



Winter 2023-2024

December, January, and February



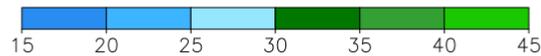
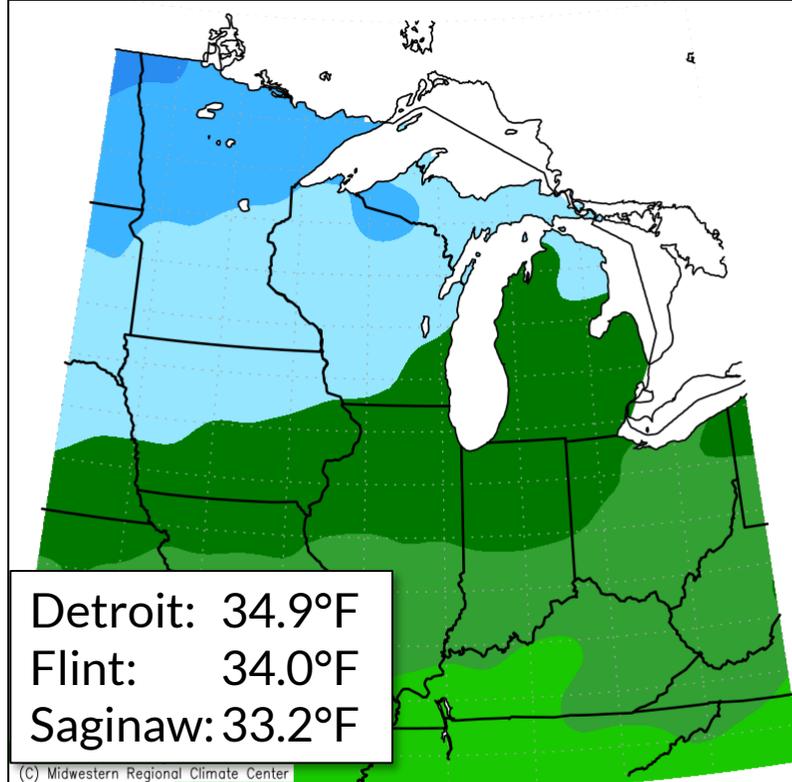
Winter 2023-2024 – Regional Temperature Summary

Weather Forecast Office
Detroit, MI



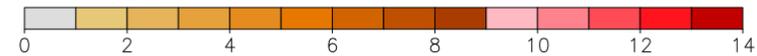
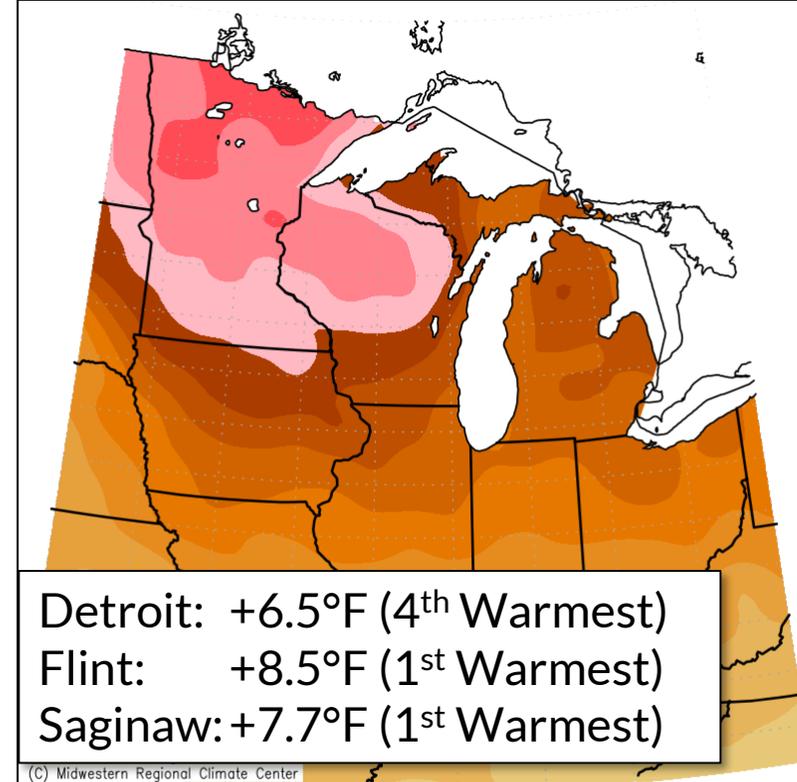
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)
December 1, 2023 to February 29, 2024



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 3/2/2024 5:34:48 AM EST

Average Temperature (°F): Departure from Mean
December 1, 2023 to February 29, 2024



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 3/2/2024 5:35:13 AM EST

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	34.0	2023-2024	15.7	1962-1963	33.2	1931-1932
2	19.3	1874-1875	35.7	1931-1932	17.0	1962-1963	33.4	1931-1932	16.5	1917-1918	33.2	2023-2024
3	19.7	1976-1977	35.2	1889-1890	17.8	1958-1959	33.0	2015-2016	16.6	1919-1920	31.7	2015-2016
4	19.7	1917-1918	34.9	2023-2024	18.6	1978-1979	32.2	1982-1983	17.5	1978-1979	30.9	1997-1998
5	20.4	1962-1963	33.8	2001-2002	19.0	2013-2014	31.7	2001-2002	18.0	1977-1978	30.6	2011-2012
6	20.6	1977-1978	33.8	1997-1998	19.3	1977-1978	31.5	2019-2020	18.2	1976-1977	30.5	2001-2002
7	20.8	1919-1920	33.5	2015-2016	19.8	1993-1994	31.3	1997-1998	18.2	2013-2014	30.4	2022-2023
8	20.9	2013-2014	33.4	2022-2023	19.9	1944-1945	31.2	2011-2012	18.2	1958-1959	30.0	1936-1937
9	21.0	1935-1936	33.0	2011-2012	20.9	1981-1982	31.1	2022-2023	18.7	1935-1936	29.8	2019-2020
10	21.1	1892-1893	32.9	2016-2017	21.2	1935-1936	30.3	1932-1933	19.0	1993-1994	29.6	1982-1983
11	21.4	1904-1905	32.6	2019-2020	21.3	1969-1970	30.2	2016-2017	19.2	1916-1917	29.5	1920-1921
12	21.5	1978-1979	32.5	1982-1983	21.4	1985-1986	29.1	1952-1953	20.0	1961-1962	29.4	2016-2017
13	21.7	1880-1881	32.5	1879-1880	21.5	1961-1962	28.8	1936-1937	20.1	1944-1945	29.0	1918-1919
14	21.8	1911-1912	32.3	1918-1919	21.6	2008-2009	28.6	1948-1949	20.2	1969-1970	28.8	1932-1933
15	21.8	1878-1879	32.2	1952-1953	21.6	1983-1984	28.5	2012-2013	20.3	1981-1982	28.5	2012-2013
16	21.9	1981-1982	31.6	1877-1878	21.6	1947-1948	28.3	1930-1931	20.7	1947-1948	28.3	1952-1953
17	22.4	1969-1970	31.3	1948-1949	22.0	2014-2015	28.2	1991-1992	21.2	2008-2009	28.0	1930-1931
18	23.0	1958-1959	31.2	1920-1921	22.2	2010-2011	28.2	1949-1950	21.3	2002-2003	27.8	1974-1975
19	23.2	1876-1877	31.1	1875-1876	22.4	1942-1943	28.1	1974-1975	21.4	1942-1943	27.6	1948-1949
20	23.3	2014-2015	31.0	1953-1954	22.5	2002-2003	28.0	1953-1954	21.6	1985-1986	27.2	1998-1999

* 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.

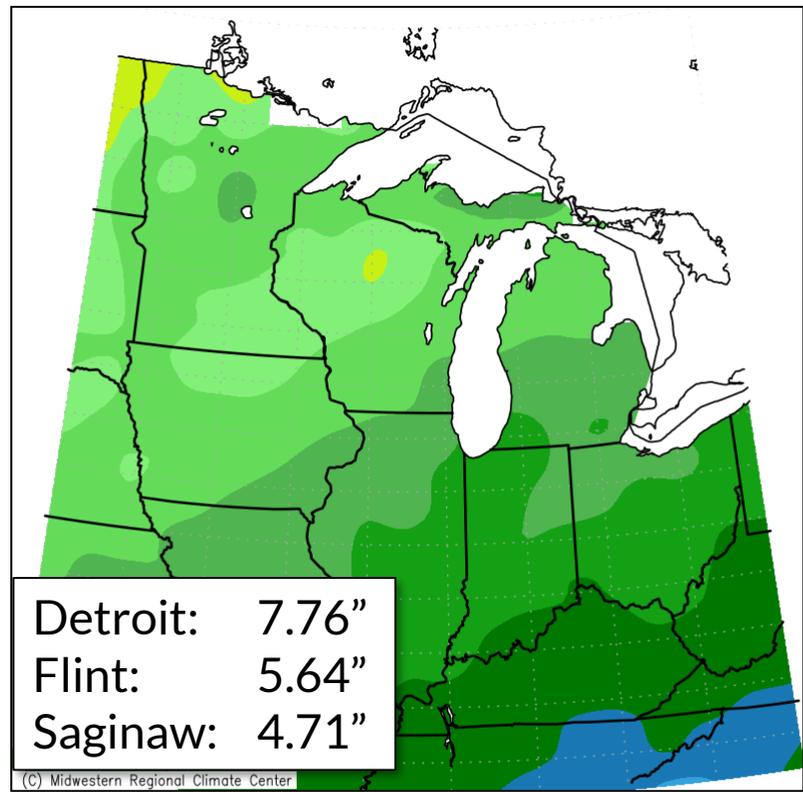
Winter 2023-2024 – Regional Precipitation Summary

Weather Forecast Office
Detroit, MI



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

Accumulated Precipitation (in)
December 1, 2023 to February 29, 2024

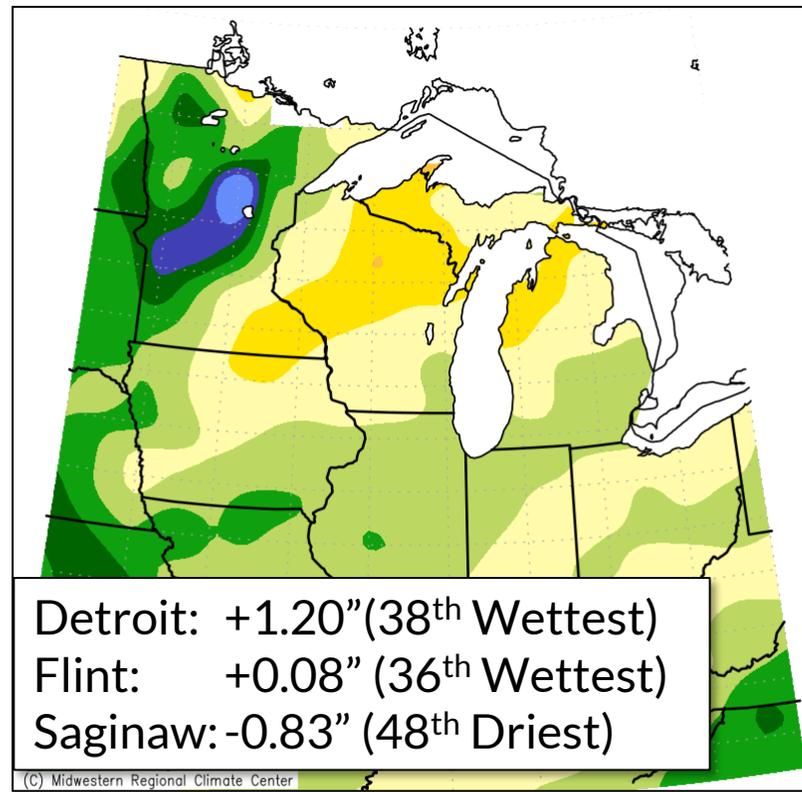


Detroit: 7.76"
Flint: 5.64"
Saginaw: 4.71"

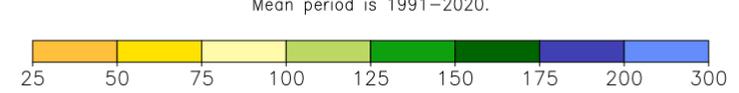


Midwestern Regional Climate Center
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Accumulated Precipitation: Percent of Mean
December 1, 2023 to February 29, 2024



Detroit: +1.20" (38th Wettest)
Flint: +0.08" (36th Wettest)
Saginaw: -0.83" (48th Driest)



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 3/2/2024 5:38:48 AM EST

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.

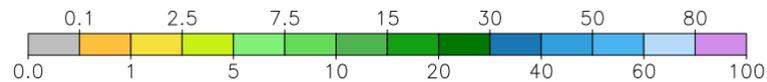
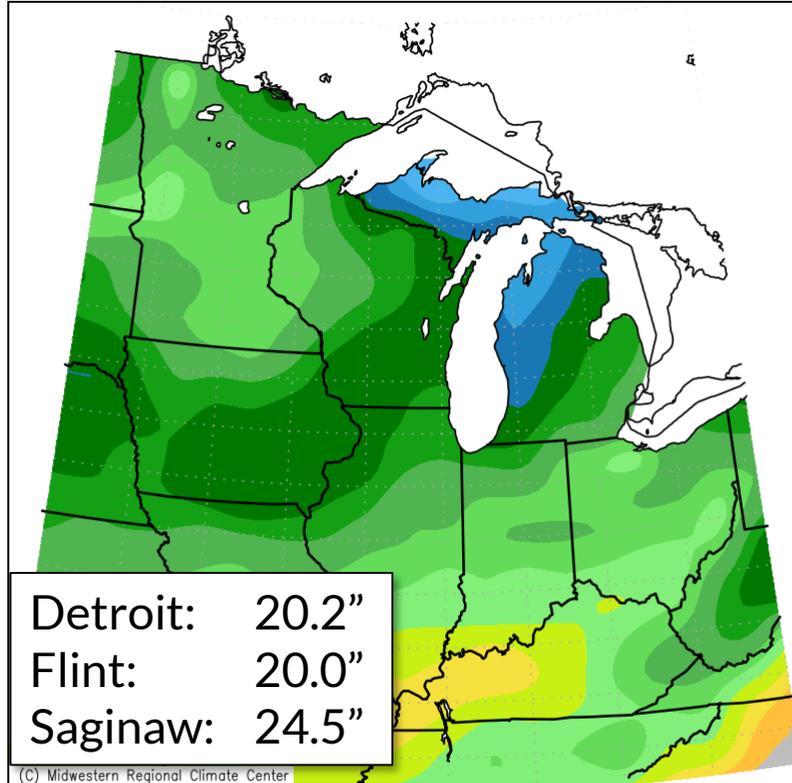
Winter 2023-2024 – Regional Snowfall Summary

Weather Forecast Office
Detroit, MI



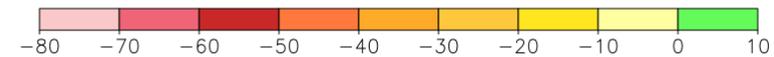
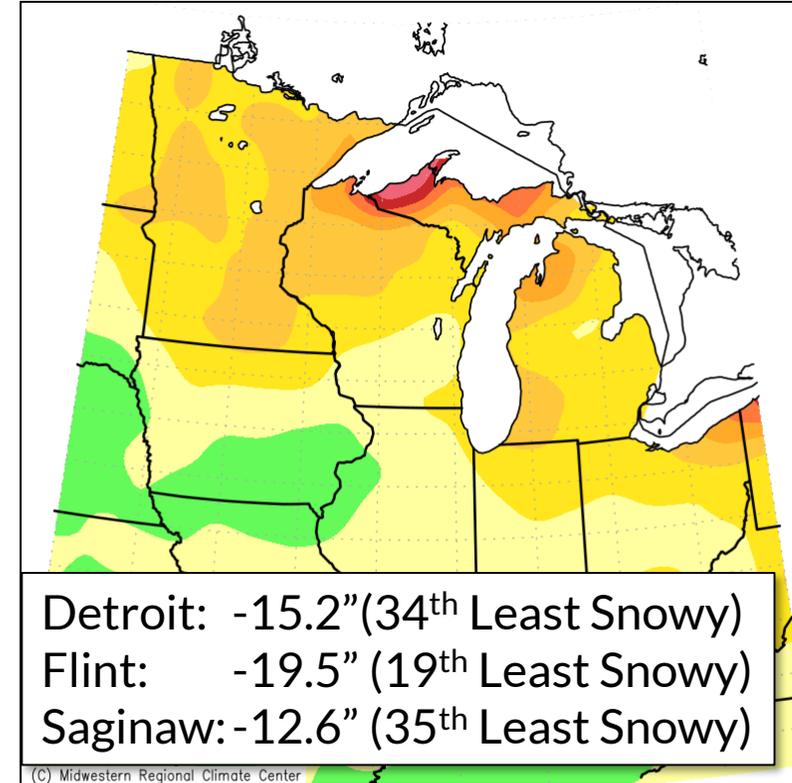
Total Seasonal Snowfall (left) & Percent of Mean (right)

Accumulated Snowfall (in)
December 1, 2023 to February 29, 2024



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
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Accumulated Snowfall (in): Departure from Mean
December 1, 2023 to February 29, 2024



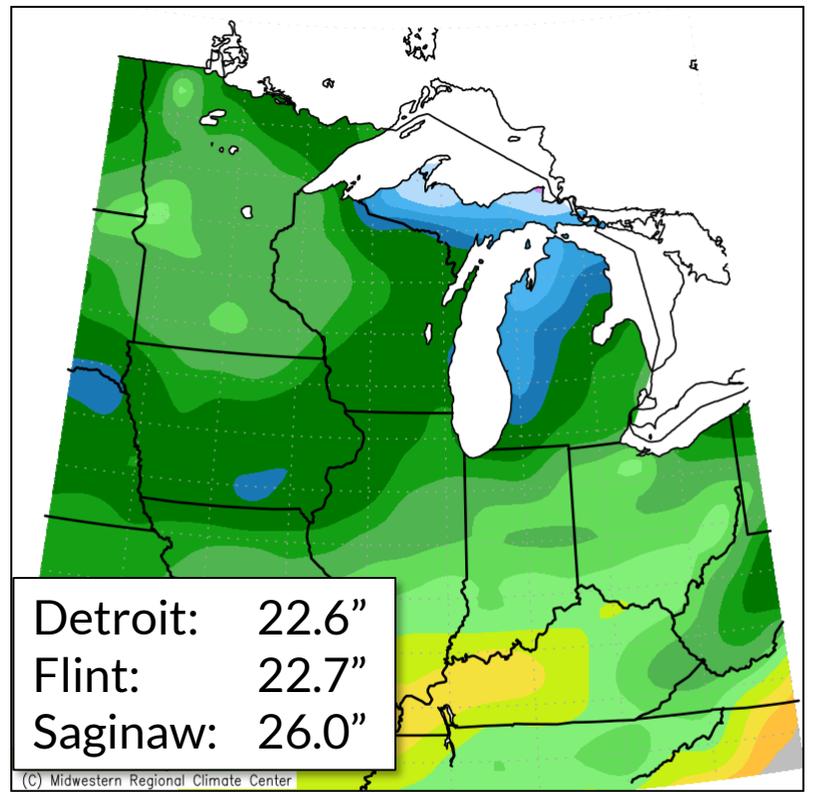
Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 3/2/2024 5:43:36 AM EST

Season-to-Date 2023-2024 – Regional Snowfall Summary

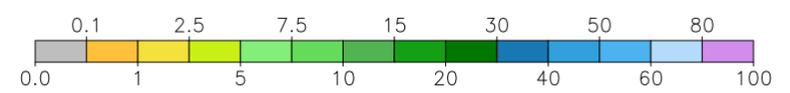


Total Seasonal Snowfall (left) & Percent of Mean (right)

Accumulated Snowfall (in)
October 1, 2023 to February 29, 2024

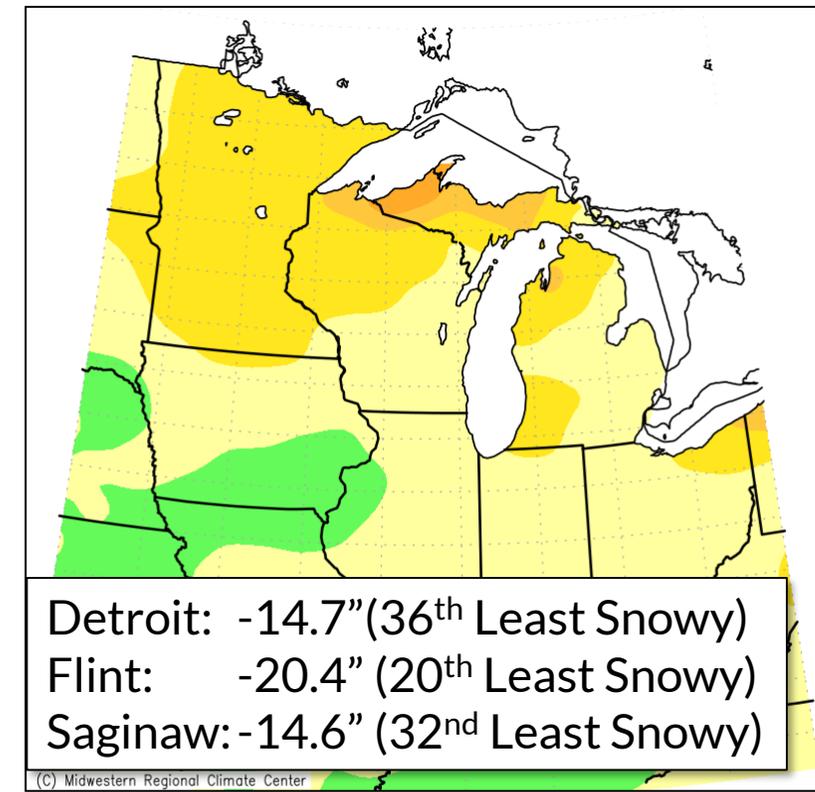


Detroit: 22.6"
Flint: 22.7"
Saginaw: 26.0"

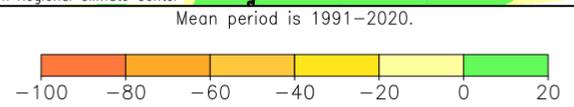


Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 3/2/2024 11:30:35 PM EST

Accumulated Snowfall (in): Departure from Mean
October 1, 2023 to February 29, 2024



Detroit: -14.7" (36th Least Snowy)
Flint: -20.4" (20th Least Snowy)
Saginaw: -14.6" (32nd Least Snowy)



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 3/2/2024 11:30:52 PM EST

Winter 2023-2024 – Daily Temperature Graph

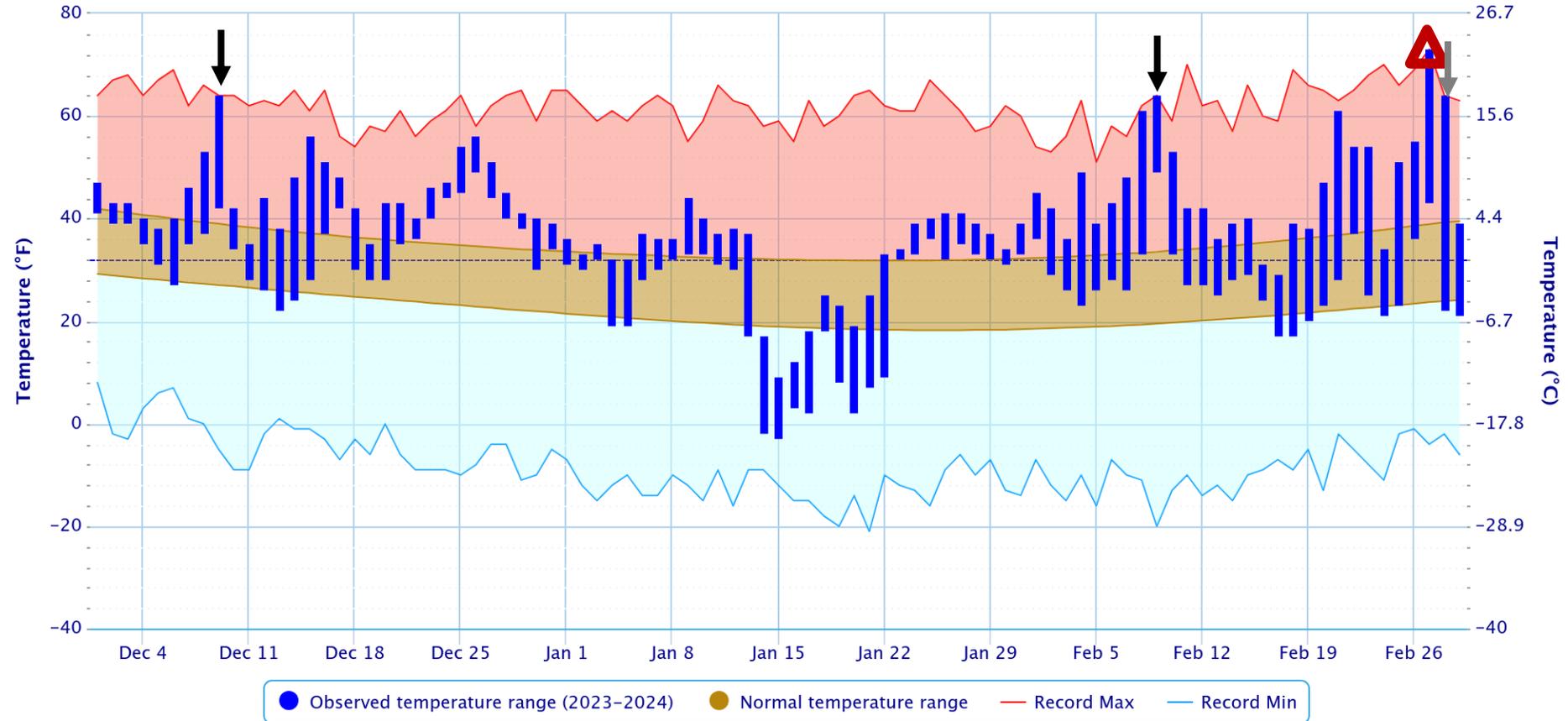
Weather Forecast Office
Detroit, MI



DETROIT

Daily Temperature Data – Detroit Area, MI (ThreadEx)

Period of Record – 1874-01-01 to 2024-03-01. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

Temperature Stats:

Days at or below 0°F: 2
Highest max: 73°F (Feb 27)
Lowest min: -3°F (Jan 15)
Lowest max: 9°F (Jan 15)
Highest min: 49°F (Dec 26)

RECORDS



February All Time Max Temp:
73°F on Feb 27



Daily Max Temp:
64°F on Dec 9, 64°F on Feb 9



Daily Max Temp (tied):
64°F on Feb 28

Winter 2023-2024 – Daily Precip/Snow Graphs

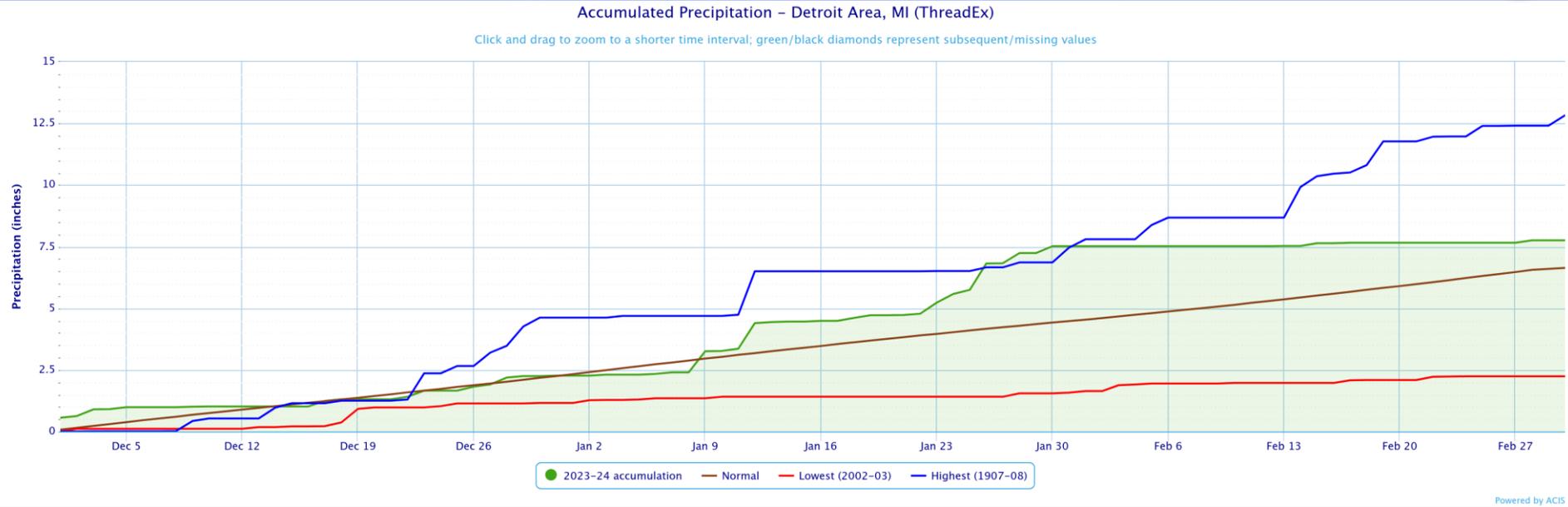
Weather Forecast Office
Detroit, MI



DETROIT

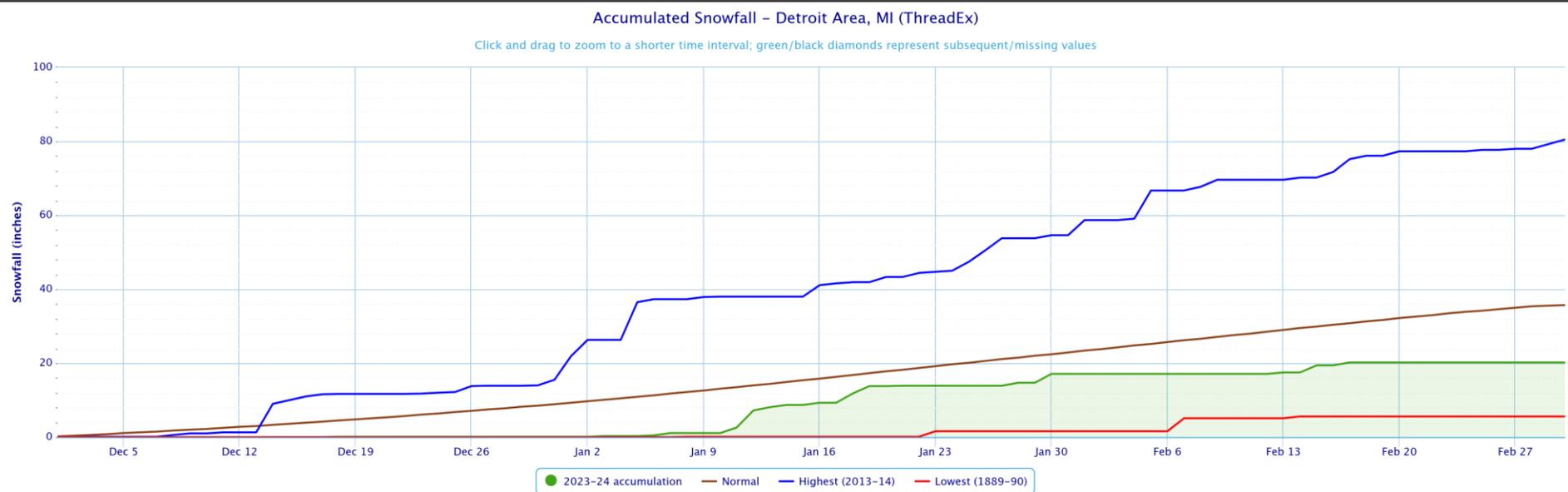
Precipitation Stats:

Days with 1" or more: 2
Days with 0.01" or more: 41
Highest daily precip: 1.07"
(Jan 26)



Snowfall Stats:

Days with 6" or more: 0
Days with 3" or more: 1
Days with 0.1" or more: 17
Highest daily snowfall: 4.6"
(Jan 12)



Winter 2023-2024 – Daily Temperature Graph

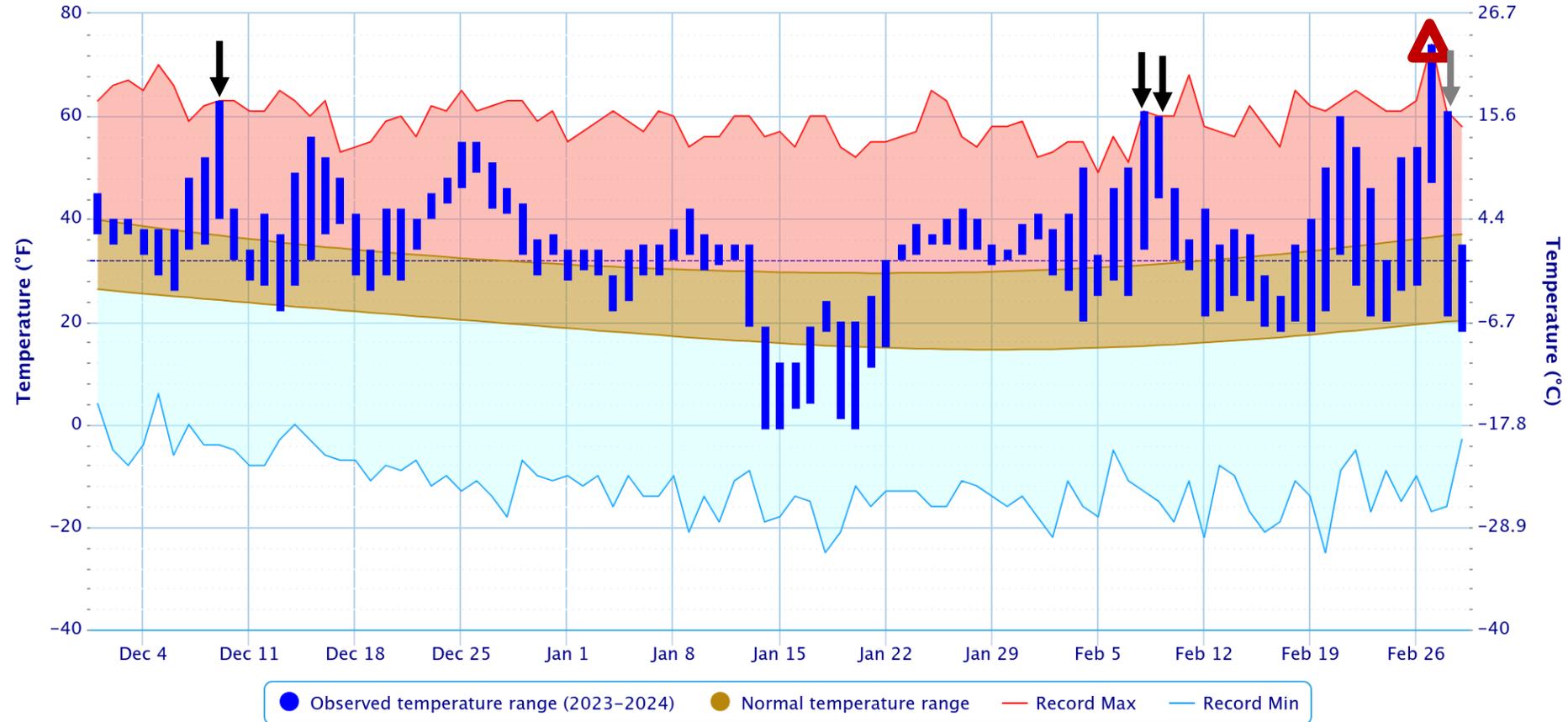
Weather Forecast Office
Detroit, MI



FLINT

Daily Temperature Data – Flint Area, MI (ThreadEx)

Period of Record – 1921-01-01 to 2024-03-01. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

RECORDS



February All Time Max Temp:
74°F on Feb 27

Daily Max Temp:
63°F on Dec 9, 61°F on Feb 8, 60°F on Feb 9

Daily Max Temp (tied):
61°F on Feb 28

Winter 2023-2024 – Daily Precip/Snow Graphs

Weather Forecast Office
Detroit, MI



FLINT

Precipitation Stats:

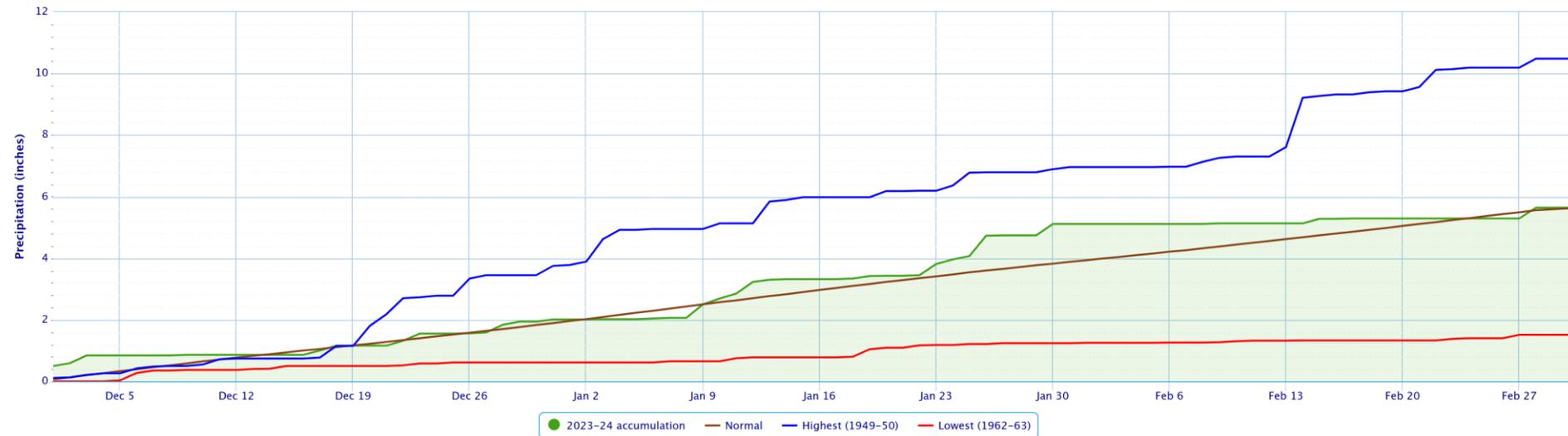
Days with 1" or more: 0
Days with 0.01" or more: 36
Highest daily precip: 0.66"
(Jan 26)

Snowfall Stats:

Days with 6" or more: 0
Days with 3" or more: 1
Days with 0.1" or more: 21
Highest daily snowfall: 4.2"
(Jan 30)

Accumulated Precipitation – Flint Area, MI (ThreadEx)

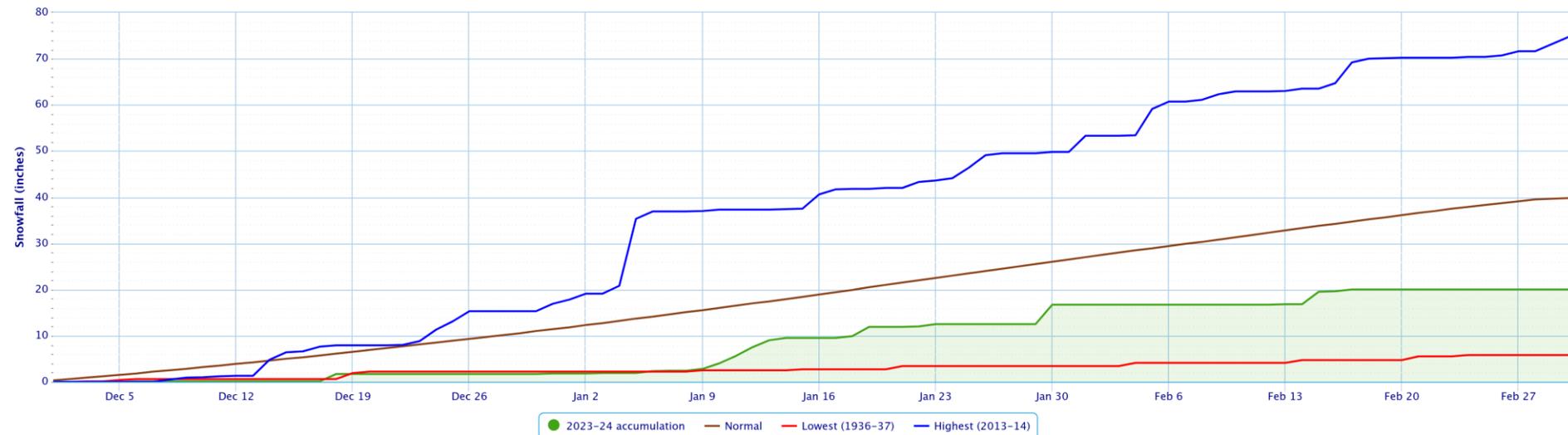
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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Accumulated Snowfall – Flint Area, MI (ThreadEx)

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



Winter 2023-2024 – Daily Temperature Graph

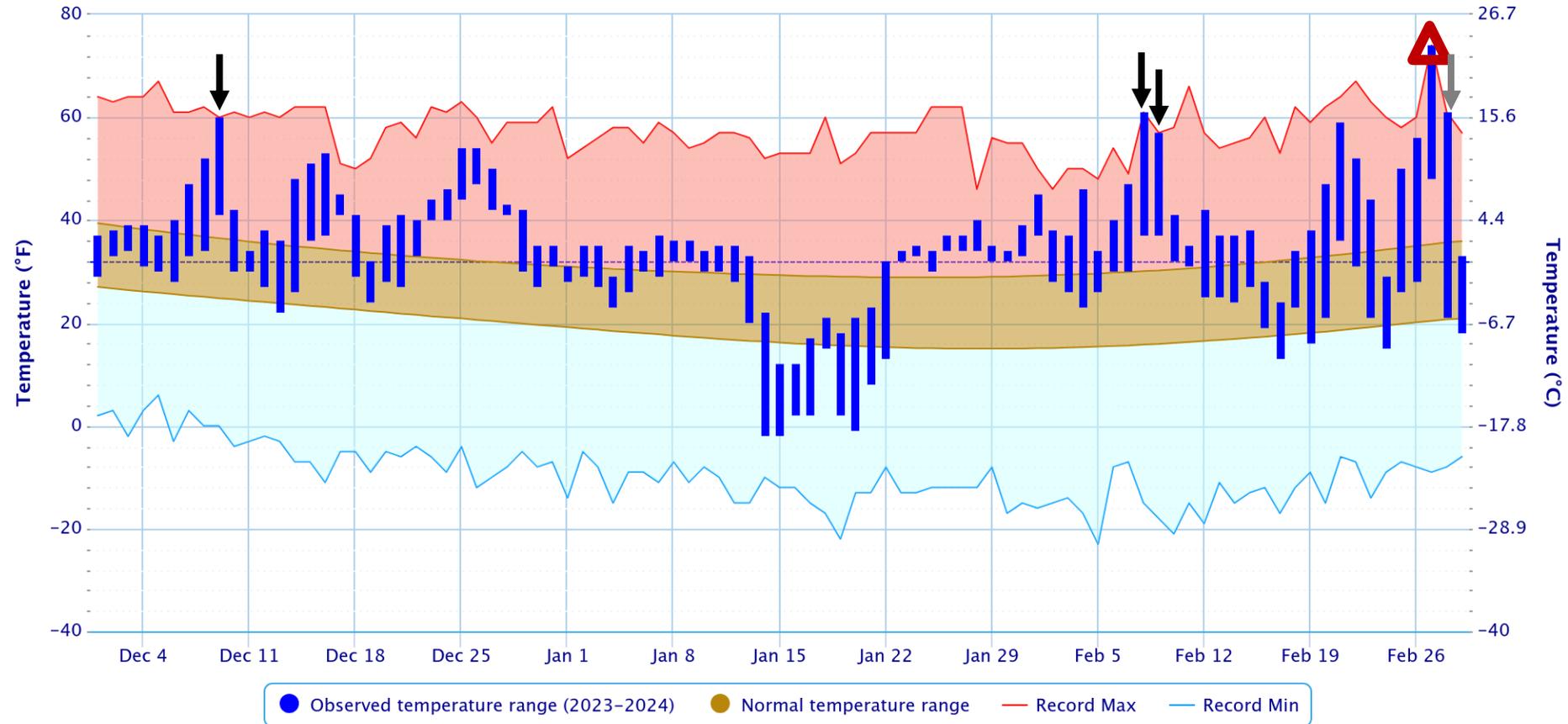
Weather Forecast Office
Detroit, MI



SAGINAW

Daily Temperature Data – Saginaw Area, MI (ThreadEx)

Period of Record – 1912-01-01 to 2024-03-01. Normals period: 1991-2020. Click and drag to zoom chart.



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Temperature Stats:

Days at or below 0°F: 3
Highest max: 74°F (Feb 27)
Lowest min: -2°F (Jan 14 & 15)
Lowest max: 12°F (Jan 15 & 16)
Highest min: 48°F (Feb 27)

RECORDS

▲ February All Time Max Temp:
74°F on Feb 27

↓ Daily Max Temp:
60°F on Dec 9, 61°F on Feb 8, 57°F on Feb 9

↓ Daily Max Temp (tied):
61°F on Feb 28

Winter 2023-2024 – Daily Precip/Snow Graphs

Weather Forecast Office
Detroit, MI



SAGINAW

Precipitation Stats:

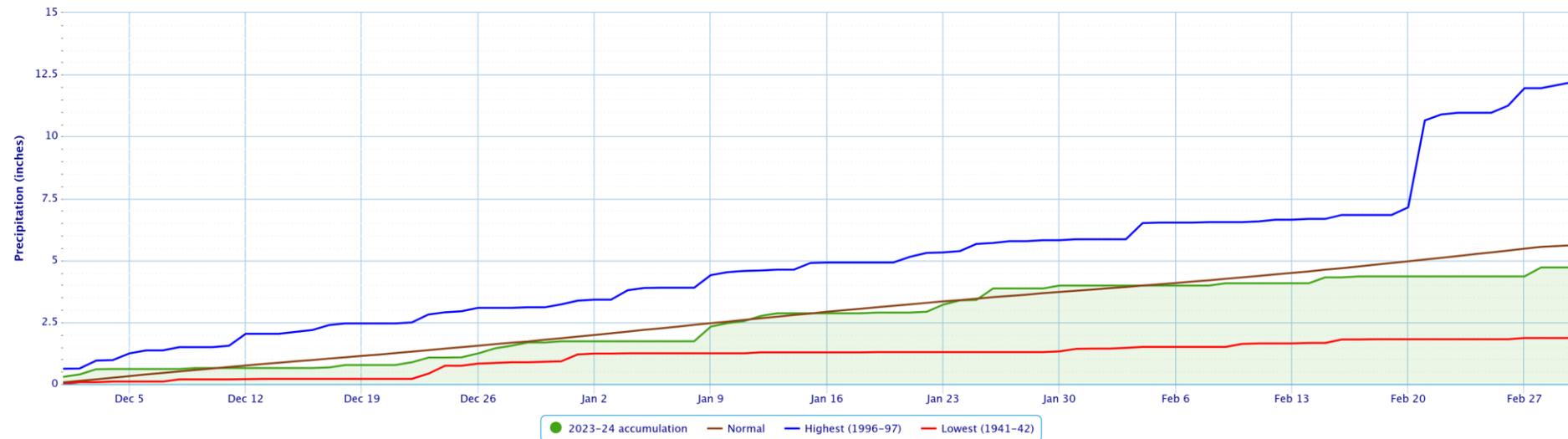
Days with 1" or more: 0
Days with 0.01" or more: 31
Highest daily precip: 0.59"
(Jan 9)

Snowfall Stats:

Days with 6" or more: 0
Days with 3" or more: 3
Days with 0.1" or more: 21
Highest daily snowfall: 5.0"
(Feb 15)

Accumulated Precipitation – Saginaw Area, MI (ThreadEx)

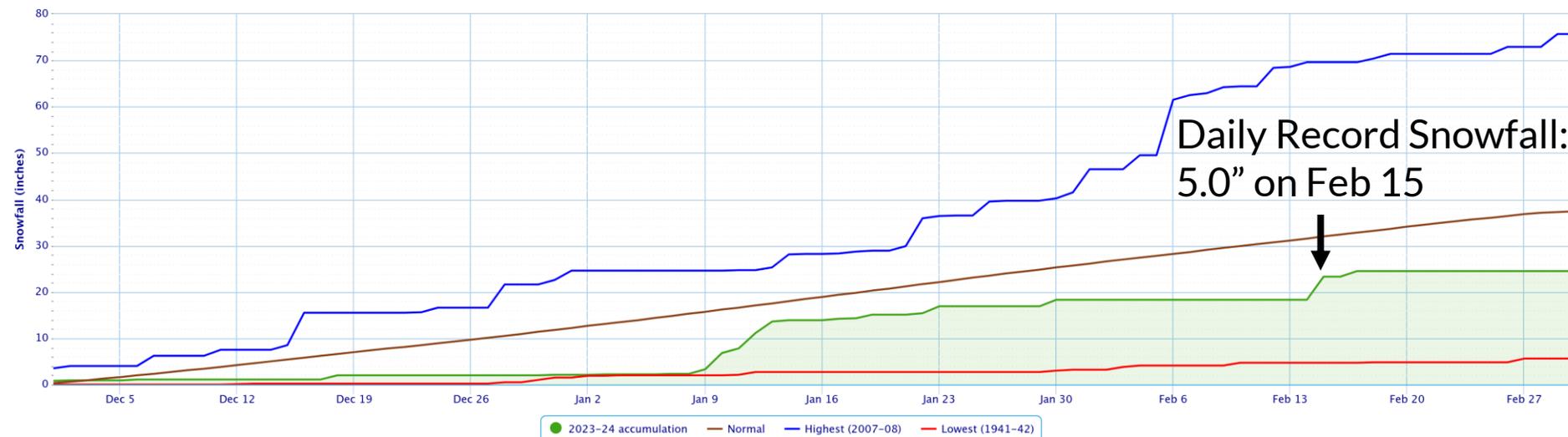
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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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



Daily Record Snowfall:
5.0" on Feb 15



Follow links for web summaries

January 12-13 Winter Storm

weather.gov/dtx/2024-01-12-Winter-Storm

February 28 Grand Blanc Tornado [Public Information Statement](#)



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)

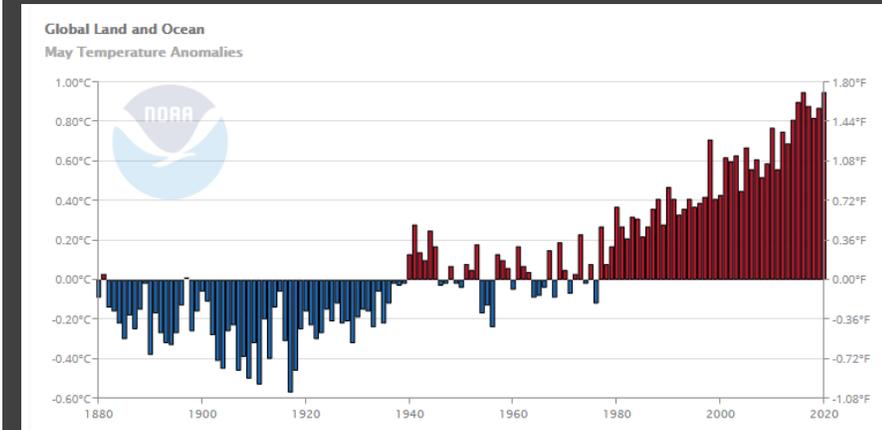
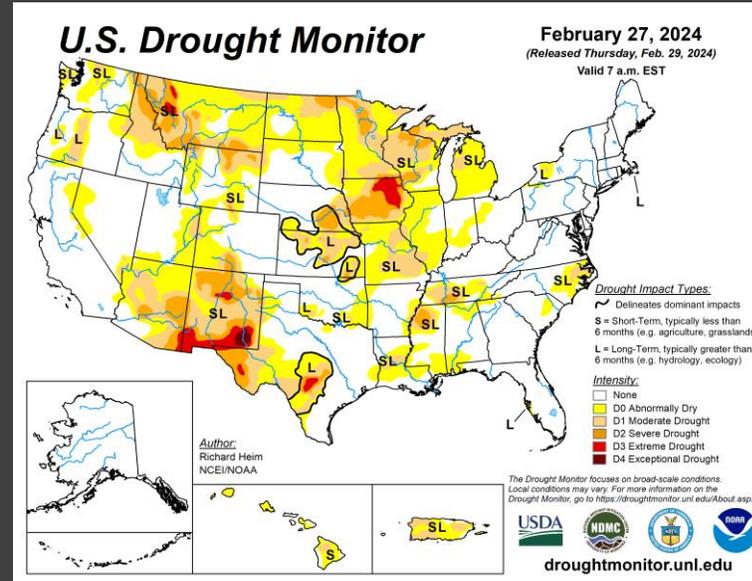
2. Location »
Detroit
Flint
Saginaw

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!