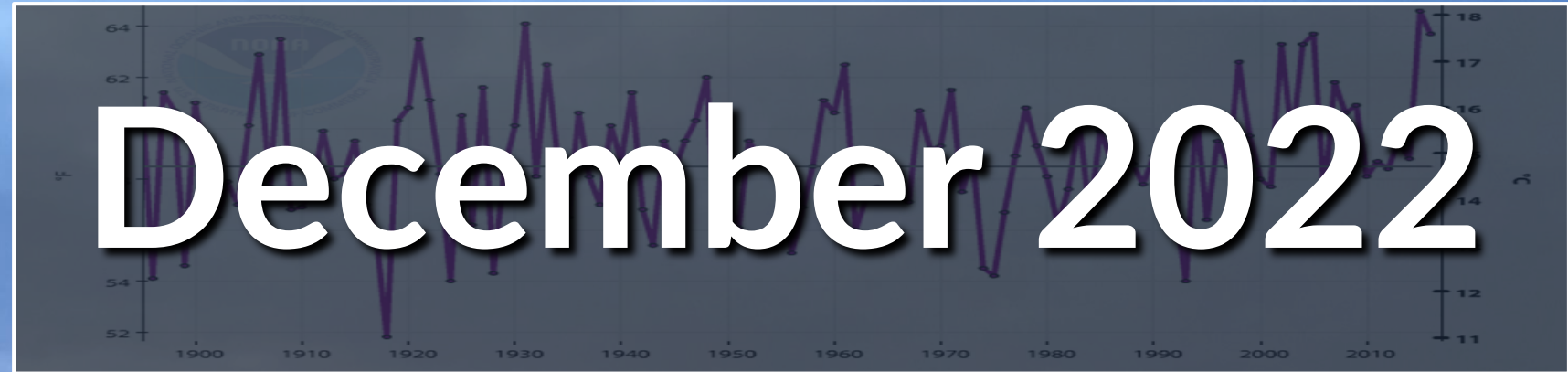


Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Weather Forecast Office
Detroit, MI



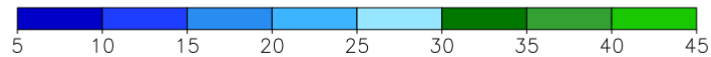
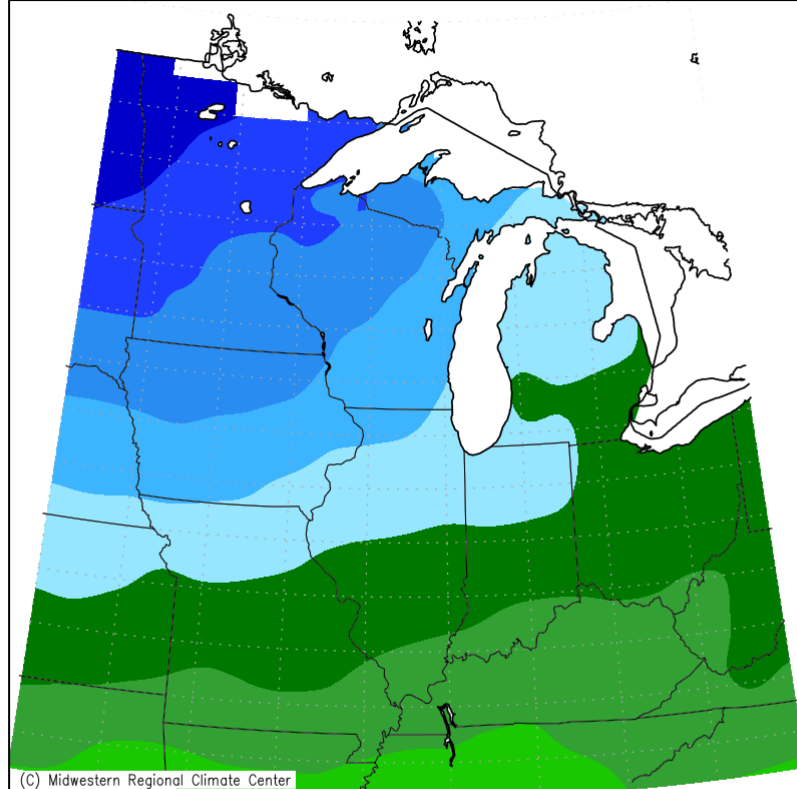
December 2022 – Regional Temperature Summary

Weather Forecast Office
Detroit, MI



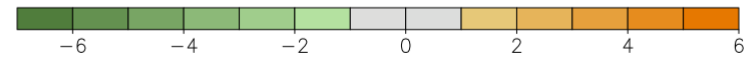
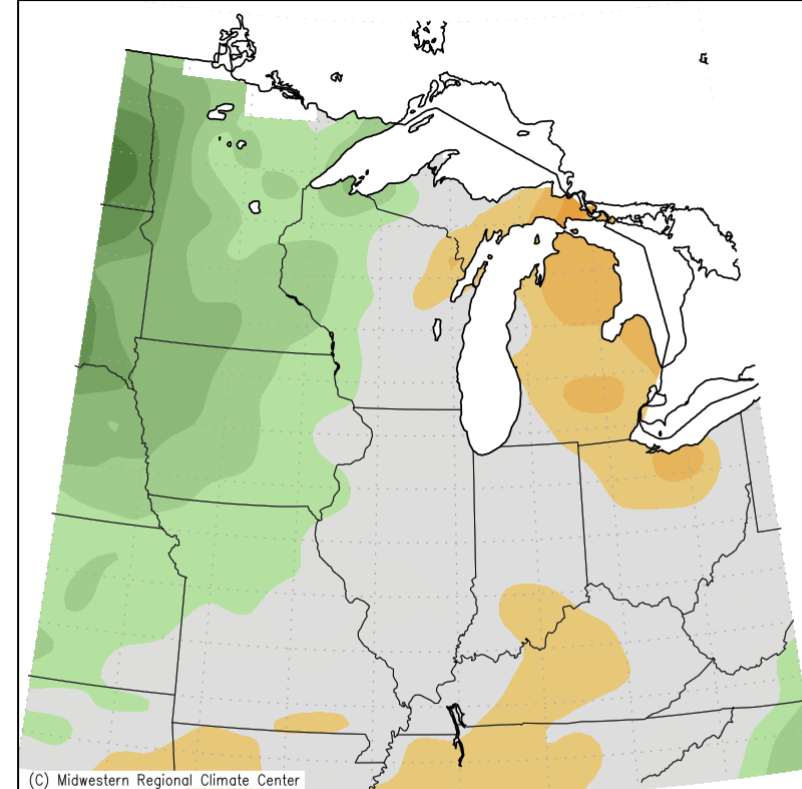
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)
December 1, 2022 to December 31, 2022




Midwestern Regional Climate Center
Purdue University

Average Temperature (°F): Departure from Mean
December 1, 2022 to December 31, 2022



Midwestern Regional Climate Center
Purdue University

December 2022 – 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	53	-3	36.6	25.6	31.1	GOODRICH	55	3	35.1	24.2	29.6		
ALGONAC WWTP	52	2	37.3	24.9	31.1	GROSSE POINTE FARMS	53	0	36.0	25.7	30.8		
ANN ARBOR SE	53	-1	36.5	24.2	30.3	LAPEER 2W	54	3	35.3	24.4	29.8		
ANN ARBOR U OF MICH	52	-1	37.3	25.3	31.3	LAPEER WWTP	55	4	35.3	24.7	30.0		
BAD AXE	55	6	34.6	24.5	29.6	MANCHESTER	53	-2	35.5	24.1	29.8		
CARO WWTP	56	5	34.4	24.8	29.6	MORENCI	52	-4	34.9	21.7	28.3		
CASS CITY 1 SSW	55	5	36.3	24.6	30.5	OWOSSO WWTP	53	4	34.1	23.9	29.0		
CHELSEA	53	-3	35.5	24.8	30.1	PONTIAC WWTP	54	1	35.8	25.1	30.5		
DEARBORN	55	0	36.6	25.9	31.2	PORT HURON	53	5	37.0	28.0	32.5		
DEARBORN NO. 2	56	0	38.1	26.4	32.3	RICHMOND 4 NNW	52	3	34.6	23.4	29.0		
DETROIT CITY AP	57	2	39.8	28.9	34.3	SAGINAW #3	54	5	35.0	24.6	29.8		
DETROIT METRO AIRPORT	55	0	38.3	27.3	32.8	SAGINAW MBS INTL AP	55	6	35.5	25.6	30.5		
DETROIT WILLOW RUN AP	55	0	37.2	25.9	31.6	SALINE 4SW	53	-1	35.8	24.4	30.1		
DUNDEE	55	-4	36.4	24.6	30.5	TECUMSEH	53	0	36.6	23.6	30.1		
FARMINGTON	54	-1	35.3	23.7	29.5	VASSAR	55	5	34.8	23.3	29.1		
FILION 5NNW	57	14	38.2	28.9	33.5	WHITE LAKE 4E	52	0	35.5	23.6	29.5		
FLINT 7W	54	4	34.0	23.7	28.8	WHITMORE LAKE 1NW	52	-2	34.0	23.4	28.7		
FLINT FCWOS	55	4	36.3	25.9	31.1								

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	37.2	1982	17.2	2000	35.3	1923
3	19.2	2000	39.3	1889	17.4	1976	36.8	1923	18.8	1983	34.5	1982
4	20.8	1983	38.1	1877	17.8	1958	35.4	2006	18.9	1976	34.4	2006
5	21.5	1976	37.7	1923	20.1	1983	35.4	1965	19.0	1958	34.2	1931
6	21.8	1917	37.4	2006	20.5	1944	34.7	1931	19.1	1917	34.1	2012
7	21.9	1880	37.3	1982	20.8	1963	34.4	2021	19.5	1919	33.5	2001
8	22.2	1985	37.2	2021	21.3	1985	34.2	2019	20.1	1963	33.4	2021
9	22.4	1958	37.2	1931	21.7	1960	34.1	2001	21.0	1924	33.4	1941
10	22.5	1903	36.3	1918	22.2	1945	33.6	1941	21.3	1944	33.0	2011
11	22.8	1878	35.9	2012	22.4	1950	33.5	2012	21.5	1960	33.0	1965
12	23.0	1909	35.9	1965	22.6	2017	33.4	1984	21.6	1985	32.8	1936
13	23.1	1919	35.8	2001	22.9	1962	33.3	2011	22.0	1980	32.5	2019
14	23.2	1924	35.8	1891	23.0	1995	33.1	2020	22.0	1914	32.3	1994
15	23.3	1910	35.5	2011	23.1	1942	32.8	2014	22.2	1962	32.2	1913
16	23.8	1963	35.5	1941	23.2	1924	32.8	1939	22.4	1926	32.1	2014
17	23.8	1914	35.4	1994	23.9	1937	32.4	1971	22.5	1950	32.0	1998
18	23.9	1886	35.3	1998	24.0	1926	32.3	1998	22.5	1945	32.0	1918
19	24.7	1945	35.1	2019	24.3	2010	32.2	1987	22.5	1942	31.7	2020
20	24.8	1944	34.8	1956	24.3	2005	32.1	2003	22.8	2013	31.5	1959

* 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.

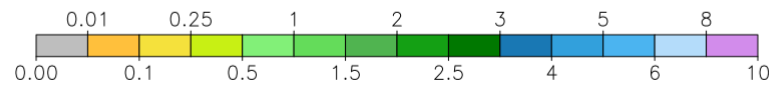
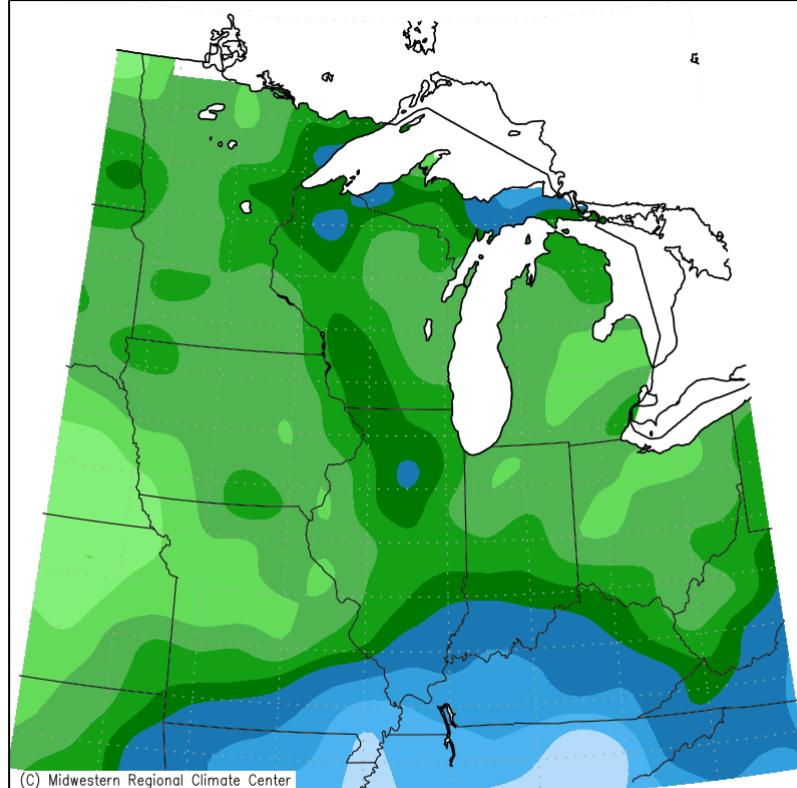
December 2022 – Regional Precipitation Summary

Weather Forecast Office
Detroit, MI



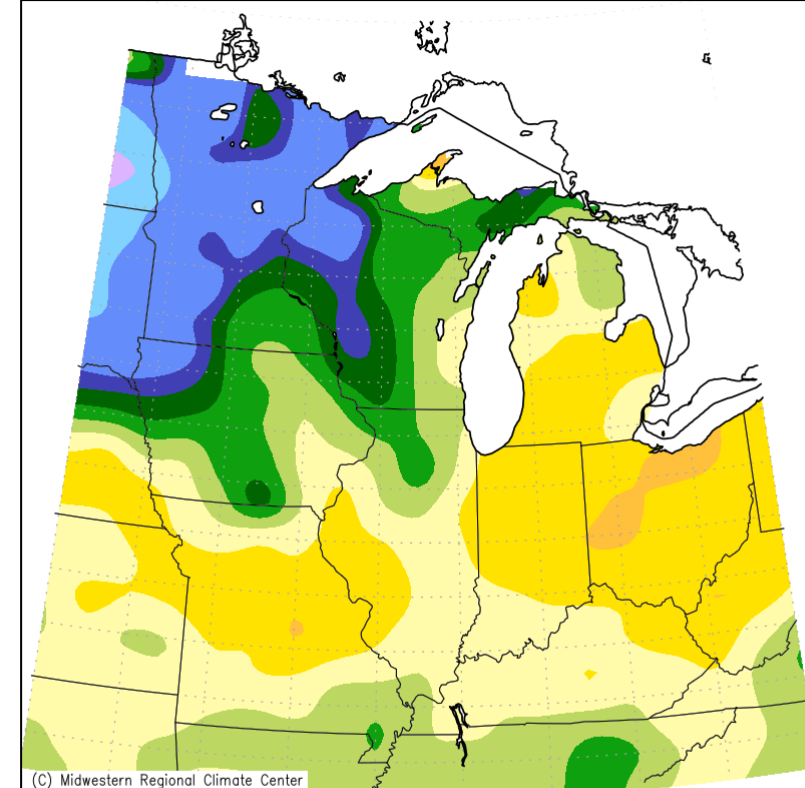
Total Monthly Precipitation (left) & Percent of Mean (right)

Accumulated Precipitation (in)
December 1, 2022 to December 31, 2022

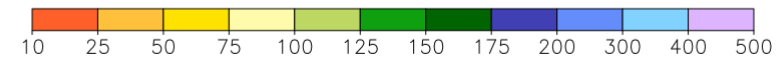


Midwestern Regional Climate Center
Purdue University


Accumulated Precipitation: Percent of Mean
December 1, 2022 to December 31, 2022



Mean period is 1991–2020.



Midwestern Regional Climate Center
Purdue University

December 2022 – 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
ALGONAC WWTP	0.96	2.19	10	GROSSE POINTE FARMS	1.05	2.30	8
ANN ARBOR SE	0.92	2.19	10	LAPEER 2W	0.42	1.70	15
ANN ARBOR U OF MICH	0.79	2.18	12	LAPEER WWTP	0.33	1.46	15
BAD AXE	0.44	1.74	16	MANCHESTER	0.94	2.06	9
CARO WWTP	0.42	1.15	11	OWOSSO WWTP	0.44	1.25	13
CASS CITY 1 SSW	0.30	1.05	13	PONTIAC WWTP	0.67	1.94	12
CHELSEA	0.65	1.67	12	PORT HURON	0.38	1.70	9
CHESANING	0.53	1.12	9	RICHMOND 4 NNW	0.73	1.73	9
DEARBORN	1.05	2.49	9	SAGINAW 8NW	0.49	1.28	9
DETROIT METRO AIRPORT	0.74	2.34	10	SAGINAW #3	0.44	1.27	12
DUNDEE	0.82	1.28	8	SAGINAW MBS INTL AP	0.42	0.99	10
DURAND WWTP	0.40	1.23	10	VASSAR	0.36	1.24	9
FARMINGTON	0.82	2.07	7	WHITE LAKE 4E	0.34	1.44	11
FILION 5NNW	0.57	1.64	16	WHITMORE LAKE 1NW	0.74	2.12	11
FLINT FCWOS	0.21	0.83	12	WYANDOTTE	1.09	2.31	8
GOODRICH	0.44	1.20	11				

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	1942	1.10	1922	2.93	1929	0.94	1915
20	3.59	1968	1.23	1880	2.64	1978	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.

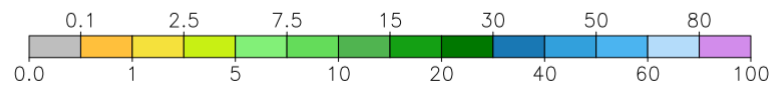
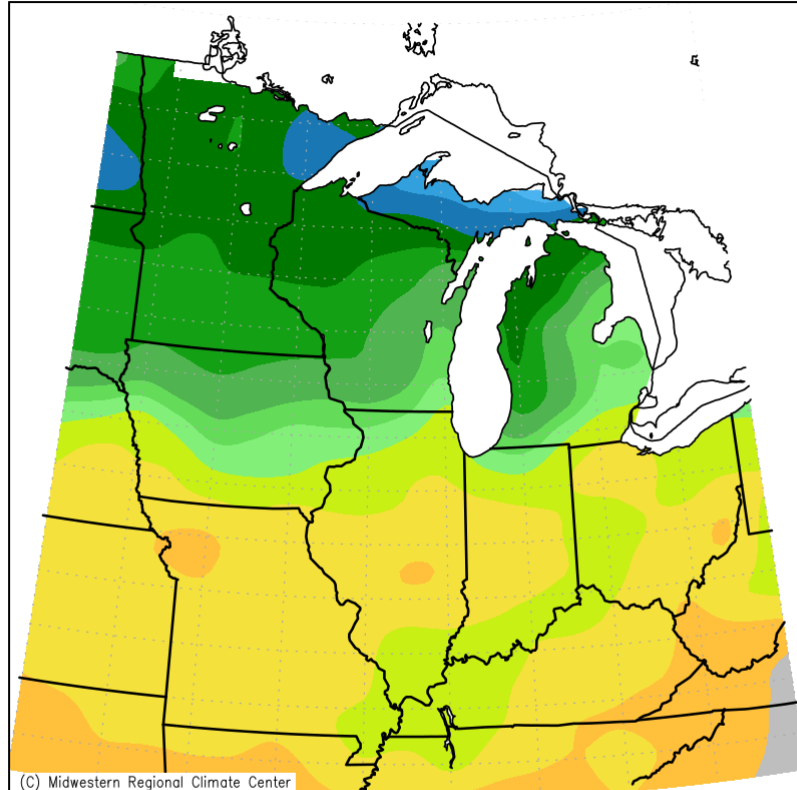
December 2022 – Regional Snowfall Summary

Weather Forecast Office
Detroit, MI



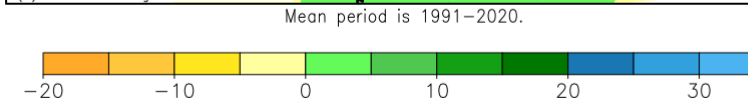
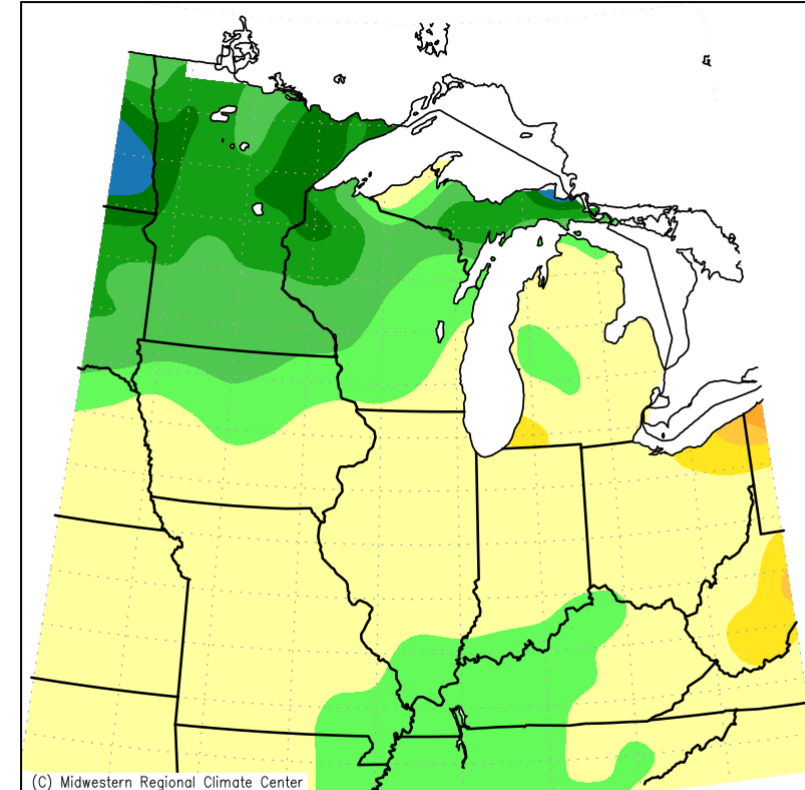
Total Monthly Snowfall (*left*) & Departure from Normal (*right*)

Accumulated Snowfall (in)
December 1, 2022 to December 31, 2022



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 1/3/2023 10:37:16 AM CST

Accumulated Snowfall (in): Departure from Mean
December 1, 2022 to December 31, 2022



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 1/3/2023 10:38:49 AM CST

December 2022 – 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	1.0	1.2	2	LAPEER 2W	3.1	10.1	9
ANN ARBOR SE	2.1	6.8	8	LAPEER WWTP	4.0	14.2	7
ANN ARBOR U OF MICH	3.0	7.2	7	LINDEN WWTP	2.0	4.5	4
AUBURN 2NE	5.0	6.4	5	MANCHESTER	2.4	3.1	4
BAD AXE	1.5	6.2	8	MILLINGTON 3 SE	2.9	7.1	5
BURTON 4N	1.2	5.9	7	MORENCI	1.0	1.3	2
CARO WWTP	7.3	13.0	7	NEW BALTIMORE 0.4 SSE	2.0	3.2	3
CASS CITY 1 SSW	1.0	4.5	5	OIL CITY 2S	4.4	6.0	4
CHELSEA	2.0	3.9	5	OWOSSO WWTP	3.5	10.3	7
CHESANING	2.9	3.8	4	PONTIAC WWTP	2.0	4.3	6
DETROIT METRO AIRPORT	2.2	5.0	6	PORT HURON	0.5	0.6	2
DUNDEE	1.0	1.1	2	RICHMOND 4 NNW	1.6	4.2	5
DURAND WWTP	3.0	5.5	3	SAGINAW 8NW	3.5	5.4	5
FARMINGTON	1.6	2.9	4	SAGINAW #3	2.0	4.5	6
FILION 5NNW	2.0	6.5	9	SAGINAW MBS INTL AP	2.8	5.1	8
FLINT 7W	2.5	9.0	7	VASSAR	2.0	6.7	6
FLINT FCWOS	4.0	9.0	9	WHITE LAKE 4E	2.1	6.9	9
GOODRICH	2.3	5.2	7	WHITMORE LAKE 1NW	2.0	5.1	5
GROSSE POINTE FARMS	1.2	4.2	4	WYANDOTTE	1.8	5.1	6
HARBOR BEACH 1 SSE	2.1	3.5	4				

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	2014	29.1	2008	0.6	2014	39.1	2008	0.9	2014
3	25.1	2000	0.4	1894	27.7	1929	1.1	1939	26.7	1929	1.0	1993
4	24.0	1951	0.5	2018	24.9	1951	1.4	1921	24.0	1951	1.0	1939
5	22.5	2017	0.9	1943	23.3	2017	2.2	1955	22.6	2007	1.5	1941
6	22.5	1895	1.2	1998	22.2	2005	2.2	1936	21.9	1972	1.8	2018
7	21.4	2008	1.3	2015	21.3	1974	2.4	1967	20.1	1989	2.4	1912
8	20.8	1886	1.3	1931	21.1	1975	2.5	2015	19.9	1947	2.7	1923
9	20.1	1910	1.4	1982	20.2	2016	2.5	1979	19.7	1968	2.8	2006
10	19.9	1983	1.4	1888	20.0	1983	2.6	1928	19.5	1978	2.8	1948
11	19.8	2005	1.6	1965	19.9	1970	3.2	1931	19.3	1954	2.8	1928
12	19.8	1975	1.6	1936	18.3	1973	3.4	1998	18.9	2013	2.9	1958
13	17.3	1981	1.9	1993	18.3	1972	3.5	1993	18.5	2005	3.0	1960
14	16.8	2016	2.0	1918	17.6	1976	3.6	1982	18.1	1980	3.4	1961
15	16.6	1977	2.0	1939	17.1	2007	3.7	1948	18.0	1937	3.4	1979
16	16.6	1893	2.0	1900	16.9	2013	3.8	2018	17.7	1996	3.4	1922
17	16.4	1973	2.3	1979	16.7	1991	4.0	1941	16.7	2004	3.6	1969
18	16.1	1884	2.4	2006	13.8	1980	4.3	2006	16.6	2016	3.6	1950
19	16.0	1898	2.6	1971	13.7	2004	4.4	2011	16.3	1962	4.1	2020
20	15.5	2013	2.6	1928	13.2	1985	4.4	1924	14.2	1995	4.2	2015

* Detroit Area snowfall records date back to January 1880.

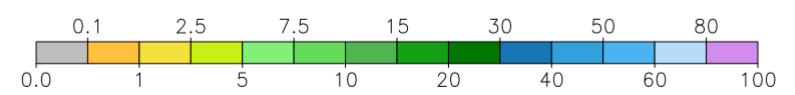
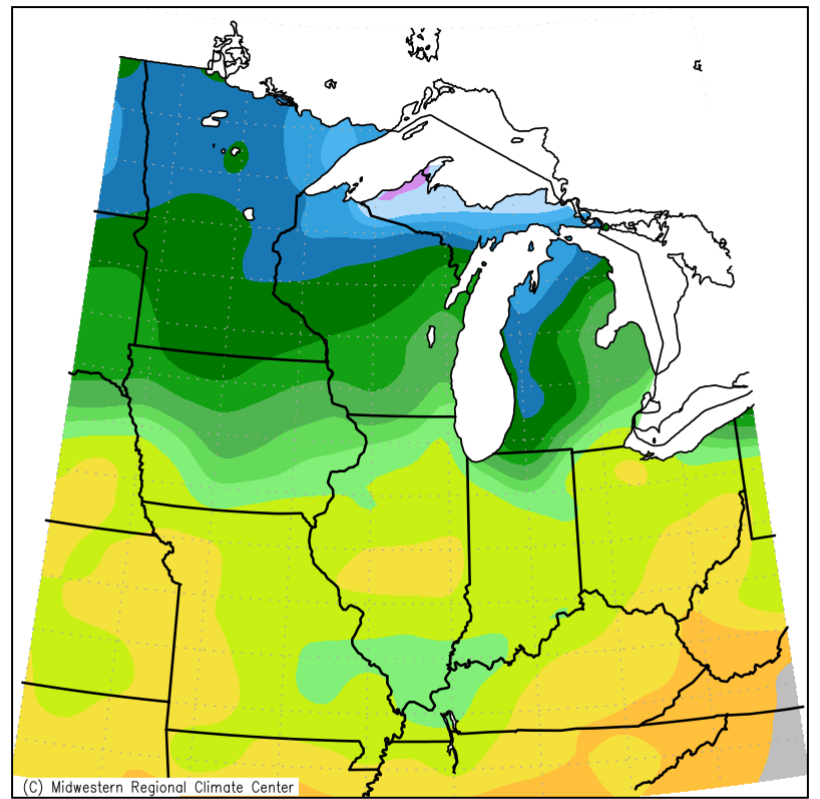
** Flint Bishop snowfall records date back to January 1921.

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

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

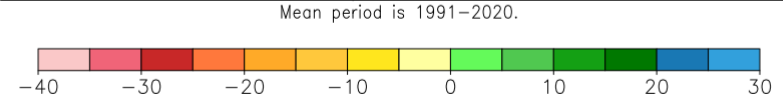
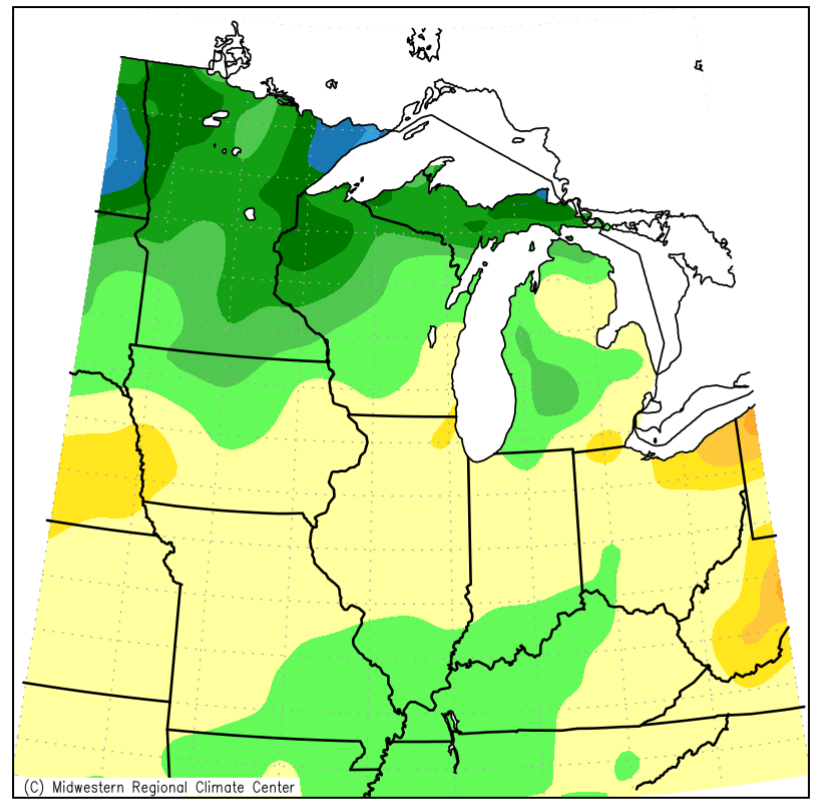
Total Snowfall (left) & Departure from Normal (right)

Accumulated Snowfall (in)
October 1, 2022 to December 31, 2022



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 1/3/2023 10:40:36 AM CST

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



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 1/3/2023 10:42:29 AM CST

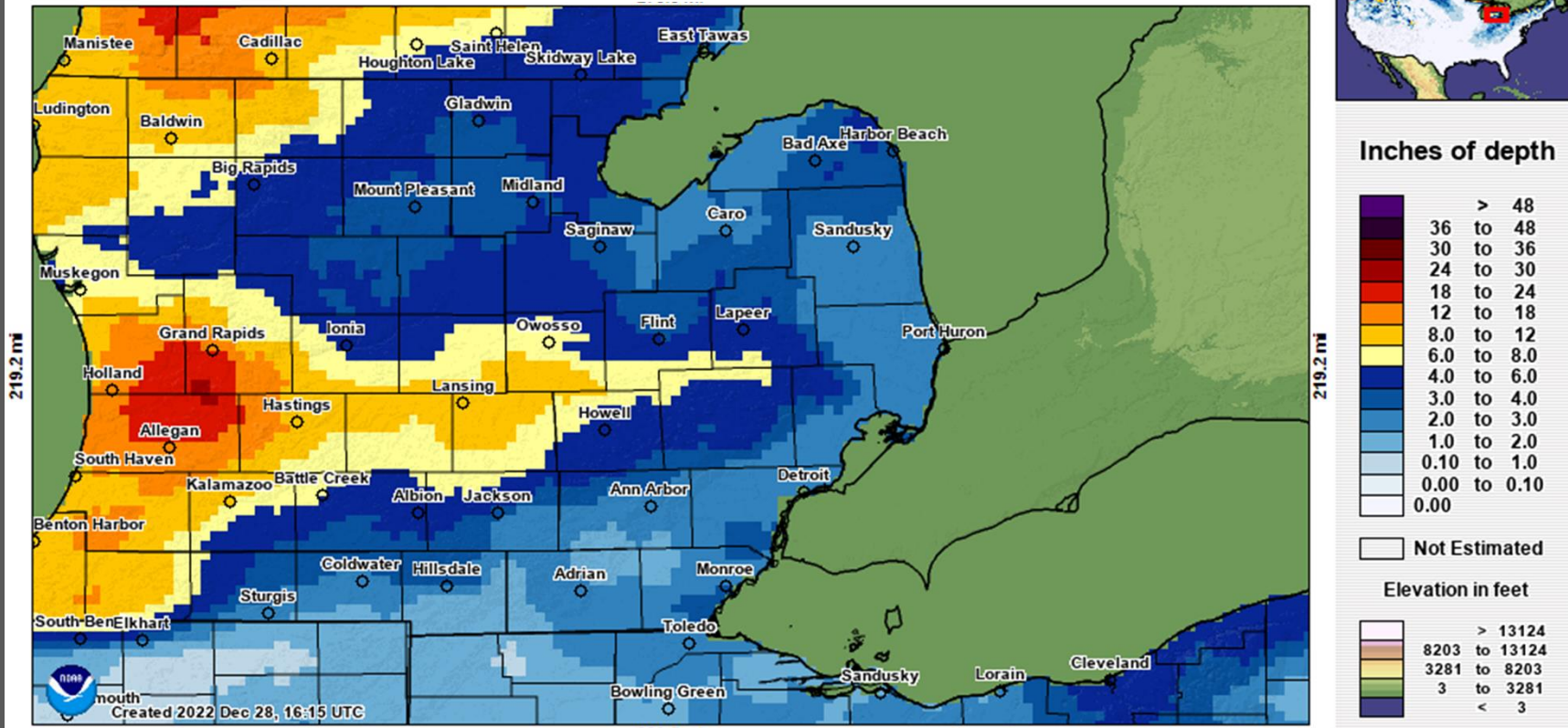
December 2022 – Significant Weather Events



Follow links for web summaries

December 22-25 Winter Storm weather.gov/dtx/December-22-25-2022-Winter-Storm

National Gridded Snowfall Analysis during 72h preceding 2022 December 26, 0:00 UTC





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

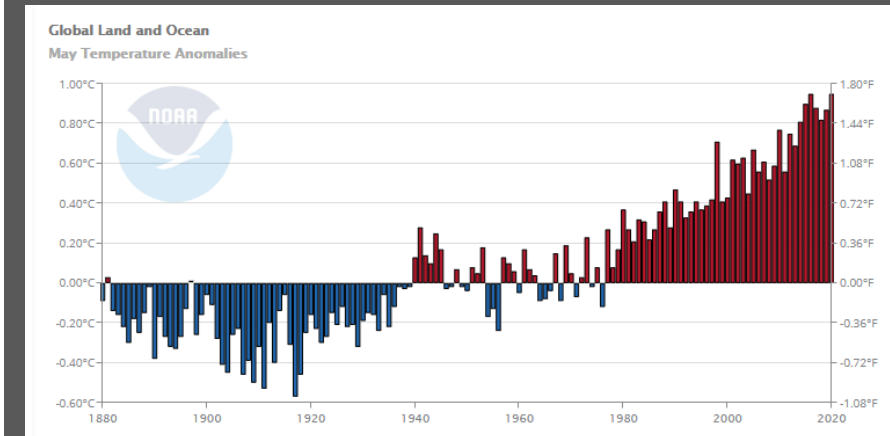
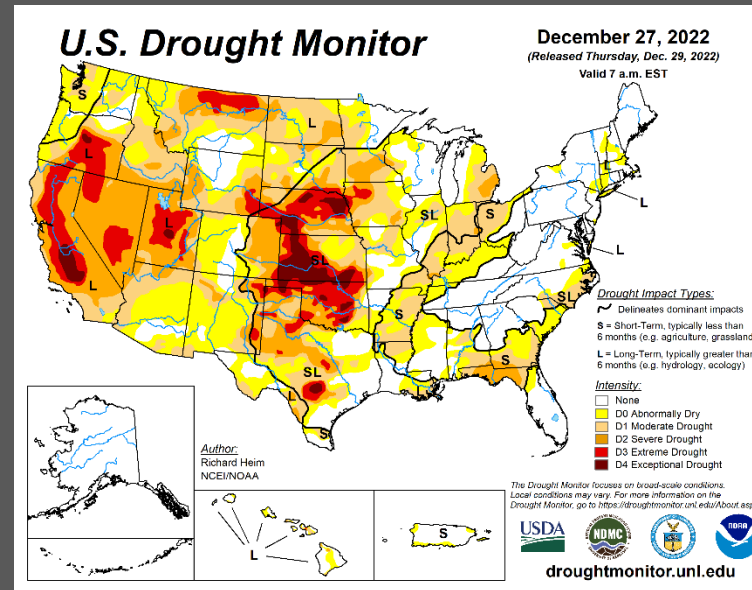
Product Description:

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

ncdc.noaa.gov/cag/

Thank you to our COOP and CoCoRaHS volunteer weather observers!