

Southeast Michigan Climate Summary

Seasonal Temperature, Precipitation, and Severe Weather Summaries

Weather Forecast Office
Detroit, MI



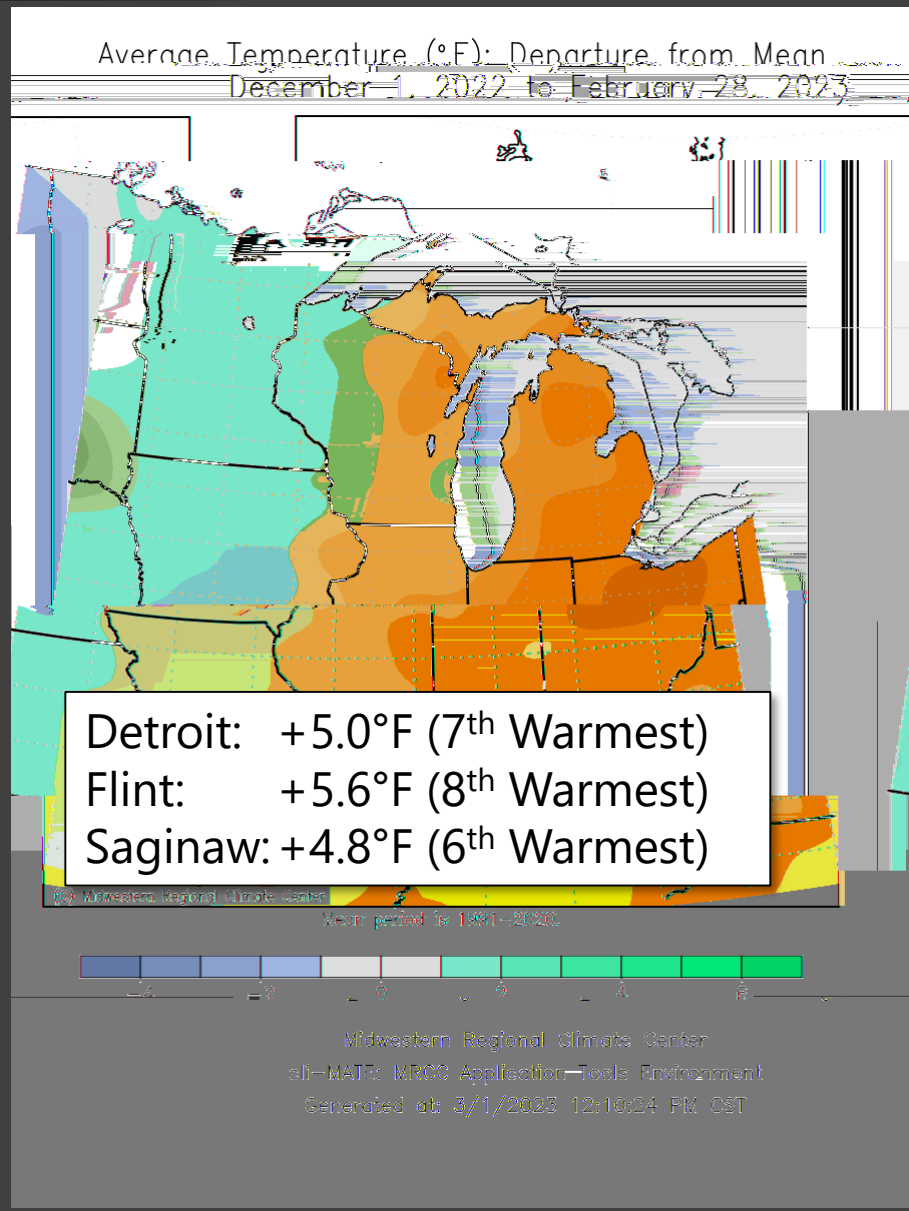
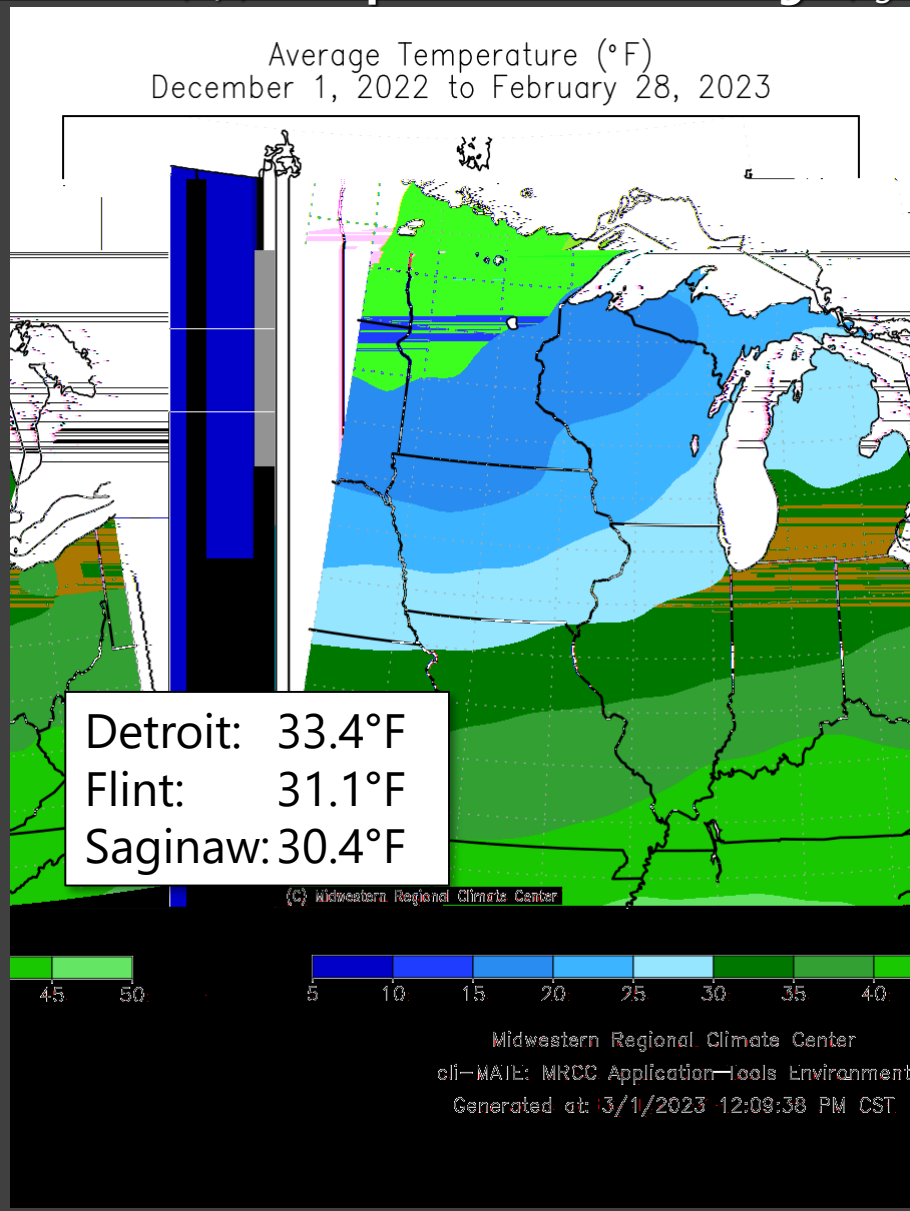
Winter 2022-2023

December, January, and February





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



Winter – Top 20 Coldest/Warmest on Record

Weather Forecast Office
Detroit, MI



Top 20 Coldest/Warmest Winters 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	18.8	1903-1904	36.9	1881-1882	16.7	1976-1977	33.4	1931-1932	15.7	1962-1963	33.3	1931-1932
2	19.3	1874-1875	35.7	1931-1932	17.0	1962-1963	33.0	2015-2016	16.5	1917-1918	31.7	2015-2016
3	19.7	1976-1977	35.2	1889-1890	17.8	1958-1959	32.2	1982-1983	16.6	1919-1920	30.9	1997-1998
4	19.7	1917-1918	33.8	2001-2002	18.6	1978-1979	31.7	2001-2002	17.5	1978-1979	30.6	2011-2012
5	20.4	1962-1963	33.8	1997-1998	19.0	2013-2014	31.5	2019-2020	18.0	1977-1978	30.5	2001-2002
6	20.6	1977-1978	33.5	2015-2016	19.3	1977-1978	31.3	1997-1998	18.2	1976-1977	30.4	2022-2023
7	20.8	1919-1920	33.4	2022-2023	19.8	1993-1994	31.2	2011-2012	18.2	2013-2014	30.0	1936-1937
8	20.9	2013-2014	33.0	2011-2012	19.9	1944-1945	31.1	2022-2023	18.2	1958-1959	29.8	2019-2020
9	21.0	1935-1936	32.9	2016-2017	20.9	1981-1982	30.3	1932-1933	18.7	1935-1936	29.6	1982-1983
10	21.1	1892-1893	32.6	2019-2020	21.2	1935-1936	30.2	2016-2017	19.0	1993-1994	29.5	1920-1921
11	21.4	1904-1905	32.5	1982-1983	21.3	1969-1970	29.1	1952-1953	19.2	1916-1917	29.4	2016-2017
12	21.5	1978-1979	32.5	1879-1880	21.4	1985-1986	28.8	1936-1937	20.0	1961-1962	29.0	1918-1919
13	21.7	1880-1881	32.3	1918-1919	21.5	1961-1962	28.6	1948-1949	20.1	1944-1945	28.8	1932-1933
14	21.8	1911-1912	32.2	1952-1953	21.6	2008-2009	28.5	2012-2013	20.2	1969-1970	28.5	2012-2013
15	21.8	1878-1879	31.6	1877-1878	21.6	1983-1984	28.3	1930-1931	20.3	1981-1982	28.3	1952-1953
16	21.9	1981-1982	31.3	1948-1949	21.6	1947-1948	28.2	1991-1992	20.7	1947-1948	28.0	1930-1931
17	22.4	1969-1970	31.2	1920-1921	22.0	2014-2015	28.2	1949-1950	21.2	2008-2009	27.8	1974-1975
18	23.0	1958-1959	31.1	1875-1876	22.2	2010-2011	28.1	1974-1975	21.3	2002-2003	27.6	1948-1949
19	23.2	1876-1877	31.0	1953-1954	22.4	1942-1943	28.0	1953-1954	21.4	1942-1943	27.2	1998-1999
20	23.3	2014-2015	30.8	1949-1950	22.5	2002-2003	27.8	1998-1999	21.6	1985-1986	27.1	1986-1987

* Detroit Area temperature records date back to November 1874.

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

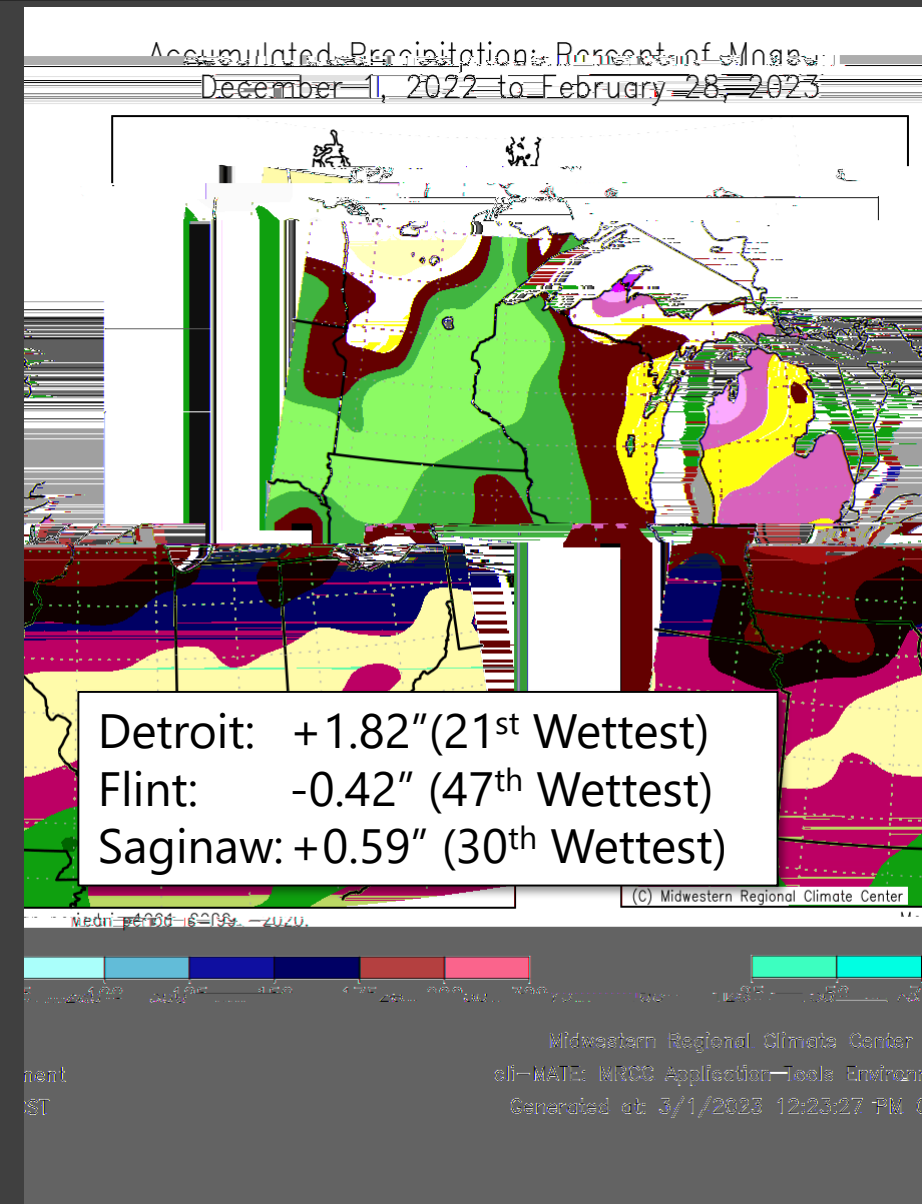
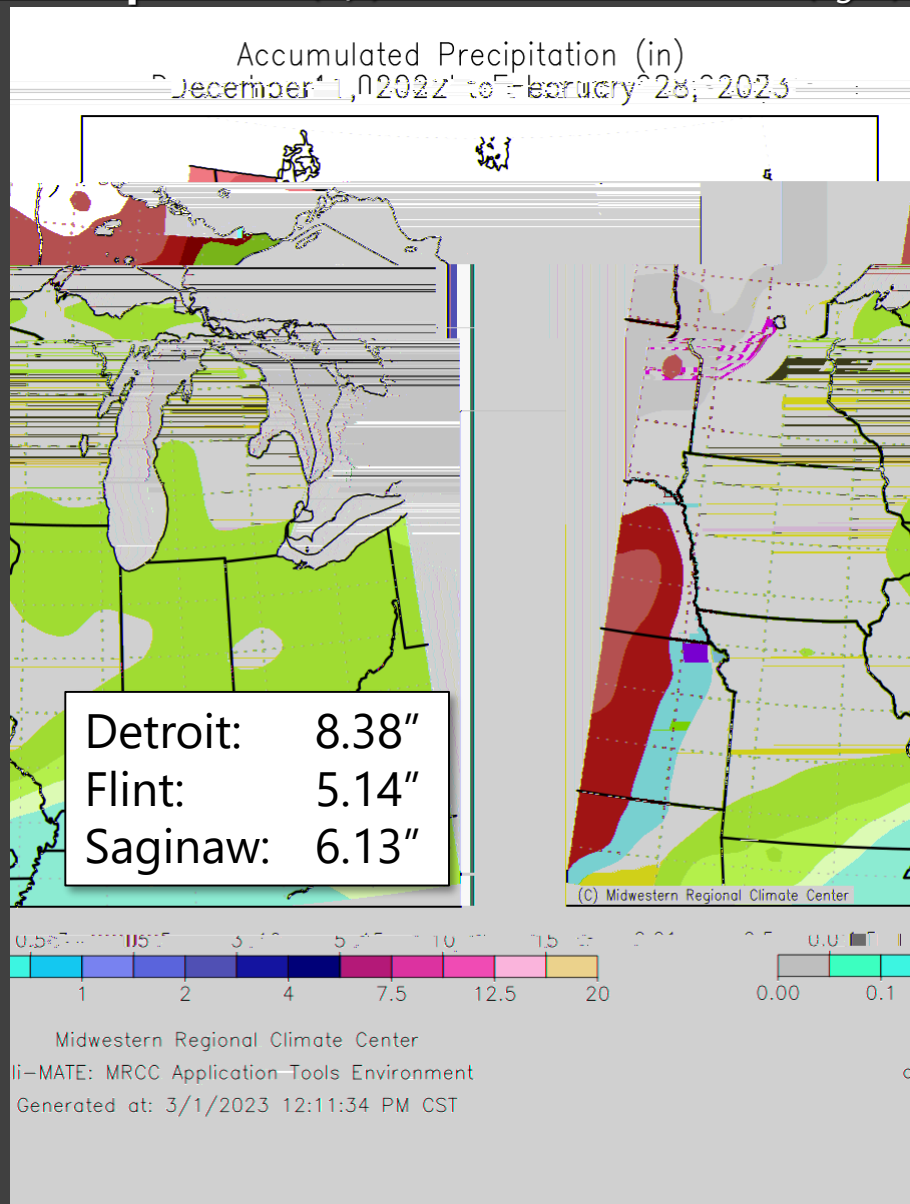
*** Saginaw Area temperature records date back to January 1912.

Winter 2022-2023 – Regional Precipitation Summary

Weather Forecast Office
Detroit, MI



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



Winter – Top 20 Wettest/Driest on Record

Weather Forecast Office
Detroit, MI



Top 20 Wettest/Driest Winters 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	12.74	1949-1950	2.24	2002-2003	10.48	1949-1950	1.51	1962-1963	11.95	1996-1997	1.86	1941-1942
2	12.41	1907-1908	2.36	1962-1963	8.83	1984-1985	1.78	1969-1970	11.24	1949-1950	1.95	1919-1920
3	10.79	1875-1876	2.87	1960-1961	8.67	1953-1954	1.94	2002-2003	8.49	1937-1938	2.08	1976-1977
4	10.31	1929-1930	3.23	1876-1877	8.27	1931-1932	2.19	1976-1977	8.48	1959-1960	2.19	2002-2003
5	10.03	1880-1881	3.30	1969-1970	8.09	1937-1938	2.20	1933-1934	8.41	1964-1965	2.22	1963-1964
6	9.55	1974-1975	3.39	1874-1875	8.04	2012-2013	2.40	1944-1945	8.11	1965-1966	2.42	1944-1945
7	9.49	1931-1932	3.41	1976-1977	7.96	2000-2001	2.42	1960-1961	7.87	2004-2005	2.45	1922-1923
8	9.36	1984-1985	3.43	1888-1889	7.83	1975-1976	2.43	1939-1940	7.81	1972-1973	2.52	1933-1934
9	9.33	2004-2005	3.45	1943-1944	7.55	1973-1974	2.60	1921-1922	7.61	1997-1998	2.66	1969-1970
10	9.22	2007-2008	3.50	1933-1934	7.51	2004-2005	2.78	1963-1964	7.57	2008-2009	2.66	1911-1912
11	9.14	1973-1974	3.58	1900-1901	7.51	1929-1930	2.93	1983-1984	7.53	1973-1974	2.81	1960-1961
12	8.97	1967-1968	3.67	1919-1920	7.46	1948-1949	2.93	1957-1958	7.39	1984-1985	2.84	1939-1940
13	8.94	1879-1880	3.68	1944-1945	7.27	2007-2008	3.10	1988-1989	7.24	2007-2008	2.96	1943-1944
14	8.92	2012-2013	3.72	1939-1940	7.26	2017-2018	3.22	1943-1944	7.19	1950-1951	3.15	1983-1984
15	8.82	1996-1997	3.72	1896-1897	7.25	1974-1975	3.29	1986-1987	7.14	2012-2013	3.17	1993-1994
16	8.78	1938-1939	3.86	2020-2021	7.19	2005-2006	3.35	1993-1994	7.09	1971-1972	3.18	1994-1995
17	8.58	1878-1879	4.02	1988-1989	7.14	2016-2017	3.40	1922-1923	7.07	1938-1939	3.22	1979-1980
18	8.54	1897-1898	4.05	1979-1980	6.81	1946-1947	3.47	1981-1982	7.02	2015-2016	3.25	1988-1989
19	8.47	2005-2006	4.15	1963-1964	6.80	1951-1952	3.61	2009-2010	7.02	1967-1968	3.26	1986-1987
20	8.42	1964-1965	4.18	1930-1931	6.68	1971-1972	3.67	1926-1927	6.99	1927-1928	3.29	1930-1931

* Detroit Area precipitation records date back to November 1874.

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

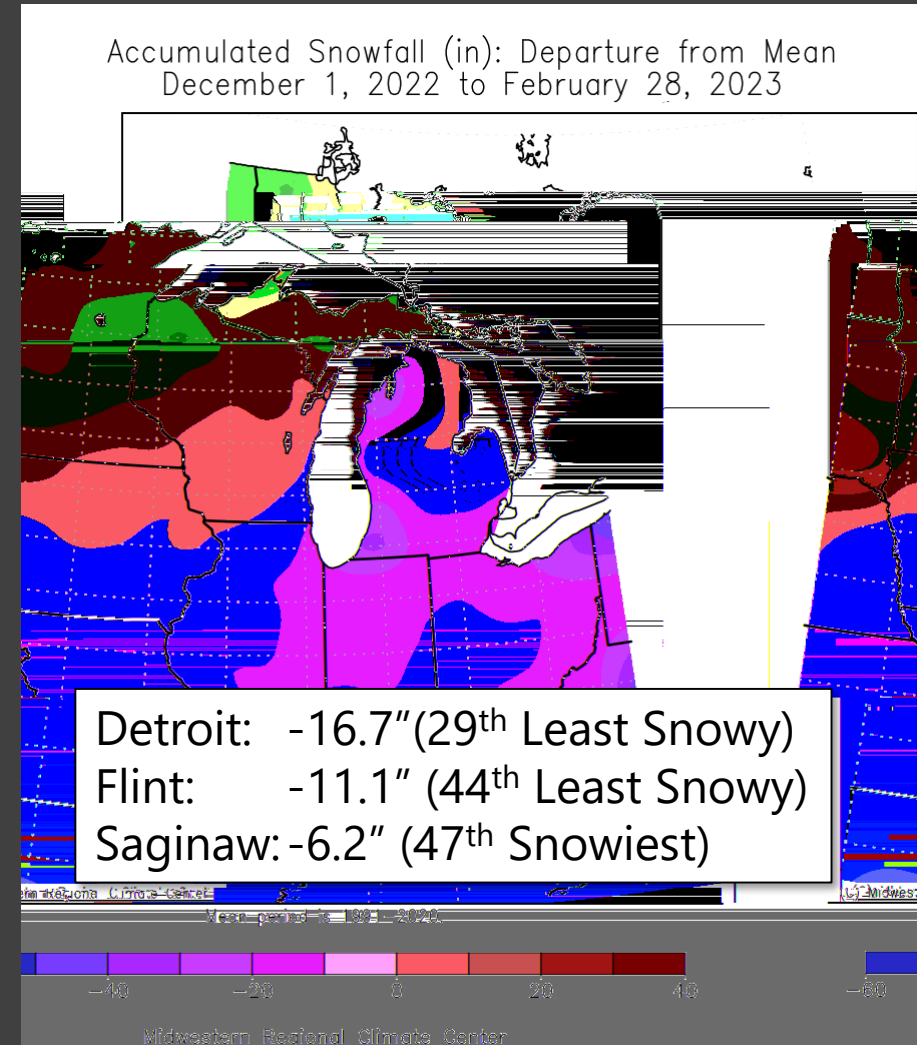
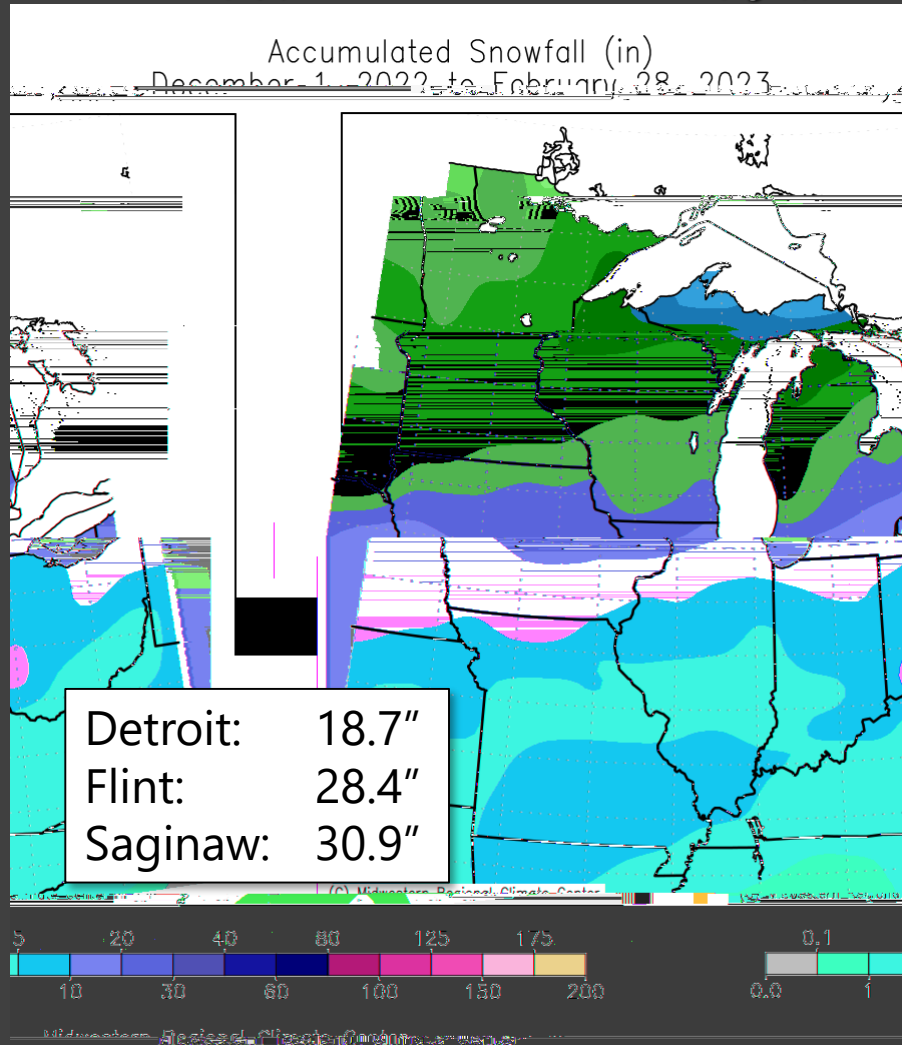
*** Saginaw Area precipitation records date back to January 1912.

Winter 2022-2023 – Regional Snowfall Summary

Weather Forecast Office
Detroit, MI



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

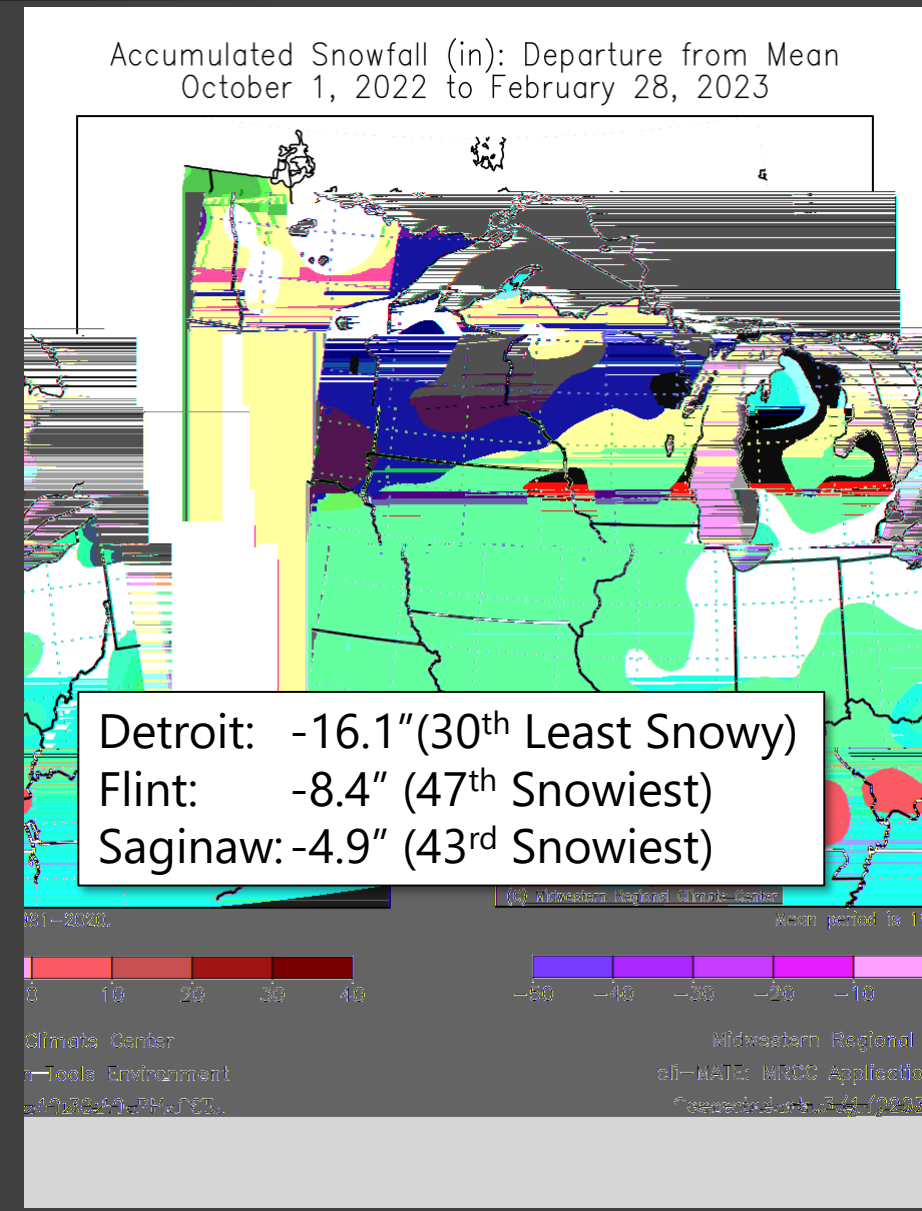
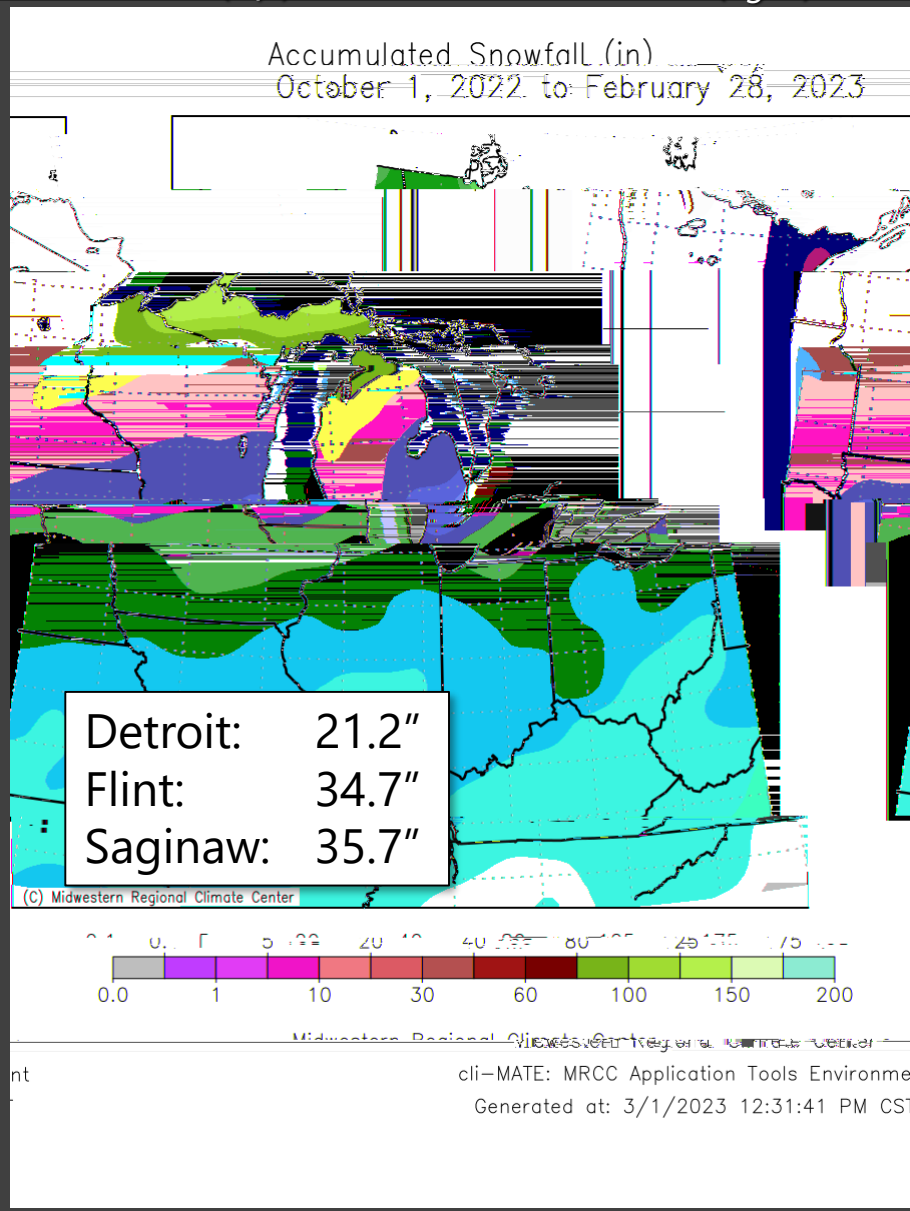


Season-to-Date 2022-2023 – Regional Snowfall Summary

Weather Forecast Office
Detroit, MI



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



Winter 2022-2023 – Daily Temperature Graph

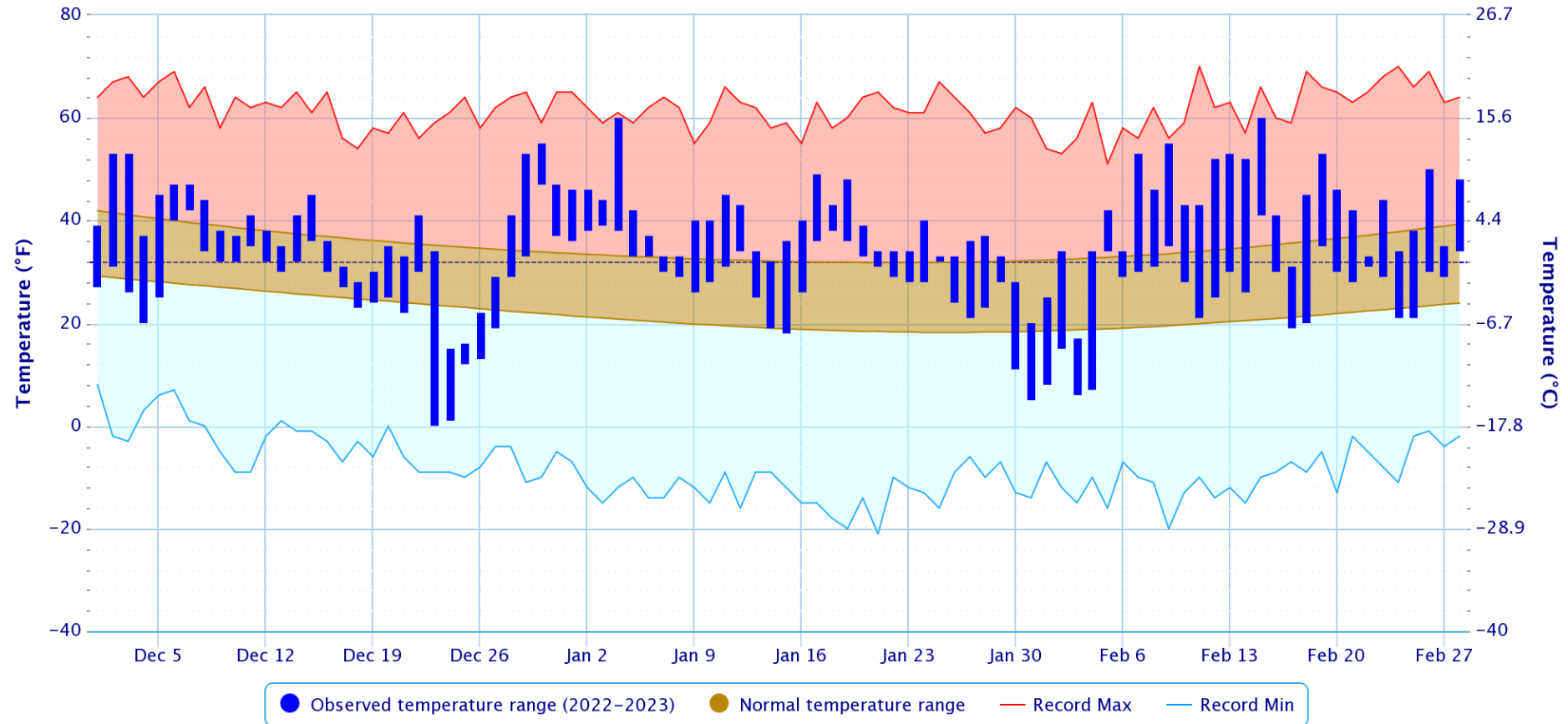
Weather Forecast Office
Detroit, MI



DETROIT

Daily Temperature Data – Detroit Area, MI (ThreadEx)

Period of Record – 1874-01-01 to 2023-02-28. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

Temperature Stats:

Days at or below 0°F: 1
Highest max: 60°F (Jan 4 & Feb 15)
Lowest min: 0°F (Dec 23)
Lowest max: 15°F (Dec 24)
Highest min: 47°F (Dec 30)

Winter 2022-2023 – Daily Precip/Snow Graphs

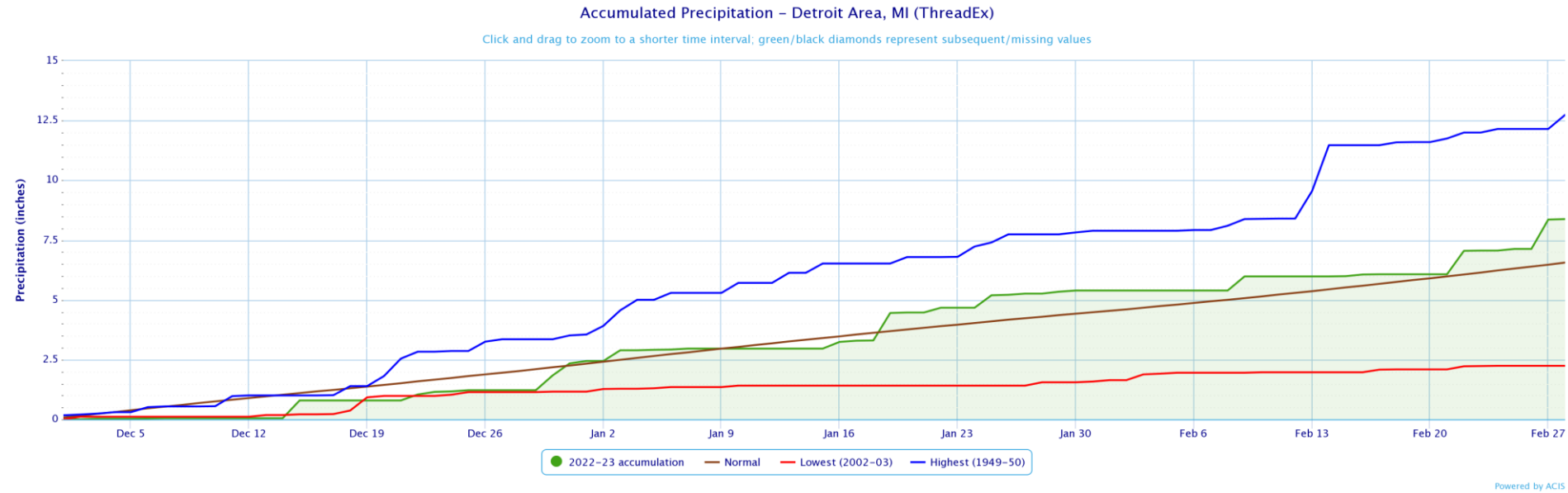
Weather Forecast Office
Detroit, MI



DETROIT

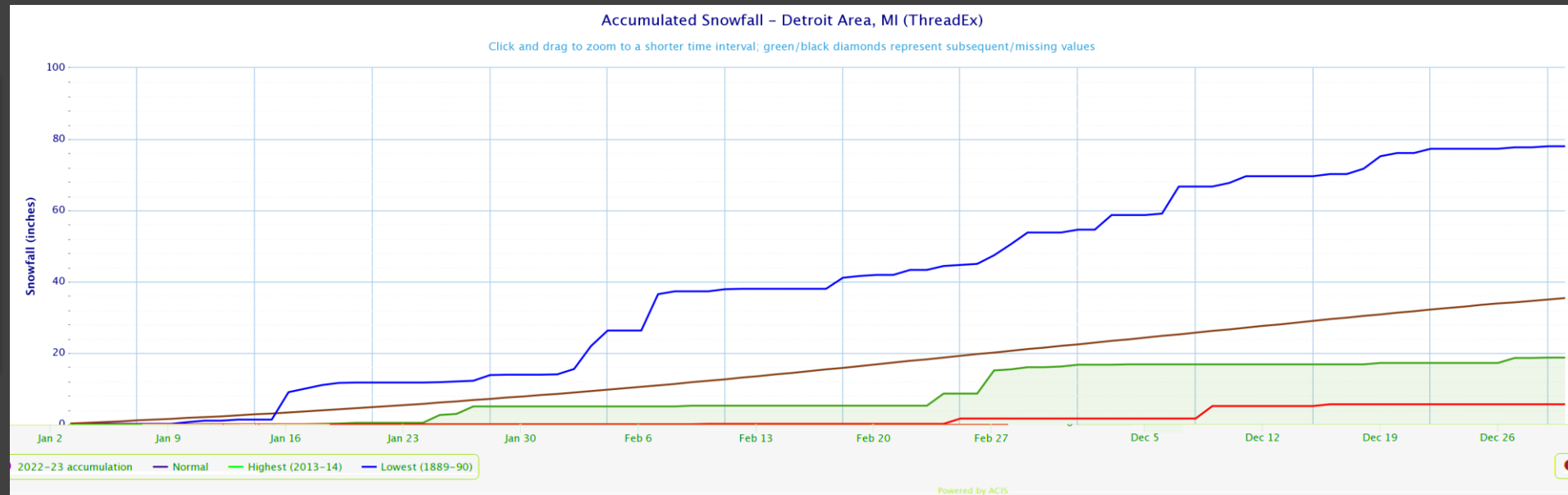
Precipitation Stats:

Days with 1" or more: 2
Days with 0.01" or more: 35
Highest daily precip: 1.23"
(Feb 27)



Snowfall Stats:

Days with 6" or more: 1
Days with 3" or more: 2
Days with 0.1" or more: 17
Highest daily snowfall: 6.5"
(Jan 25)



Winter 2022-2023 – Daily Temperature Graph

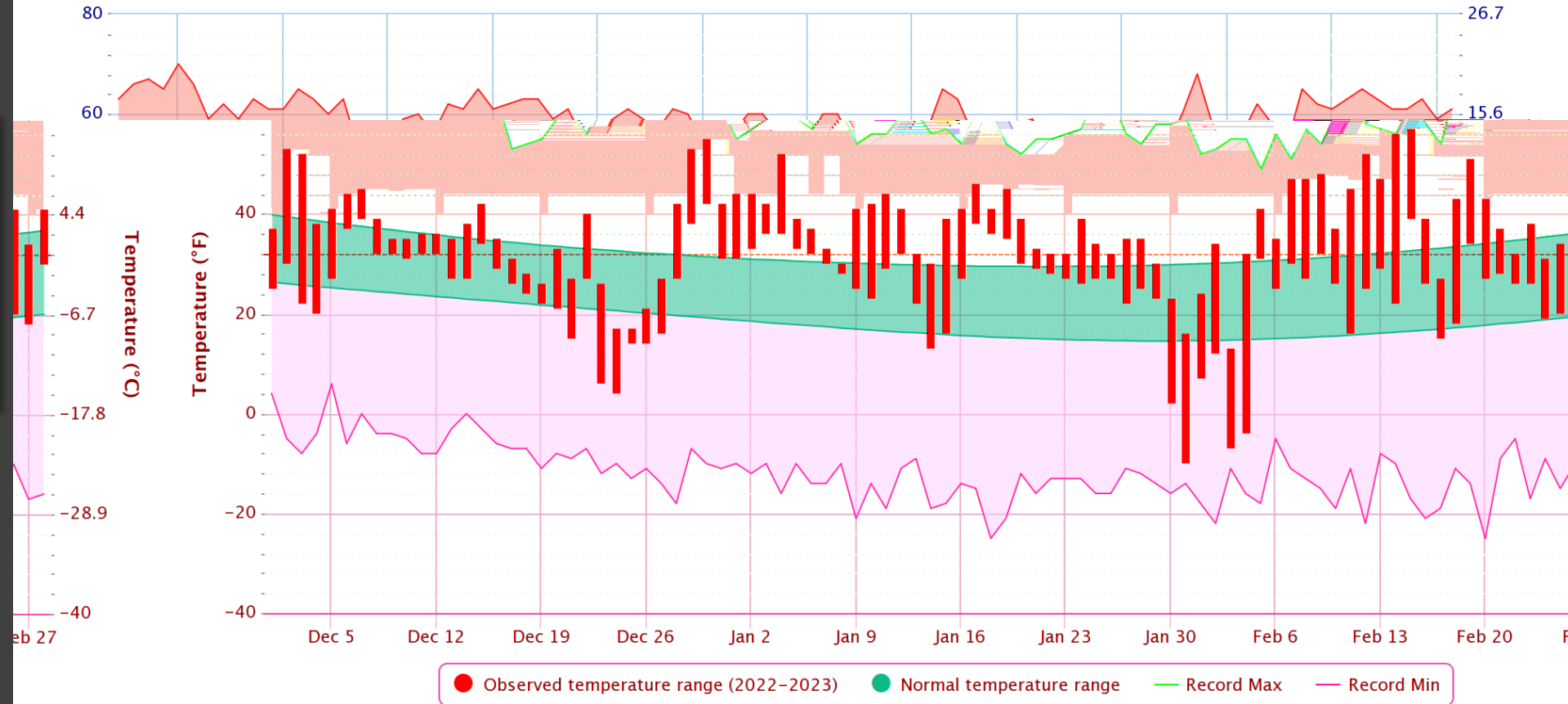
Weather Forecast Office
Detroit, MI



FLINT

Daily Temperature Data – Flint Area, MI (ThreadEx)

Period of Record – 1921-01-01 to 2023-02-28. Normals period: 1991-2020. Click and drag to zoom chart.



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Winter 2022-2023 – Daily Precip/Snow Graphs

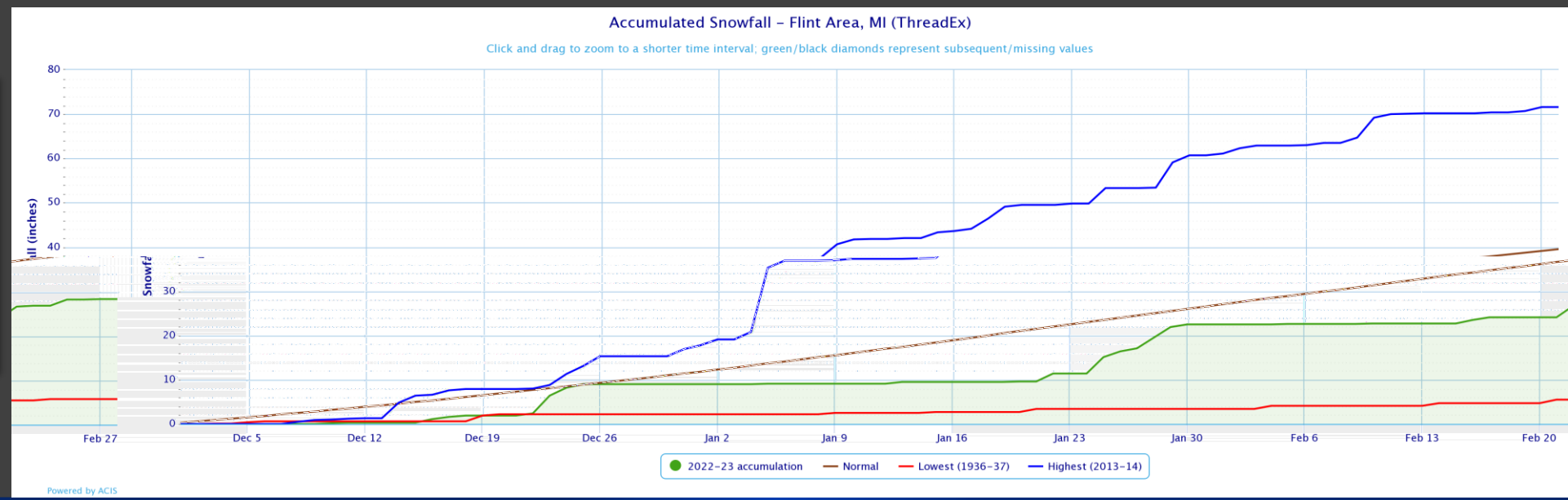
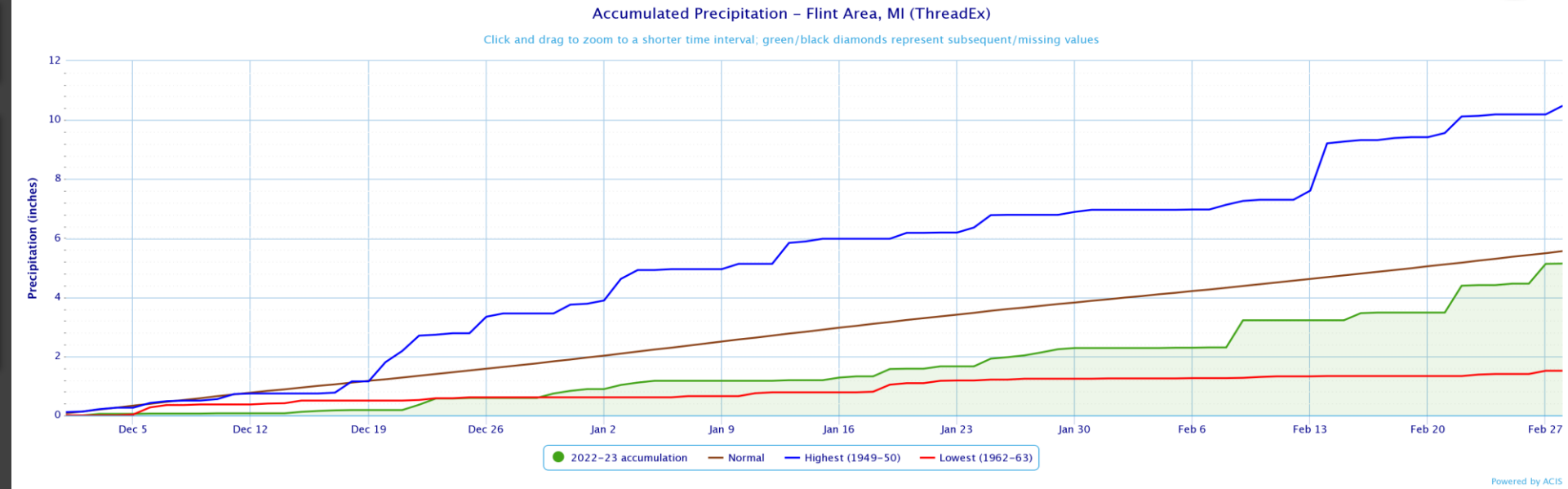
FLINT

Precipitation Stats:

- Days with 1" or more: 0
- Days with 0.01" or more: 38
- Highest daily precip: 0.92" (Feb 9)

Snowfall Stats:

- Days with 6" or more: 0
- Days with 3" or more: 2
- Days with 0.1" or more: 27
- Highest daily snowfall: 4.0" (Dec 23)



Winter 2022-2023 – Daily Temperature Graph

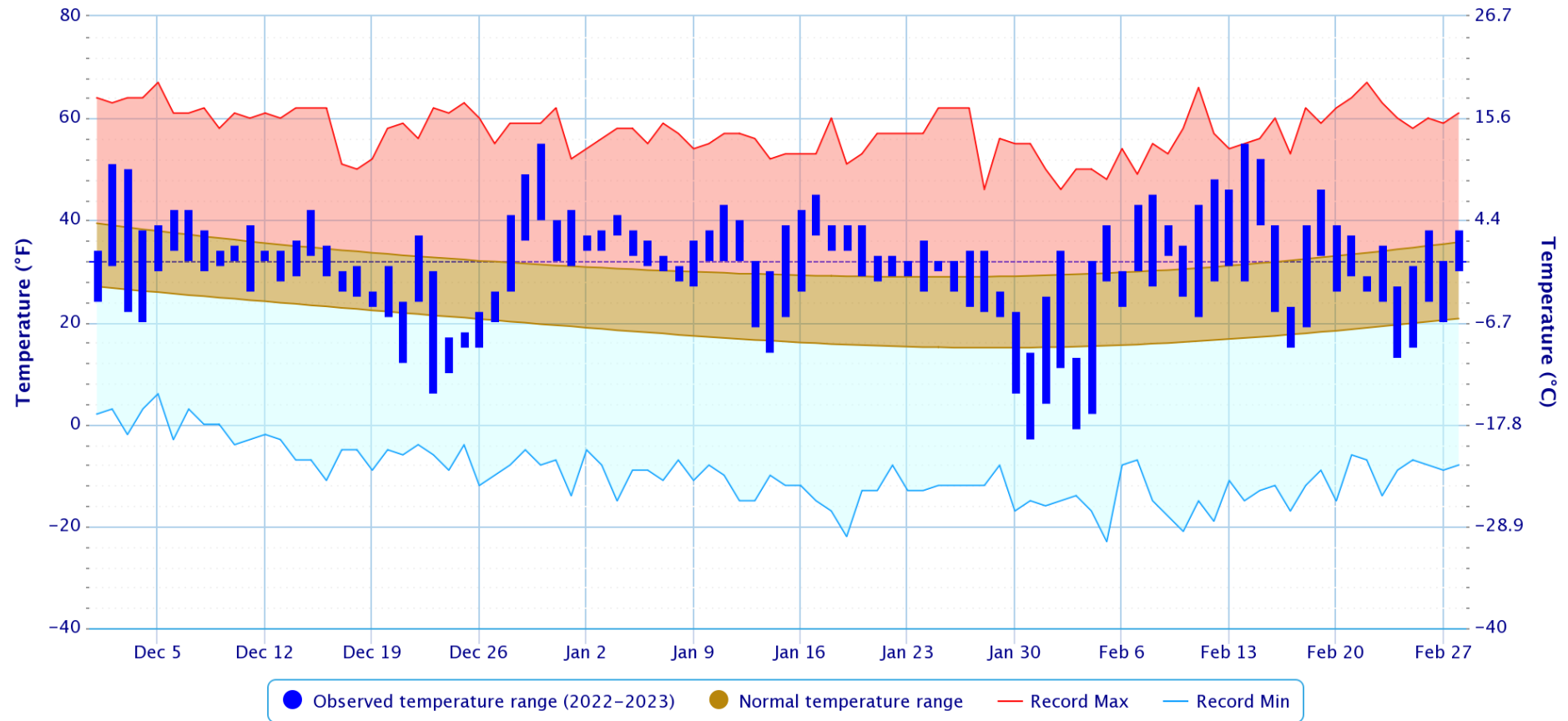
Weather Forecast Office
Detroit, MI



SAGINAW

Daily Temperature Data – Saginaw Area, MI (ThreadEx)

Period of Record – 1912-01-01 to 2023-02-28. Normals period: 1991-2020. Click and drag to zoom chart.



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Temperature Stats:

Days at or below 0°F: 2
Highest max: 55°F (Dec 30 & Feb 14)
Lowest min: -3°F (Jan 31)
Lowest max: 13°F (Feb 3)
Highest min: 40°F (Dec 30)

Winter 2022-2023 – Daily Precip/Snow Graphs

Weather Forecast Office
Detroit, MI



SAGINAW

Precipitation Stats:

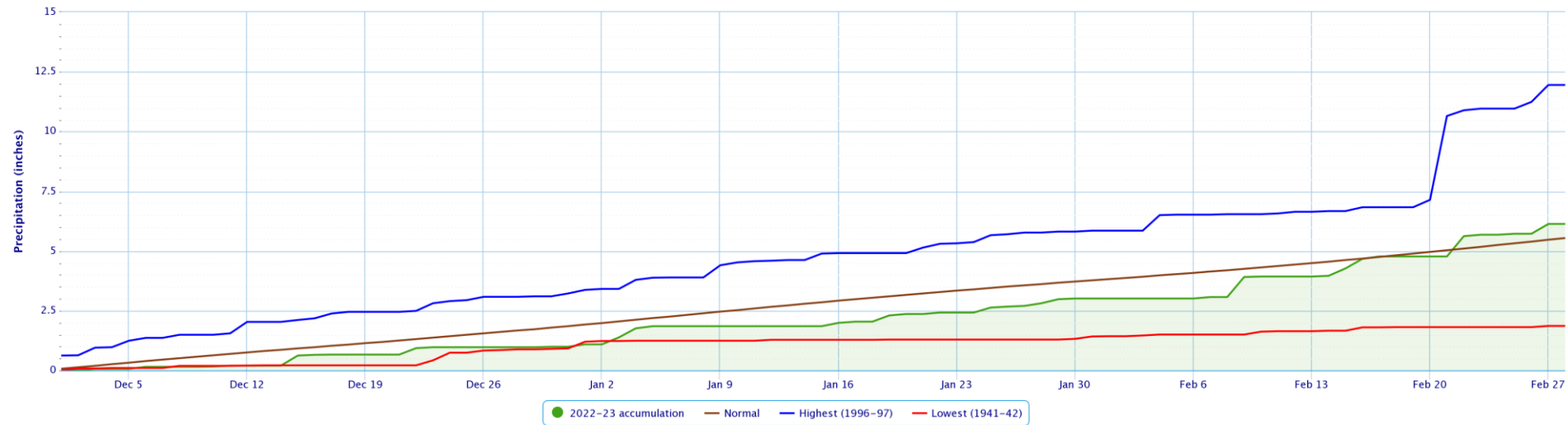
Days with 1" or more: 0
Days with 0.01" or more: 36
Highest daily precip: 0.85"
(Feb 22)

Snowfall Stats:

Days with 6" or more: 1
Days with 3" or more: 2
Days with 0.1" or more: 24
Highest daily snowfall: 7.0"
(Feb 22)

Accumulated Precipitation – Saginaw Area, MI (ThreadEx)

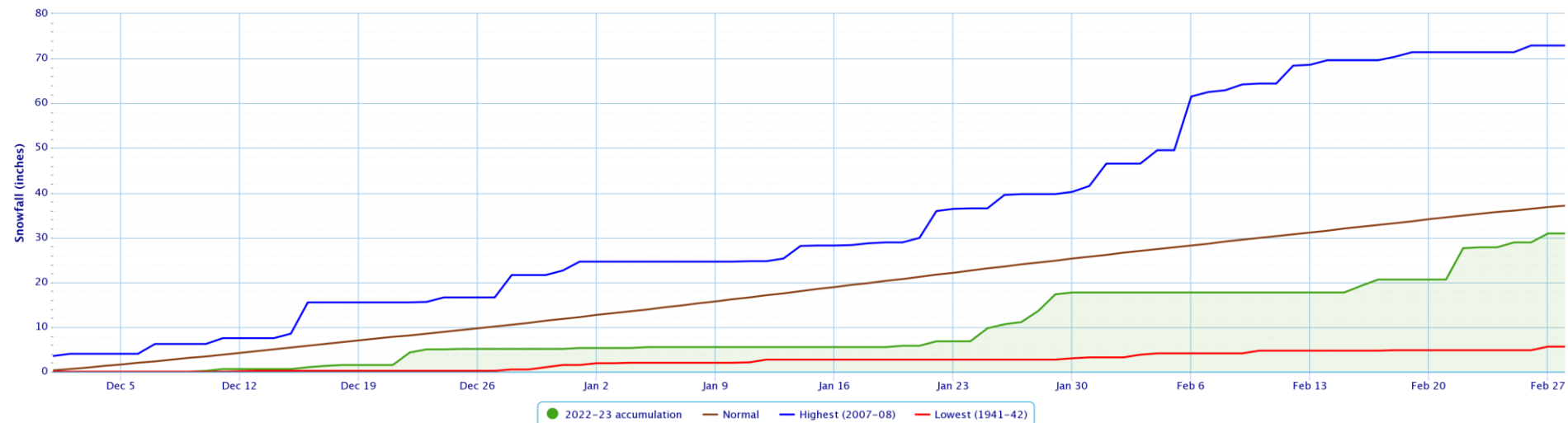
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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Accumulated Snowfall – Saginaw Area, MI (ThreadEx)

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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Winter 2022-2023 - Significant Weather Events

Weather Forecast Office
Detroit, MI



Follow links for web summaries

December 22-25 Winter Storm

weather.gov/dtx/December-22-25-2022-Winter-Storm

January 25 Winter Storm

weather.gov/dtx/2023-01-25-SoutheastMichigan-Snowstorm

January 28-29 Winter Storm

weather.gov/dtx/2023-01-28-29-Winter-Storm

February 22 Winter Storm

weather.gov/dtx/2023-02-22-Winter-Storm

February 27 Winter Storm

weather.gov/dtx/2023-02-27-Winter-Storm



Observed Weather Reports

1. Product »
 Daily Climate Report (CLI)
 Preliminary Monthly Climate Data (CF6)
 Record Event Report (RER)
 Monthly Weather Summary (CLM)
 Regional Summary (RTP)
 State Summary (Temp/Precip)

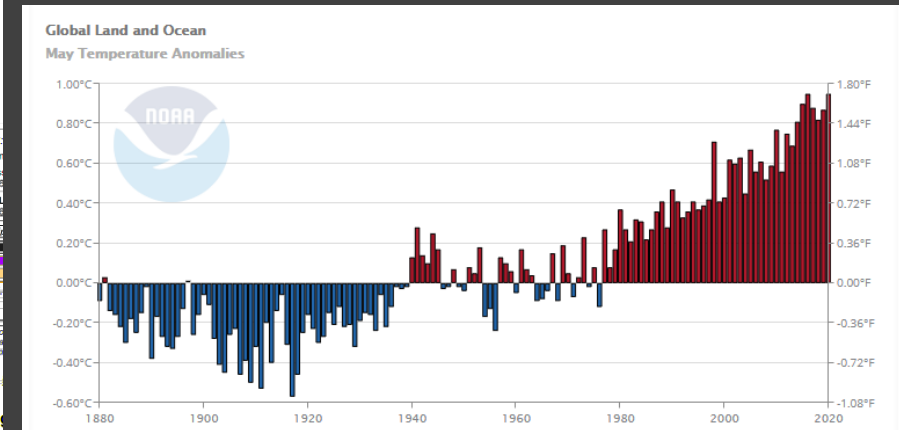
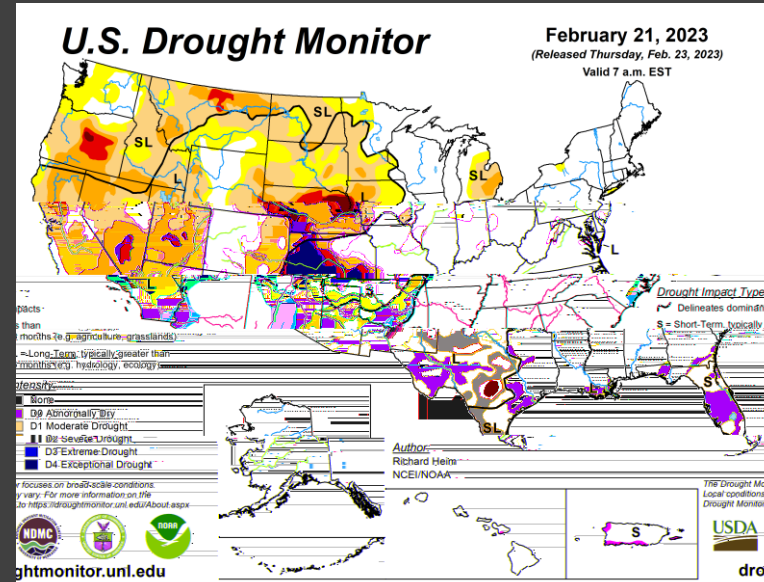
2. Location »
Detroit
Flint
Saginaw

3. Timeframe »
 Most Recent
 Archived Data:
July 3rd, 2020
July 2nd, 2020
July 1st, 2020
June 30th, 2020
June 29th, 2020
June 28th, 2020

4. View »
Go

Storm Event Database (NCDC)

Product Description:
DAILY CLIMATE REPORT - issued daily:
Detailed daily weather statistics (usually for yesterday), including temperature, precipitation, degree days, wind, humidity, sunrise/sunset, and record temperature data for the following day. Precipitation data includes both calendar year and water year totals, percent of normal values, and comparisons to normal. This product is



SE Michigan Climate Products

weather.gov/climate/index.php?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!