

# Southeast Michigan Climate Summary

Seasonal Temperature, Precipitation, and Severe Weather Summaries

Weather Forecast Office  
Detroit, MI



# Summer 2023

June, July, and August



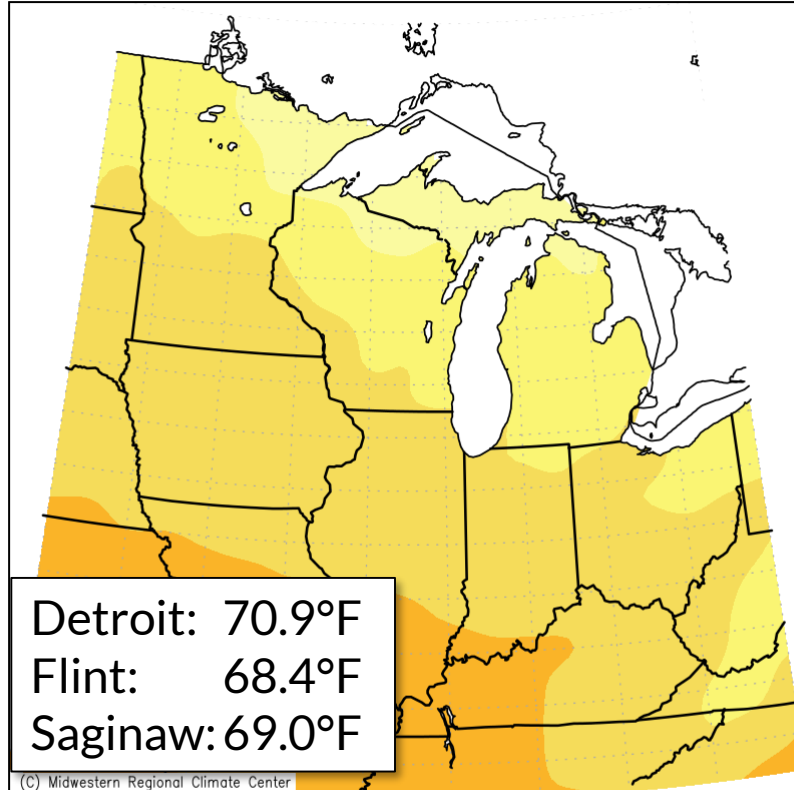
# Summer 2023 – Regional Temperature Summary

Weather Forecast Office  
Detroit, MI



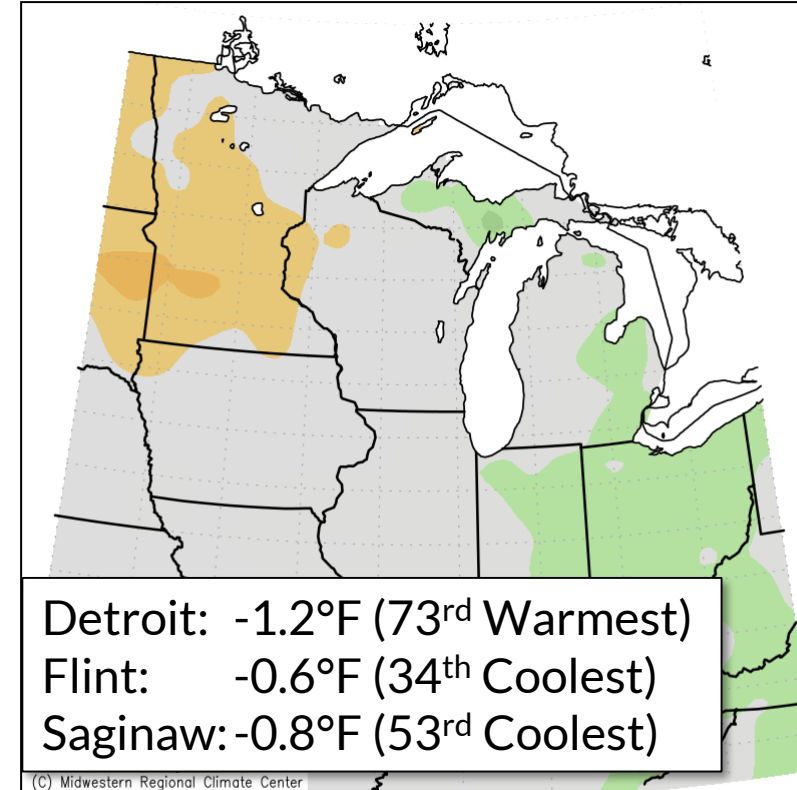
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)  
June 1, 2023 to August 31, 2023

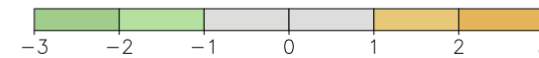


Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 9/8/2023 4:15:28 AM EDT

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



Mean period is 1991–2020.



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 9/8/2023 4:15:49 AM EDT

# Summer – Top 20 Coldest/Warmest on Record

Weather Forecast Office  
Detroit, MI



## Top 20 Coldest/Warmest Summers 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	66.5	1915	74.9	2016	65.4	1992	74.2	1933	64.8	1915	73.0	1931
2	67.0	1992	74.8	2012	66.1	2009	74.0	1934	65.1	1992	72.9	1933
3	67.3	1927	74.8	2005	66.2	1958	73.8	2016	65.5	1982	72.5	2020
4	67.5	1875	74.5	1995	66.3	1960	72.7	1936	65.8	1945	72.5	1955
5	67.6	1903	74.5	1955	66.5	1969	72.6	1939	65.9	1950	72.3	1995
6	67.8	1985	74.4	2018	66.6	2004	72.6	1931	65.9	1924	72.1	2021
7	67.9	1912	74.4	2011	66.7	1985	72.3	2010	66.1	1985	72.1	1930
8	67.9	1907	74.4	2010	66.8	1972	72.3	1949	66.4	2009	72.1	1921
9	68.1	1982	74.2	2021	66.8	1967	72.2	1955	66.4	2004	72.0	2012
10	68.2	1972	74.2	1988	66.9	1962	72.0	1935	66.4	1979	72.0	2010
11	68.3	1979	74.1	2020	66.9	1927	71.9	2011	66.5	1977	72.0	1937
12	68.3	1902	74.0	1933	67.0	1982	71.9	1938	66.6	1951	71.9	1988
13	68.3	1891	73.8	1949	67.0	1950	71.8	2020	66.8	1946	71.9	1936
14	68.4	1889	73.7	1921	67.1	1965	71.8	1988	66.9	1965	71.8	2016
15	68.5	1883	73.6	1952	67.1	1945	71.7	2021	66.9	1962	71.7	1998
16	68.7	1917	73.5	1991	67.2	1997	71.7	2012	66.9	1917	71.5	1934
17	68.8	1924	73.5	1959	67.4	1951	71.7	1987	67.0	1958	71.5	2018
18	68.8	1904	73.5	2002	67.4	1957	71.7	1995	67.0	1926	71.5	1932
19	68.9	1967	73.5	1931	67.4	1924	71.7	2002	67.2	1972	71.4	2011
20	69.1	1897	73.3	2022	67.5	2000	71.7	1943	67.3	1981	71.4	1959

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

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

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

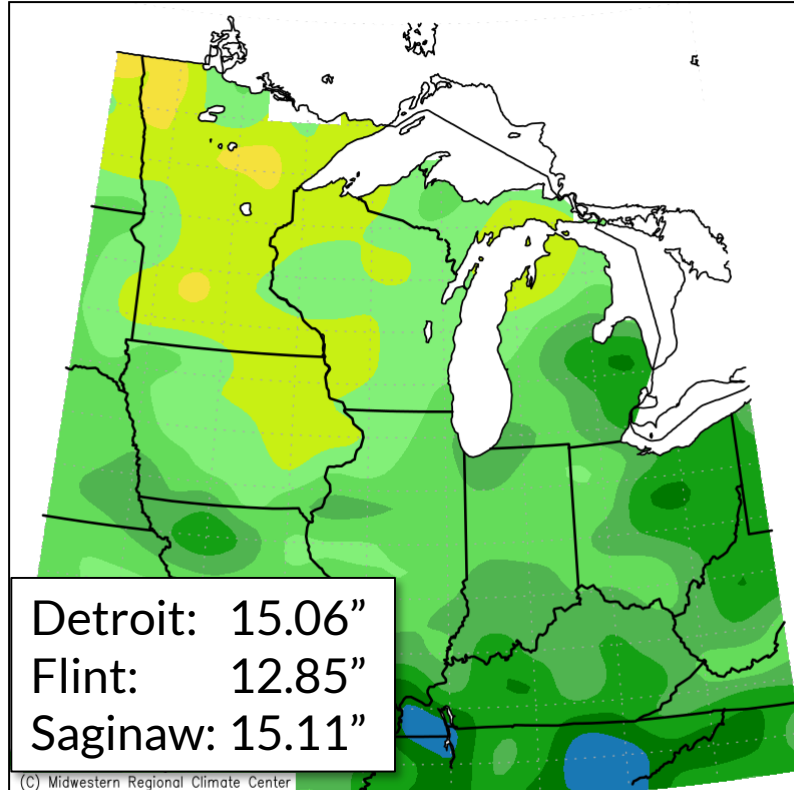
# Summer 2023 – Regional Precipitation Summary

Weather Forecast Office  
Detroit, MI



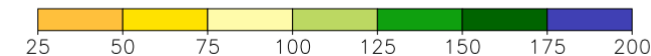
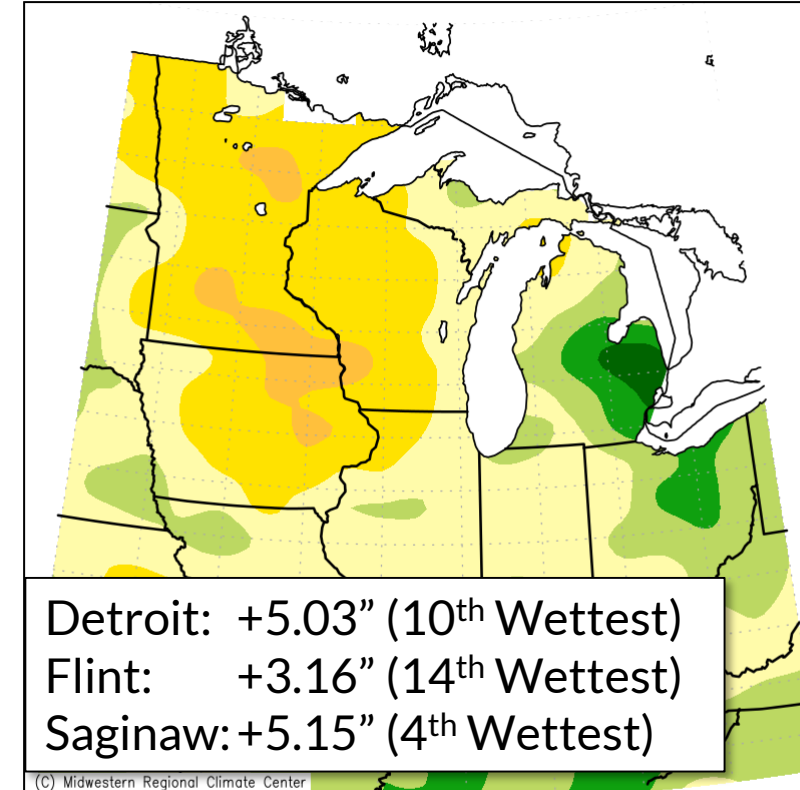
Total Seasonal Precipitation (left) & Percent of Mean (right)

Accumulated Precipitation (in)  
June 1, 2023 to August 31, 2023



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 9/8/2023 4:23:01 AM EDT

Accumulated Precipitation: Percent of Mean  
June 1, 2023 to August 31, 2023



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 9/8/2023 4:23:17 AM EDT

# Summer – Top 20 Wettest/Driest on Record

Weather Forecast Office  
Detroit, MI



## Top 20 Wettest/Driest Summers 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	16.96	1896	3.58	1911	18.39	1937	3.76	1930	16.28	1928	3.54	1927
2	16.84	1980	4.06	1910	17.64	1975	4.36	1933	15.67	2012	3.80	1929
3	16.13	2013	4.10	1930	15.84	2021	4.56	1929	15.43	1975	4.16	1930
4	16.11	1987	4.85	1894	15.55	1956	4.73	1934	15.11	2023	4.17	1933
5	15.63	1880	4.87	1934	15.11	1992	4.82	1931	15.06	1995	4.42	1934
6	15.33	1915	4.92	1931	14.68	2009	5.00	1998	14.52	2017	4.45	1918
7	15.28	2021	4.99	1984	14.45	1945	5.01	1978	14.44	1914	4.62	1998
8	15.18	1903	5.01	1889	14.40	2000	5.74	1938	13.96	1994	4.69	1941
9	15.12	1902	5.33	1918	13.54	1986	5.85	1936	13.30	2021	4.75	1916
10	15.06	2023	5.39	1899	13.50	1957	5.93	2010	13.30	1996	5.19	1946
11	15.04	1878	5.44	1996	13.48	1968	6.01	1954	13.26	1913	5.66	1936
12	14.93	2000	5.64	1924	13.11	1989	6.03	1939	12.42	1915	5.71	1978
13	14.64	1909	5.72	1929	12.93	1950	6.12	1927	12.33	1987	5.74	1970
14	14.43	1966	5.74	1971	12.85	2023	6.26	1966	11.96	2015	5.77	2003
15	14.01	1925	5.75	1936	12.77	1949	6.29	1963	11.73	1940	5.89	1988
16	13.68	1937	5.82	1895	12.75	1994	6.30	1946	11.69	2007	6.03	1984
17	13.66	1877	5.90	1933	12.43	2018	6.40	1974	11.68	1950	6.04	1983
18	13.41	2020	5.92	1974	12.10	1961	6.47	2001	11.64	2008	6.06	1960
19	13.34	1920	6.38	1952	12.04	2014	6.52	1996	11.54	1945	6.24	2001
20	13.02	1875	6.39	1978	11.95	1959	6.62	1944	11.24	2018	6.32	1931

\* 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.

# Summer 2023 – Daily Temp/Precip Graphs



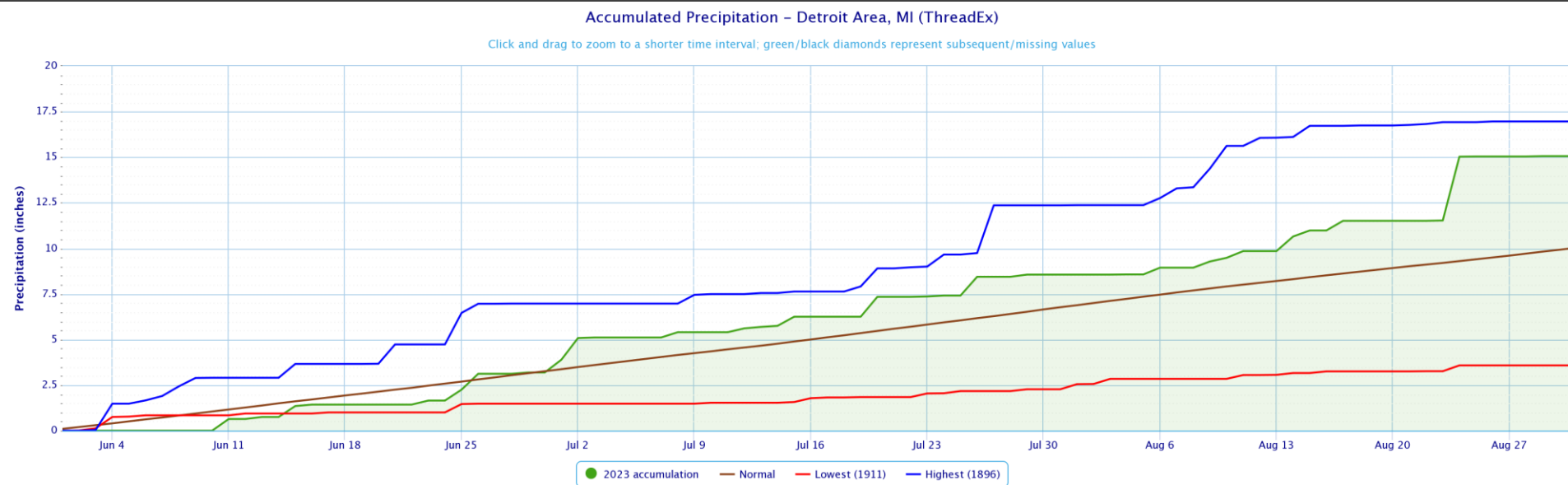
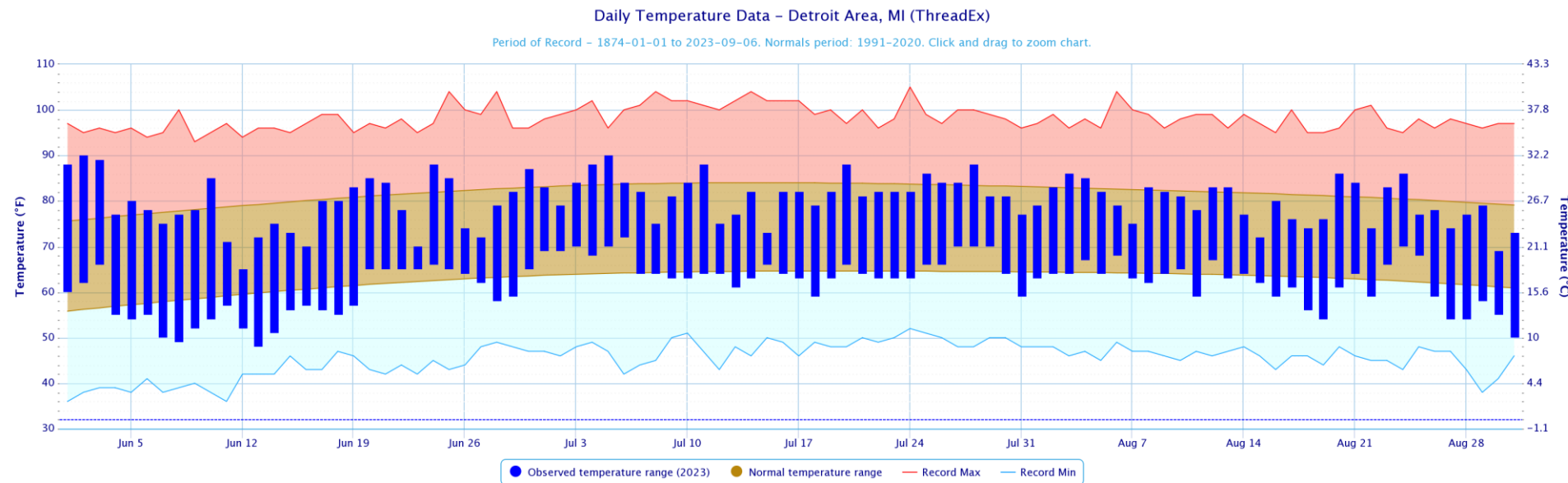
## DETROIT

### Temperature Stats:

Days at or above 90°F: 2  
Highest max: 90°F (Jun 2 & Jul 5)  
Lowest min: 48°F (Jun 13)  
Lowest max: 65°F (Jun 12)  
Highest min: 72°F (Jul 6)

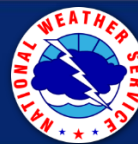
### Precipitation Stats:

Days with 1" or more: 4  
Days with 0.01" or more: 33  
Highest 24 hr precip: 3.50"  
(Aug 24)



# Summer 2023 – Daily Temp/Precip Graphs

Weather Forecast Office  
Detroit, MI



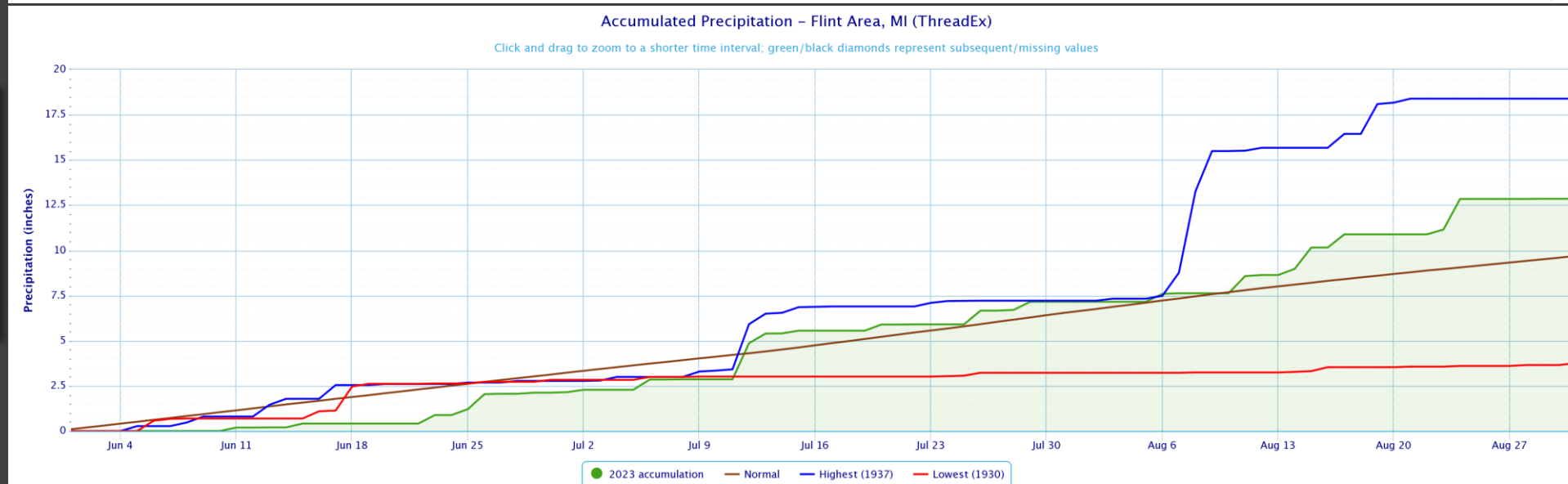
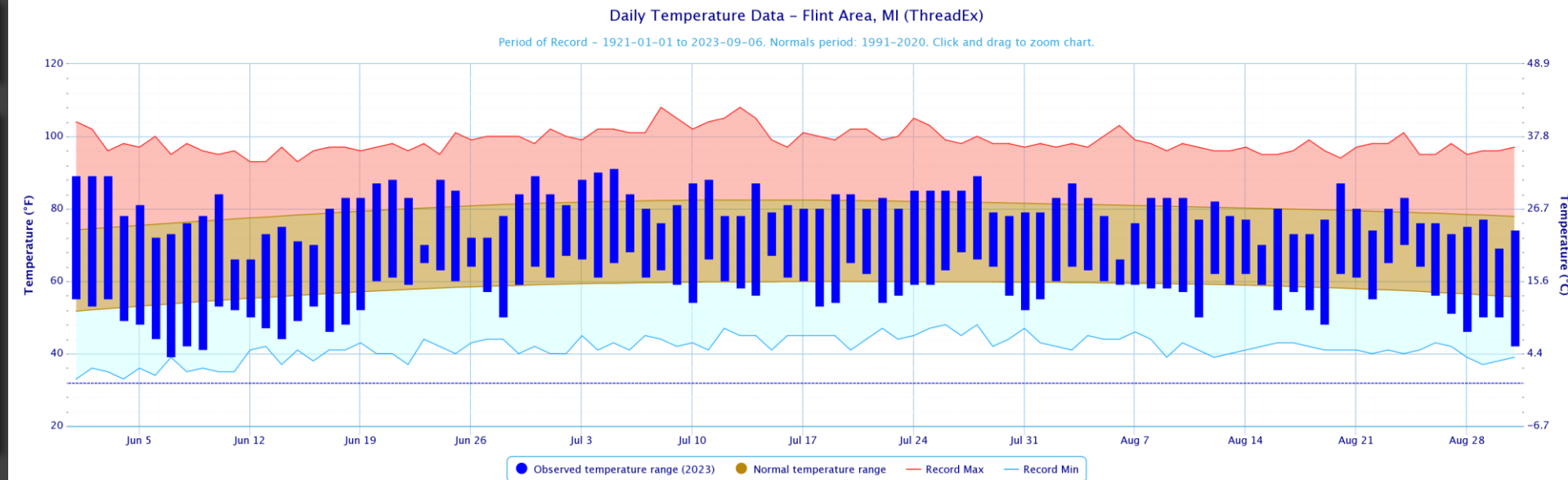
## FLINT

### Temperature Stats:

Days at or above 90°F: 2  
Highest max: 91°F (Jul 5)  
Lowest min: 39°F (Jun 7)  
Lowest max: 66°F (Jun 11 & 12; Aug 6)  
Highest min: 70°F (Aug 24)

### Precipitation Stats:

Days with 1" or more: 3  
Days with 0.01" or more: 31  
Highest 24 hr precip: 2.00"  
(Jul 12)



# Summer 2023 – Daily Temp/Precip Graphs

Weather Forecast Office  
Detroit, MI



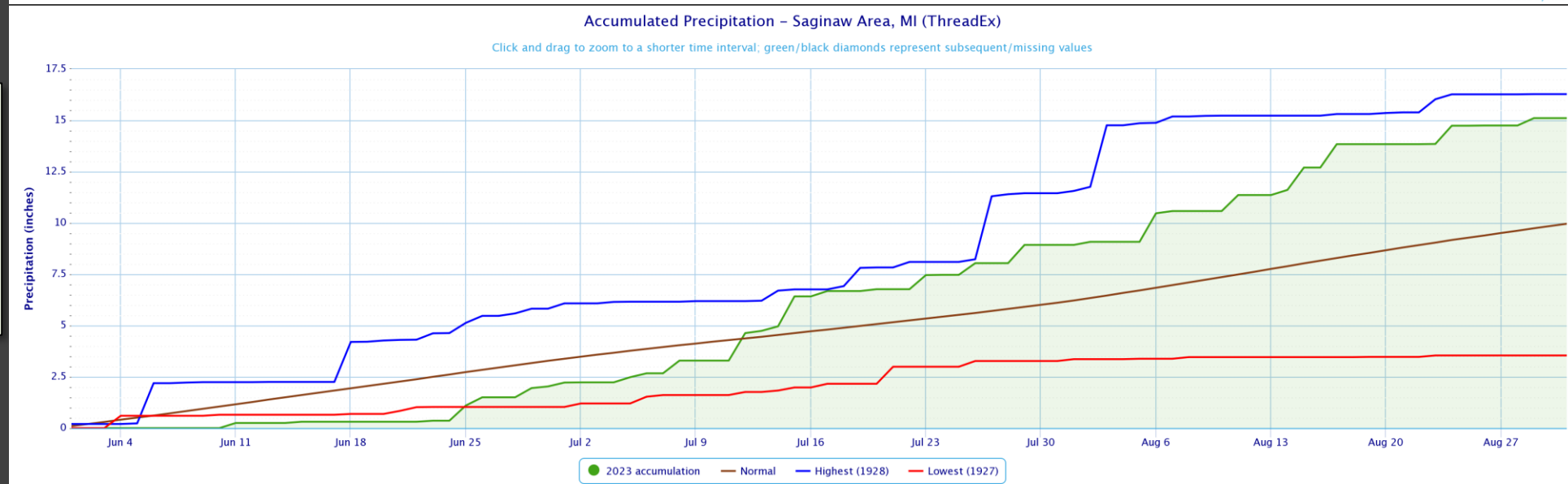
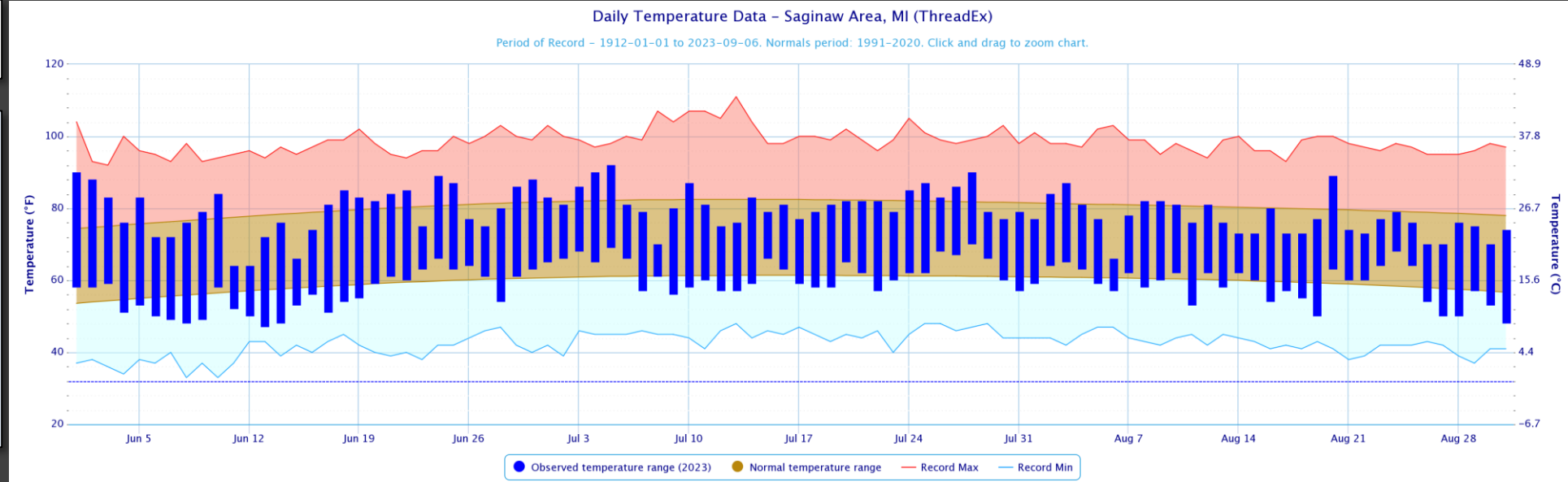
## SAGINAW

### Temperature Stats:

Days at or above 90°F: 4  
Highest max: 92°F (Jul 5)  
Lowest min: 47°F (Jun 13)  
Lowest max: 64°F (Jun 11 & 12)  
Highest min: 70°F (Jul 28)

### Precipitation Stats:

Days with 1" or more: 5  
Days with 0.01" or more: 33  
Highest 24 hr precip: 1.46"  
(Jul 15)





# Summer 2023 - Significant Weather Events

Weather Forecast Office  
Detroit, MI



Follow links for web summaries

[June 15 Detroit Beach  
Tornado](#)

[June 25 Severe Weather](#)

[July 11 Severe Weather](#)

[July 14 Lexington  
Tornado](#)

[July 20 Severe Weather](#)

[July 26 Severe Weather](#)

[August 11 Perry Tornado](#)

[August 24  
Flooding/Severe](#)

[August 24 Tornado  
Outbreak](#)



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 »

Daily data for a month Date: 2021-08 Go

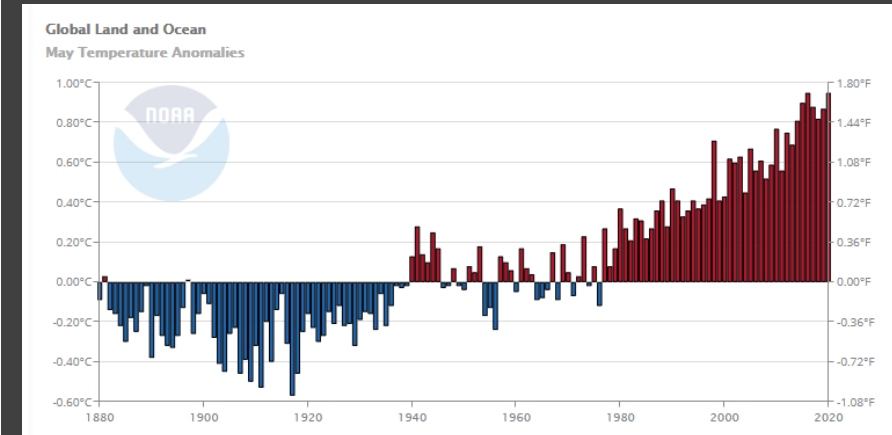
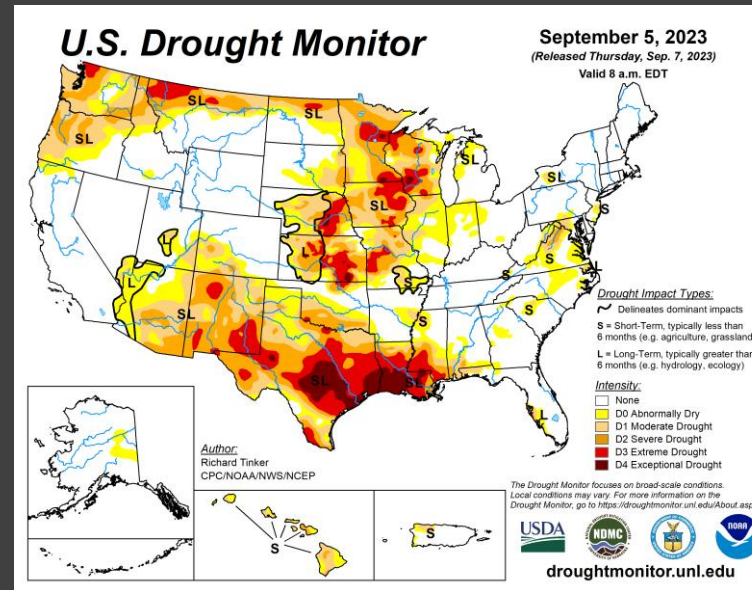
- Daily almanac
- Monthly summarized data
- Calendar day summaries
- Daily/monthly normals
- Climatology for a day
- First/last dates
- Temperature graphs
- Accumulation graphs

**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 -

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](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!