

# Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, and Severe Weather Summaries

Weather Forecast Office  
Detroit, MI



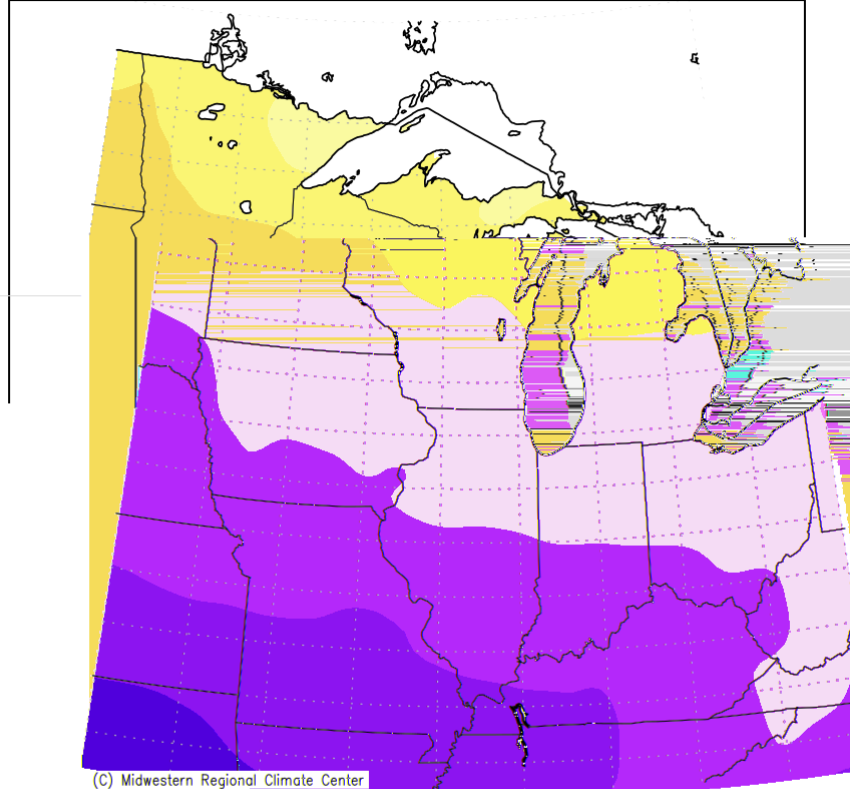
# July 2022 – Regional Temperature Summary

Weather Forecast Office  
Detroit, MI

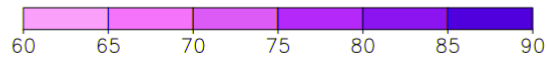


Average Temperature (left) & Departure from Average (right)

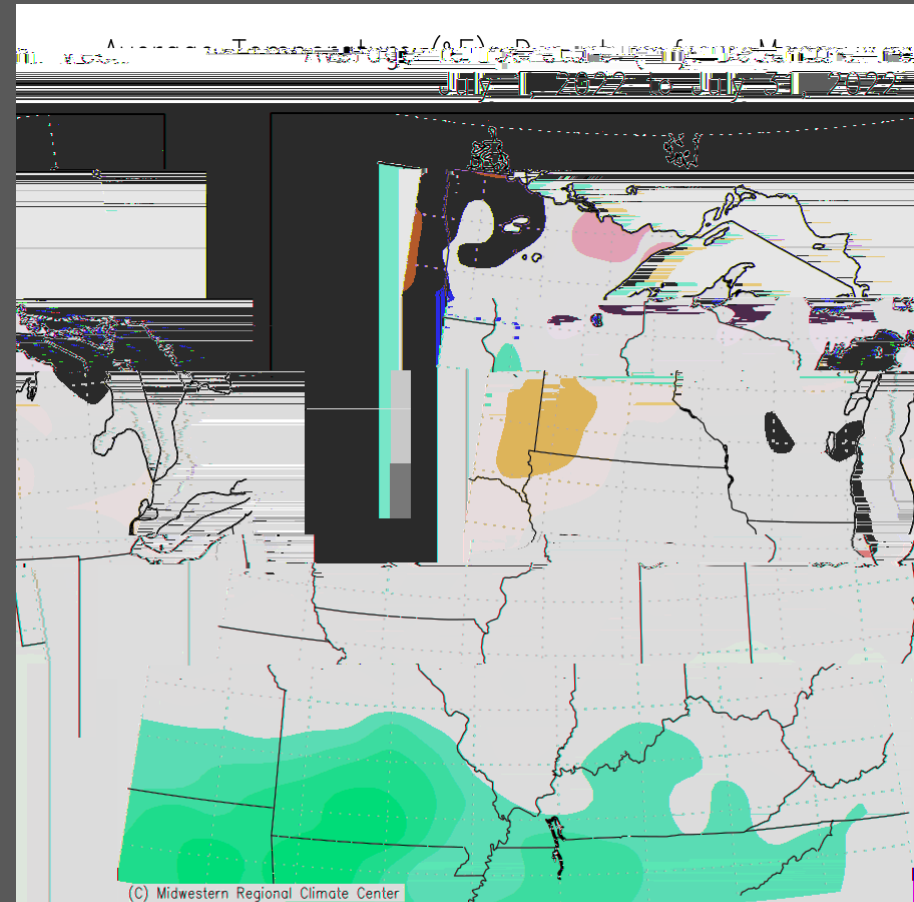
Average Temperature (°F)  
July 1, 2022 to July 31, 2022



(C) Midwestern Regional Climate Center

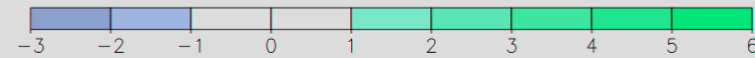


Midwestern Regional Climate Center  
Purdue University



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Mean period is 1991–2020.



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# July 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	90	50	83.0	61.4	72.2	GOODRICH	92	49	82.4	60.3	71.3
ADRIAN LENAWEE CO AP	90	52	82.8	62.0	72.4	GROSSE POINTE FARMS	100	55	86.3	65.1	75.7
ALGONAC WWTP	98	52	87.1	60.1	73.6	HARBOR BEACH 1 SSE	89	50	78.1	59.7	68.9
ANN ARBOR MUNICIPAL AP	92	45	83.5	57.2	70.4	LAPEER 2W	92	47	82.8	60.0	71.4
ANN ARBOR SE	90	50	83.4	59.6	71.5	LAPEER WWTP	92	49	83.6	59.9	71.8
ANN ARBOR U OF MICH	91	47	84.2	58.9	71.5	LEXINGTON WATER PLANT	93	53	79.8	60.0	69.9
BAD AXE	93	50	81.5	58.7	70.1	MANCHESTER	92	49	84.1	59.9	72.0
BURTON 4N	92	47	83.3	57.6	70.5	MORENCI	90	51	83.2	60.3	71.8
CARO WWTP	94	47	83.4	59.2	71.3	OIL CITY 2S	89	42	80.8	56.9	69.0
CASS CITY 1 SSW	93	47	81.9	56.6	69.3	PONTIAC INTL AP	93	52	83.7	62.3	72.9
CHELSEA	91	49	83.5	60.4	71.9	PONTIAC WWTP	94	52	84.3	62.4	73.3
DEARBORN	94	53	85.1	64.2	74.7	PORT HOPE	91	53	77.9	61.5	69.7
DEARBORN NO. 2	95	56	85.5	66.1	75.8	PORT HURON	93	59	83.8	65.8	74.8
DETROIT CITY AP	95	58	86.2	67.2	76.7	RICHMOND 4 NNW	92	50	82.5	61.0	71.8
<b>DETROIT METRO AIRPORT</b>	<b>93</b>	<b>56</b>	<b>85.0</b>	<b>64.4</b>	<b>74.7</b>	SAGINAW #3	93	52	83.7	61.3	72.6
DETROIT WILLOW RUN AP	95	56	87.2	64.2	75.7	<b>SAGINAW MBS INTL AP</b>	<b>93</b>	<b>50</b>	<b>83.2</b>	<b>61.1</b>	<b>72.1</b>
DURAND WWTP	91	49	84.0	60.6	72.3	SALINE 4SW	91	53	85.8	60.4	73.1
FARMINGTON	92	51	84.1	60.6	72.3	TIPTON 2WNW	91	52	84.1	57.5	70.8
FILION 5NNW	94	51	82.3	59.7	71.0	VASSAR	90	44	83.5	57.1	70.3
FLINT FCWOS	<b>93</b>	<b>46</b>	<b>84.4</b>	<b>59.9</b>	<b>72.1</b>	WHITE LAKE 4E	93	45	83.5	57.6	70.6
						WHITMORE LAKE 1NW	90	50	81.9	60.1	71.0



## 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	2012	66.9	1992	77.7	1935	66.2	1992	76.8	1916
3	68.9	2009	79.0	1955	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	2016	68.3	2014	75.9	1936	67.9	2000	75.9	1936
10	69.9	1884	76.8	2019	68.3	1950	75.8	1933	68.2	1965	75.8	1988
11	70.2	2000	76.8	1999	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.

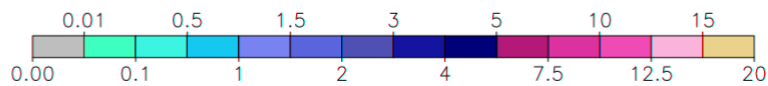
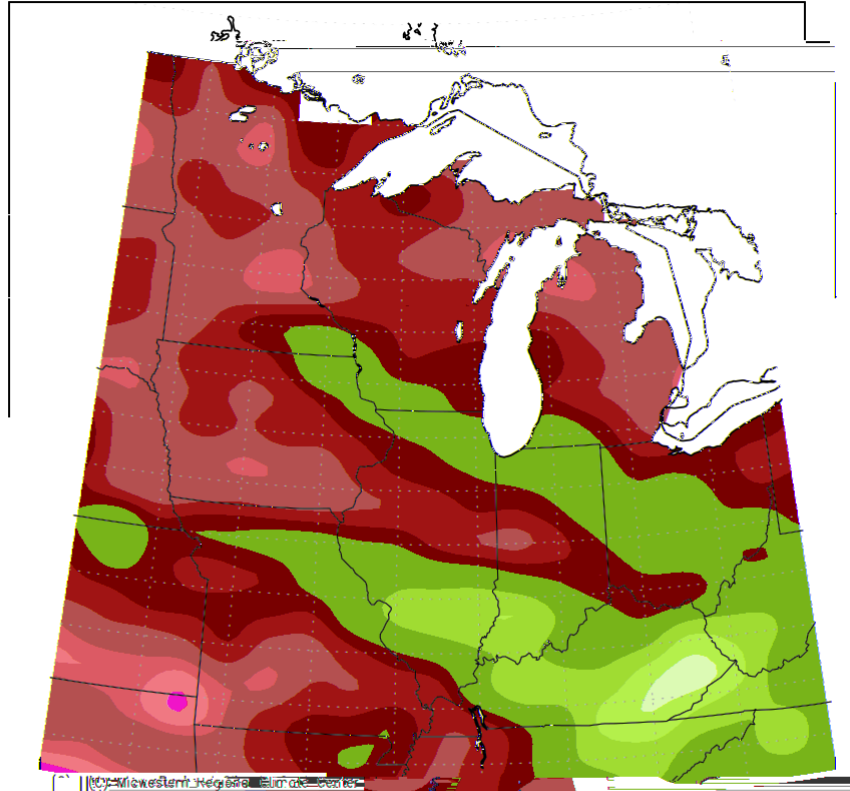
# July 2022 – Regional Precipitation Summary

Weather Forecast Office  
Detroit, MI



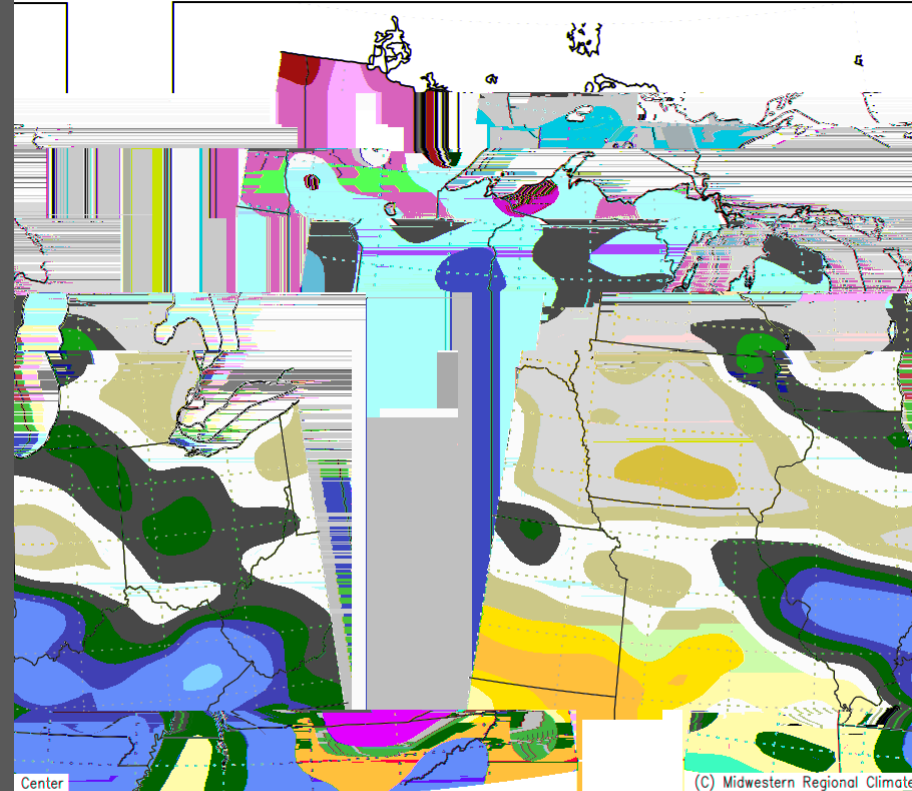
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

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

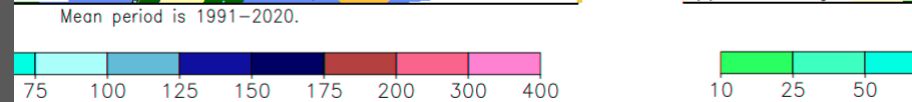


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Accumulated Precipitation: Percent of Mean  
July 1, 2022 to July 31, 2022



Center (C) Midwestern Regional Climate



Midwestern Regional Climate Center  
Purdue University

# July 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	Location	Highest Daily Total	Monthly Total	# of Days with Precip
ADRIAN 2 NNE	0.89	3.13	11	DEXTER 2.2 SE	0.54	2.77	15	MORENCI	1.23	3.98	12
ADRIAN LENAWEE CO AP	0.71	3.10	9	DURAND WWTP	0.98	2.62	9	NEW BALTIMORE 0.4 SSE	0.48	2.02	11
ALGONAC WWTP	0.40	1.75	10	FARMINGTON	1.00	2.47	10	ORTONVILLE 2.3 S	0.82	2.24	12
ANN ARBOR 4.5 W	0.92	3.49	14	FENTON 2.7 SSE	0.92	2.33	13	OTTAWA LAKE 1.4 SSW	0.81	2.97	10
ANN ARBOR 7.1 W	0.43	2.36	14	FENTON 5.6 WSW	1.13	2.70	12	OWOSSO WWTP	1.46	3.26	7
ANN ARBOR MNCPL AP	0.65	2.62	14	FENTON 6.2 WSW	0.98	2.67	9	PLYMOUTH 5.4 W	1.55	4.38	13
ANN ARBOR SE	2.33	4.23	14	FILION 5NNW	0.57	1.42	11	PONTIAC INTL AP	0.53	1.78	13
ANN ARBOR U OF MICH	0.95	2.94	15	<b>FLINT FCWOS</b>	<b>0.57</b>	<b>1.60</b>	<b>7</b>	PONTIAC WWTP	0.52	1.93	11
BAD AXE	1.08	2.23	10	FRASER 1.2 N	0.54	1.55	9	PORT HOPE	0.35	1.35	10
BELLEVILLE 2.8 ESE	0.76	2.69	14	GIBRALTAR 1.2 W	0.40	1.94	7	PORT HURON	0.49	1.39	6
BURTON 4N	0.91	2.64	10	GOODRICH	0.90	2.97	9	PORT HURON 1.6 W	0.35	1.25	9
CARLETON 2.5 S	1.11	2.94	12	GROSSE ILE 1.6 N	0.47	1.85	15	PORT HURON 2.8 WSW	0.54	1.37	6
CASS CITY 1 SSW	0.60	1.77	6	GROSSE POINTE FARMS	0.65	1.84	9	RICHMOND 4 NNW	0.85	2.09	8
CHELSEA	0.49	2.35	14	HARBOR BEACH 1 SSE	0.86	2.40	10	SAGINAW 6.4 W	1.51	2.76	11
CHELSEA 3.7 NNE	0.65	2.63	11	HIGHLAND 1.3 NE	0.92	2.22	13	SAGINAW 8NW	1.02	2.17	9
CHESANING	1.23	2.24	7	HOWELL 4.9 ESE	0.89	2.72	11	SAGINAW #3	1.30	2.65	10
CHESTERFIELD 2.4 E	0.26	1.25	13	LAPEER 2W	1.16	3.14	11	<b>SAGINAW MBS INTL AP</b>	<b>1.26</b>	<b>2.99</b>	<b>9</b>
CLARKSTON 1.4 NE	0.71	2.00	13	LAPEER WWTP	2.25	4.58	10	SALINE 3.8 SSW	0.96	2.57	12
CLINTON 0.5 NE	0.74	2.61	12	LIVONIA 2.0 NE	1.45	4.06	13	SALINE 4SW	0.72	2.50	15
DAVISON 3.4 NNW	1.12	3.38	10	LIVONIA 2.3 NNW	0.75	2.52	13	SHELBY 0.4 SSE	0.61	1.60	12
DAVISON 5.2 N	0.88	2.60	10	MANCHESTER	0.72	2.17	11	SOUTH LYON 2.6 SW	0.70	3.09	13
DEARBORN	0.47	1.88	14	MIDLAND	1.09	2.22	9	TIPTON 2WNW	1.05	3.74	11
DEARBORN HGHTS 1.8 NW	0.42	2.33	13	MIDLAND 1.5 NNE	0.76	2.36	8	WATERFORD 2.1 NW	0.62	2.09	14
DEARBORN NO. 2	0.43	1.87	14	MIDLAND 2.9 SW	1.26	2.87	9	WHITE LAKE 0.5 E	0.81	1.93	11
DETROIT CITY AP	0.54	1.61	13	MILLINGTON 3 SE	0.94	2.30	5	WHITE LAKE 4E	0.57	1.81	11
<b>DETROIT METRO AIRPORT</b>	<b>0.44</b>	<b>1.86</b>	<b>12</b>	MONROE 3.0 S	1.23	2.94	15	WYANDOTTE	0.44	1.60	12
DETROIT WILLOW RUN AP	1.19	3.13	11								

# 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	6.83	1950	0.38	1930
2	7.66	2011	0.59	1974	8.55	2000	0.39	1930	6.42	1912	0.44	1939
3	7.55	1902	0.74	1918	7.92	1957	0.67	1931	6.38	1952	0.45	1989
4	7.03	1937	0.78	1924	7.73	1932	0.73	1978	5.63	1928	0.65	1968
5	6.99	1915	0.79	1911	6.43	2011	0.83	1944	5.33	1964	0.74	1948
6	6.94	1925	0.81	1936	6.03	1945	0.87	1954	5.31	1980	0.78	1987
7	6.22	1879	0.95	1984	5.92	1969	0.88	1946	5.19	1924	0.82	1916
8	6.02	1969	0.99	1916	5.76	2014	1.05	1933	5.09	1996	0.92	1984
9	6.01	1943	1.10	1955	5.61	1980	1.08	1934	4.83	1957	0.93	1978
10	5.98	1957	1.10	1946	5.55	1959	1.11	1940	4.75	1913	0.98	1941
11	5.96	2010	1.16	2001	5.43	2005	1.13	1998	4.70	1999	1.01	1965
12	5.94	1909	1.17	1940	5.13	1950	1.19	1960	4.47	1947	1.08	2013
13	5.94	1876	1.20	1956	4.77	1923	1.37	2018	4.45	2012	1.10	1921
14	5.91	1992	1.20	1944	4.56	1947	1.38	1963	4.43	1994	1.11	1954
15	5.74	1880	1.23	1991	4.55	1922	1.43	1943	4.34	2021	1.11	1935
16	5.72	1998	1.24	1926	4.53	1952	1.47	1926	4.25	1992	1.13	1933
17	5.50	1901	1.27	1959	4.44	1937	1.51	1966	4.25	1923	1.14	2004
18	5.40	2000	1.31	1887	4.29	2021	1.53	1955	4.19	1997	1.22	1918
19	5.39	1896	1.44	1960	4.26	2006	1.57	1929	4.19	1991	1.23	1931
20	5.38	2005	1.47	1990	4.22	1949	1.60	2022	4.03	2005	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 11 Lake Fenton Tornado

[weather.gov/dtx/2022-07-11-LakeFenton-Tornado](https://weather.gov/dtx/2022-07-11-LakeFenton-Tornado)



## July 20 Severe Weather

[weather.gov/dtx/severeweather072022](https://weather.gov/dtx/severeweather072022)







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

Daily data for a month  
Date: 2021-08

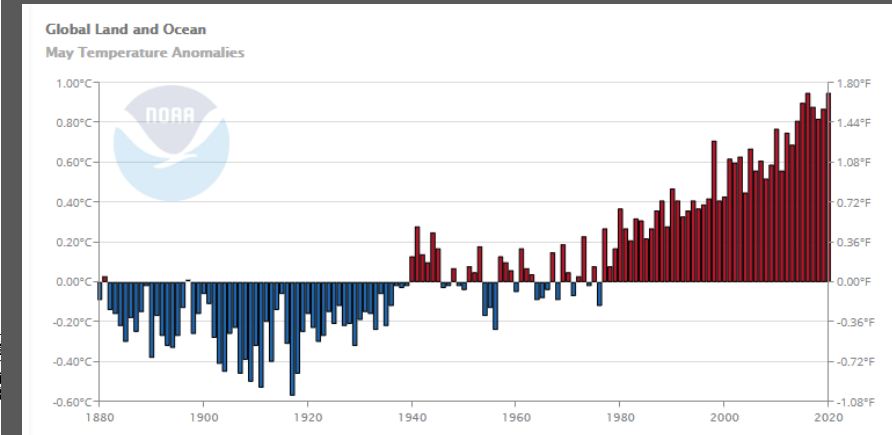
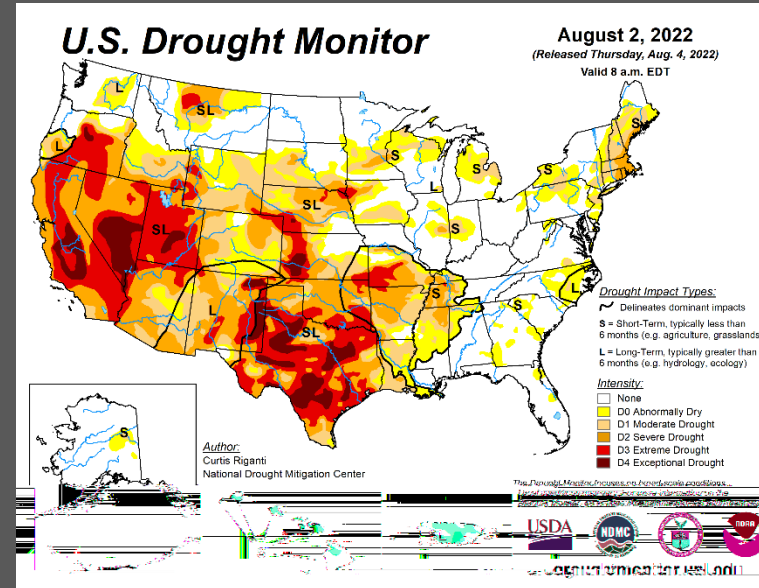
Options:  
 Daily almanac  
 Monthly summarized data  
 Calendar day summaries  
 Daily/monthly normals  
 Climatology for a day  
 First/last dates  
 Temperature graphs  
 Accumulation graphs

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.

Common questions - Submit a question/comment -

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10 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](https://weather.gov/wrh/climate?wfo=dtx)

**U.S. Drought Monitor**

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

**NOAA NCEI Climate at a Glance**

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

Thank you to our COOP and CoCoRaHS volunteer weather observers!