

# Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Weather Forecast Office  
Detroit, MI



# March 2023



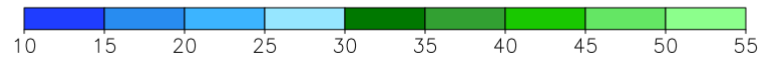
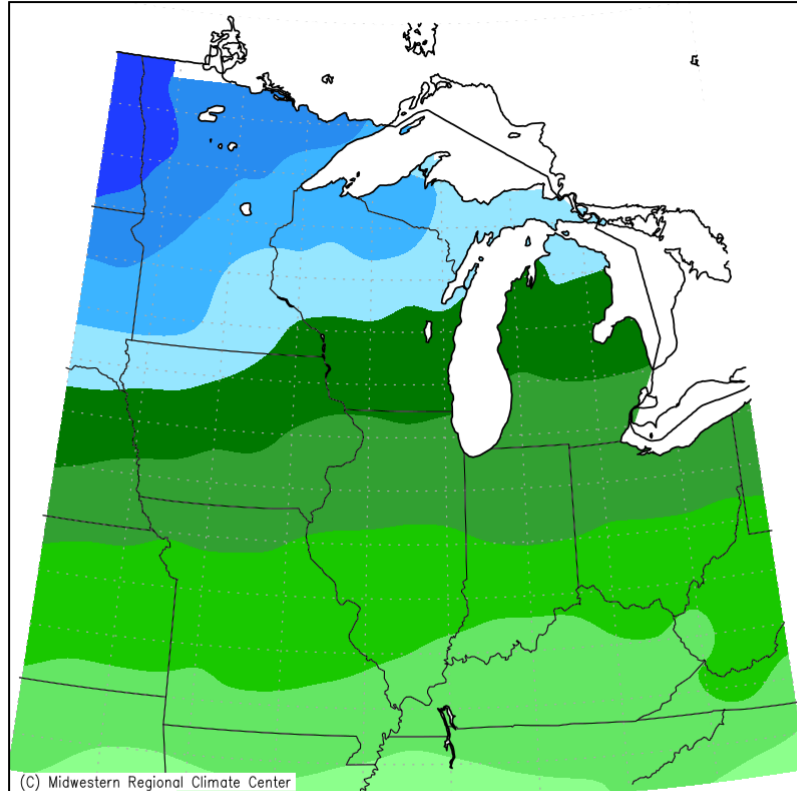
# March 2023 – Regional Temperature Summary

Weather Forecast Office  
Detroit, MI



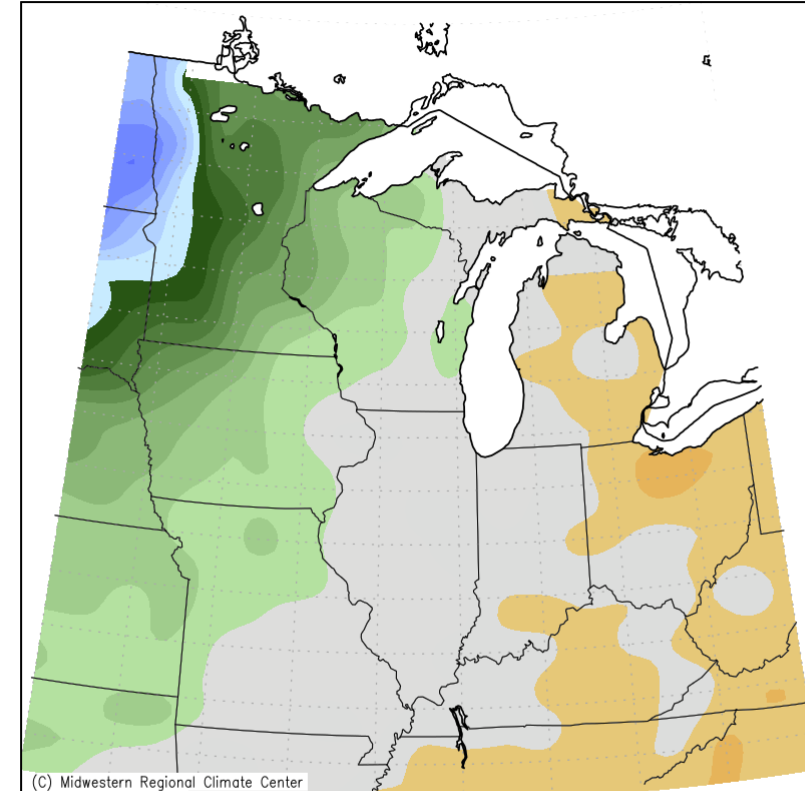
Average Temperature (left) & Departure from Average (right)

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

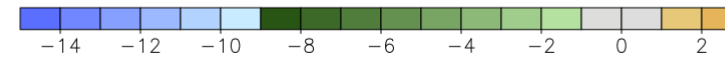


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Average Temperature (°F): Departure from Mean  
March 1, 2023 to March 31, 2023



Mean period is 1991–2020.



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Purdue University



# March 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 COUNTY AP	60	19	45.3	29.9	37.6	HARBOR BEACH 1 SSE	52	15	38.8	26.4	32.6
ALGONAC WWTP	56	17	44.0	27.2	35.6	LAPEER 2W	56	15	42.1	26.3	34.2
ANN ARBOR MUNICIPAL AP	59	15	44.7	27.0	35.9	LAPEER WWTP	55	17	42.8	26.2	34.5
ANN ARBOR SE	57	14	45.5	25.5	35.5	MANCHESTER	57	17	45.5	26.7	36.1
ANN ARBOR U OF MICH	56	14	45.9	27.1	36.5	MIDLAND	50	13	37.8	24.0	31.1
BAD AXE	53	11	38.7	24.4	31.6	MORENCI	59	13	45.7	26.2	35.9
BURTON 4N	55	14	43.5	24.2	33.9	OIL CITY 2S	51	14	41.7	23.3	32.5
CARO WWTP	57	16	41.0	25.2	33.0	OWOSSO WWTP	55	16	42.5	25.5	34.0
CASS CITY 1 SSW	56	10	41.2	23.6	32.4	PONTIAC INTL AP	55	17	43.2	27.7	35.4
CHELSEA	56	15	44.1	27.5	35.8	PONTIAC WWTP	55	18	43.9	27.3	35.6
DEARBORN	57	18	45.2	28.9	37.1	PORT AUSTIN WWTP	50	15	37.8	26.5	32.1
DETROIT CITY AP	57	22	46.2	31.5	38.9	PORT HOPE	53	19	40.0	29.4	34.7
<b>DETROIT METRO AIRPORT</b>	<b>57</b>	<b>20</b>	<b>45.7</b>	<b>29.8</b>	<b>37.8</b>	PORT HURON	53	22	42.2	30.4	36.3
DETROIT WILLOW RUN AP	59	17	45.4	28.5	36.9	RICHMOND 4 NNW	55	18	42.1	27.1	34.6
DURAND WWTP	54	13	43.0	24.8	33.8	SAGINAW #3	55	17	42.1	25.7	33.9
FARMINGTON	55	16	43.7	25.8	34.8	<b>SAGINAW MBS INTL AP</b>	<b>54</b>	<b>18</b>	<b>41.5</b>	<b>27.2</b>	<b>34.4</b>
FILION 5NNW	54	16	41.1	28.6	34.9	SALINE 4SW	57	16	45.7	27.4	36.6
FLINT 7W	55	15	43.2	25.4	34.3	TECUMSEH	58	18	46.9	27.2	37.0
<b>FLINT FCWOS</b>	<b>55</b>	<b>14</b>	<b>43.8</b>	<b>26.7</b>	<b>35.3</b>	WHITE LAKE 4E	56	12	44.0	25.6	34.8
GOODRICH	55	16	43.1	25.3	34.2	WHITMORE LAKE 1NW	54	16	44.5	25.5	35.0
GROSSE POINTE FARMS	57	20	42.5	28.4	35.5						



## Top 20 Coldest/Warmest Marches 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	25.9	1877	50.7	2012	21.2	1960	49.5	2012	22.9	1960	48.0	2012
2	26.2	1960	47.9	1945	26.0	2014	46.0	1945	23.8	1912	45.1	1945
3	26.3	1900	46.1	1946	26.7	1978	44.6	1946	24.6	1916	41.9	1946
4	26.3	1885	44.0	2000	26.8	1984	42.8	2021	25.1	1978	41.8	1938
5	26.4	1912	44.0	1910	27.1	1965	41.7	2016	25.4	2014	41.4	2000
6	28.0	1875	43.3	1973	27.6	1940	41.4	1929	25.7	1926	40.7	1977
7	28.2	1906	43.1	2016	28.0	1950	41.3	2000	26.0	1923	40.5	1929
8	28.5	1895	42.9	2021	28.0	1947	41.3	1973	26.2	1950	40.1	2021
9	28.6	1940	42.5	1921	28.1	1996	40.8	1938	26.5	1965	39.4	2016
10	28.6	1888	42.4	2010	28.6	1932	40.5	2020	26.5	1940	39.4	2010
11	28.7	2014	41.6	1938	28.8	1926	40.4	1935	26.7	1941	39.2	1921
12	28.7	1916	41.6	1929	29.1	2005	40.1	1921	27.8	2005	39.0	1973
13	28.8	1896	41.5	1903	29.1	1923	40.0	1936	28.0	1984	38.8	2020
14	28.9	1984	41.4	1977	29.4	1956	39.5	1927	28.0	1944	37.6	1927
15	29.0	1926	41.3	1878	29.5	1959	39.2	1977	28.1	1956	37.2	2007
16	29.3	1934	41.2	2020	29.6	1971	39.1	2004	28.3	1972	37.2	1968
17	29.3	1899	40.4	2004	29.7	1944	38.7	1976	28.3	1932	37.0	2004
18	29.5	1876	40.3	1991	29.9	1980	38.6	2010	28.4	1947	36.8	1987
19	29.8	1932	40.3	1976	30.0	1937	38.5	2007	28.5	1959	36.8	1985
20	29.8	1883	40.3	1898	30.1	1970	38.1	1990	28.7	1996	36.8	1966

\* 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.

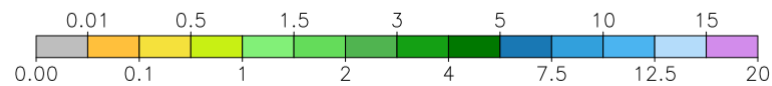
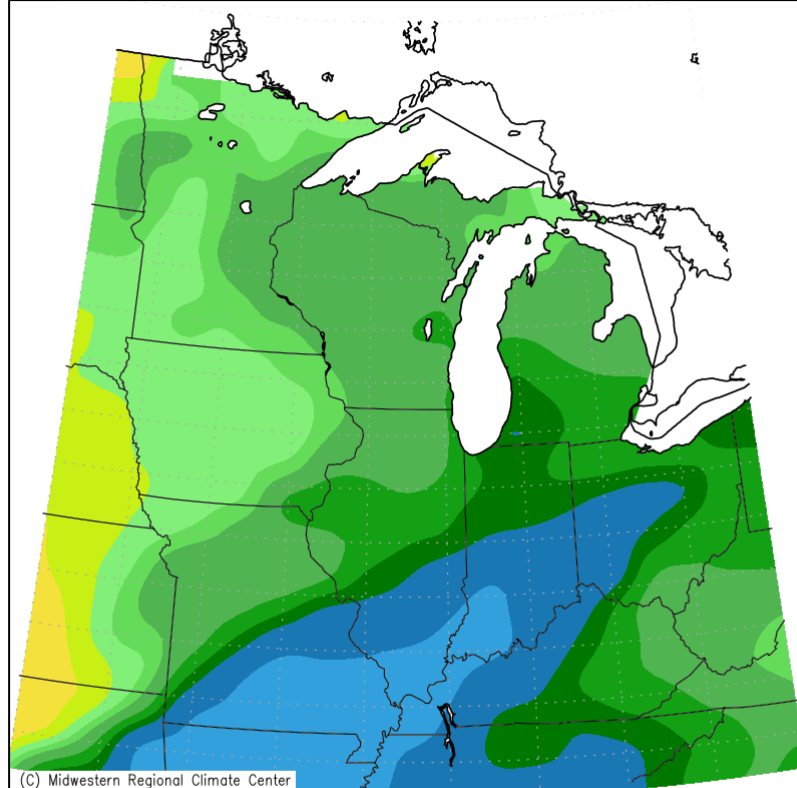
# March 2023 – Regional Precipitation Summary

Weather Forecast Office  
Detroit, MI



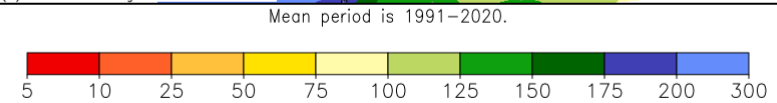
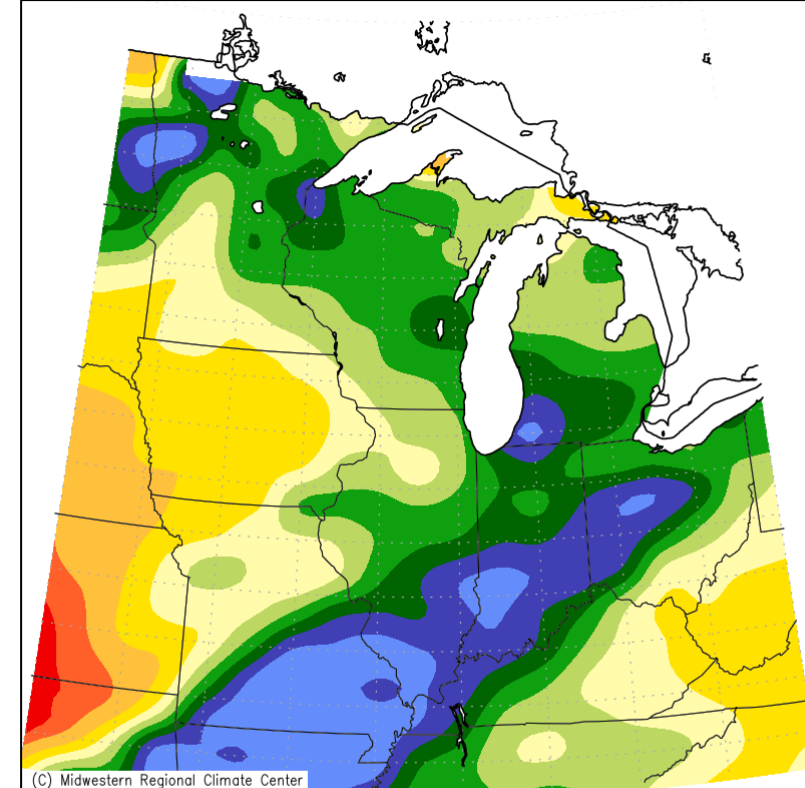
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

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



Midwestern Regional Climate Center  
Purdue University

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



Midwestern Regional Climate Center  
Purdue University

# March 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	Location	Highest Daily Total	Monthly Total	# of Days with Precip
ADRIAN 2 NNE	0.98	4.05	18	DEXTER 2.2 SE	1.23	4.18	18	OIL CITY 2S	0.57	2.45	15
ADRIAN LENAWEE CO AP	1.02	3.37	14	DURAND WWTP	0.60	2.34	17	ORTONVILLE 2.3 S	1.12	3.06	18
ALGONAC WWTP	0.95	3.03	12	EASTPOINTE 1.2 SSW	0.98	3.05	16	OTTAWA LAKE 1.4 SSW	1.53	2.88	14
ANN ARBOR 2.1 WNW	1.51	3.67	18	FARMINGTON	0.86	2.98	16	OWOSSO WWTP	0.49	2.77	20
ANN ARBOR 4.5 W	1.45	3.97	17	FENTON 2.7 SSE	1.11	3.50	18	PLYMOUTH 5.4 W	1.09	3.28	15
ANN ARBOR MNCPL AP	0.97	3.65	16	FENTON 6.2 WSW	1.05	3.08	16	PONTIAC INTL AP	1.29	3.21	16
ANN ARBOR SE	1.64	4.35	20	FILION 5NNW	0.64	2.03	17	PONTIAC WWTP	1.06	3.17	17
ANN ARBOR U OF MICH	0.86	4.78	19	FLINT 7W	0.54	2.54	13	PORT HOPE	0.90	2.83	16
BAD AXE	0.52	2.36	15	<b>FLINT FCWOS</b>	<b>1.52</b>	<b>3.73</b>	<b>16</b>	PORT HURON	1.09	2.77	10
BURTON 4N	0.85	3.75	15	GOODRICH	0.72	2.47	17	RICHMOND 4 NNW	0.93	2.82	16
CARO WWTP	0.45	2.31	17	GROSSE POINTE FARMS	1.10	3.01	12	SAGINAW #3	0.50	2.61	18
CASS CITY 1 SSW	0.44	2.21	16	HARBOR BEACH 1 SSE	0.58	2.46	10	<b>SAGINAW MBS INTL AP</b>	<b>1.23</b>	<b>3.09</b>	<b>17</b>
CHELSEA	1.15	3.62	16	HIGHLAND 1.3 NE	0.96	3.09	19	SALINE 4SW	1.26	4.28	13
CHELSEA 3.7 NNE	1.29	3.45	18	LAPEER 2W	1.09	3.44	18	SHELBY 0.4 SSE	0.78	2.56	15
CHESANING	0.61	2.24	18	LAPEER WWTP	1.25	3.37	17	STERLING HGHTS 2.2 NE	1.00	2.70	15
CLARKSTON 1.4 NE	1.26	3.58	15	LIVONIA 2.0 NE	0.79	2.89	13	WATERFORD 2.1 NW	0.76	2.19	16
DEARBORN HGHTS 1.8 NW	0.97	2.79	16	MANCHESTER	1.54	3.57	17	WHITE LAKE 0.5 E	0.71	2.74	18
DETROIT CITY AP	1.10	3.09	12	MIDLAND	1.07	3.15	12	WHITE LAKE 4E	1.40	4.34	19
<b>DETROIT METRO AIRPORT</b>	<b>1.11</b>	<b>4.11</b>	<b>17</b>	MONROE 3.0 S	1.26	2.92	14	WYANDOTTE	0.97	3.08	14
DETROIT WILLOW RUN AP	1.00	3.08	18								



# March – Top 20 Wettest/Driest on Record

Weather Forecast Office  
Detroit, MI



## Top 20 Wettest/Driest Marches 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	5.63	1913	0.38	1910	4.33	1948	0.25	1958	6.69	1998	0.31	1981
2	5.50	1876	0.47	1958	4.33	2016	0.56	2001	5.96	1948	0.44	2001
3	5.43	1877	0.59	1937	4.33	1942	0.57	1936	5.23	1976	0.49	1958
4	5.12	1922	0.66	1885	4.24	1921	0.58	1967	4.48	1973	0.56	1941
5	4.86	2016	0.74	2013	4.20	1973	0.65	2010	4.32	1985	0.60	2013
6	4.48	1973	0.74	2005	4.00	1985	0.74	1962	3.98	2016	0.62	1915
7	4.42	1985	0.80	2015	3.92	2011	0.75	1999	3.67	1991	0.65	1936
8	4.40	1938	0.82	1981	3.73	2023	0.76	1981	3.49	1942	0.69	2018
9	4.36	1899	0.93	2001	3.66	1976	0.77	2013	3.29	1928	0.72	2010
10	4.26	2017	1.02	1905	3.60	1974	0.90	2000	3.26	1916	0.77	1939
11	4.24	1976	1.03	1967	3.43	1938	0.91	1930	3.17	2022	0.80	2015
12	4.20	1974	1.07	2010	3.41	1998	0.92	2015	3.09	2023	0.85	1996
13	4.17	2009	1.12	1999	3.21	2017	1.04	2005	3.08	1974	0.90	1969
14	4.11	2023	1.13	1960	3.13	1923	1.11	2018	3.07	1961	1.03	2014
15	4.09	1904	1.14	1962	2.94	1961	1.11	1939	3.07	1918	1.08	1999
16	3.92	1916	1.16	1988	2.93	1954	1.21	2014	3.05	1919	1.08	1993
17	3.88	1980	1.17	1889	2.87	1991	1.21	1993	3.01	1971	1.08	1946
18	3.87	1954	1.24	1915	2.83	2006	1.24	1995	2.97	1984	1.10	1978
19	3.86	2020	1.28	1936	2.83	1984	1.27	1941	2.94	1997	1.10	1914
20	3.70	1897	1.32	1890	2.78	1977	1.28	1937	2.92	1983	1.11	1924

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

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

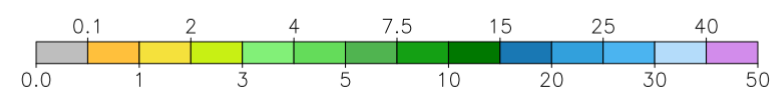
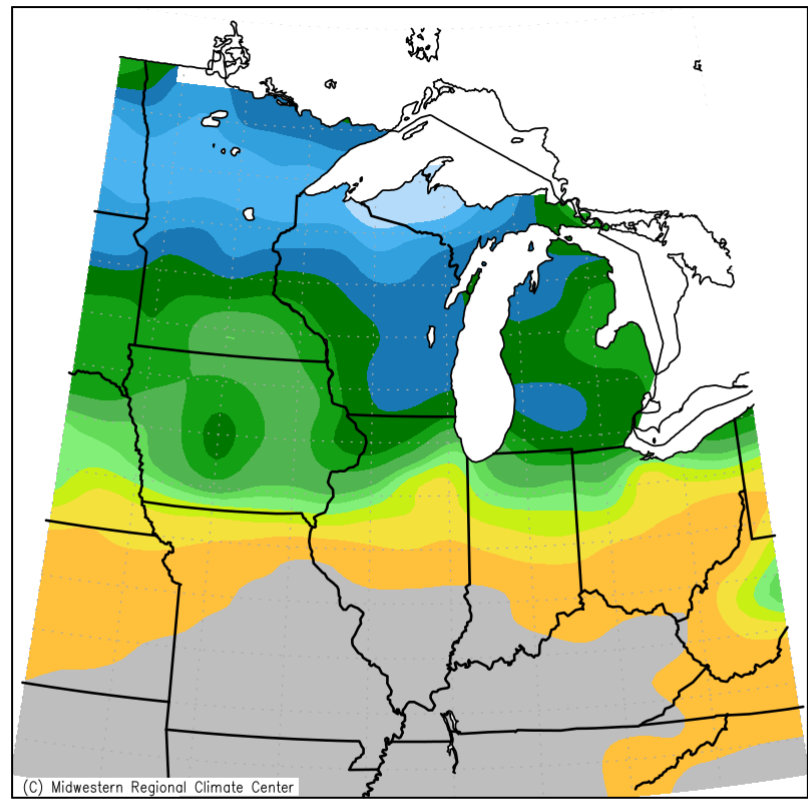
\*\*\* Saginaw Area precipitation records date back to January 1912.

# March 2023 – Regional Snowfall Summary



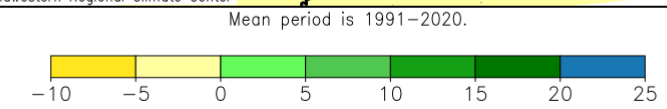
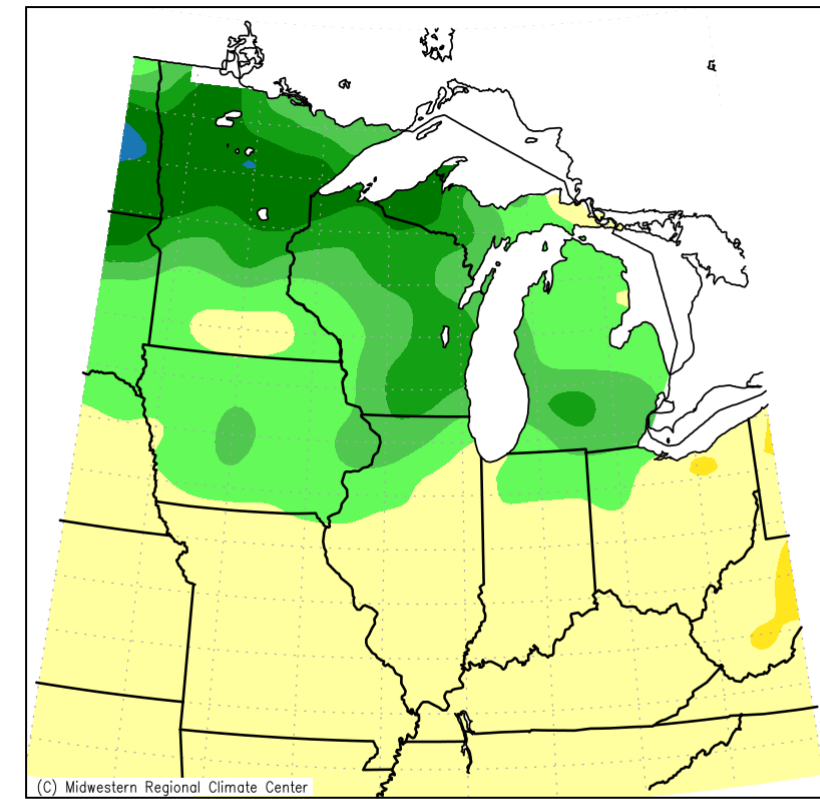
Total Monthly Snowfall (left) & Departure from Normal (right)

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



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 4/1/2023 2:21:51 PM CDT

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



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 4/1/2023 2:22:18 PM CDT



# March 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	4.4	7.7	4	DURAND 6.2 WNW	5.2	13.5	8	OWOSSO WWTP	4.7	9.8	9
ALGONAC WWTP	4.0	7.1	4	DURAND WWTP	5.5	9.2	6	PLEASANT RDG 0.5 WNW	3.1	5.5	5
ANN ARBOR 2.1 WNW	8.0	17.0	8	FARMINGTON	5.0	9.2	5	PONTIAC WWTP	5.6	9.4	5
ANN ARBOR 7.1 W	8.8	13.9	8	FENTON 6.2 WSW	6.5	14.4	9	PORT HURON	5.5	8.4	3
ANN ARBOR SE	8.4	20.3	10	FILION 5NNW	2.1	6.1	9	RICHMOND 4 NNW	8.7	14.2	8
ANN ARBOR U OF MICH	5.3	20.5	13	FLINT 7W	5.0	10.6	10	ROSEVILLE 1.7 ENE	4.1	7.9	5
BAD AXE	5.0	11.2	9	<b>FLINT FCWOS</b>	<b>4.9</b>	<b>11.8</b>	<b>9</b>	SAGINAW 8NW	3.3	11.3	9
BAY PORT 3.2 SSW	2.0	4.5	6	GOODRICH	9.4	14.0	10	SAGINAW #3	4.0	9.8	8
BURTON 4N	8.3	14.5	8	GROSSE POINTE FARMS	4.0	8.5	5	<b>SAGINAW MBS INTL AP</b>	<b>3.7</b>	<b>11.0</b>	<b>10</b>
CARO WWTP	4.3	9.0	9	HARBOR BEACH 1 SSE	5.0	8.5	6	SALINE 3.8 SSW	6.0	11.5	4
CASS CITY 1 SSW	4.0	8.4	6	LAPEER 2W	10.8	17.7	9	SALINE 4SW	8.1	15.5	4
CHELSEA	8.0	15.3	6	LAPEER WWTP	7.0	11.9	4	SHELBY 0.4 SSE	4.5	6.5	3
CHELSEA 3.7 NNE	8.0	15.7	9	LINDEN WWTP	6.0	11.0	6	VASSAR	3.4	6.3	4
CLINTON 0.5 NE	7.8	14.5	8	MIDLAND	3.3	8.2	6	WATERFORD 2.1 NW	8.0	13.5	7
DAVISON 5.2 N	4.0	9.4	6	MORENCI	3.4	8.4	6	WHITE LAKE 4E	8.9	16.3	9
DEARBORN	3.2	8.0	5	OIL CITY 2S	1.9	8.2	12	WYANDOTTE	5.5	15.5	7
<b>DETROIT METRO ARPRT</b>	<b>6.2</b>	<b>15.8</b>	<b>7</b>	OTTAWA LAKE 1.4 SSW	4.0	10.5	6				

# March – Top 20 Snowiest/Least Snowy on Record



## Top 20 Snowiest/Snowless Marches 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	30.2	1900	0.0	2010	19.4	1965	0.0	1945	27.5	1971	0.0	1981
2	24.1	1899	0.0	2021	18.9	1932	0.2	2021	21.7	1973	0.0	1946
3	21.8	1881	0.0	1946	18.3	1954	0.6	1946	19.3	1947	0.0	1945
4	21.0	2008	0.1	1910	17.7	1996	0.7	2010	18.5	1972	0.2	1990
5	21.0	1916	0.1	1903	16.8	1971	0.9	2012	17.4	1912	0.4	2021
6	15.8	2023	0.1	1880	16.3	1947	1.0	1953	15.3	1928	0.5	1927
7	15.8	1912	0.2	2012	16.0	1975	1.0	1936	14.9	2016	0.7	2009
8	15.7	1993	0.2	1991	14.4	1999	1.1	1938	14.6	2002	1.0	2010
9	15.5	1954	0.2	1905	14.4	1992	1.2	1991	14.4	1932	1.0	1987
10	14.7	1904	0.3	1945	14.3	1973	1.3	1949	14.2	1999	1.0	1921
11	14.6	1930	0.4	1961	13.8	1960	1.7	1924	13.5	1925	1.3	1942
12	14.5	1883	0.6	1981	13.5	1940	1.9	2000	13.3	1967	1.3	1917
13	14.4	1906	1.0	1927	13.0	1983	2.0	1941	13.1	1983	1.4	1988
14	14.3	1931	1.0	1953	12.8	1928	2.1	2006	13.0	1985	1.5	2020
15	13.6	1982	1.0	2009	12.5	1970	2.2	2009	12.4	1992	1.5	2008
16	13.3	1987	1.0	1908	12.3	2005	2.3	1933	12.3	1974	1.9	2019
17	13.3	1956	1.1	2000	11.9	1959	2.4	1927	12.0	2011	1.9	2004
18	13.2	1999	1.2	1902	11.8	2023	2.5	2019	11.8	2005	1.9	1978
19	13.2	1895	1.3	1920	11.8	1993	2.8	2020	11.8	1965	1.9	1966
20	13.1	1934	1.4	1939	11.7	2018	2.9	1990	11.7	1930	2.1	1977

\* 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

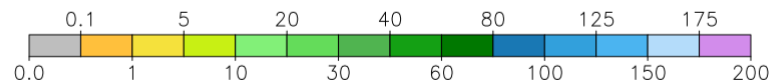
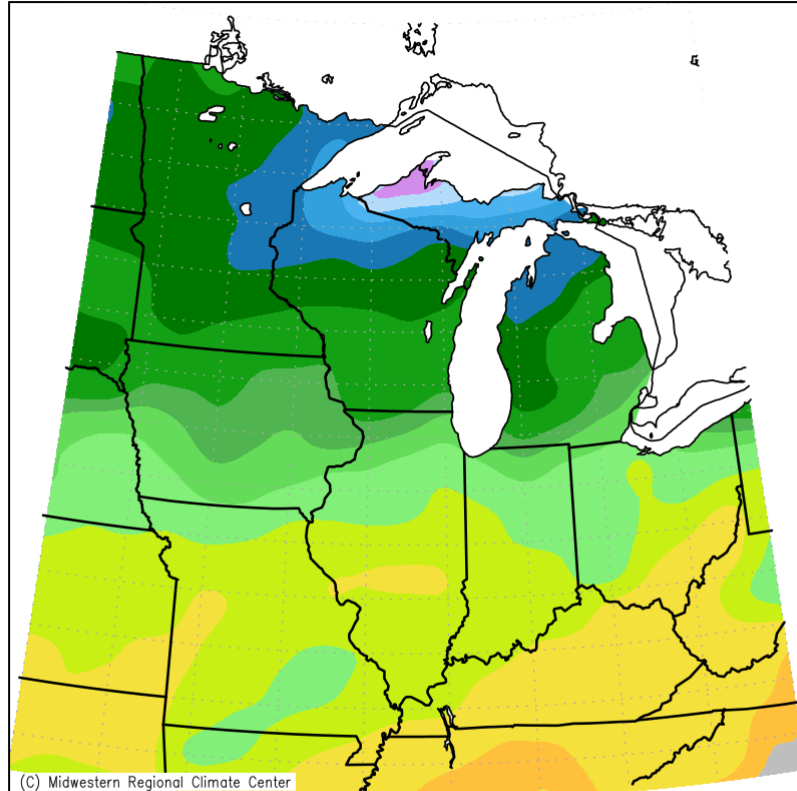
# Season-to-Date 2022-2023 Regional Snowfall Summary

Weather Forecast Office  
Detroit, MI



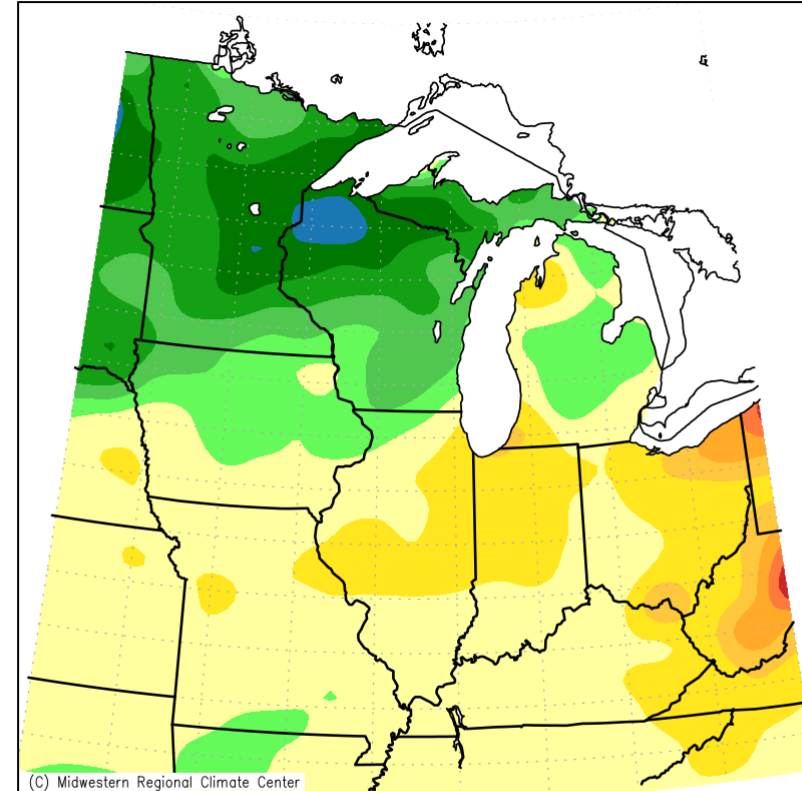
Total Snowfall (left) & Departure from Normal (right)

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



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 4/1/2023 2:27:00 PM CDT

Accumulated Snowfall (in): Departure from Mean  
October 1, 2022 to March 31, 2023



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
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# March 2023 – Significant Weather Events

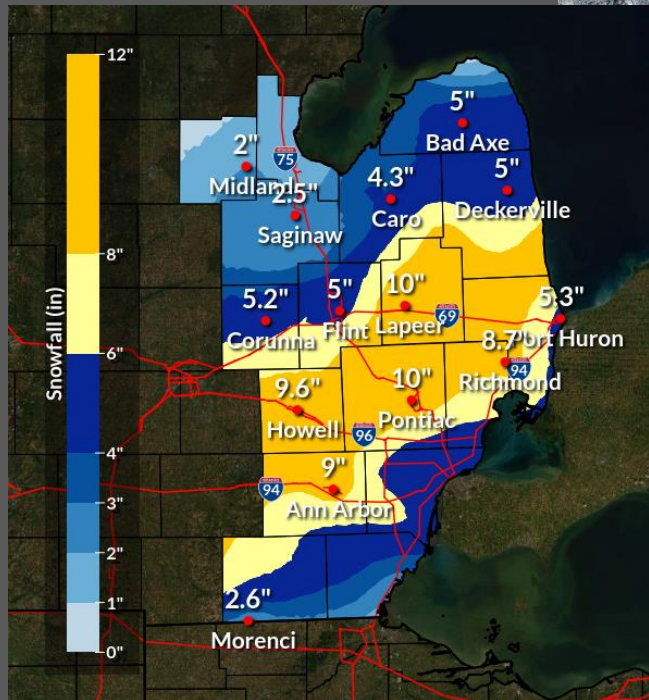
Weather Forecast Office  
Detroit, MI



Follow links for web summaries

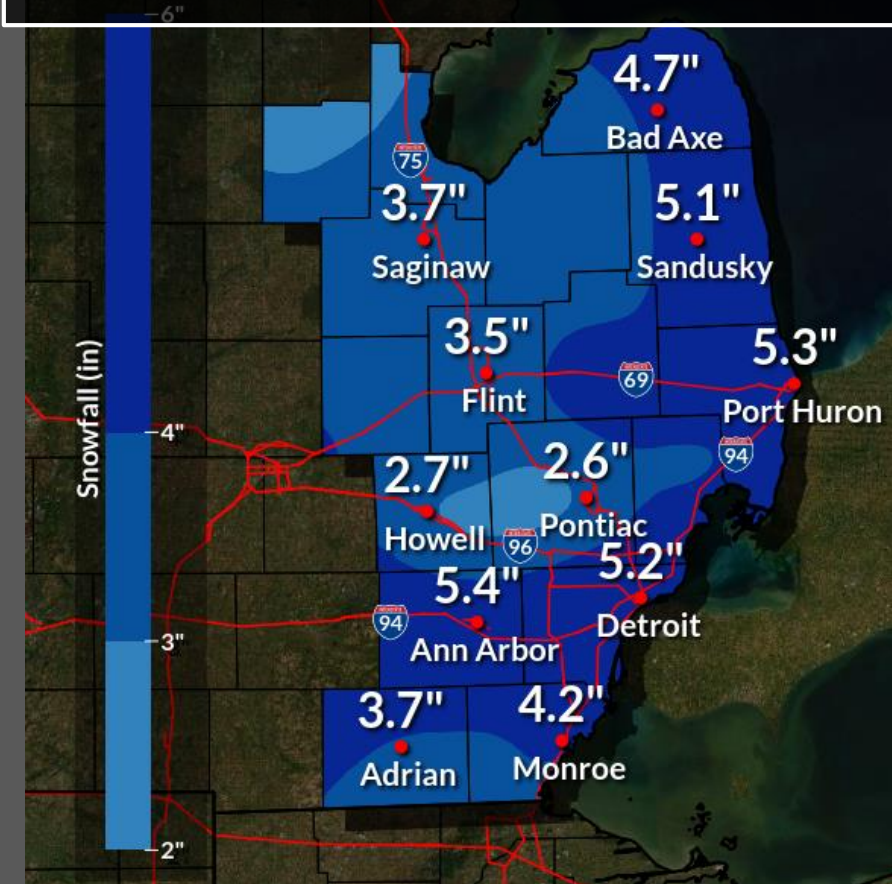
## March 3 Winter Storm

[weather.gov/dtx/2023-03-03-Winter-Storm](https://weather.gov/dtx/2023-03-03-Winter-Storm)



## March 10 Winter Weather

[weather.gov/dtx/2023-03-10-Winter-Storm](https://weather.gov/dtx/2023-03-10-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**

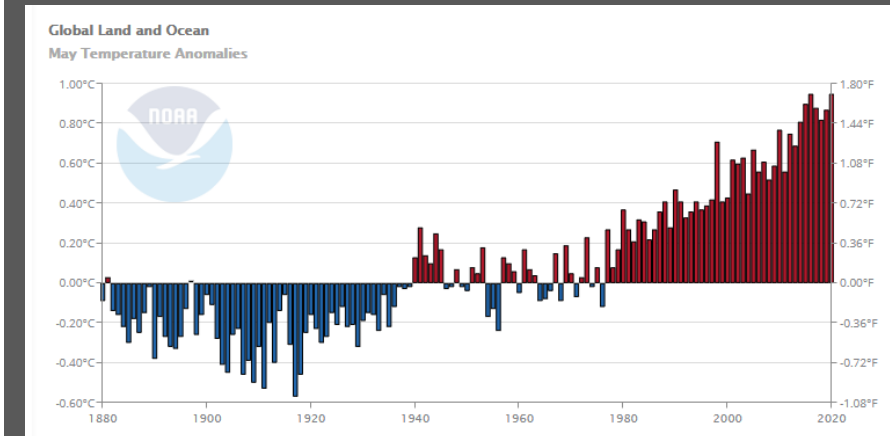
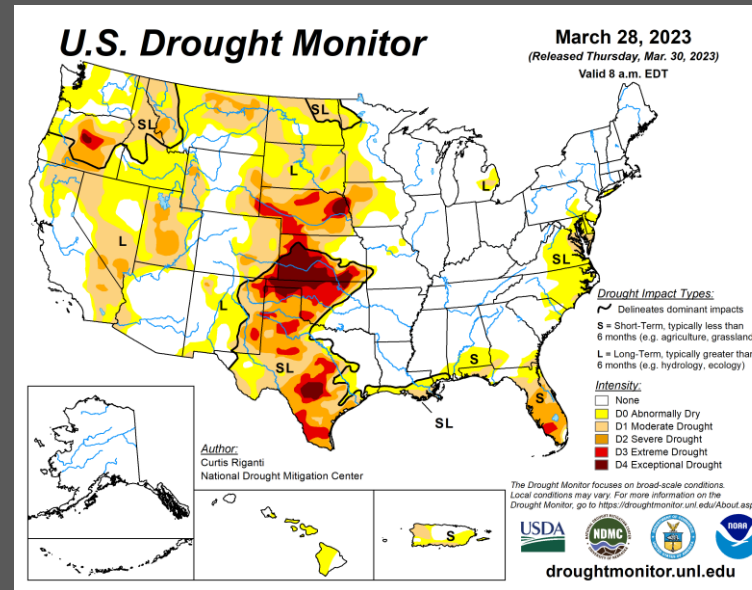
- ☑ Daily data for a month
- Daily almanac
- Monthly summarized data
- Calendar day summaries
- Daily/monthly normals
- Climatology for a day
- First/last dates
- Temperature graphs
- Accumulation graphs

Date: 2021-08 Go

**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.

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

**U.S. Drought Monitor**

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

**NOAA NCEI Climate at a Glance**

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

Thank you to our COOP and CoCoRaHS volunteer weather observers!