

Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Weather Forecast Office
Detroit, MI



December 2024



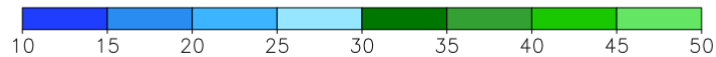
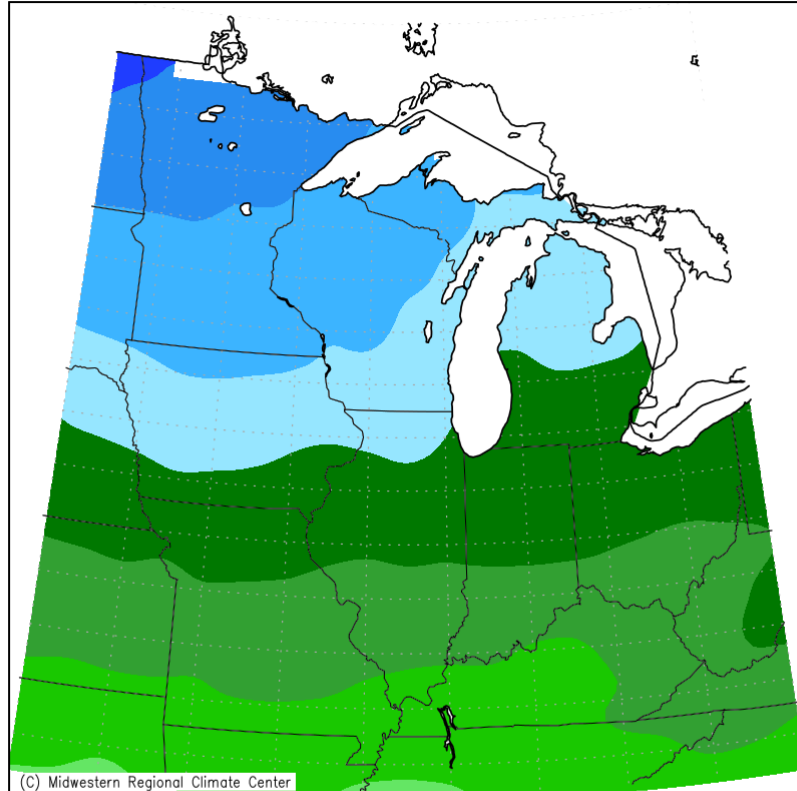
December 2024 – Regional Temperature Summary

Weather Forecast Office
Detroit, MI



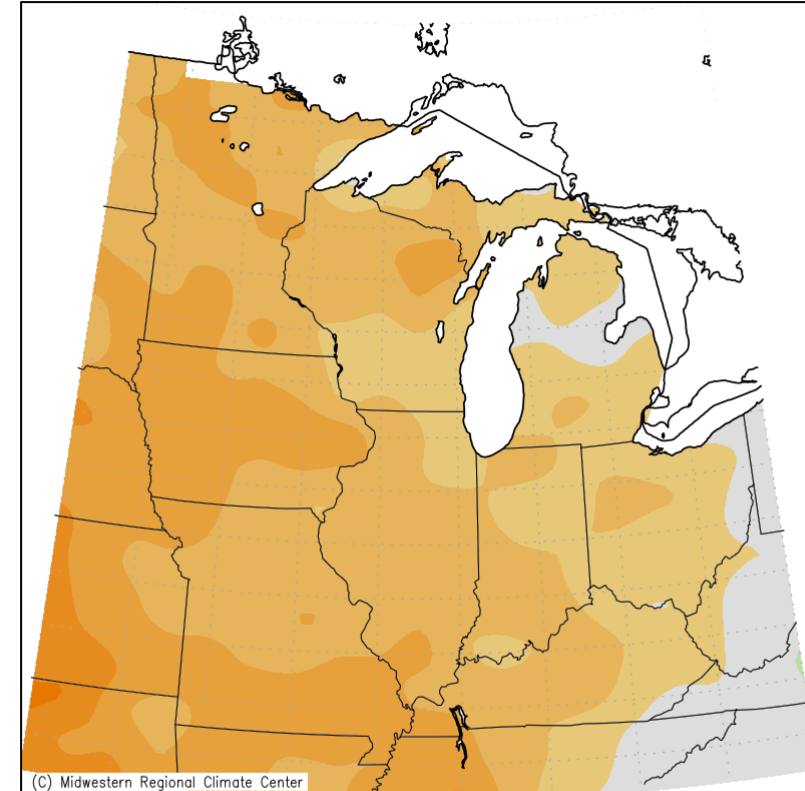
Average Temperature (left) & Departure from Average (right)

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



Midwestern Regional Climate Center
Purdue University


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



Mean period is 1991–2020.



Midwestern Regional Climate Center
Purdue University

December 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 LENAWEЕ CO AP	57	7	39.0	27.4	33.2	GOODRICH	53	-1	36.8	23.8	30.3		
ALGONAC WWTP	56	4	38.3	25.3	31.8	GROSSE POINTE FARMS	56	9	37.5	26.6	32.1		
ANN ARBOR MNCPL AP	56	2	37.7	23.3	30.5	LAPEER 2W	54	-3	36.1	24.5	30.3		
ANN ARBOR SE	58	5	38.3	24.6	31.5	LAPEER WWTP	54	-3	36.8	23.9	30.3		
ANN ARBOR U OF MICH	56	2	38.7	25.4	32.0	LEXINGTON WATER PLANT	57	6	37.6	24.5	31.0		
BAD AXE	54	1	34.6	23.7	29.1	LINDEN WWTP	53	1	35.8	23.7	29.8		
BURTON 4N	55	-4	37.0	23.1	30.3	MANCHESTER	57	6	38.2	24.8	31.4		
CARO WWTP	54	-3	35.9	22.2	29.0	MORENCI	56	5	37.2	24.3	30.6		
CASS CITY 1 SSW	54	-6	36.3	22.2	29.8	OWOSSO WWTP	53	1	36.3	24.2	30.3		
CHELSEA	56	2	37.3	24.5	31.0	PONTIAC WWTP	54	7	37.8	23.4	30.6		
DEARBORN	58	8	39.0	27.5	33.3	PORT HURON	57	10	37.3	27.3	32.3		
DETROIT CITY AP	60	11	41.0	29.9	35.5	RICHMOND 4 NNW	54	-4	35.6	22.8	29.2		
DETROIT METRO AIRPORT	58	10	39.0	27.5	33.3	SAGINAW #3	52	1	36.2	23.8	30.0		
DURAND WWTP	54	-9	36.5	22.9	29.7	SAGINAW MBS INTL AP	54	-4	36.4	24.6	30.5		
FARMINGTON	57	6	36.7	24.4	30.5	SALINE 4SW	57	5	38.6	25.0	31.8		
FILION 5NNW	55	8	37.4	27.8	32.6	WHITE LAKE 4E	54	-2	35.7	24.6	30.2		
FLINT 7W	53	0	36.3	23.6	30.0	WHITMORE LAKE 1NW	54	7	36.0	25.1	30.5		
FLINT FCWOS	55	1	37.5	25.5	31.5								

December – Top 20 Coldest/Warmest on Record

Weather Forecast Office
Detroit, MI



Top 20 Coldest/Warmest Decembers 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	17.8	1876	41.1	2015	16.1	1989	41.0	2015	16.2	1989	39.1	2015
2	18.0	1989	40.6	1881	16.6	2000	39.2	2023	17.2	2000	38.0	2023
3	19.2	2000	40.1	2023	17.4	1976	37.2	1982	18.8	1983	35.3	1923
4	20.8	1983	39.3	1889	17.8	1958	36.8	1923	18.9	1976	34.5	1982
5	21.5	1976	38.1	1877	20.1	1983	35.4	2006	19.0	1958	34.4	2006
6	21.8	1917	37.7	1923	20.5	1944	35.4	1965	19.1	1917	34.2	1931
7	21.9	1880	37.4	2006	20.8	1963	34.7	1931	19.5	1919	34.1	2012
8	22.2	1985	37.3	1982	21.3	1985	34.4	2021	20.1	1963	33.5	2001
9	22.4	1958	37.2	2021	21.7	1960	34.2	2019	21.0	1924	33.4	2021
10	22.5	1903	37.2	1931	22.2	1945	34.1	2001	21.3	1944	33.4	1941
11	22.8	1878	36.3	1918	22.4	1950	33.6	1941	21.5	1960	33.0	2011
12	23.0	1909	35.9	2012	22.6	2017	33.5	2012	21.6	1985	33.0	1965
13	23.1	1919	35.9	1965	22.9	1962	33.4	1984	22.0	1980	32.8	1936
14	23.2	1924	35.8	2001	23.0	1995	33.3	2011	22.0	1914	32.5	2019
15	23.3	1910	35.8	1891	23.1	1942	33.1	2020	22.2	1962	32.3	1994
16	23.8	1963	35.5	2011	23.2	1924	32.8	2014	22.4	1926	32.2	1913
17	23.8	1914	35.5	1941	23.9	1937	32.8	1939	22.5	1950	32.1	2014
18	23.9	1886	35.4	1994	24.0	1926	32.4	1971	22.5	1945	32.0	1998
19	24.7	1945	35.3	1998	24.3	2010	32.3	1998	22.5	1942	32.0	1918
20	24.8	1944	35.1	2019	24.3	2005	32.2	1987	22.8	2013	31.7	2020

* 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.

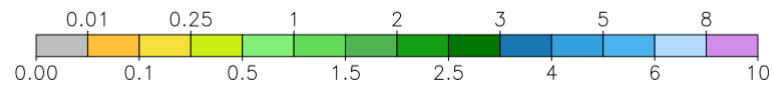
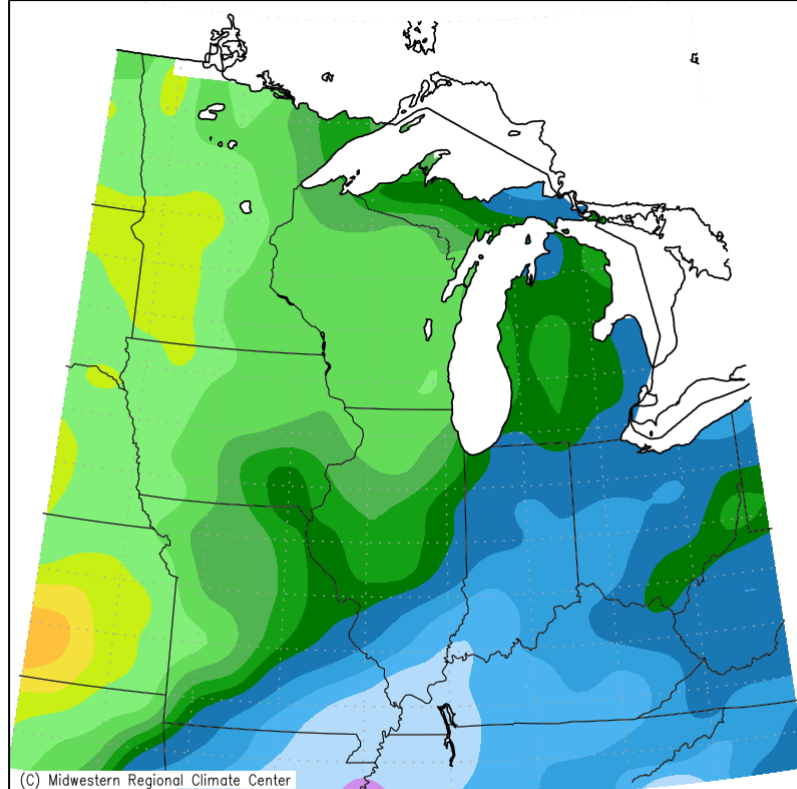
December 2024 – Regional Precipitation Summary

Weather Forecast Office
Detroit, MI



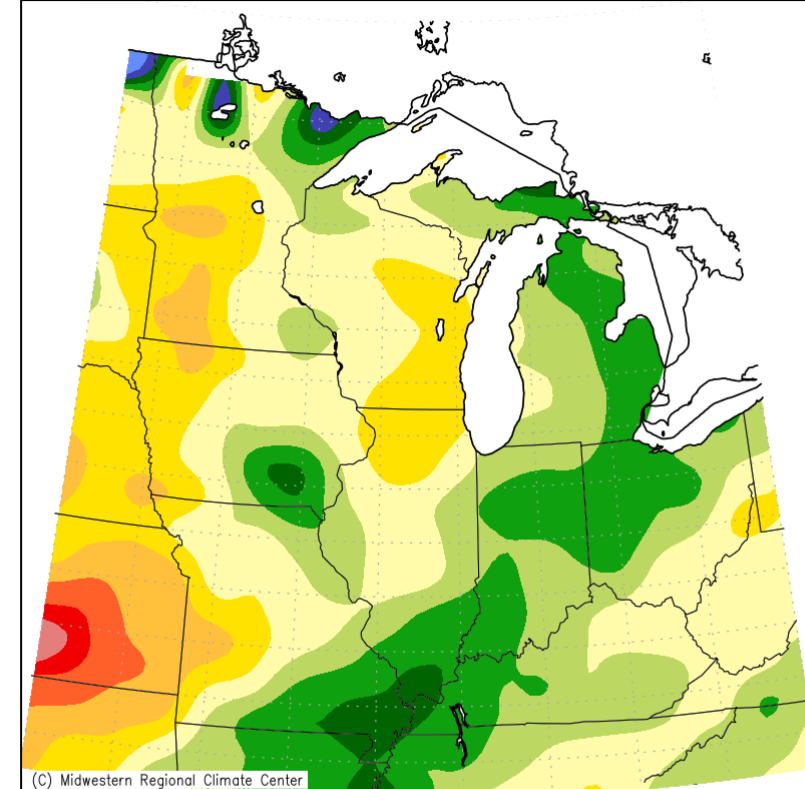
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

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

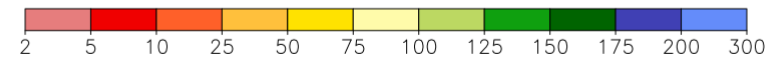


Midwestern Regional Climate Center
Purdue University

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



Mean period is 1991–2020.



Midwestern Regional Climate Center
Purdue University

December 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
ALGONAC WWTP	1.60	3.57	14	DEXTER 2.2 SE	1.17	3.06	18	MONROE 3.0 S	0.88	3.04	15
ANN ARBOR 2.1 WNW	0.95	2.99	16	DURAND 6.2 WNW	1.33	2.57	16	NEW BALTIMORE 0.4 SSE	1.20	2.67	13
ANN ARBOR 7.1 W	1.07	2.82	13	DURAND WWTP	1.65	2.95	17	ORTONVILLE 2.3 S	0.94	2.57	15
ANN ARBOR SE	1.10	3.30	19	EASTPOINTE 1.2 SSW	1.46	3.13	14	OWOSSO 1.0 NW	1.41	2.31	15
ANN ARBOR U OF MICH	1.04	3.42	17	FARMINGTON	1.02	2.94	15	OWOSSO WWTP	1.40	2.69	16
BAD AXE	1.53	3.46	20	FENTON 2.7 SSE	1.06	2.64	17	PLEASANT RDG 0.5 WNW	0.88	2.63	15
BAD AXE 6.3 SSW	1.15	3.02	16	FENTON 6.2 WSW	0.98	2.07	13	PLYMOUTH 5.4 W	0.97	2.78	16
BAY PORT 3.2 SSW	1.41	3.10	14	FILION 5NNW	1.52	3.44	17	PONTIAC WWTP	0.76	2.28	18
BERKLEY 0.6 N	1.38	2.97	16	FLINT 7W	1.44	2.56	15	PORT HURON	1.38	3.10	12
BURTON 4N	1.26	2.68	17	FLINT FCWOS	1.17	2.68	16	RICHMOND 4 NNW	0.99	2.48	14
CANTON 3.7 WNW	1.21	3.33	14	GOODRICH	0.98	1.96	16	ROSEVILLE 1.7 ENE	1.01	2.98	12
CARO WWTP	1.50	3.52	14	GROSSE POINTE FARMS	1.35	3.24	12	SAGINAW 6.4 W	0.88	2.54	12
CASS CITY 1 SSW	1.67	3.17	18	HIGHLAND 1.3 NE	0.91	2.33	13	SAGINAW #3	1.58	3.01	19
CHELSEA	1.01	2.49	15	LAPEER 2W	1.14	2.68	20	SAGINAW MBS INTL AP	1.14	2.50	12
CHELSEA 3.7 NNE	0.95	2.31	16	LAPEER 4.4 SSE	1.12	2.14	14	SALINE 3.8 SSW	0.94	2.87	12
CHESANING	1.39	2.49	15	LAPEER WWTP	1.33	2.76	18	SALINE 4SW	0.88	3.30	12
DAVISON 3.4 NNW	1.00	2.19	16	LINDEN 6.5 SW	1.01	2.56	15	WATERFORD 1.1 NE	0.81	2.10	14
DEARBORN	1.23	3.16	15	MANCHESTER	0.94	3.20	15	WATERFORD 2.1 NW	0.64	1.75	16
DEARBORN HGHTS 1.8 NW	1.34	2.62	15	MIDLAND 1.5 NNE	1.32	3.16	15	WHITE LAKE 4E	1.08	2.81	16
DETROIT CITY AP	1.43	3.11	11	MIDLAND 4.4 SW	1.21	2.76	14	WYANDOTTE	1.32	3.22	13
DETROIT METRO AIRPORT	1.43	3.27	14	MILLINGTON 3 SE	0.89	2.91	12				

December – Top 20 Wettest/Driest on Record

Weather Forecast Office
Detroit, MI



Top 20 Wettest/Driest Decembers 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	5.19	1967	0.42	1900	4.66	1971	0.44	1969	5.33	1972	0.33	1939
2	4.83	1878	0.43	1943	4.03	1975	0.44	1943	4.83	1971	0.35	1958
3	4.79	1929	0.44	1960	4.01	1972	0.49	1960	4.67	1965	0.40	1960
4	4.73	1895	0.59	1958	3.76	1984	0.51	1993	4.19	1949	0.42	1943
5	4.62	1907	0.60	1874	3.75	1949	0.58	1958	3.85	1982	0.49	1919
6	4.62	1879	0.78	1993	3.57	1931	0.61	1962	3.77	2008	0.55	1993
7	4.60	1987	0.79	1976	3.41	2000	0.77	1997	3.77	1959	0.62	1969
8	4.60	1957	0.85	1995	3.33	1940	0.77	1939	3.71	1920	0.62	1930
9	4.53	1966	0.88	1917	3.24	1951	0.79	1963	3.43	1980	0.67	1976
10	4.37	1990	0.93	1896	3.03	1929	0.80	1955	3.36	1967	0.69	1981
11	4.17	1881	0.97	1919	2.95	1980	0.83	2022	3.34	1984	0.69	1913
12	4.07	2008	0.99	1913	2.90	1927	0.92	1976	3.31	1927	0.78	1997
13	4.00	1974	1.02	1962	2.81	2006	1.00	1989	3.24	1968	0.80	1922
14	3.93	1965	1.02	1939	2.79	2008	1.02	1941	3.22	1996	0.80	1912
15	3.79	1971	1.10	1930	2.79	1967	1.03	1926	3.10	2015	0.83	1934
16	3.78	1983	1.16	1998	2.78	1973	1.08	2002	2.99	1962	0.86	1989
17	3.77	1906	1.16	2002	2.75	1982	1.09	1921	2.97	2006	0.90	1917
18	3.66	1901	1.16	1888	2.70	1946	1.10	1930	2.96	2019	0.92	1941
19	3.65	2006	1.23	1890	2.68	2024	1.10	1922	2.93	1929	0.94	1915
20	3.59	1968	1.23	1880	2.68	1942	1.11	1961	2.90	1990	0.97	1935

* 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.

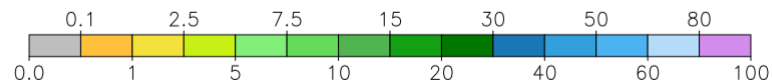
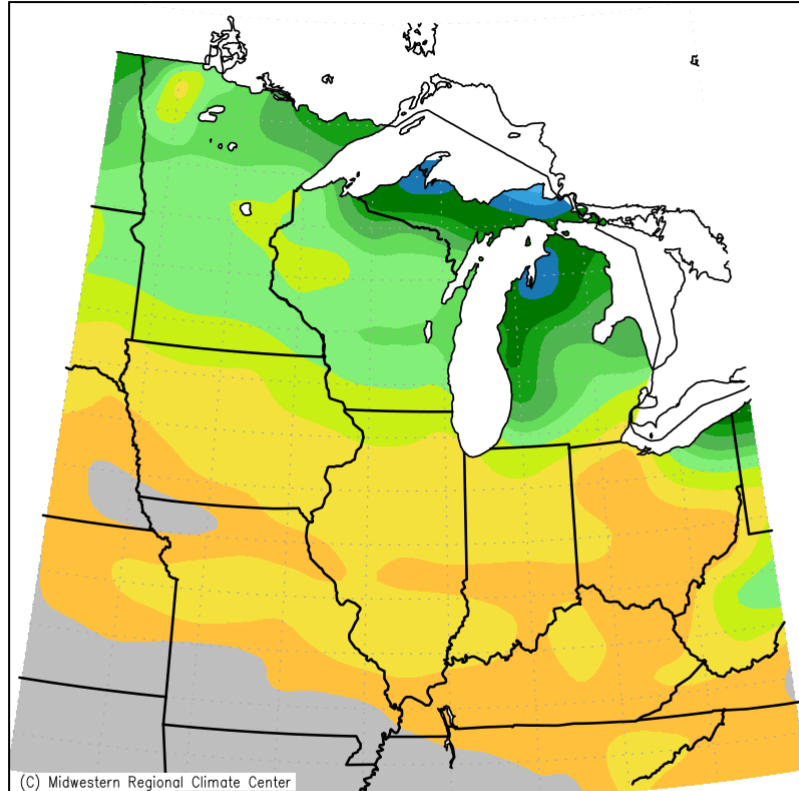
December 2024 – Regional Snowfall Summary

Weather Forecast Office
Detroit, MI



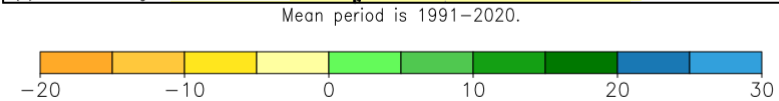
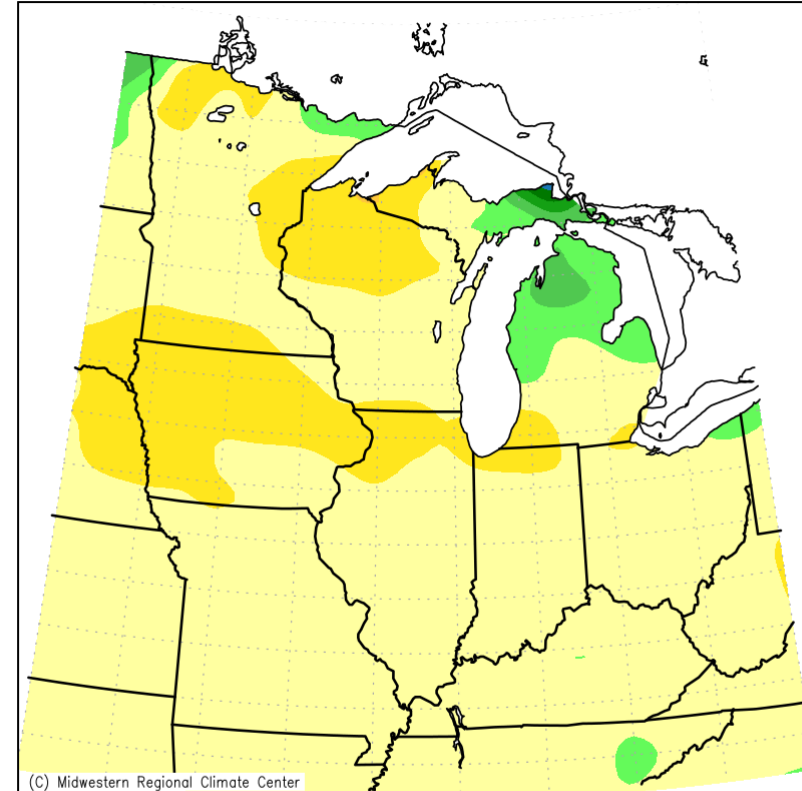
Total Monthly Snowfall (*left*) & Departure from Normal (*right*)

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



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 1/6/2025 9:02:46 AM EST

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



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 1/6/2025 9:03:09 AM EST

December 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
ALGONAC WWTP	0.3	0.4	2	GROSSE POINTE FARMS	1.0	2.0	2
ANN ARBOR 2.1 WNW	1.4	4.2	7	HARBOR BEACH 1 SSE	6.0	18.9	10
ANN ARBOR 7.1 W	1.0	3.8	6	LAPEER 2W	2.2	8.6	9
ANN ARBOR SE	1.4	7.5	9	LAPEER WWTP	4.0	8.9	4
ANN ARBOR U OF MICH	2.0	7.6	9	LINDEN WWTP	1.5	2.6	3
BAD AXE	8.2	18.8	11	MANCHESTER	1.2	3.8	8
BAY PORT 3.2 SSW	6.3	12.8	7	MIDLAND 1.5 NNE	5.0	12.4	7
BERKLEY 0.6 N	1.4	3.4	6	MILLINGTON 3 SE	4.2	10.0	7
BURTON 4N	2.3	8.1	9	MORENCI	0.5	1.6	5
CANTON 2.7 N	1.9	3.4	6	NEW BALTIMORE 0.4 SSE	2.0	3.4	4
CANTON 3.7 WNW	2.7	5.4	6	OIL CITY 2S	3.6	9.7	6
CASS CITY 1 SSW	4.0	12.3	10	OWOSSO WWTP	2.8	7.0	6
CHELSEA	2.0	4.5	5	PLEASANT RDG 0.5 WNW	2.0	2.3	3
CHELSEA 3.7 NNE	2.0	4.1	6	PLYMOUTH 5.4 W	1.8	3.2	6
CHESANING	1.6	3.6	5	PORT HURON	2.5	6.5	6
CLINTON 0.5 NE	1.0	3.3	6	RICHMOND 4 NNW	2.1	8.6	7
DETROIT METRO AIRPORT	1.1	3.6	8	SAGINAW 8NW	2.5	6.5	5
DURAND WWTP	1.4	4.3	6	SAGINAW #3	3.5	9.1	4
FARMINGTON	2.5	4.3	5	SAGINAW MBS INTL AP	2.5	9.8	7
FENTON 6.2 WSW	2.0	6.6	6	SALINE 3.8 SSW	1.8	3.2	4
FILION 5NNW	6.7	14.8	8	WATERFORD 2.1 NW	1.5	4.8	6
FLINT 7W	2.3	10.1	10	WHITE LAKE 4E	2.8	9.8	10
FLINT FCWOS	2.5	10.8	11	WYANDOTTE	1.3	3.7	8
GOODRICH	2.1	6.0	9				

December – Top 20 Snowiest/Least Snowy on Record

Weather Forecast Office
Detroit, MI



Top 20 Snowiest/Snowless Decembers 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	34.9	1974	0.0	1889	35.3	2000	0.1	1943	40.2	2000	0.0	1943
2	27.4	1929	0.1	2023	29.1	2008	0.6	2014	39.1	2008	0.9	2014
3	25.1	2000	0.1	2014	27.7	1929	1.1	1939	26.7	1929	1.0	1993
4	24.0	1951	0.4	1894	24.9	1951	1.4	1921	24.0	1951	1.0	1939
5	22.5	2017	0.5	2018	23.3	2017	1.8	2023	22.6	2007	1.5	1941
6	22.5	1895	0.9	1943	22.2	2005	2.2	1955	21.9	1972	1.8	2018
7	21.4	2008	1.2	1998	21.3	1974	2.2	1936	20.1	1989	2.1	2023
8	20.8	1886	1.3	2015	21.1	1975	2.4	1967	19.9	1947	2.4	1912
9	20.1	1910	1.3	1931	20.2	2016	2.5	2015	19.7	1968	2.7	1923
10	19.9	1983	1.4	1982	20.0	1983	2.5	1979	19.5	1978	2.8	2006
11	19.8	2005	1.4	1888	19.9	1970	2.6	1928	19.3	1954	2.8	1948
12	19.8	1975	1.6	1965	18.3	1973	3.2	1931	18.9	2013	2.8	1928
13	17.3	1981	1.6	1936	18.3	1972	3.4	1998	18.5	2005	2.9	1958
14	16.8	2016	1.9	1993	17.6	1976	3.5	1993	18.1	1980	3.0	1960
15	16.6	1977	2.0	1939	17.1	2007	3.6	1982	18.0	1937	3.4	1979
16	16.6	1893	2.0	1918	16.9	2013	3.7	1948	17.7	1996	3.4	1961
17	16.4	1973	2.0	1900	16.7	1991	3.8	2018	16.7	2004	3.4	1922
18	16.1	1884	2.3	1979	13.8	1980	4.0	1941	16.6	2016	3.6	1969
19	16.0	1898	2.4	2006	13.7	2004	4.3	2006	16.3	1962	3.6	1950
20	15.5	2013	2.6	1971	13.2	1985	4.4	2011	14.2	1995	4.1	2020

* Detroit Area snowfall records date back to January 1880.

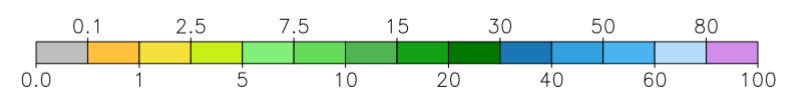
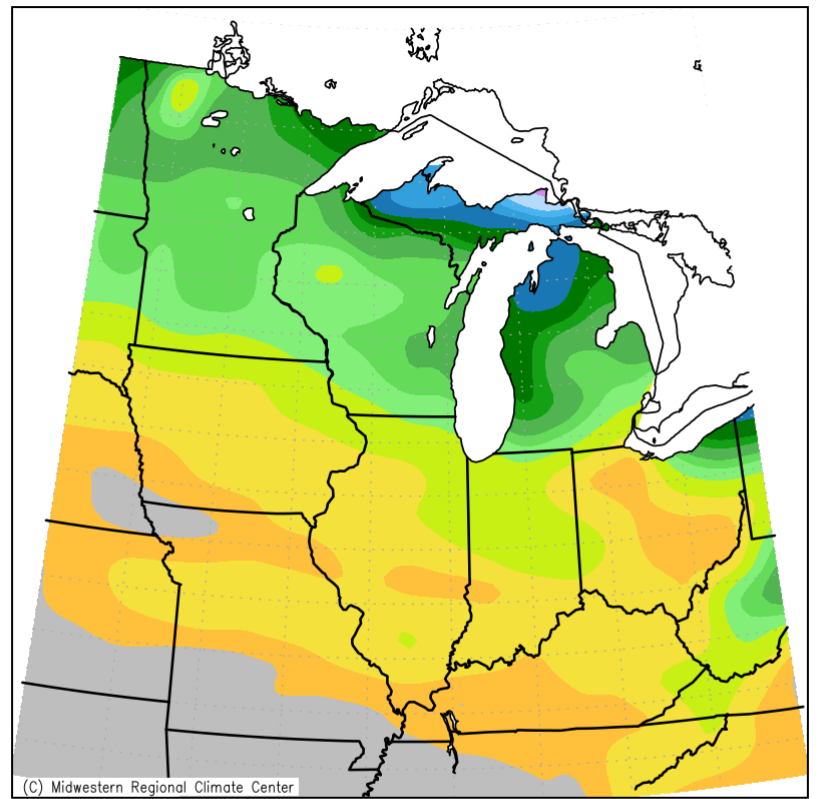
** Flint Bishop snowfall records date back to January 1921.

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

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

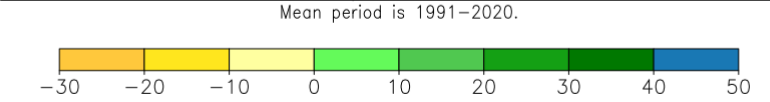
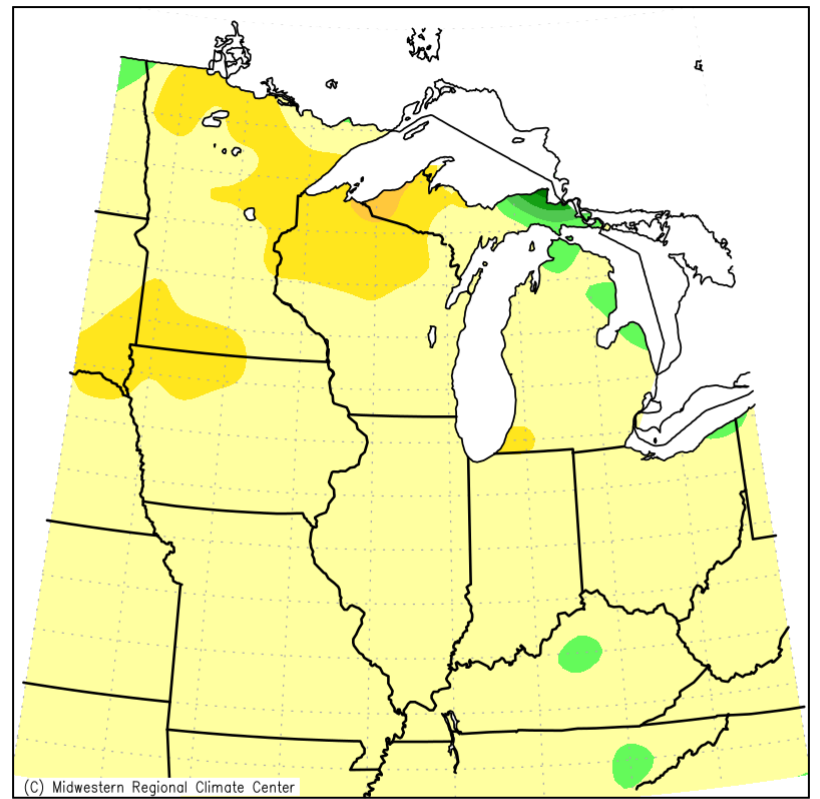
Total Snowfall (left) & Departure from Normal (right)

Accumulated Snowfall (in)
October 1, 2024 to December 31, 2024



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 1/6/2025 9:03:34 AM EST

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



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 1/6/2025 9:03:56 AM EST

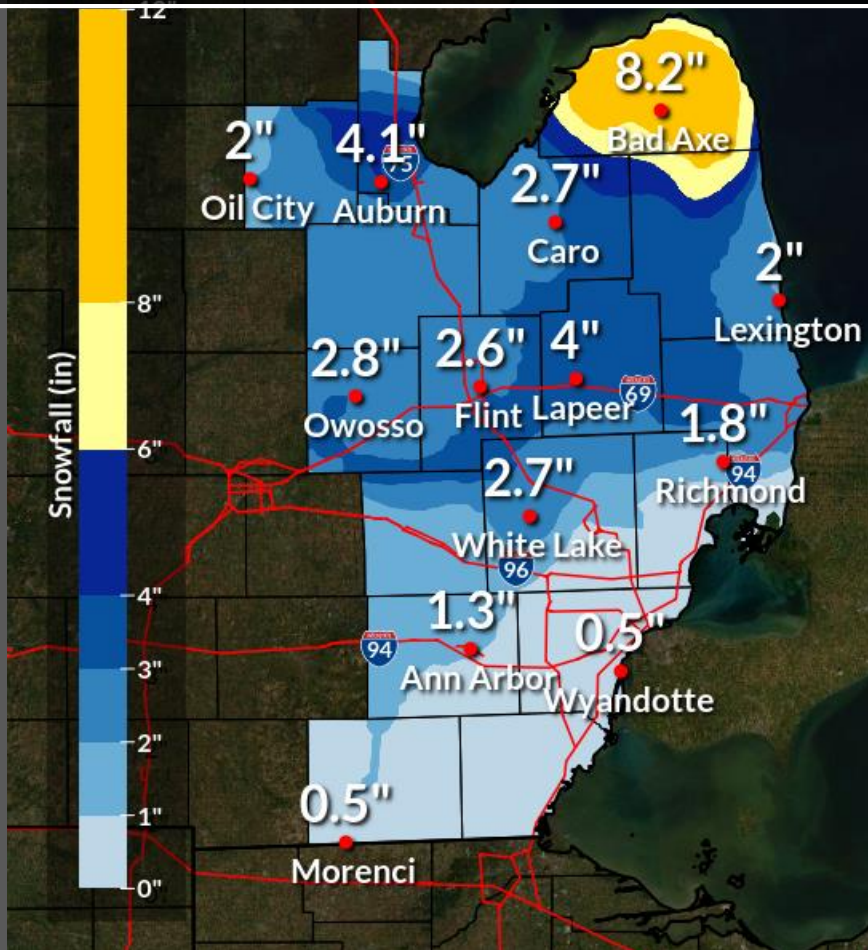
December 2024 – Significant Weather Events



Follow links for web summaries

December 4 Snow Squalls

weather.gov/dtx/2024-12-04-Snow-Squalls



December 23 Snow & Freezing Rain

weather.gov/dtx/2024-12-23-Snow-Freezing-Rain-Advisory

Location	Snowfall (Inches)	Duration (Hours)	Lat	Lon
...Bay County...				
Auburn	M 3.1	12	43.60N	84.08W
3 NW Bay City	M 3.6	14	43.62N	83.92W
...Genesee County...				
Burton	M 1.0	12	43.00N	83.62W
Flint	M 1.0	13	43.02N	83.69W
...Huron County...				
Filion	M 1.8	12	43.90N	83.00W
Port Austin	M 2.0	12	44.04N	83.00W
Bad Axe	M 4.1	12	43.80N	83.00W
...Lapeer County...				
Lapeer	M 1.5	12	43.05N	83.32W
5 W Lapeer	M 1.7	12	43.05N	83.42W
...Macomb County...				
Richmond	M 1.5	12	42.81N	82.75W
...Midland County...				
4 SE Midland	M 3.5	12	43.58N	84.17W
Oil City	M 3.6	12	43.61N	84.59W
...Oakland County...				
Lake Orion	M 2.1	12	42.78N	83.24W
...Saginaw County...				
Chesaning	M 1.0	12	43.18N	84.12W
Frankenmuth	M 1.8	12	43.33N	83.74W
Shields	M 2.0	12	43.42N	84.07W
8 NW Saginaw	M 2.5	12	43.50N	84.06W
Saginaw	M 3.5	12	43.42N	83.95W
...Sanilac County...				
Lexington	M 2.0	12	43.27N	82.53W
2 W Peck	M 2.3	12	43.26N	82.86W
...Tuscola County...				
Caro	M 3.5	12	43.49N	83.40W
Cass City	M 4.0	12	43.60N	83.18W



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

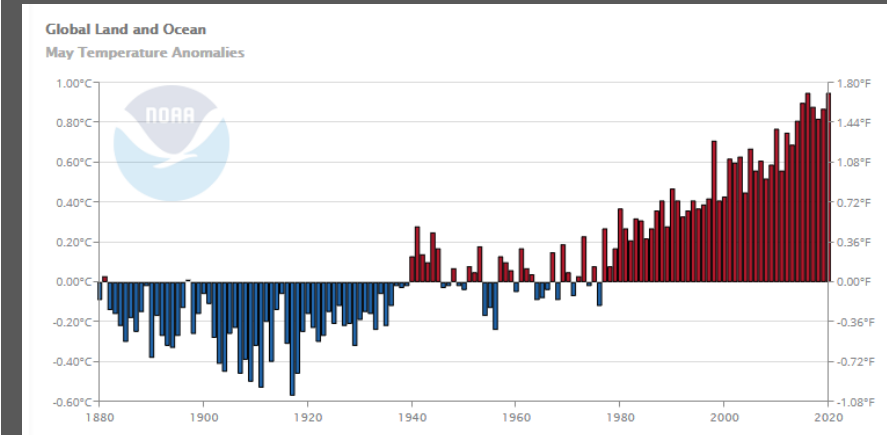
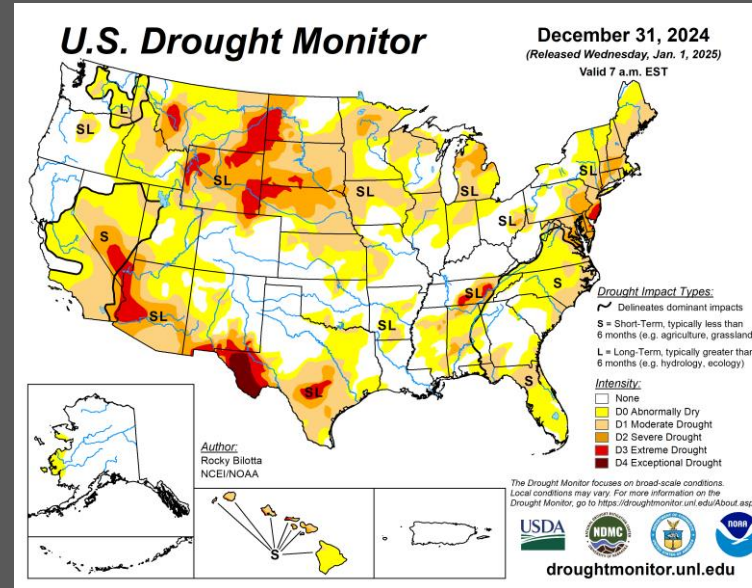
- ☑ Daily data for a month
- ☐ Daily almanac
- ☐ Monthly summarized data
- ☐ Calendar day summaries
- ☐ Daily/monthly normals
- ☐ Climatology for a day
- ☐ First/last dates
- ☐ Temperature graphs
- ☐ Accumulation graphs

Options 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

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!