

Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Weather Forecast Office
Detroit, MI



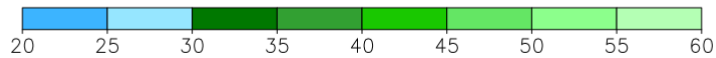
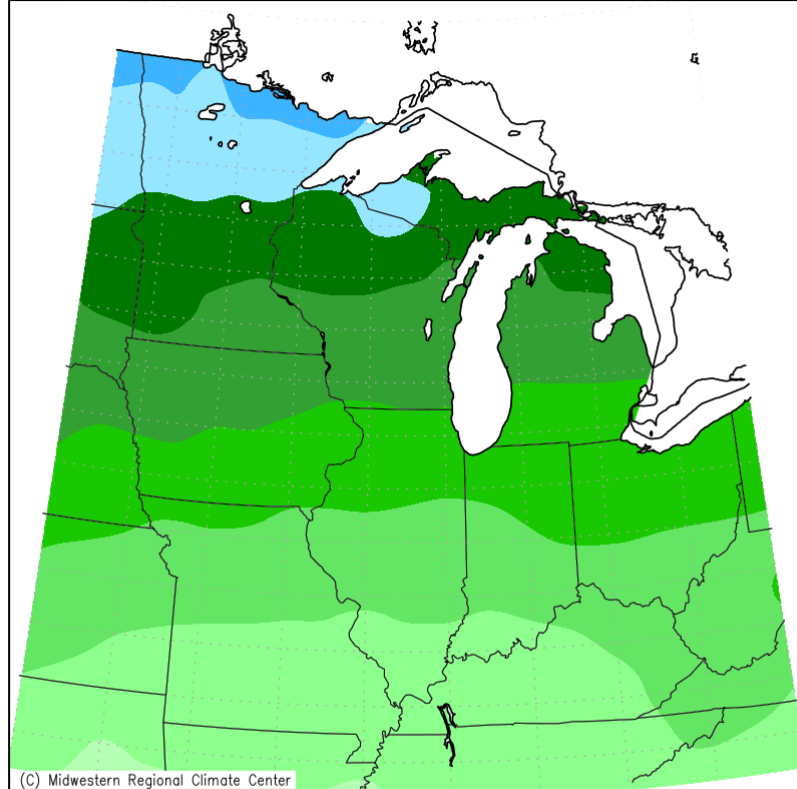
March 2024 – Regional Temperature Summary

Weather Forecast Office
Detroit, MI



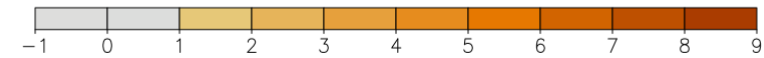
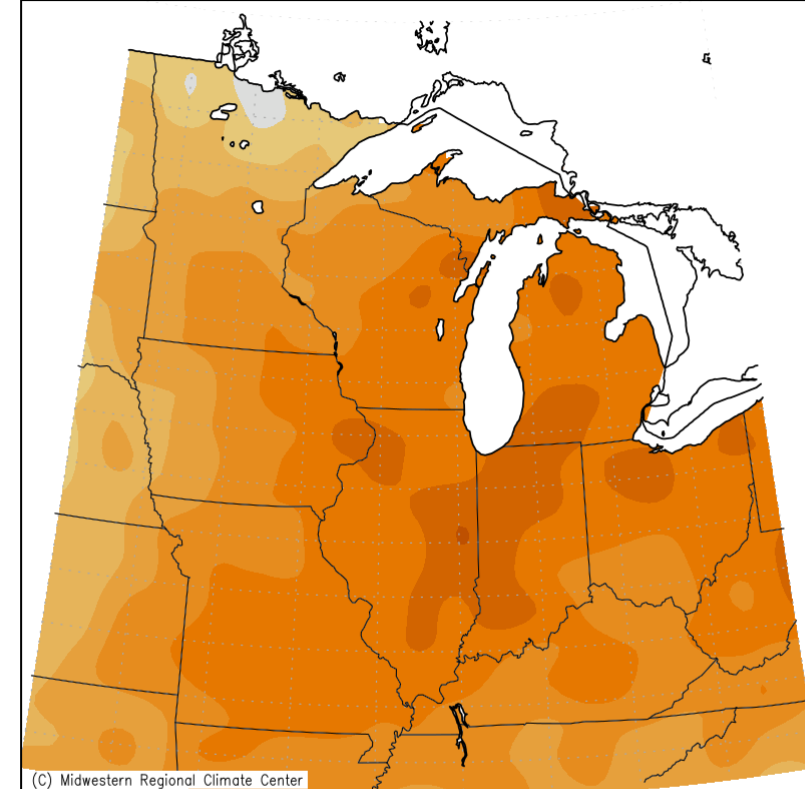
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)
March 1, 2024 to March 31, 2024



Midwestern Regional Climate Center
Purdue University

Average Temperature (°F): Departure from Mean
March 1, 2024 to March 31, 2024



Midwestern Regional Climate Center
Purdue University

Mean period is 1991–2020.

March 2024 – 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 2 NNE	72	19	52.1	31.5	41.8	GOODRICH	72	16	47.9	30.0	39.0
ADRIAN LENAWEE CO AP	72	20	52.7	33.2	43.0	GROSSE POINTE FARMS	71	17	48.0	32.0	40.0
ALGONAC WWTP	72	17	48.9	29.7	39.3	HARBOR BEACH 1 SSE	60	15	41.9	29.0	35.5
ANN ARBOR MNCPL AP	72	13	51.1	29.2	40.1	LAPEER 2W	73	14	46.8	30.4	38.6
ANN ARBOR SE	73	15	50.7	29.6	40.2	LAPEER WWTP	73	17	47.9	29.7	38.8
ANN ARBOR U OF MICH	74	12	52.8	30.5	41.6	LEXINGTON WATER PLANT	71	14	45.4	28.5	37.0
BAD AXE	70	16	45.5	28.5	37.0	MANCHESTER	73	16	51.0	29.4	39.8
CARO WWTP	71	15	47.3	29.0	38.0	MIDLAND	67	15	45.4	28.9	37.1
CASS CITY 1 SSW	71	14	46.1	27.4	36.7	OIL CITY 2S	69	16	46.3	26.1	35.8
CHELSEA	71	14	51.0	31.4	41.2	OWOSSO WWTP	70	16	48.8	30.2	39.5
DEARBORN NO. 2	73	19	51.3	33.5	42.4	PONTIAC INTL AP	71	18	48.7	31.3	40.0
DETROIT CITY AP	75	22	51.9	35.5	43.7	PONTIAC WWTP	72	19	49.3	32.0	40.6
DETROIT METRO AIRPORT	74	19	51.2	33.4	42.3	PORT HOPE	72	22	45.5	31.8	38.6
DETROIT WILLOW RUN AP	73	15	51.0	31.8	41.4	PORT HURON	67	21	47.1	33.1	40.1
DUNDEE	75	18	51.9	31.0	41.2	RICHMOND 4 NNW	70	13	47.4	28.9	38.1
DURAND WWTP	71	14	49.8	29.4	39.7	SAGINAW #3	70	17	47.9	30.3	39.1
FARMINGTON	73	15	48.6	28.6	38.6	SAGINAW MBS INTL AP	71	19	48.4	31.4	39.9
FILION 5NNW	71	20	46.6	31.1	38.9	SALINE 4SW	74	15	53.5	31.0	42.8
FLINT 7W	70	16	46.7	29.2	38.0	WHITE LAKE 4E	73	13	49.1	29.6	39.4
FLINT FCWOS	72	17	49.7	30.9	40.3	WHITMORE LAKE 1NW	71	15	48.5	29.0	38.8

March – Top 20 Coldest/Warmest on Record

Weather Forecast Office
Detroit, MI



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	39.9	2024
10	28.6	1888	42.4	2010	28.6	1932	40.5	2020	26.5	1940	39.4	2016
11	28.7	2014	42.3	2024	28.8	1926	40.4	1935	26.7	1941	39.4	2010
12	28.7	1916	41.6	1938	29.1	2005	40.3	2024	27.8	2005	39.2	1921
13	28.8	1896	41.6	1929	29.1	1923	40.1	1921	28.0	1984	39.0	1973
14	28.9	1984	41.5	1903	29.4	1956	40.0	1936	28.0	1944	38.8	2020
15	29.0	1926	41.4	1977	29.5	1959	39.5	1927	28.1	1956	37.6	1927
16	29.3	1934	41.3	1878	29.6	1971	39.2	1977	28.3	1972	37.2	2007
17	29.3	1899	41.2	2020	29.7	1944	39.1	2004	28.3	1932	37.2	1968
18	29.5	1876	40.4	2004	29.9	1980	38.7	1976	28.4	1947	37.0	2004
19	29.8	1932	40.3	1976	30.0	1937	38.6	2010	28.5	1959	36.8	1985
20	29.8	1883	40.3	1991	30.1	1970	38.5	2007	28.7	1996	36.8	1987

* 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.

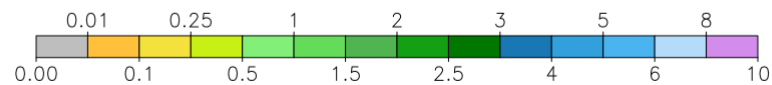
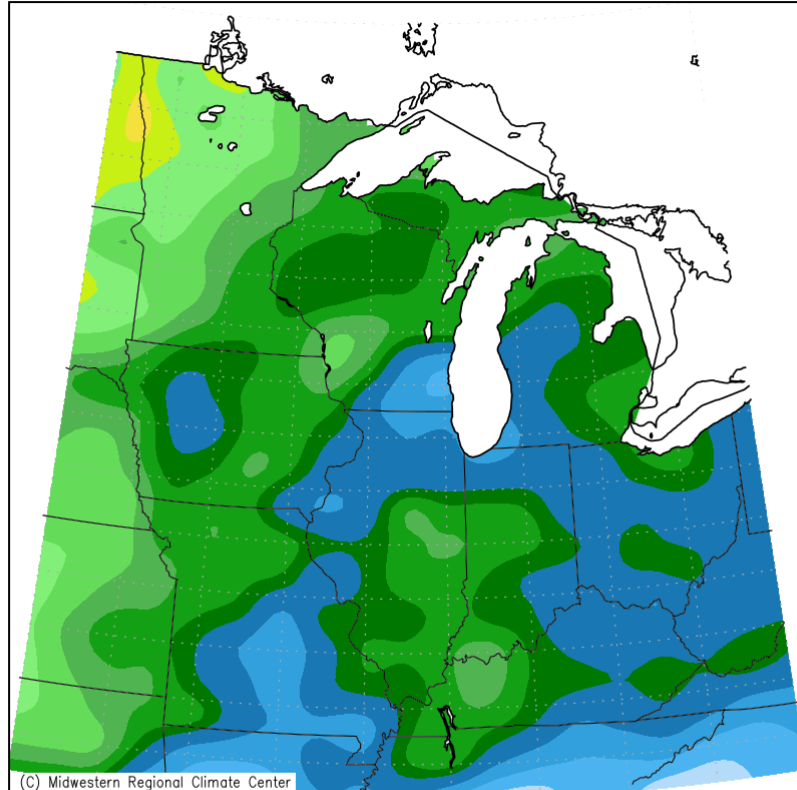
March 2024 – Regional Precipitation Summary

Weather Forecast Office
Detroit, MI



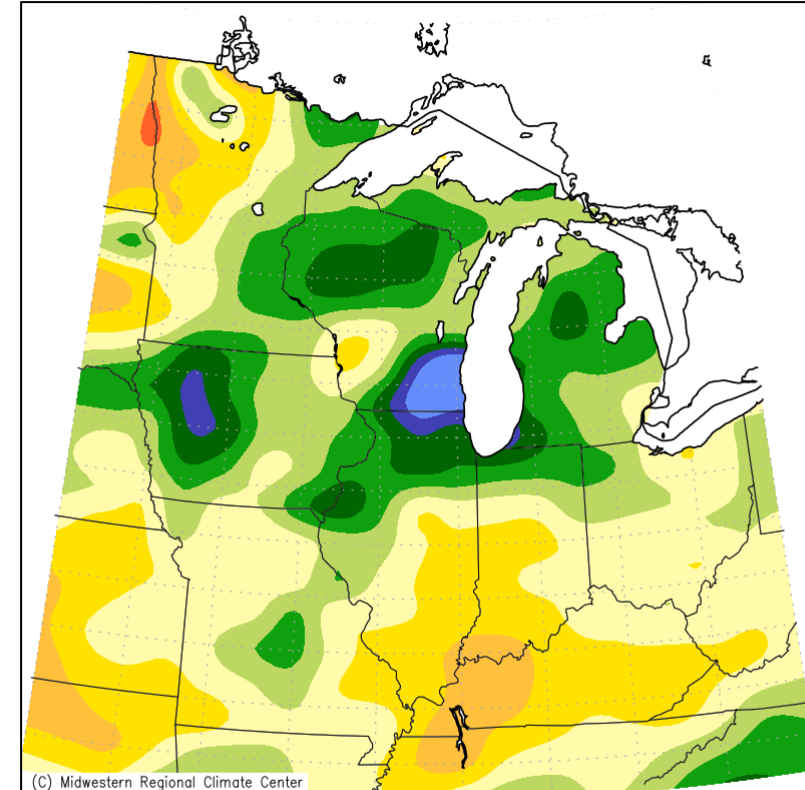
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

Accumulated Precipitation (in)
March 1, 2024 to March 31, 2024

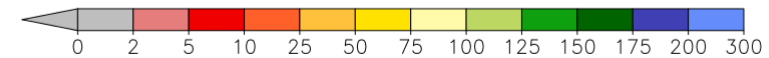


Midwestern Regional Climate Center
Purdue University

Accumulated Precipitation: Percent of Mean
March 1, 2024 to March 31, 2024



Mean period is 1991–2020.



Midwestern Regional Climate Center
Purdue University

March 2024 – 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	1.03	2.95	15	DEXTER 0.3 ENE	0.72	2.35	13	ORTONVILLE 2.3 S	0.72	2.05	14
ADRIAN LENAWEE CO AP	0.95	2.76	11	DEXTER 2.2 SE	0.78	2.68	11	OTTAWA LAKE 1.4 SSW	1.21	2.60	8
ALGONAC WWTP	0.82	2.30	9	DURAND 6.2 WNW	0.71	2.67	13	OWOSSO WWTP	0.82	2.69	14
ANN ARBOR 3.0 SE	0.70	2.13	9	DURAND WWTP	0.67	2.10	11	PLEASANT RIDGE 0.5 WNW	0.90	2.21	9
ANN ARBOR 4.5 W	0.73	2.55	10	EASTPOINTE 1.2 SSW	0.74	2.22	10	PLYMOUTH 5.4 W	0.78	2.11	10
ANN ARBOR 7.1 W	0.74	2.68	10	ECN DETROIT	0.69	2.20	13	PONTIAC INTL AP	0.43	1.66	9
ANN ARBOR MNCPL AP	0.51	2.04	9	FARMINGTON	0.78	2.16	13	PONTIAC WWTP	0.80	2.02	12
ANN ARBOR SE	0.69	2.20	15	FENTON 2.7 SSE	0.80	2.34	12	PORT HOPE	0.64	2.39	11
ANN ARBOR U OF MICH	0.56	2.31	16	FENTON 6.2 WSW	0.75	2.14	12	PORT HURON	0.44	2.23	9
BAD AXE	0.90	2.75	12	FILION 5NNW	0.81	2.34	14	RICHMOND 4 NNW	0.70	1.81	11
BAY PORT 3.2 SSW	1.21	2.95	16	FLINT 7W	0.78	2.13	14	ROSEVILLE 0.6 E	0.71	1.48	7
CARLETON 2.5 S	0.75	2.21	10	FLINT FCWOS	0.56	2.07	11	ROSEVILLE 1.7 ENE	0.67	1.91	10
CASS CITY 1 SSW	1.09	3.04	11	GOODRICH	0.64	1.95	12	SAGINAW 8NW	1.16	3.39	11
CHELSEA	0.65	2.00	15	GROSSE POINTE FARMS	0.80	2.20	9	SAGINAW #3	1.65	3.76	12
CHELSEA 3.7 NNE	0.64	2.01	10	GROSSE POINTE WDS 0.6 W	0.71	2.19	9	SAGINAW MBS INTL AP	0.80	2.62	9
CHESANING	0.99	3.02	12	HARBOR BEACH 1 SSE	1.09	2.44	10	SALINE 3.8 SSW	0.56	1.95	12
CHESTERFIELD 2.4 E	0.75	1.84	9	HIGHLAND 1.3 NE	0.77	1.85	12	SALINE 4SW	0.75	2.09	11
CLARKSTON 1.4 NE	0.75	2.28	10	LAPEER 2W	0.88	2.56	13	SHELBY 0.4 SSE	0.86	1.85	9
CLAWSON 0.5 S	0.80	2.08	10	LAPEER WWTP	0.80	2.61	12	ST CHARLES 5.0 W	1.13	3.01	12
DAVISON 3.4 NNW	0.84	2.33	13	LEXINGTON WATER PLANT	1.00	2.33	10	ST CLAIR SHORES 2.5 N	0.70	1.89	8
DAVISON 5.2 N	0.71	1.67	9	LINDEN 6.5 SW	0.76	2.17	15	WATERFORD 2.1 NW	0.59	1.54	12
DEARBORN HGHTS 2 NW	0.84	2.24	11	LIVONIA 2.0 NE	0.81	2.37	9	WHITE LAKE 0.5 E	0.81	1.88	12
DETROIT CITY AP	0.39	1.79	8	MIDLAND 1.5 NNE	1.10	3.41	10	WHITE LAKE 4E	0.60	2.19	10
DETROIT METRO AIRPORT	0.57	2.03	8	MONROE 3.0 S	0.72	2.28	11	WHITMORE LAKE 1NW	0.75	1.81	10
DETROIT WILLOW RUN AP	0.42	2.07	7	NEW BALTIMORE 0.4 SSE	0.83	1.91	12	WYANDOTTE	0.71	2.04	8

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.

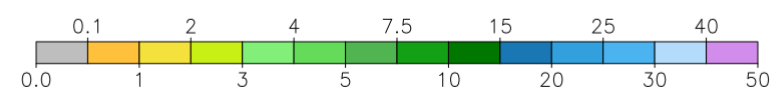
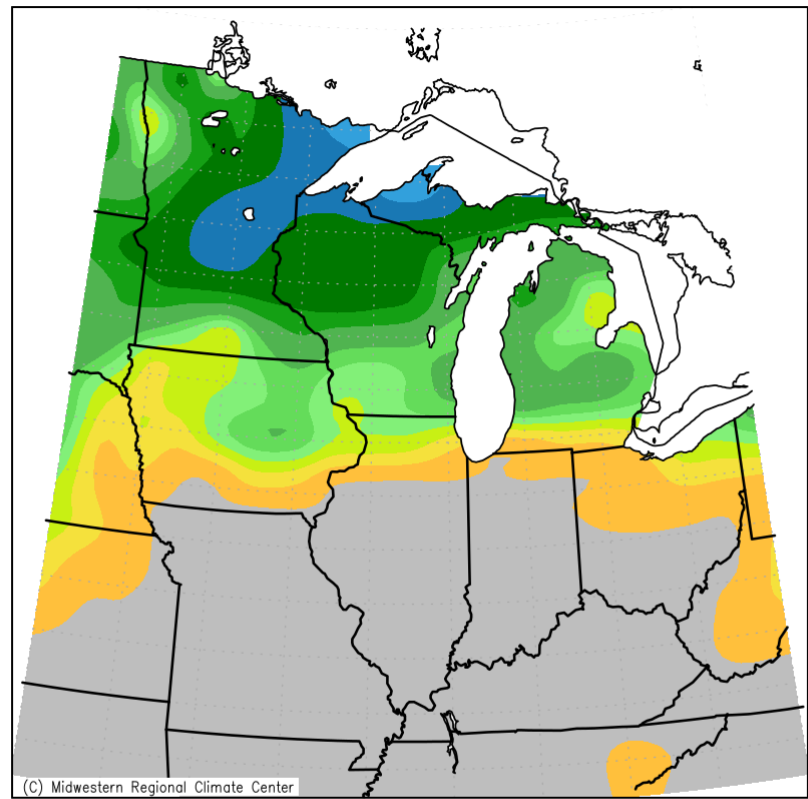
*** Saginaw Area precipitation records date back to January 1912.

March 2024 – Regional Snowfall Summary



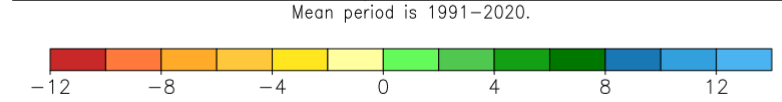
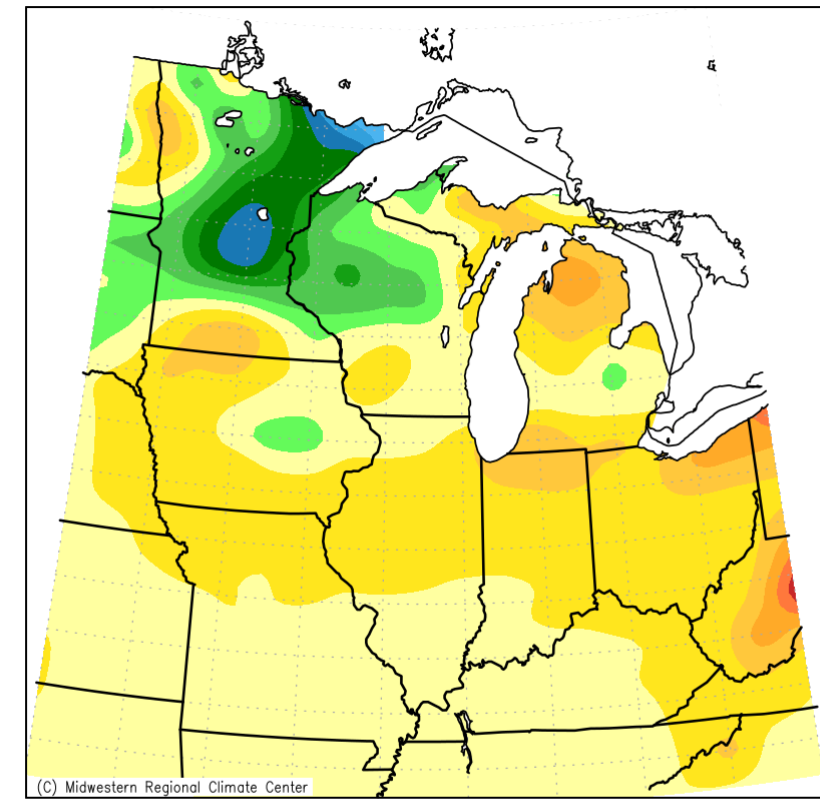
Total Monthly Snowfall (left) & Departure from Normal (right)

Accumulated Snowfall (in)
March 1, 2024 to March 31, 2024



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 4/3/2024 6:59:59 PM EDT

Accumulated Snowfall (in): Departure from Mean
March 1, 2024 to March 31, 2024



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 4/3/2024 7:00:20 PM EDT

March 2024 – 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
ADRIAN 2 NNE	0.1	0.2	2	GROSSE POINTE FARMS	1.9	3.0	2
ALGONAC WWTP	3.0	3.0	1	HARBOR BEACH 1 SSE	1.0	1.1	2
ANN ARBOR 2.1 WNW	4.6	4.9	3	LAPEER 2W	3.1	7.2	5
ANN ARBOR 7.1 W	2.0	2.2	2	LAPEER WWTP	2.8	5.3	4
ANN ARBOR SE	2.0	3.5	8	LIVONIA 2.3 NNW	1.7	2.0	2
ANN ARBOR U OF MICH	5.1	6.8	5	MANCHESTER	0.2	0.3	2
BAD AXE	2.1	3.9	5	MIDLAND 1.5 NNE	3.0	4.5	2
BAY PORT 3.2 SSW	2.5	4.2	3	OIL CITY 2S	1.8	4.2	3
BERKLEY 0.6 N	3.5	3.7	3	OTTAWA LAKE 1.4 SSW	T	T	0
CARO WWTP	1.0	1.4	3	OWOSSO WWTP	3.6	6.5	6
CASS CITY 1 SSW	2.8	4.2	3	PLEASANT RIDGE 0.5 WNW	1.8	3.0	2
CHELSEA	2.5	4.2	3	PONTIAC WWTP	1.9	3.7	2
CHELSEA 3.7 NNE	3.3	4.3	3	PORT HURON	3.0	3.0	1
CHESANING	5.8	7.4	5	RICHMOND 4 NNW	4.9	6.9	4
DAVISON 5.2 N	2.3	5.1	4	SAGINAW 8NW	3.6	6.0	4
DEARBORN	1.7	2.7	2	SAGINAW #3	4.0	6.4	5
DEARBORN NO. 2	3.2	3.2	1	SAGINAW MBS INTL AP	4.5	6.2	5
DETROIT METRO AIRPORT	0.5	0.9	3	SALINE 3.8 SSW	0.1	0.1	1
DURAND WWTP	2.0	4.5	3	SALINE 4SW	0.1	0.1	1
FARMINGTON	3.7	5.5	5	SHELBY 0.4 SSE	4.0	4.5	2
FENTON 6.2 WSW	2.3	5.6	5	WATERFORD 2.1 NW	3.5	4.8	5
FILION 5NNW	1.1	2.9	5	WHITE LAKE 4E	6.1	8.6	5
FLINT 7W	4.1	9.3	7	WHITMORE LAKE 1NW	1.5	2.4	2
FLINT FCWOS	5.2	9.3	6	WYANDOTTE	0.5	0.7	3
GOODRICH	3.8	6.3	5				

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	0.9	2024	13.0	1983	2.0	1941	13.1	1983	1.4	1988
14	14.3	1931	1.0	1927	12.8	1928	2.1	2006	13.0	1985	1.5	2020
15	13.6	1982	1.0	1953	12.5	1970	2.2	2009	12.4	1992	1.5	2008
16	13.3	1987	1.0	2009	12.3	2005	2.3	1933	12.3	1974	1.9	2019
17	13.3	1956	1.0	1908	11.9	1959	2.4	1927	12.0	2011	1.9	2004
18	13.2	1999	1.1	2000	11.8	2023	2.5	2019	11.8	2005	1.9	1978
19	13.2	1895	1.2	1902	11.8	1993	2.8	2020	11.8	1965	1.9	1966
20	13.1	1934	1.3	1920	11.7	2018	2.9	1990	11.7	1930	2.1	1977

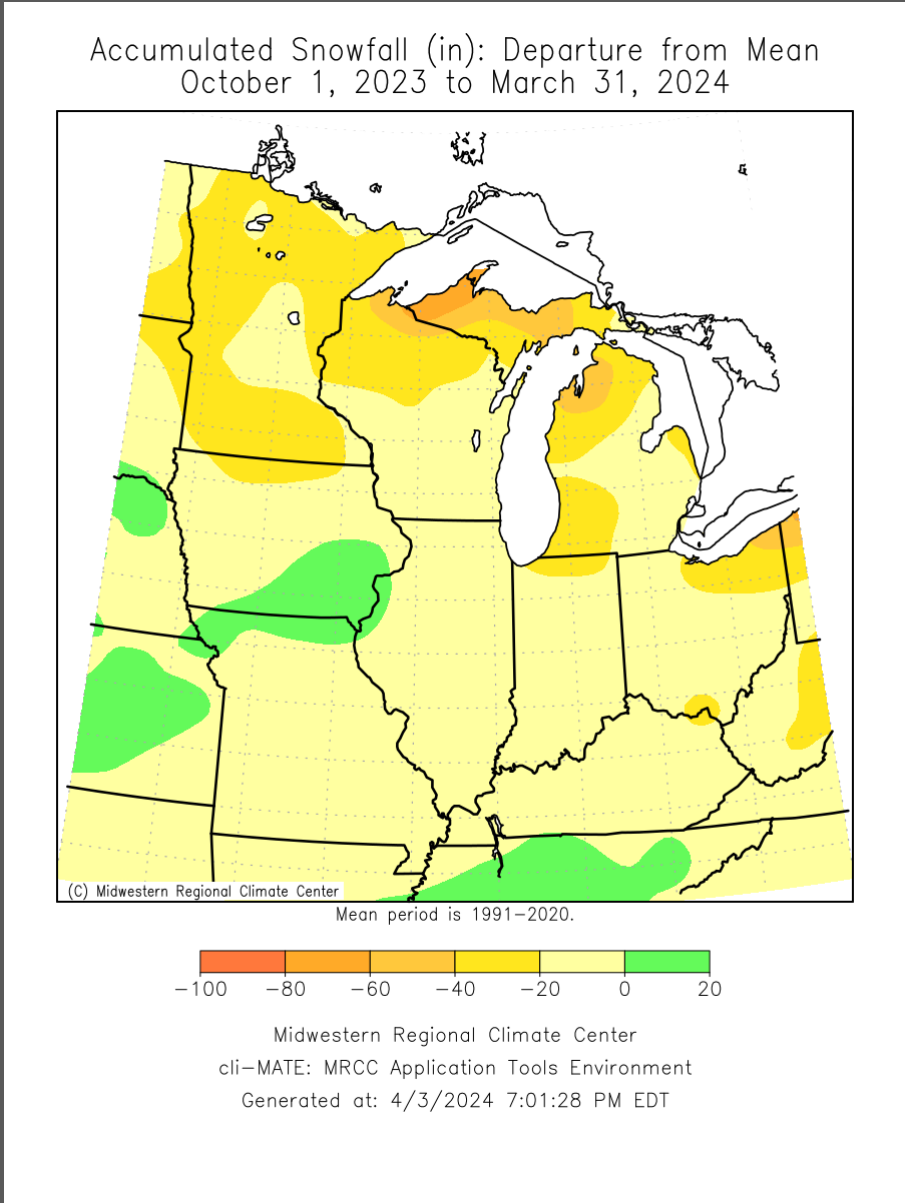
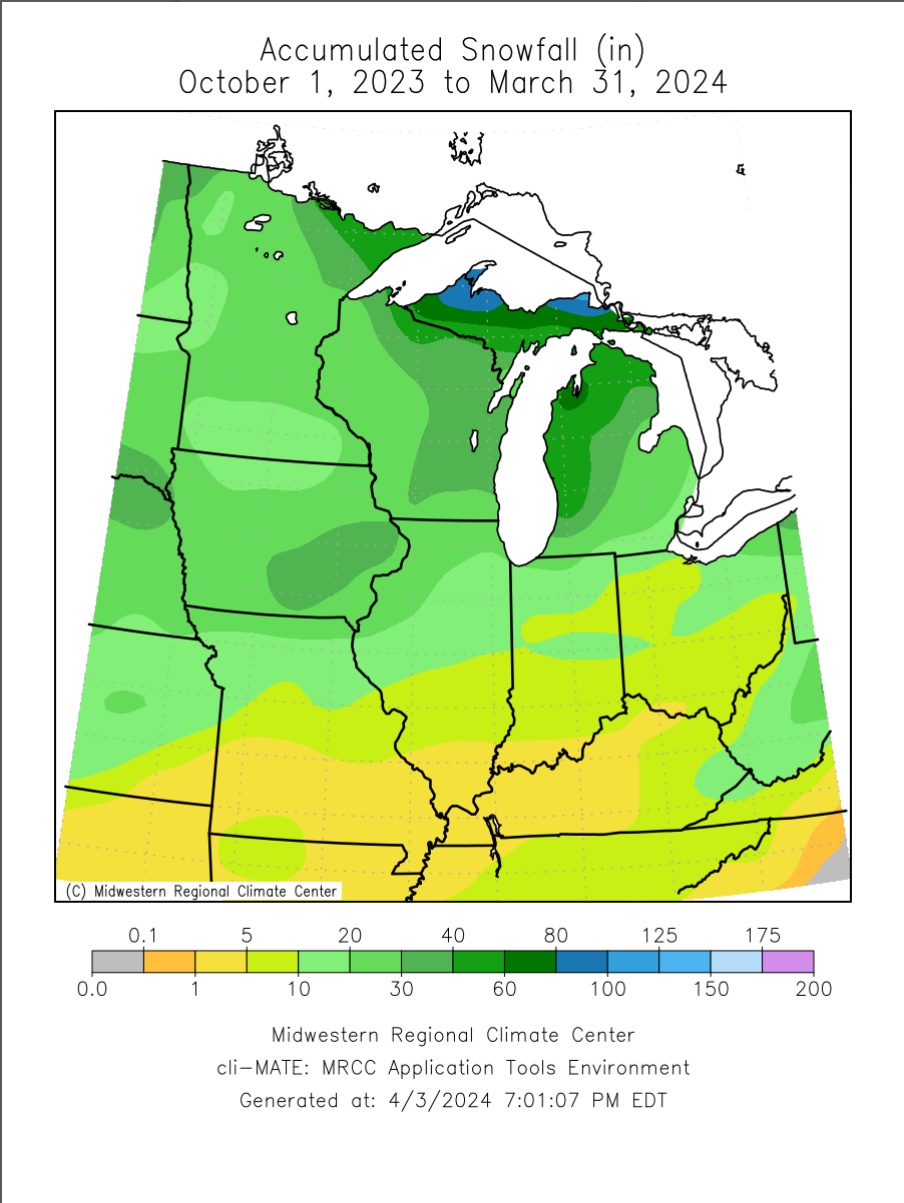
* Detroit Area snowfall records date back to January 1880.

** 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

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



March 2024 – Significant Weather Events

Follow links for web summaries

Weather Forecast Office
Detroit, MI



March 22 Winter Weather Advisory weather.gov/dtx/winterweather_03222024





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

- ☑ Detroit Area
- ☐ Flint Area
- ☐ Saginaw Area
- ☐ Adrian 2 Nne, MI
- ☐ Ann Arbor Univ O, MI
- ☐ Bad Axe, MI
- ☐ Caro Wwtp, MI
- ☐ Chelsea, MI
- ☐ Detroit City Ap, MI
- ☐ Detroit Metropol, MI

Product

- ☑ 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

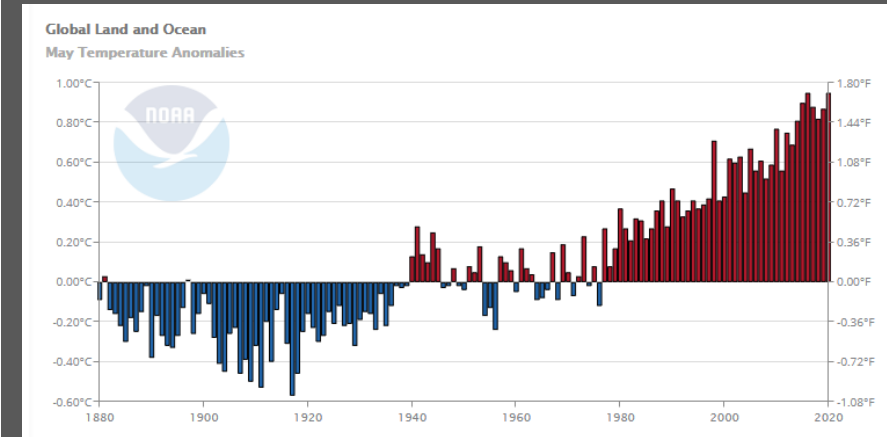
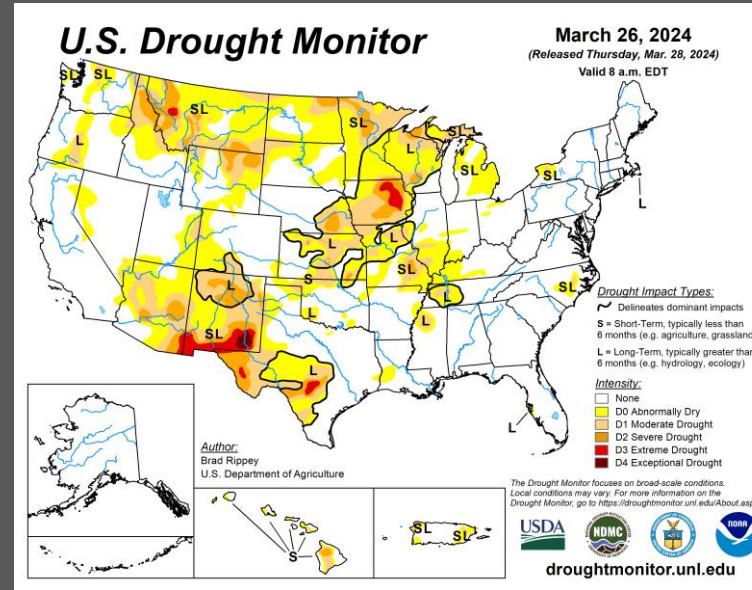
Date: 2021-08 **Go**

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.

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

U.S. Drought Monitor

drought.gov/drought/data-maps-tools/current-conditions

NOAA NCEI Climate at a Glance

ncei.noaa.gov/access/monitoring/climate-at-a-glance/

Thank you to our COOP and CoCoRaHS volunteer weather observers!