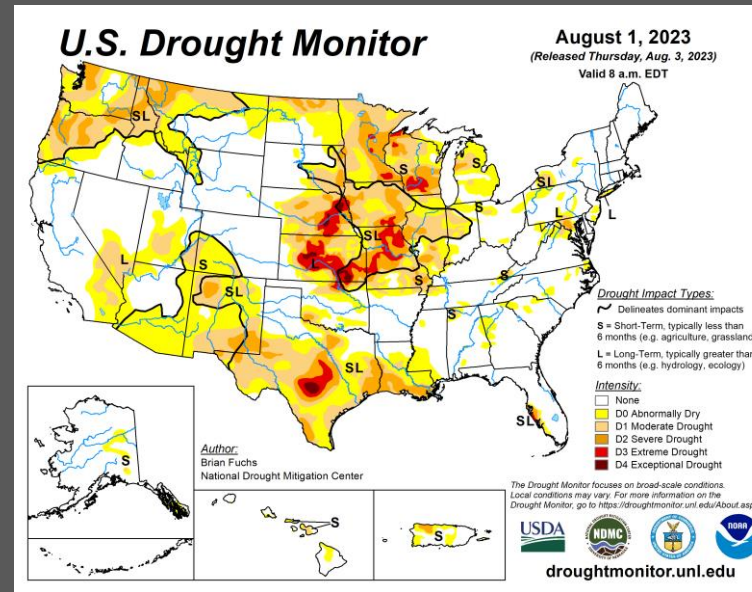
Date: 2021-08 **Go**

**Product Description:**  
DAILY DATA FOR A MONTH - daily maximum, minimum and average temperature (degrees F), average temperature departure from normal (degrees F), heating and cooling degree days (base 65), precipitation, snowfall and snow depth (inches) for all days of the selected month. Basic monthly summary statistics are also provided.

**Author:**  
Brian Fuchs  
National Drought Mitigation Center

**Powered by:**  
CACIS  
10/22 Regional Climate Centers

The Applied Climate Information System (ACIS) is a joint project of the Regional Climate Centers, the National Centers for Environmental Information (NCEI) and the National Weather Service. Official data and data for additional locations are available from the Regional Climate Centers and NCEI.



**SE Michigan Climate Products**

[weather.gov/wrh/climate?wfo=dtx](http://weather.gov/wrh/climate?wfo=dtx)

**U.S. Drought Monitor**

[drought.gov/drought/data-maps-tools/current-conditions](http://drought.gov/drought/data-maps-tools/current-conditions)

**NOAA NCEI Climate at a Glance**

[ncdc.noaa.gov/cag/](http://ncdc.noaa.gov/cag/)

Thank you to our COOP and CoCoRaHS volunteer weather observers!