

# Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Weather Forecast Office  
Detroit, MI



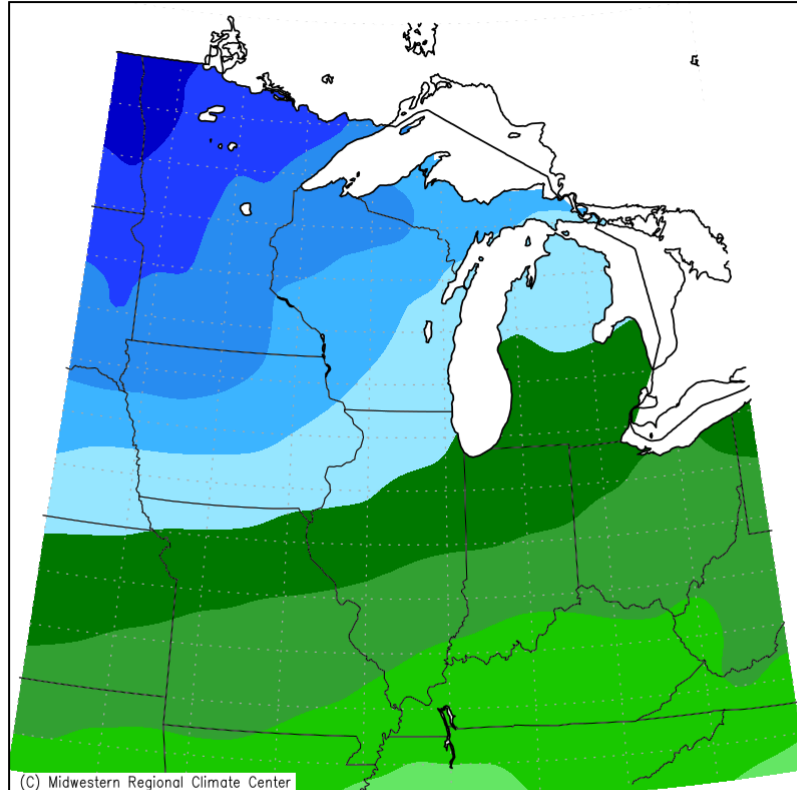
# January 2023 – Regional Temperature Summary

Weather Forecast Office  
Detroit, MI



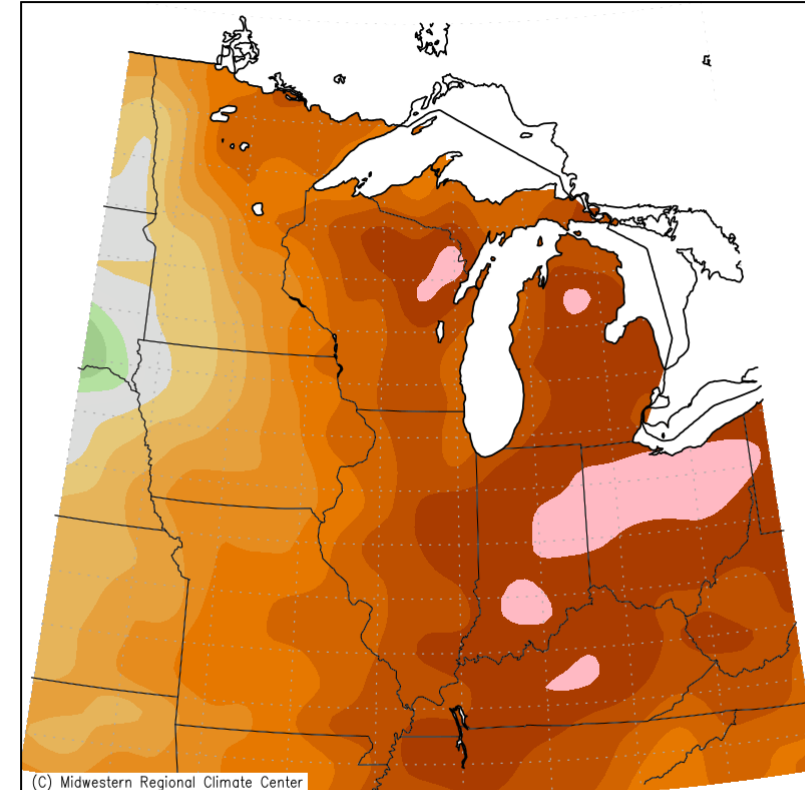
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)  
January 1, 2023 to January 31, 2023



Midwestern Regional Climate Center  
Purdue University

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



Mean period is 1991–2020.



Midwestern Regional Climate Center  
Purdue University

# January 2023 – 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 LENAWEE CO AP	54	3	37.4	27.7	32.5	FRANKENMUTH 1SE	46	-10	35.7	25.9	30.8
ALGONAC WWTP	52	4	39.5	27.3	33.4	GOODRICH	53	-2	37.2	26.9	32.1
ANN ARBOR MNCPL AP	58	-7	37.3	25.8	31.6	GROSSE POINTE FARMS	50	6	37.4	28.6	33.0
ANN ARBOR SE	58	0	38.7	26.9	32.8	HARBOR BEACH 1 SSE	44	3	34.8	27.7	31.3
ANN ARBOR U OF MICH	56	-3	37.6	27.0	32.3	LAPEER 2W	52	-4	36.6	27.1	31.9
BAD AXE	44	-3	33.4	26.3	29.8	LAPEER WWTP	51	1	37.4	27.2	32.3
BURTON 4N	52	-6	36.8	26.8	31.8	MANCHESTER	55	1	37.9	27.4	32.6
CARO WWTP	45	-9	35.3	26.8	30.9	MIDLAND	43	-2	34.2	25.2	29.7
CASS CITY 1 SSW	45	-5	35.2	26.5	30.8	MORENCI	54	3	38.4	26.2	32.4
CHELSEA	56	-3	37.9	27.2	32.5	OIL CITY 2S	42	-6	34.3	25.7	30.0
DEARBORN	58	4	38.9	28.3	33.6	OWOSSO WWTP	44	-1	35.8	26.1	30.8
DEARBORN NO. 2	58	7	40.3	29.9	35.1	PONTIAC INTL AP	51	2	36.6	27.8	32.2
DETROIT CITY AP	59	9	40.1	30.5	35.3	PORT HOPE	47	8	35.2	28.5	31.8
<b>DETROIT METRO AIRPORT</b>	<b>60</b>	<b>5</b>	<b>38.5</b>	<b>28.6</b>	<b>33.5</b>	PORT HURON	50	5	37.4	28.8	33.1
DETROIT WILLOW RUN AP	59	1	37.9	27.5	32.7	RICHMOND 4 NNW	50	-6	36.7	26.3	31.5
DUNDEE	60	6	38.3	27.9	33.1	SAGINAW #3	44	-3	35.5	26.9	31.2
FARMINGTON	55	2	37.4	27.2	32.3	<b>SAGINAW MBS INTL AP</b>	<b>45</b>	<b>-3</b>	<b>35.0</b>	<b>26.8</b>	<b>30.9</b>
FILION 5NNW	47	6	37.4	30.1	33.7	SALINE 4SW	57	0	38.5	26.8	32.7
FLINT 7W	46	-5	36.5	27.0	31.7	WHITE LAKE 4E	52	-6	35.9	25.1	30.5
<b>FLINT FCWOS</b>	<b>52</b>	<b>-10</b>	<b>36.9</b>	<b>26.2</b>	<b>31.5</b>	WHITMORE LAKE 1NW	55	0	35.6	25.8	30.7

# January – Top 20 Coldest/Warmest on Record

Weather Forecast Office  
Detroit, MI



## Top 20 Coldest/Warmest Januaries 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	12.8	1977	36.7	1932	10.9	1977	34.3	1932	9.4	1912	34.7	1932
2	13.1	1912	36.7	1880	13.1	1963	33.7	1933	10.4	1918	33.1	1933
3	13.2	1918	35.3	2006	13.8	1994	32.7	2006	11.6	1963	31.4	2006
4	15.2	1893	34.7	1933	14.3	1984	32.0	2020	12.1	1994	30.9	2023
5	15.3	1875	33.6	1906	14.5	2009	31.8	1990	12.7	1920	30.9	1990
6	16.4	2014	33.5	2023	15.1	1970	31.5	2023	12.8	1977	30.4	2020
7	16.6	1970	33.5	1990	15.6	2014	30.9	2002	14.3	1982	29.3	1937
8	16.8	1920	33.5	1890	15.6	1945	30.8	1989	14.8	1979	29.0	1989
9	17.1	1982	32.8	1998	15.8	1979	30.7	1934	14.8	1970	28.9	2002
10	17.2	1963	32.8	1989	15.9	1959	30.3	1950	14.9	2009	28.7	1921
11	17.3	2009	32.7	2002	16.4	1982	29.9	1998	15.1	2004	28.6	1998
12	17.3	1994	32.5	1950	16.6	1948	29.1	2012	15.6	1945	28.5	1934
13	17.4	1881	32.4	2020	17.2	2004	29.0	1949	15.9	1948	28.4	2012
14	17.6	1904	32.1	2017	17.6	2022	28.8	2017	16.0	2014	28.2	1919
15	17.9	1984	32.1	1876	17.6	1957	28.8	1944	16.1	1959	28.1	1950
16	17.9	1888	31.6	1949	17.8	1962	28.7	1973	16.4	1984	28.0	1949
17	18.0	1945	31.0	1919	18.0	1981	28.6	1921	16.5	1962	27.9	2017
18	18.6	1979	31.0	1882	18.0	1929	28.2	2021	16.6	1981	27.6	1916
19	19.0	1981	30.8	1944	18.1	1976	28.2	1937	16.6	1978	27.4	1944
20	19.0	1940	30.7	2012	18.2	1978	28.1	2016	16.8	1985	27.2	1964

\* 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.

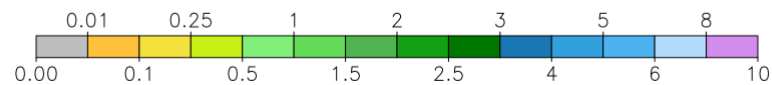
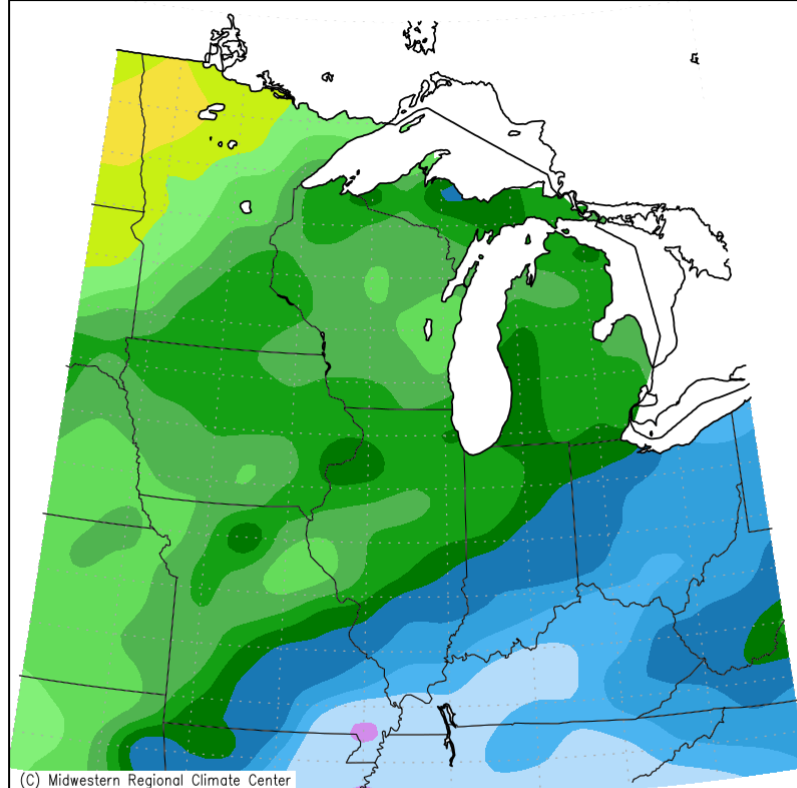
# January 2023 – Regional Precipitation Summary

Weather Forecast Office  
Detroit, MI



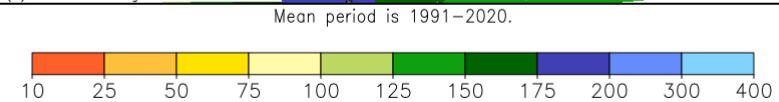
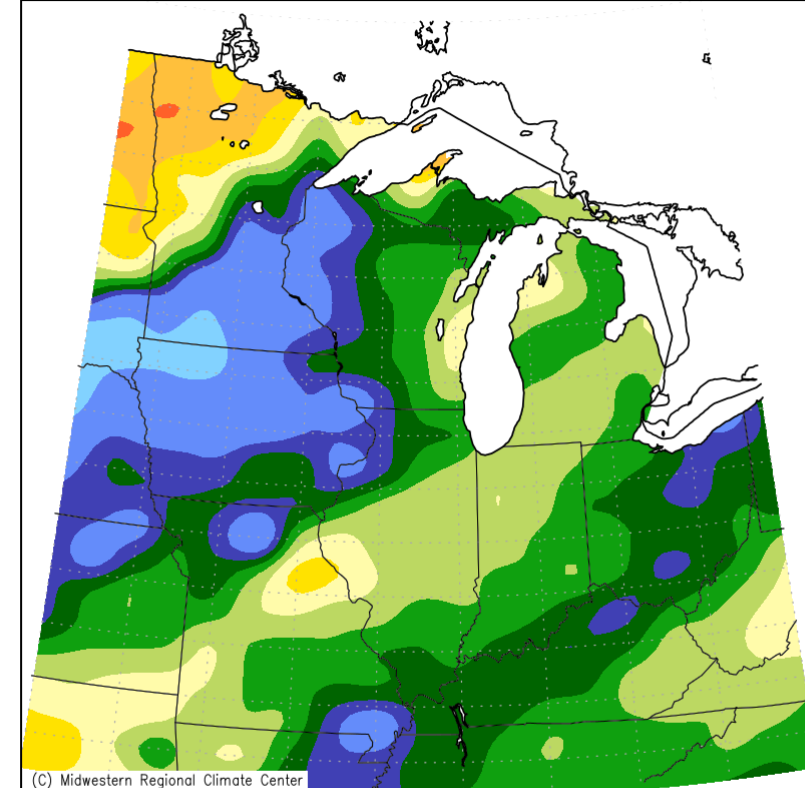
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

Accumulated Precipitation (in)  
January 1, 2023 to January 31, 2023



Midwestern Regional Climate Center  
Purdue University

Accumulated Precipitation: Percent of Mean  
January 1, 2023 to January 31, 2023



Midwestern Regional Climate Center  
Purdue University

# January 2023 – 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 LENAWEE CO AP	0.89	2.58	15	FRANKENMUTH 1SE	0.48	2.04	14
ALGONAC WWTP	0.58	2.68	14	GOODRICH	0.24	1.45	16
ANN ARBOR MNCPL AP	0.58	2.28	14	HARBOR BEACH 1 SSE	0.39	1.68	15
ANN ARBOR SE	0.58	3.07	19	LAPEER 2W	0.38	2.27	23
ANN ARBOR U OF MICH	0.67	3.05	19	LAPEER WWTP	0.38	2.29	21
BAD AXE	0.38	2.13	21	MANCHESTER	0.54	2.40	17
BURTON 4N	0.39	2.24	19	MIDLAND	0.39	2.49	16
CASS CITY 1 SSW	0.42	1.84	16	MILLINGTON 3 SE	0.41	1.90	13
CHELSEA	0.50	2.68	19	OIL CITY 2S	0.52	2.62	17
CHESANING	0.40	1.98	14	PORT HOPE	0.30	1.75	20
DEARBORN	0.58	2.98	20	PORT HURON	0.41	1.80	14
DETROIT CITY AP	1.01	2.32	14	RICHMOND 4 NNW	0.62	1.82	12
<b>DETROIT METRO AIRPORT</b>	<b>1.15</b>	<b>3.05</b>	<b>16</b>	<b>SAGINAW MBS INTL AP</b>	<b>0.38</b>	<b>2.02</b>	<b>15</b>
DETROIT WILLOW RUN AP	0.70	2.23	14	SALINE 4SW	0.50	3.01	17
FARMINGTON	0.33	2.29	13	WHITE LAKE 4E	0.46	1.80	18
FLINT 7W	0.33	1.63	14	WYANDOTTE	0.75	3.40	19
<b>FLINT FCWOS</b>	<b>0.26</b>	<b>1.45</b>	<b>16</b>				

# January – Top 20 Wettest/Driest on Record

Weather Forecast Office  
Detroit, MI



## Top 20 Wettest/Driest Januaries 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	5.02	1932	0.23	1961	4.02	2006	0.07	1945	4.04	1998	0.24	1945
2	4.96	1874	0.28	1921	3.90	2013	0.26	2003	3.74	1993	0.29	1919
3	4.38	1950	0.42	2003	3.56	1947	0.32	1961	3.55	1932	0.38	1921
4	4.31	1916	0.45	1945	3.36	2020	0.41	1940	3.50	1950	0.40	1934
5	4.27	1929	0.52	2022	3.21	1950	0.45	1921	3.43	2005	0.44	2022
6	4.12	2020	0.57	1981	3.17	1951	0.46	1971	3.26	2013	0.46	1961
7	3.95	1913	0.57	1902	3.13	2017	0.48	1958	3.19	1967	0.46	1933
8	3.92	1993	0.64	1963	3.07	1932	0.51	1966	3.11	1914	0.50	2003
9	3.87	1907	0.68	1966	3.05	1998	0.56	1984	3.09	1999	0.50	1942
10	3.85	1930	0.69	2001	2.93	2005	0.57	1977	3.06	1978	0.54	1981
11	3.74	1965	0.69	1980	2.89	1999	0.59	1981	3.00	2006	0.59	1980
12	3.64	1937	0.76	2010	2.89	1975	0.62	2022	2.97	1962	0.62	1984
13	3.45	2013	0.78	1984	2.80	1993	0.63	1963	2.92	1974	0.68	1977
14	3.43	1982	0.80	1958	2.61	1974	0.63	1934	2.91	1969	0.74	1920
15	3.40	2005	0.84	1983	2.60	1965	0.70	1986	2.79	1965	0.75	1926
16	3.36	2002	0.87	1938	2.60	1949	0.78	1970	2.72	1982	0.77	2021
17	3.34	1904	0.91	1919	2.53	2014	0.82	1922	2.71	1959	0.77	2009
18	3.32	1898	0.92	1891	2.52	1959	0.83	2010	2.67	1951	0.78	1912
19	3.26	1974	0.94	1894	2.49	2008	0.91	1925	2.64	1975	0.79	1986
20	3.26	1914	0.97	1875	2.41	1967	0.93	1936	2.63	1997	0.81	1964

\* 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.

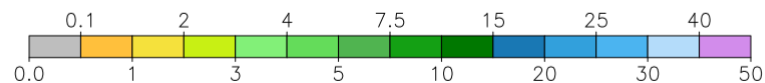
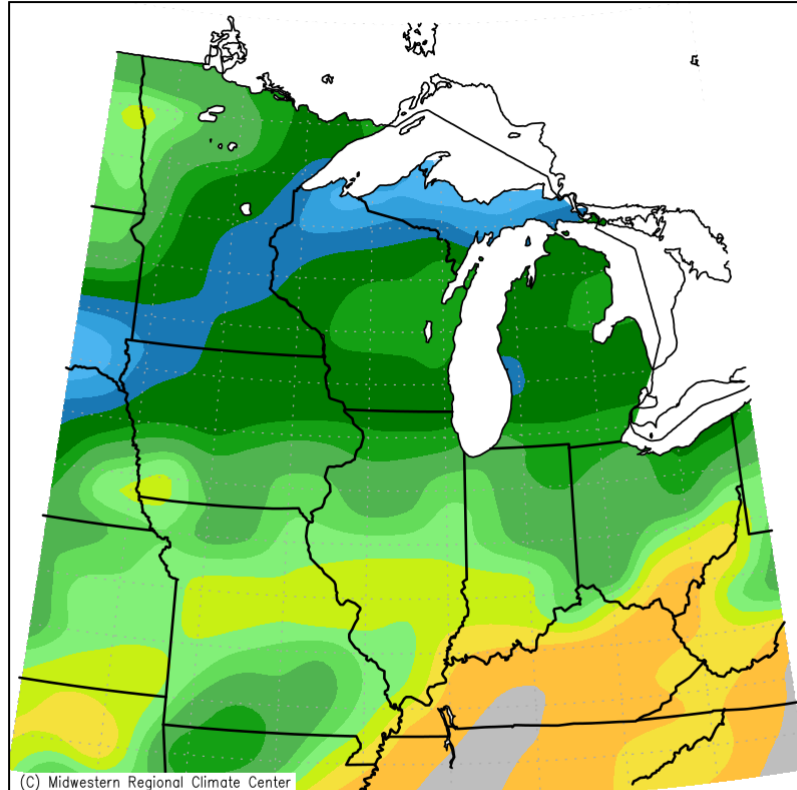
# January 2023 – Regional Snowfall Summary

Weather Forecast Office  
Detroit, MI



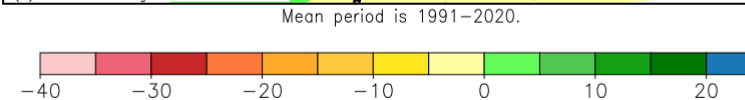
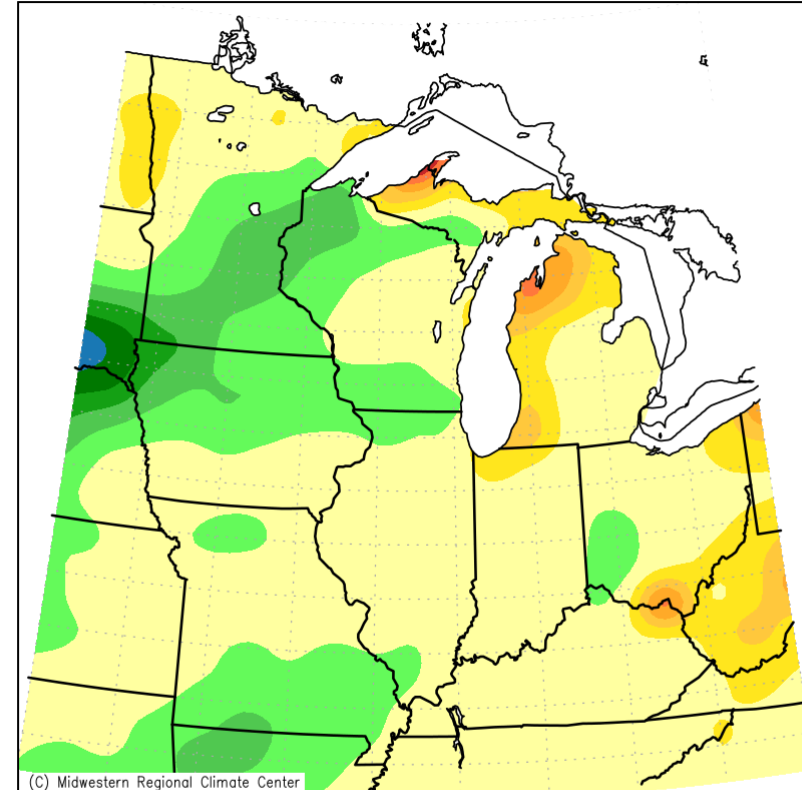
Total Monthly Snowfall (*left*) & Departure from Normal (*right*)

Accumulated Snowfall (in)  
January 1, 2023 to January 31, 2023



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 2/2/2023 3:43:08 AM CST

Accumulated Snowfall (in): Departure from Mean  
January 1, 2023 to January 31, 2023



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 2/2/2023 3:43:30 AM CST



# January 2023 – SE Michigan Snowfall Summary

Weather Forecast Office  
Detroit, MI



Highest daily total, monthly total, and total number of days of measureable snow (in.)

Location	Highest Daily Total	Monthly Total	# of Days with Snow	Location	Highest Daily Total	Monthly Total	# of Days with Snow	Location	Highest Daily Total	Monthly Total	# of Days with Snow
ADRIAN 2 NNE	5.0	6.7	4	DUNDEE	4.2	6.0	5	OTTAWA LAKE 1.4 SSW	5.8	8.3	3
ALGONAC WWTP	5.0	7.0	2	DURAND WWTP	3.0	9.5	6	OWOSSO WWTP	4.4	11.2	7
ANN ARBOR 2.1 WNW	6.6	12.1	7	FARMINGTON	4.6	8.7	6	PLEASANT RIDGE 0.5 WNW	5.9	9.7	5
ANN ARBOR 7.1 W	6.0	10.3	6	FENTON 6.2 WSW	4.5	10.5	6	PLYMOUTH 5.4 W	6.3	11.2	5
ANN ARBOR SE	7.2	14.5	12	FILION 5NNW	4.4	13.1	10	PONTIAC WWTP	4.2	12.0	6
ANN ARBOR U OF MICH	8.6	15.3	11	FLINT 7W	4.6	13.5	12	PORT HURON	5.1	9.0	7
AUBURN 2NE	4.5	11.3	9	<b>FLINT FCWOS</b>	<b>3.7</b>	<b>13.5</b>	<b>10</b>	PORT HURON 1.6 W	5.7	10.0	7
BAD AXE	4.7	12.0	10	FRANKENMUTH 1SE	5.3	11.7	5	RICHMOND 4 NNW	6.6	11.0	6
BAY PORT 3.2 SSW	4.5	7.3	5	GOODRICH	3.1	7.6	7	SAGINAW #3	5.5	13.4	6
BERKLEY 0.6 N	5.4	8.6	5	HARBOR BEACH 1 SSE	5.0	9.6	7	<b>SAGINAW MBS INTL AP</b>	<b>3.7</b>	<b>12.6</b>	<b>10</b>
BURTON 4N	4.1	12.2	7	LAPEER 2W	4.1	12.8	11	SALINE 3.8 SSW	5.3	8.5	5
CANTON 2.7 N	5.0	10.2	6	LAPEER WWTP	3.5	10.0	6	SALINE 4SW	7.0	10.8	6
CARO WWTP	5.1	10.7	6	LEXINGTON WATER PLANT	3.0	4.6	4	SHELBY 0.4 SSE	6.0	9.9	4
CASS CITY 1 SSW	4.0	10.5	5	LIVONIA 2.3 NNW	4.8	10.5	5	STERLING HEIGHTS 2.2 NNE	6.0	8.4	4
CHELSEA	3.0	6.9	8	MANCHESTER	4.7	8.5	8	TECUMSEH	4.2	8.1	7
CHELSEA 3.7 NNE	5.3	10.4	7	MIDLAND	3.2	8.9	6	TIPTON 2WNW	4.0	6.8	3
CHESANING	4.5	9.4	5	MIDLAND 1.5 NNE	4.9	9.0	3	WATERFORD 2.1 NW	5.5	9.0	6
DAVISON 5.2 N	3.5	9.9	6	MILLINGTON 3 SE	5.4	14.3	8	WHITE LAKE 4E	5.8	12.2	11
DEARBORN	4.5	8.0	5	MORENCI	5.4	8.7	8	WHITMORE LAKE 1NW	4.0	6.8	5
<b>DETROIT METRO AIRPORT</b>	<b>6.5</b>	<b>11.7</b>	<b>7</b>	NEW BALTIMORE 0.4 SSE	5.5	7.9	4	WYANDOTTE	4.7	11.6	9
DEXTER 0.3 ENE	4.0	8.5	5	OIL CITY 2S	4.5	9.4	9				

# January – Top 20 Snowiest/Least Snowy on Record

Weather Forecast Office  
Detroit, MI



## Top 20 Snowiest/Snowless Januaries in Southeast Lower Michigan (in.)

Rank	Detroit Area*				Flint Bishop**				Saginaw Area***			
	Snowiest		Snowless		Snowiest		Snowless		Snowiest		Snowless	
	Total	Year	Total	Year	Total	Year	Total	Year	Total	Year	Total	Year
1	39.1	2014	0.4	1933	32.9	2014	0.0	1934	30.9	1967	0.1	1973
2	29.6	1978	0.9	1932	28.5	1976	0.2	1933	30.3	1978	0.4	1933
3	27.3	1999	0.9	1921	27.6	1967	0.5	1932	29.0	1999	0.9	1921
4	26.9	2005	1.1	1916	26.1	1979	0.8	1921	26.1	1979	1.0	1919
5	25.2	2009	1.4	1935	26.0	1959	1.2	1937	26.0	1997	1.5	1937
6	24.0	1987	1.4	1894	24.9	1999	1.3	1973	24.4	2004	1.7	1942
7	23.1	1893	1.5	1983	24.7	2004	2.0	1945	22.6	1914	1.8	1916
8	22.2	1910	1.5	1891	23.6	1978	3.1	1955	22.0	2011	2.0	1934
9	21.9	1929	1.6	1890	22.8	2008	3.1	1949	21.7	1918	2.3	1944
10	21.8	1914	1.7	1919	20.2	2018	3.1	1944	21.2	1947	2.5	1950
11	21.8	1881	1.9	1944	19.7	2005	3.4	1935	19.7	1943	2.8	1945
12	21.5	1895	2.4	1973	19.3	1982	3.8	1983	19.6	1976	2.9	1949
13	21.1	1939	2.6	1896	18.4	1995	4.1	1940	19.2	1962	2.9	1928
14	20.9	1985	2.8	1980	18.3	1930	4.9	1996	18.9	2008	3.1	1964
15	20.8	1997	2.9	1955	17.4	1943	5.1	2001	18.0	1982	3.4	1990
16	20.1	1904	3.3	1961	17.3	2011	5.2	1964	16.9	1959	3.4	1980
17	20.0	1982	3.4	2001	17.3	1997	5.2	1950	16.0	1929	3.5	1983
18	18.6	1918	3.4	1958	17.1	2009	5.3	1938	15.9	2005	4.0	1932
19	18.4	1992	3.6	1942	16.9	1987	5.5	1941	15.8	1985	4.1	1975
20	18.4	1943	3.7	1882	16.8	2019	5.5	1922	15.6	2014	4.4	2018

\* Detroit Area snowfall records date back to January 1880.

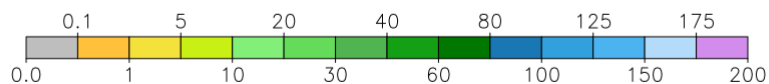
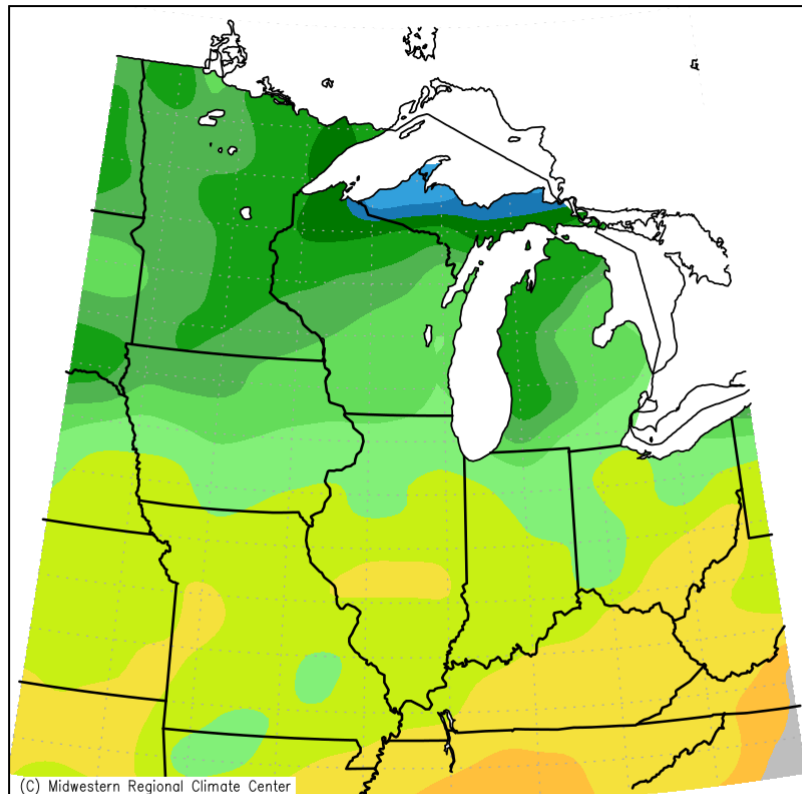
\*\* Flint Bishop snowfall records date back to January 1921.

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

Note: this table does not account for trace (T) events

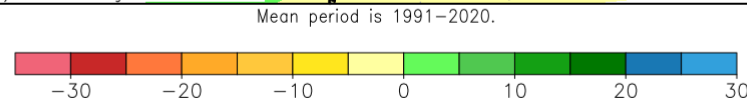
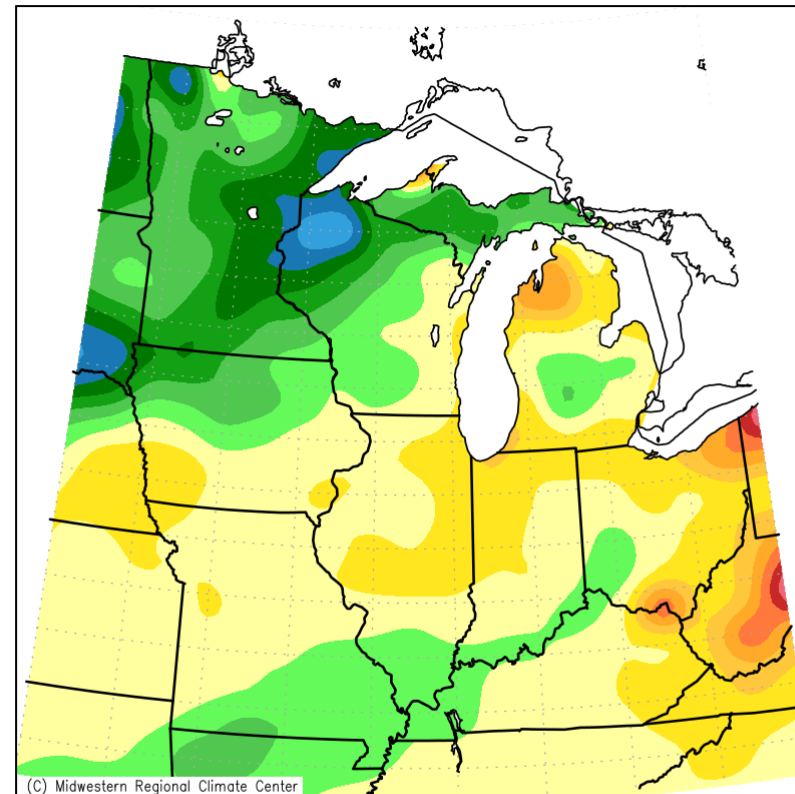
Total Snowfall (left) & Departure from Normal (right)

Accumulated Snowfall (in)  
October 1, 2022 to January 31, 2023



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
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Accumulated Snowfall (in): Departure from Mean  
October 1, 2022 to January 31, 2023



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# January 2023 – Significant Weather Events

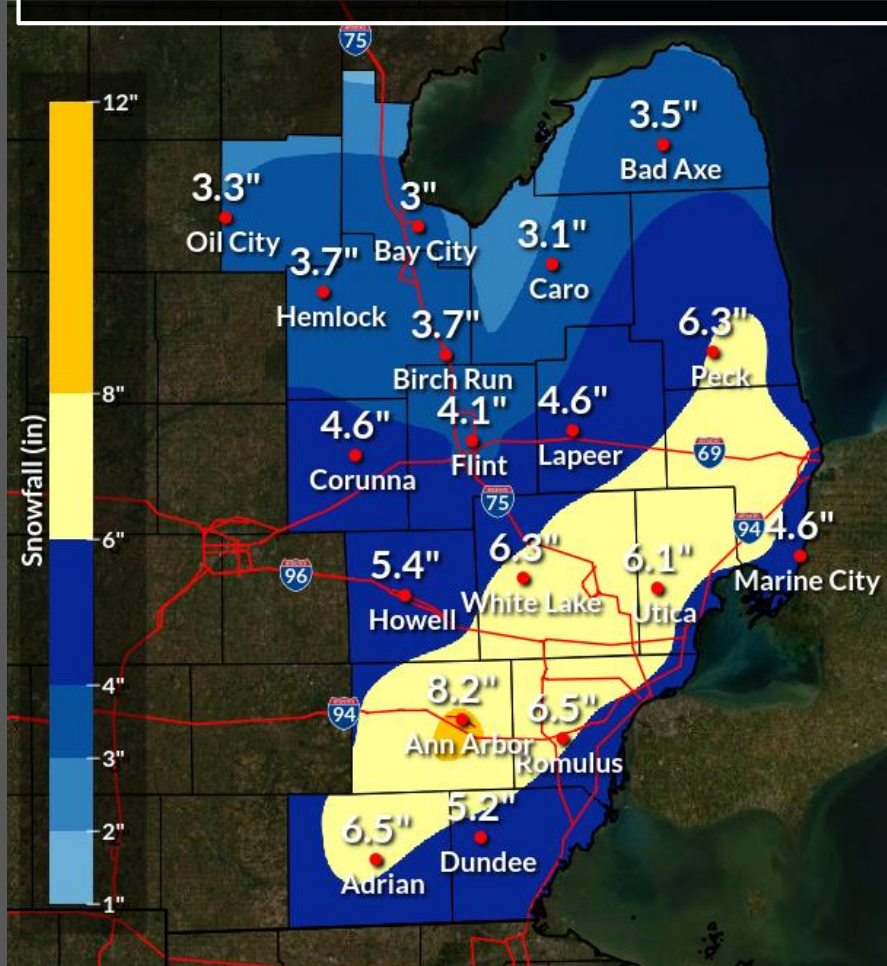
Weather Forecast Office  
Detroit, MI



Follow links for web summaries

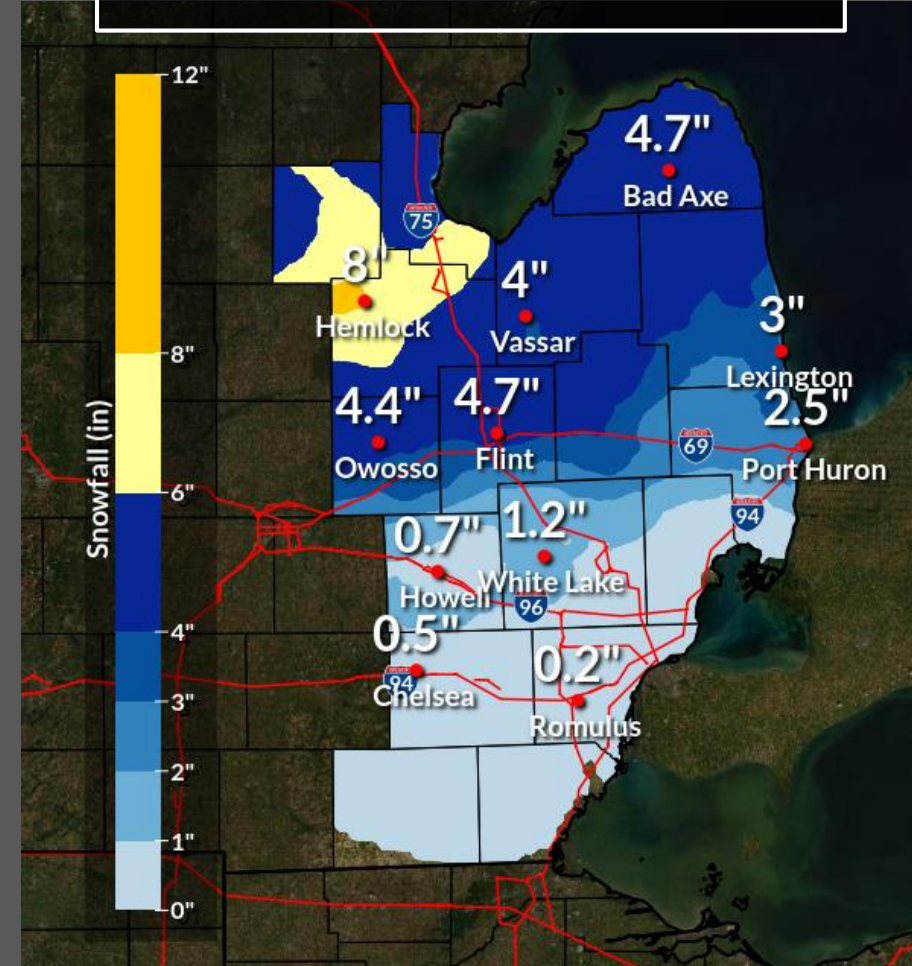
## January 25 Winter Storm

[weather.gov/dtx/2023-01-25-SoutheastMichigan-Snowstorm](https://weather.gov/dtx/2023-01-25-SoutheastMichigan-Snowstorm)



## January 28-29 Winter Storm

[weather.gov/dtx/2023-01-28-29-Winter-Storm](https://weather.gov/dtx/2023-01-28-29-Winter-Storm)





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**

- ☑ 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

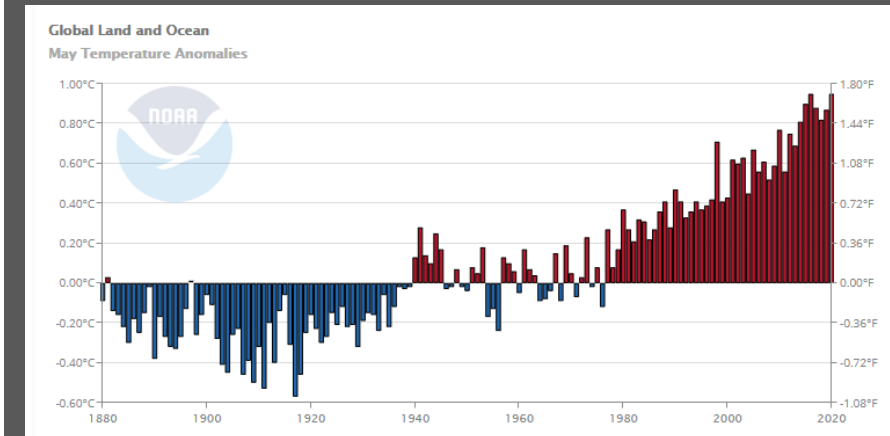
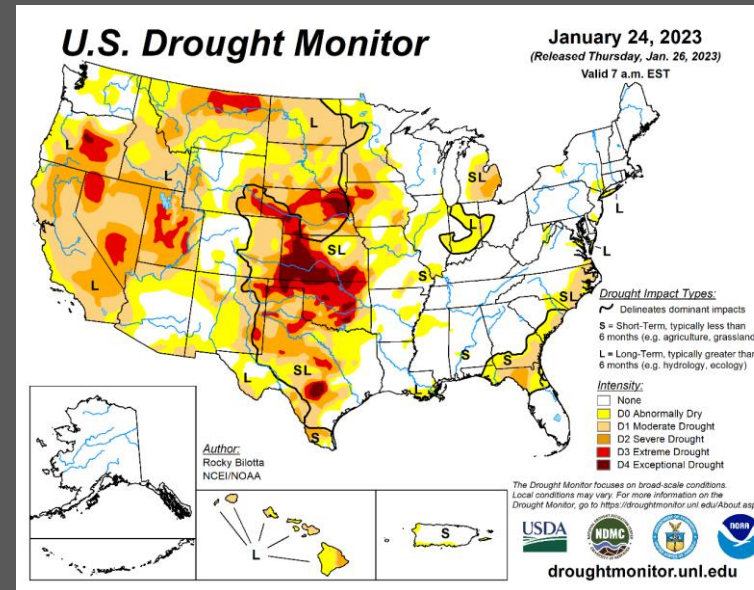
Date: 2021-08

**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!