

Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, and Severe Weather Summaries

Weather Forecast Office
Detroit, MI



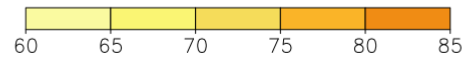
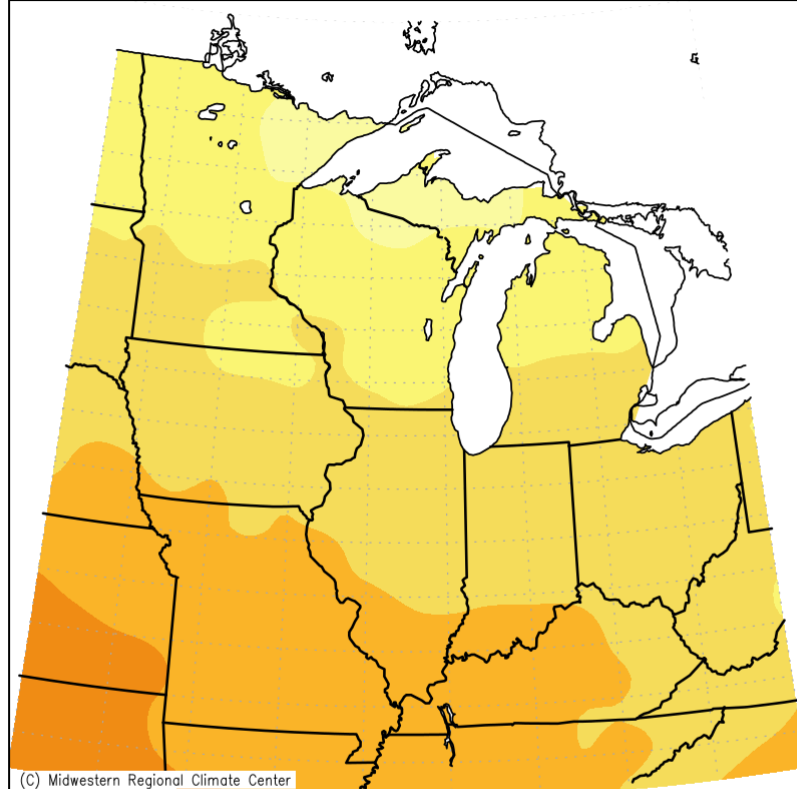
August 2022 – Regional Temperature Summary

Weather Forecast Office
Detroit, MI



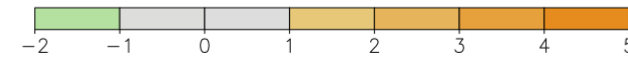
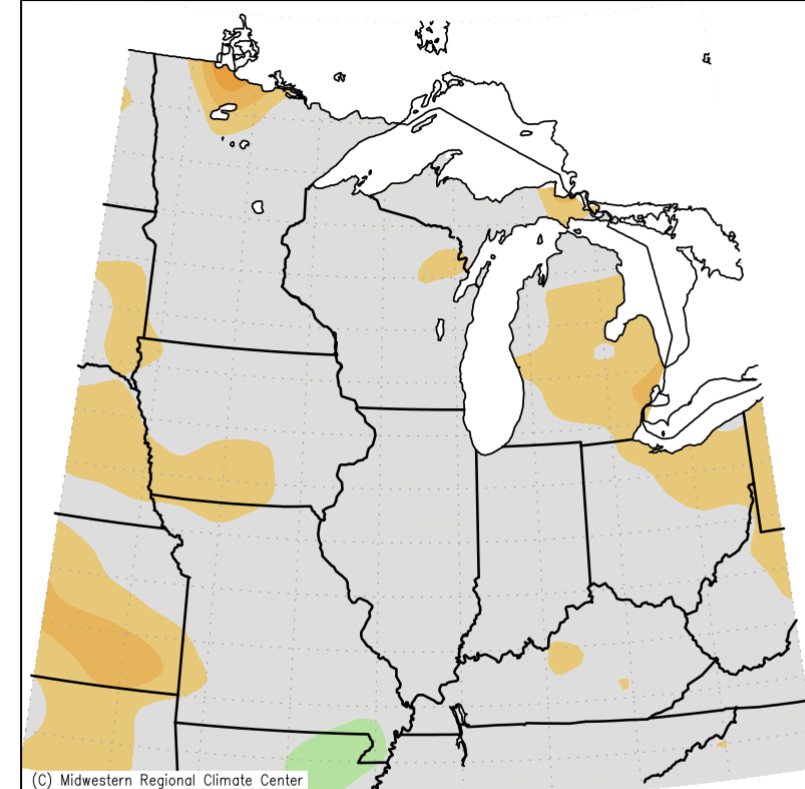
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)
August 1, 2022 to August 31, 2022



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 9/1/2022 9:37:23 AM CDT

Average Temperature (°F): Departure from Mean
August 1, 2022 to August 31, 2022



Midwestern Regional Climate Center
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August 2022 – 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	92	50	81.7	60.9	71.3	FLINT FCWOS	94	47	82.8	58.7	70.8
ADRIAN LENAWEE CO AP	95	50	81.3	60.6	71.0	GOODRICH	91	49	81.5	59.8	70.7
ALGONAC WWTP	95	53	85.1	60.8	72.9	GROSSE POINTE FARMS	98	57	84.4	65.3	74.9
ANN ARBOR MUNICIPAL AP	93	42	82.6	56.8	69.7	HARBOR BEACH 1 SSE	88	52	77.0	60.6	68.8
ANN ARBOR SE	93	48	82.7	59.3	71.0	LAPEER 2W	92	48	81.6	59.8	70.7
ANN ARBOR U OF MICH	93	46	82.9	59.3	71.1	LAPEER WWTP	93	50	82.4	60.1	71.3
BAD AXE	91	52	79.8	59.5	69.7	MANCHESTER	91	48	82.5	59.7	71.1
BURTON 4N	91	48	81.3	58.3	69.8	MORENCI	93	49	81.4	58.5	70.0
CARO WWTP	91	49	81.3	59.5	70.4	OWOSSO WWTP	91	50	81.8	59.7	70.8
CASS CITY 1 SSW	89	47	79.8	57.3	68.5	PONTIAC INTL AP	94	54	81.9	62.2	72.0
CHELSEA	93	48	82.1	60.0	71.0	PONTIAC WWTP	95	55	82.9	62.5	72.7
DEARBORN	96	52	83.5	63.7	73.6	PORT HOPE	90	55	78.4	64.0	71.2
DEARBORN NO. 2	94	54	84.5	65.4	74.9	PORT HURON	89	57	82.2	66.0	74.1
DETROIT CITY AP	95	58	85.0	66.6	75.8	RICHMOND 4 NNW	91	52	80.5	60.5	70.5
DETROIT METRO AIRPORT	95	55	84.4	64.4	74.4	SAGINAW #3	91	49	81.6	60.4	71.0
DETROIT WILLOW RUN AP	99	53	86.5	64.1	75.3	SAGINAW MBS INTL AP	91	50	80.8	60.9	70.8
DURAND WWTP	91	50	82.1	59.5	70.8	SALINE 4SW	96	48	84.9	59.9	72.4
FARMINGTON	94	51	83.5	60.5	72.0	WHITE LAKE 4E	94	46	81.5	57.7	69.6
FILION 5NNW	90	53	80.9	61.1	71.0	WHITMORE LAKE 1NW	91	51	80.7	58.3	69.4

August – Top 20 Coldest/Warmest on Record

Weather Forecast Office
Detroit, MI



Top 20 Coldest/Warmest Augusts 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	65.9	1915	77.1	1995	64.7	1967	76.0	1947	64.0	1915	75.1	1937
2	66.6	1992	76.7	2016	65.0	1997	75.5	2016	64.6	1992	74.8	1947
3	66.6	1927	76.5	1947	65.2	1992	74.8	1938	65.0	1982	74.1	1959
4	66.8	1885	76.3	1959	65.2	1964	74.2	1995	65.0	1977	74.1	1955
5	66.8	1875	75.8	2018	65.3	1963	74.2	1936	65.0	1950	73.8	2021
6	67.0	1890	75.7	2021	65.5	1927	73.7	2010	65.3	1979	73.7	1995
7	67.0	1883	75.7	1955	65.6	2004	73.7	1955	65.4	1946	73.7	1969
8	67.3	1967	75.5	1900	65.9	1994	73.5	2021	65.5	1997	73.4	2016
9	67.3	1912	75.2	2010	66.0	1957	73.3	1983	65.6	2004	73.3	2010
10	67.4	1903	75.0	1988	66.3	1986	73.3	1959	65.6	1986	73.1	1936
11	67.7	1982	74.9	1938	66.3	1966	73.0	1939	65.7	1964	72.9	1938
12	67.8	1897	74.8	2005	66.4	1999	72.6	1937	65.8	1963	72.6	2018
13	67.9	1979	74.8	1918	66.4	1946	72.6	1988	66.0	1951	72.5	1932
14	68.0	1907	74.6	1916	66.5	1924	72.6	1935	66.0	1912	72.4	1931
15	68.0	1902	74.5	1906	66.6	1982	72.2	1944	66.3	1999	72.3	1998
16	68.1	1997	74.4	2022	66.6	1951	71.9	2018	66.3	1923	72.3	1918
17	68.1	1904	74.4	1993	66.8	1979	71.9	1931	66.4	1924	72.1	1930
18	68.3	1946	74.3	1944	66.8	1950	71.8	1984	66.5	1972	72.0	1973
19	68.5	2004	74.2	1953	66.9	2017	71.7	1933	66.5	1927	71.9	1988
20	68.5	1887	74.2	1881	67.2	1985	71.6	1926	66.8	1994	71.9	2020

* Detroit Area temperature records date back to January 1874.

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

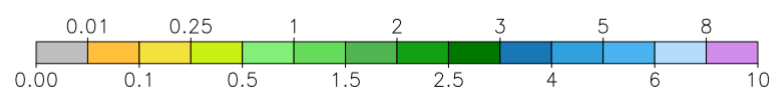
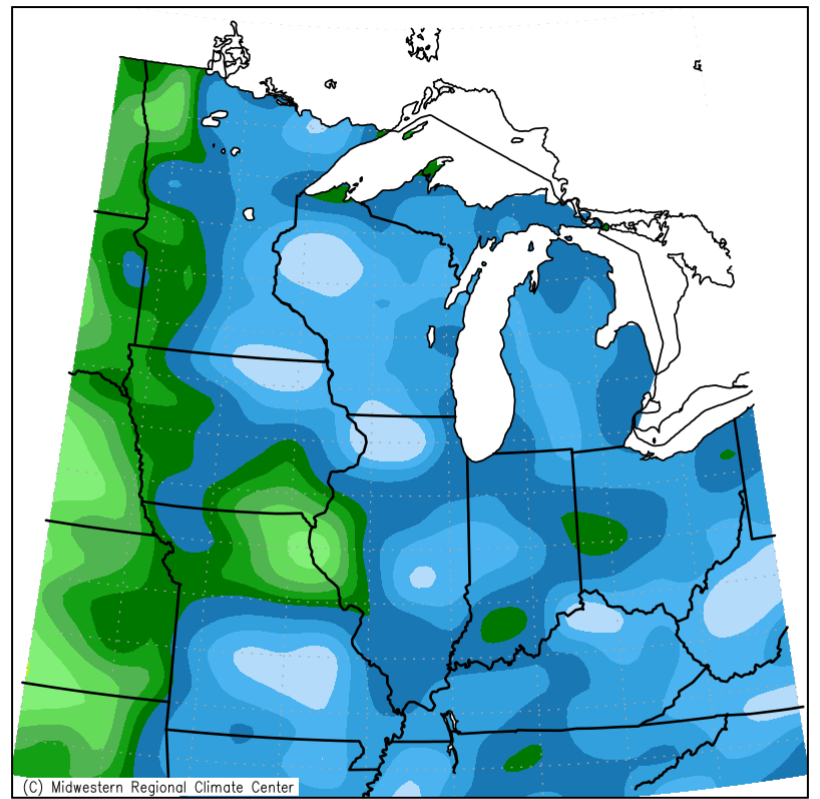
*** Saginaw Area temperature records date back to January 1912.

August 2022 – Regional Precipitation Summary



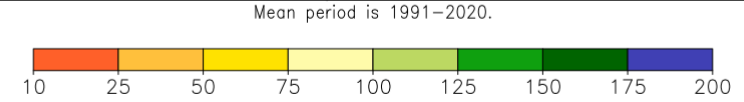
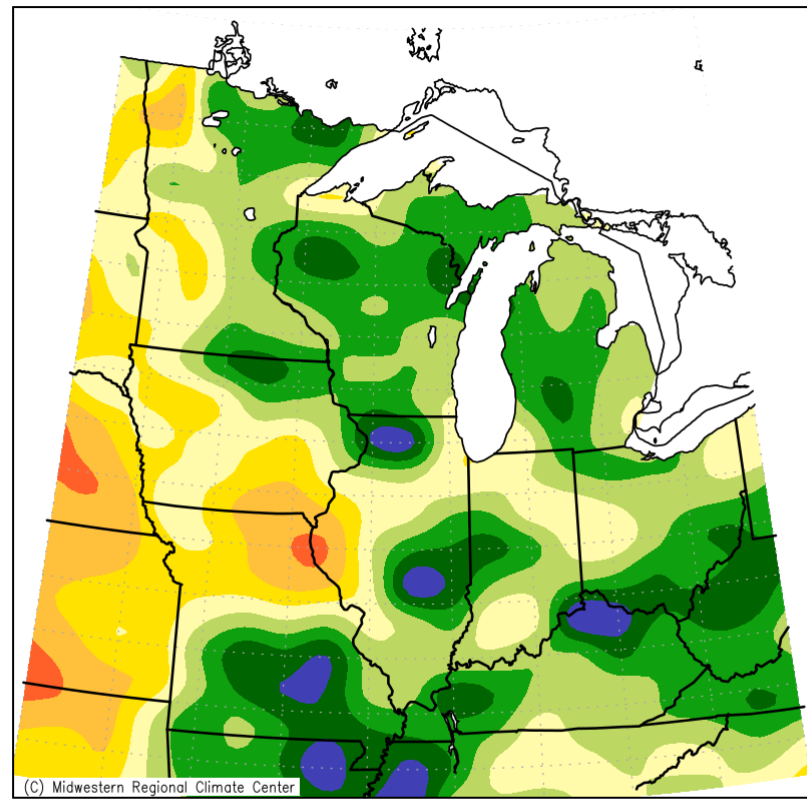
Total Monthly Precipitation (left) & Percent of Mean (right)

Accumulated Precipitation (in)
August 1, 2022 to August 31, 2022



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 9/1/2022 9:38:46 AM CDT

Accumulated Precipitation: Percent of Mean
August 1, 2022 to August 31, 2022



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 9/1/2022 9:39:12 AM CDT

August 2022 – 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
ADRIAN 2 NNE	1.49	4.29	13	HARBOR BEACH 1 SSE	1.29	2.70	6
ALGONAC WWTP	1.30	3.15	8	LAPEER 2W	1.23	2.67	11
ANN ARBOR SE	1.57	2.93	10	LAPEER WWTP	1.34	3.25	10
ANN ARBOR U OF MICH	1.64	4.28	13	MANCHESTER	1.04	3.10	9
BAD AXE	1.45	3.59	10	MIDLAND	1.43	3.96	11
BURTON 4N	1.54	4.09	10	MILLINGTON 3 SE	1.74	3.97	9
CASS CITY 1 SSW	1.26	3.26	9	MORENCI	1.41	5.08	11
CHELSEA	1.28	2.94	8	OWOSSO WWTP	1.77	3.25	11
CHESANING	3.77	6.03	8	PONTIAC INTL AP	1.73	3.44	10
DEARBORN	0.72	3.42	9	PONTIAC WWTP	1.44	3.42	8
DEARBORN NO. 2	0.74	2.35	7	PORT HOPE	0.88	1.98	6
DETROIT CITY AP	0.88	2.25	9	PORT HURON	1.86	4.26	11
DETROIT METRO AIRPORT	0.72	2.32	11	RICHMOND 4 NNW	1.71	4.82	10
DETROIT WILLOW RUN AP	0.84	2.89	11	SAGINAW #3	1.95	4.79	12
DURAND WWTP	0.86	3.04	10	SAGINAW MBS INTL AP	1.05	3.87	10
FARMINGTON	1.48	3.19	7	SALINE 4SW	1.30	3.27	11
FILION 5NNW	0.99	2.36	10	WHITE LAKE 4E	1.98	4.85	10
FLINT FCWOS	1.72	3.34	10	WHITMORE LAKE 1NW	2.26	4.00	9
GOODRICH	0.87	2.14	9	WYANDOTTE	0.60	2.69	11

August – Top 20 Wettest/Driest on Record

Weather Forecast Office
Detroit, MI



Top 20 Wettest/Driest Augusts 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	8.33	1926	0.16	1894	11.18	1937	0.32	2010	9.43	2012	0.27	1927
2	7.83	1975	0.19	1889	11.04	1975	0.41	1927	9.04	1995	0.63	1969
3	7.51	1940	0.27	2008	8.68	1956	0.45	1969	9.01	1975	0.68	1957
4	7.29	1877	0.43	1996	7.69	2018	0.54	1930	8.02	2018	0.68	1930
5	7.07	1959	0.52	1929	6.93	1961	0.65	1929	7.15	1914	0.81	1954
6	6.87	1987	0.59	2010	5.86	1921	0.68	1996	6.73	2007	0.93	1982
7	6.61	2007	0.60	1902	5.56	1989	0.81	1976	6.72	1987	1.00	2003
8	6.53	1956	0.62	1907	5.47	2009	0.93	2005	6.25	1940	1.00	1929
9	6.32	2014	0.62	1899	5.35	1968	1.08	1931	5.95	1913	1.04	1935
10	6.09	1980	0.72	1982	5.29	1986	1.19	1957	5.88	2016	1.13	1933
11	6.04	1875	0.84	1931	5.28	1942	1.26	1948	5.66	1955	1.15	1984
12	5.99	2020	0.90	1930	5.26	1959	1.38	1962	5.51	1938	1.25	1916
13	5.98	2013	0.90	1883	5.15	2021	1.51	2002	5.50	2015	1.29	1996
14	5.87	1964	1.06	1969	5.09	2007	1.54	2001	5.46	1981	1.30	1971
15	5.62	2016	1.06	1927	5.03	1987	1.62	1971	5.34	1926	1.37	2005
16	5.51	1880	1.07	1936	4.94	1926	1.64	1938	5.28	1915	1.37	1980
17	5.27	1888	1.11	1910	4.90	2016	1.65	1936	5.19	1977	1.41	1948
18	5.17	2021	1.12	1943	4.83	1995	1.76	1973	5.18	1972	1.43	1934
19	5.12	1961	1.20	2018	4.57	1972	1.76	1928	5.05	1956	1.46	1970
20	5.05	1885	1.29	1918	4.55	1965	1.81	1923	4.94	1991	1.51	1998

* 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.

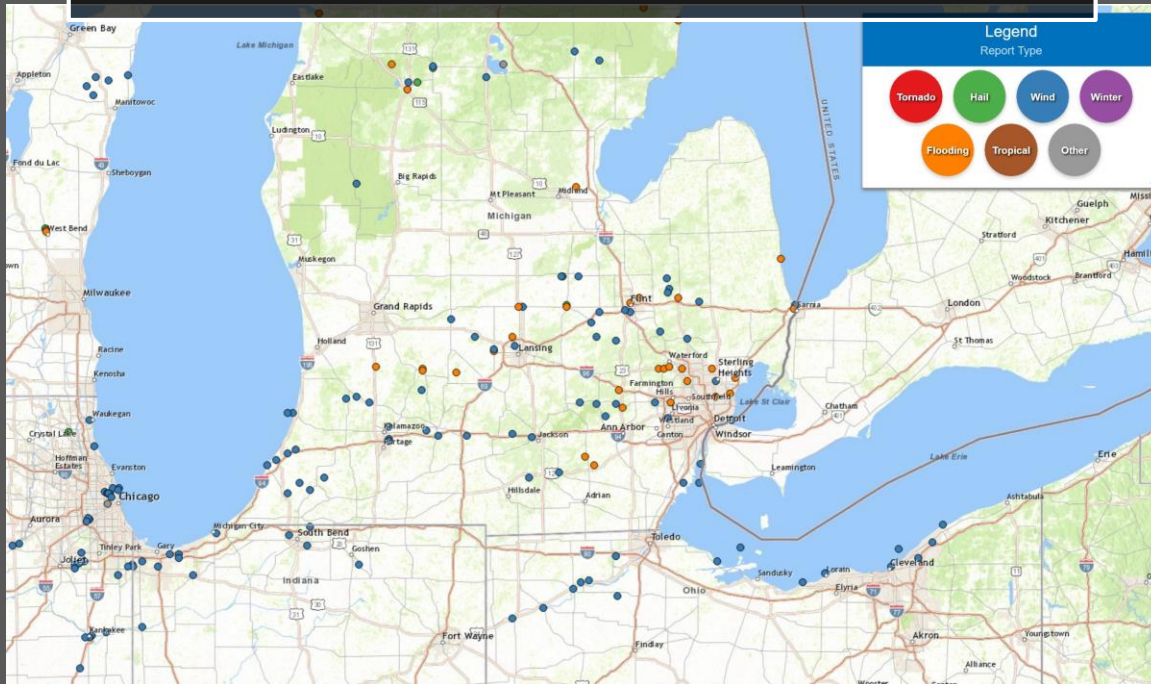
August 2022 – Significant Weather Events

Weather Forecast Office
Detroit, MI



Follow links for web summaries

August 3 Severe Weather weather.gov/dtx/August3rd2022_svrwx



August 29 Severe Weather weather.gov/dtx/severeweather08292022



Royal Oak – Courtesy
Ryan Jake Jakubowski



Waterford –
Courtesy Susan Daly



Monroe – Courtesy
Mike Frey



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

- ☑ Detroit Area
- ☐ Flint Area
- ☐ Saginaw Area
- ☐ Adrian 2 Nne, MI
- ☐ Ann Arbor Univ O, MI
- ☐ Bad Axe, MI
- ☐ Caro Wwtp, MI
- ☐ Chelsea, MI
- ☐ Detroit City Ap, MI
- ☐ Detroit Metropol, MI

Product

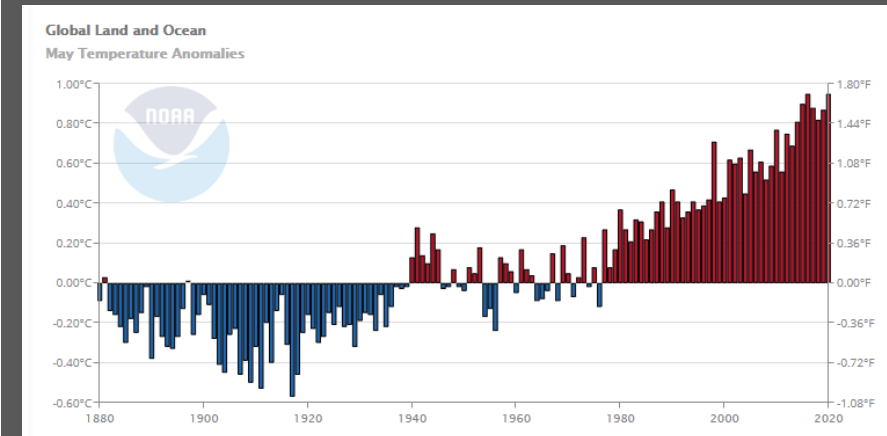
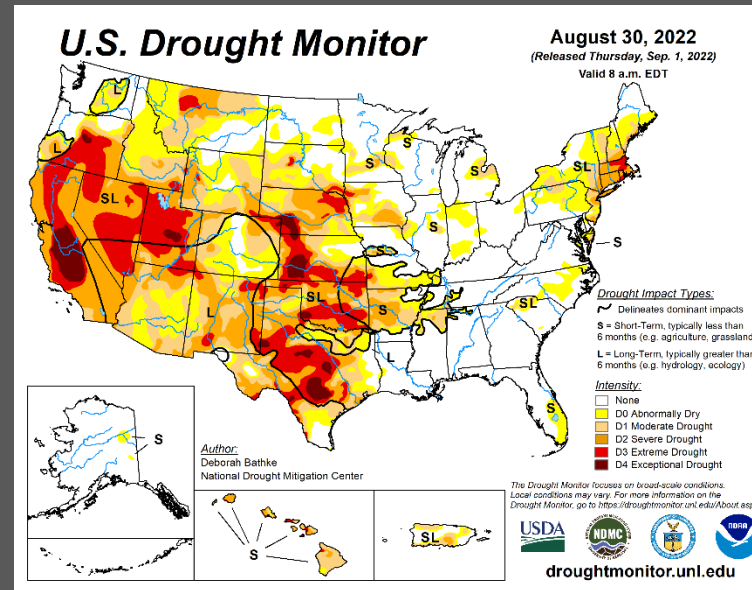
- ☑ Daily data for a month
- ☐ Daily almanac
- ☐ Monthly summarized data
- ☐ Calendar day summaries
- ☐ Daily/monthly normals
- ☐ Climatology for a day
- ☐ First/last dates
- ☐ Temperature graphs
- ☐ Accumulation graphs

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.

Powered by: **ACIS**
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

U.S. Drought Monitor

drought.gov/drought/data-maps-tools/current-conditions

NOAA NCEI Climate at a Glance

ncdc.noaa.gov/cag/

Thank you to our COOP and CoCoRaHS volunteer weather observers!