

Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Weather Forecast Office
Detroit, MI



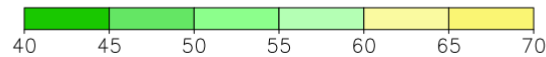
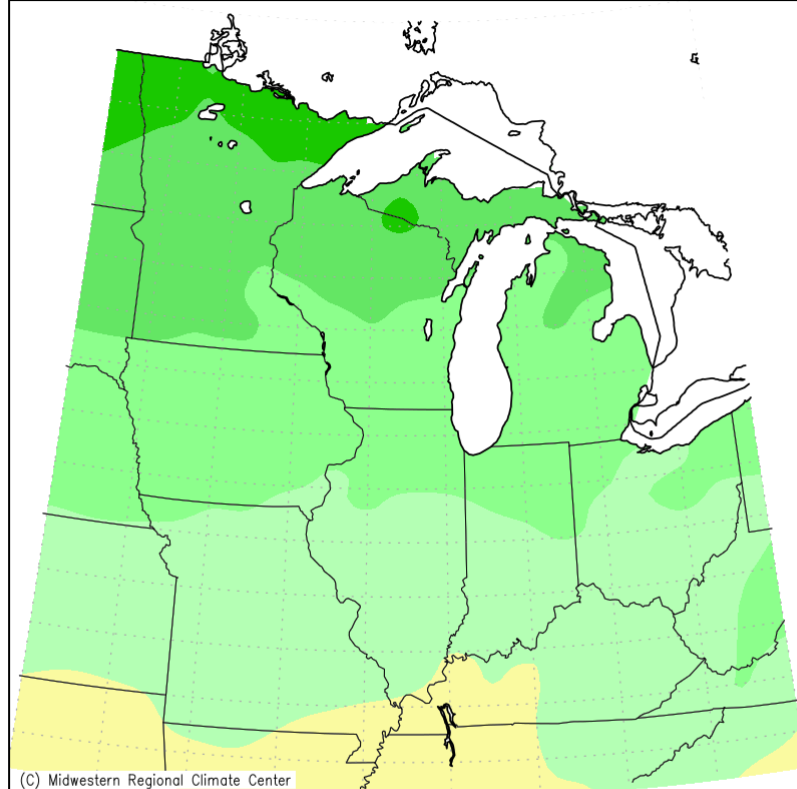
October 2023 – Regional Temperature Summary

Weather Forecast Office
Detroit, MI



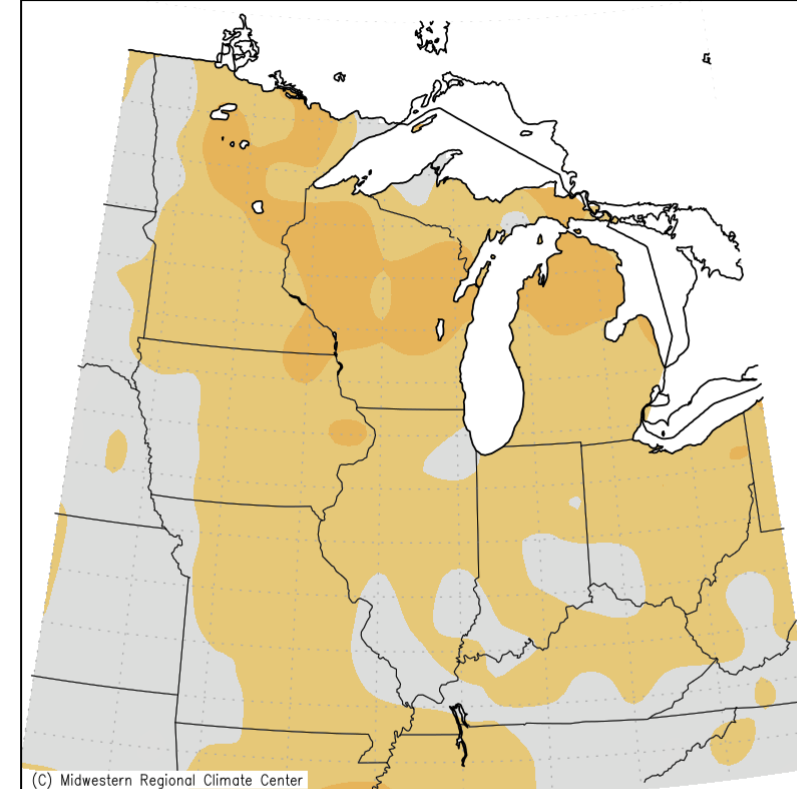
Average Temperature (left) & Departure from Average (right)

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



Midwestern Regional Climate Center
Purdue University

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



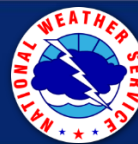
Mean period is 1991–2020.



Midwestern Regional Climate Center
Purdue University

October 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 2 NNE	86	26	62.2	44.5	53.4	GROSSE POINTE FARMS	84	27	61.7	46.9	54.3
ADRIAN LENAWEE COUNTY AP	87	26	62.7	45.8	54.2	HARBOR BEACH 1 SSE	80	27	59.8	46.7	53.2
ALGONAC WWTP	87	25	63.5	44.5	54.0	LAPEER 2W	85	23	60.2	44.1	52.2
ANN ARBOR MUNICIPAL AP	84	20	61.1	42.2	51.7	LAPEER WWTP	86	26	61.2	44.5	52.8
ANN ARBOR SE	86	23	62.2	43.6	52.9	LEXINGTON WATER PLANT	81	25	60.5	46.7	53.6
ANN ARBOR U OF MICH	85	22	62.4	44.2	53.3	MANCHESTER	86	26	62.8	43.8	53.3
BAD AXE	84	26	59.8	45.3	52.5	MIDLAND	81	25	57.2	42.3	49.7
BURTON 4N	86	23	61.2	43.8	52.5	MORENCI	85	24	62.5	43.0	52.8
CARO WWTP	86	23	61.0	43.9	52.4	OIL CITY 2S	82	24	59.5	41.2	50.4
CASS CITY 1 SSW	84	24	60.8	43.3	52.0	OWOSSO WWTP	85	26	60.9	44.4	52.6
CHELSEA	86	24	61.6	44.6	53.1	PONTIAC INTL AP	84	25	59.7	45.9	52.8
DEARBORN	86	26	63.2	46.6	54.9	PONTIAC WWTP	85	26	62.5	46.8	54.6
DEARBORN NO. 2	86	27	63.7	48.2	56.1	PORT AUSTIN WWTP	82	28	58.9	46.0	52.5
DETROIT CITY AP	86	30	63.8	49.8	56.8	PORT HOPE	84	29	60.8	49.2	55.0
DETROIT METRO AIRPORT	83	27	61.9	47.3	54.6	PORT HURON	84	28	60.9	48.8	54.8
DETROIT WILLOW RUN AP	87	26	61.9	45.4	53.7	RICHMOND 4 NNW	84	22	62.5	45.3	53.9
DUNDEE	86	27	62.7	44.5	53.6	SAGINAW #3	86	27	61.1	44.7	52.9
FARMINGTON	86	24	61.3	43.9	52.6	SAGINAW MBS INTL AP	86	26	61.0	45.3	53.1
FILION 5NNW	85	32	61.5	48.3	54.9	SALINE 4SW	87	23	63.6	43.4	53.5
FLINT 7W	83	29	61.2	44.5	52.8	TECUMSEH	86	27	61.9	43.9	52.9
FLINT FCWOS	85	24	60.8	44.9	52.8	WHITE LAKE 4E	85	22	60.0	43.6	51.8
GOODRICH	88	25	60.5	44.7	52.6	WHITMORE LAKE 1NW	85	25	60.6	43.5	52.1

October – Top 20 Coldest/Warmest on Record

Weather Forecast Office
Detroit, MI



Top 20 Coldest/Warmest Octobers 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	44.5	1925	62.7	1963	42.5	1925	59.4	1947	40.6	1925	58.5	1963
2	44.9	1917	60.3	1947	44.3	1980	58.6	2021	42.1	1917	58.2	1947
3	45.3	1895	60.0	1900	44.5	1952	58.2	1963	43.7	1972	58.1	1971
4	45.8	1876	59.5	1920	44.7	1981	57.6	1971	43.9	1988	57.7	2021
5	46.0	1988	59.5	1879	44.8	1988	57.3	2007	44.1	1952	57.5	1920
6	46.3	1980	59.4	2021	45.2	1987	55.9	1924	44.6	1980	56.8	2007
7	46.4	1875	59.1	2007	46.0	2006	55.7	1946	44.7	1981	55.9	2017
8	46.5	1987	58.5	1971	46.1	1964	55.7	1938	45.6	1987	55.7	1931
9	47.0	1889	58.2	1946	46.2	1972	55.6	1949	46.1	2006	55.2	1956
10	47.0	1888	57.6	1882	46.8	1976	55.3	1973	46.1	2002	55.0	1973
11	47.3	1972	57.5	1956	47.3	1993	55.1	1956	46.4	1976	54.6	1914
12	47.3	1909	57.5	1931	47.3	1957	55.1	1931	46.5	1977	54.3	1946
13	47.3	1976	57.4	1949	47.4	2009	54.6	2017	46.9	1926	54.2	1938
14	47.3	1907	57.4	1924	47.6	2002	54.4	1950	47.1	1992	54.1	1927
15	47.5	1981	57.3	2017	47.6	1966	54.0	1984	47.2	1964	54.1	1924
16	47.6	1896	57.0	1881	47.7	2008	53.8	2015	47.5	1945	54.0	2016
17	47.9	1977	56.8	1953	47.9	1945	53.7	1953	47.5	1943	53.8	1949
18	48.0	1887	56.7	1927	48.0	1997	53.6	1975	47.7	2009	53.5	1975
19	48.1	1952	56.6	1914	48.0	1937	53.6	1928	47.8	1993	53.5	1970
20	48.6	1880	56.5	1919	48.1	1992	53.5	2000	47.8	1978	53.5	1928

* 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.

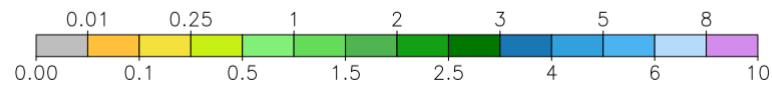
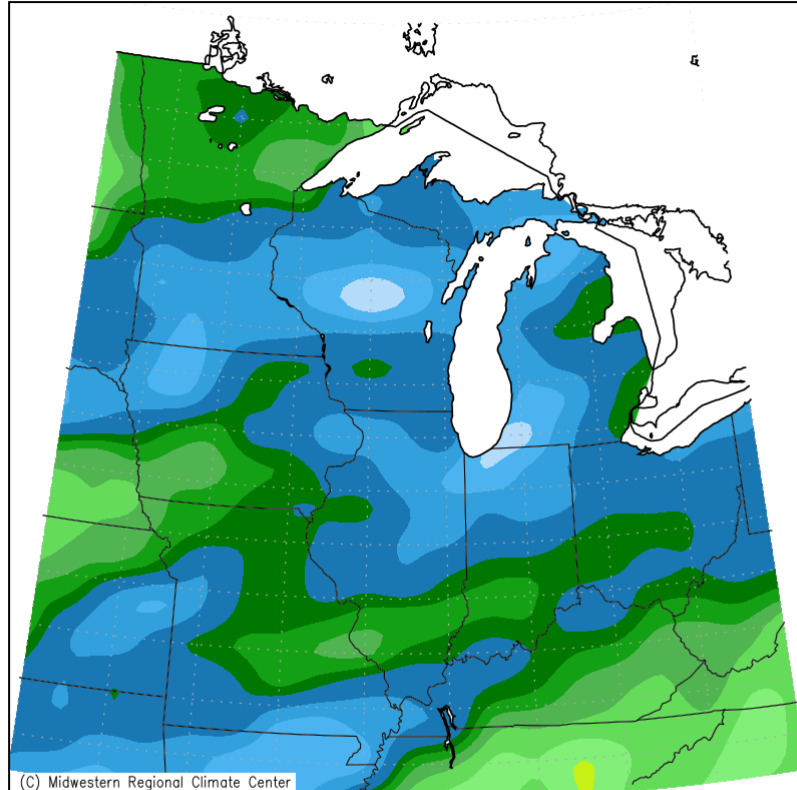
October 2023 – Regional Precipitation Summary

Weather Forecast Office
Detroit, MI



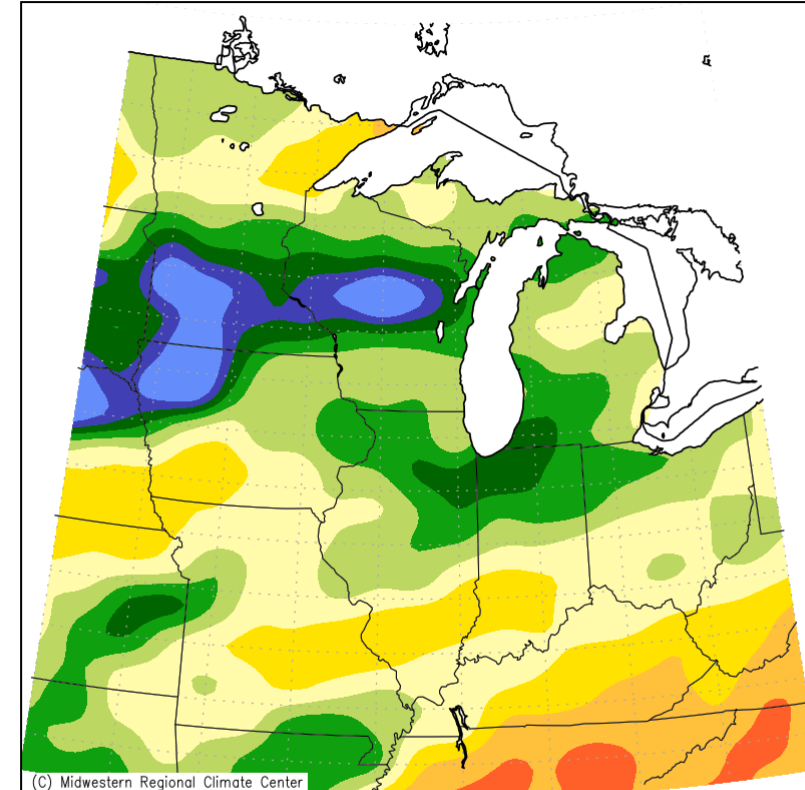
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

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

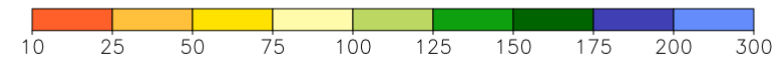


Midwestern Regional Climate Center
Purdue University

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



Mean period is 1991–2020.



Midwestern Regional Climate Center
Purdue University

October 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 2 NNE	1.35	3.77	16	HARBOR BEACH 1 SSE	0.51	3.02	16
ADRIAN LENAWEE CO AP	0.72	2.98	15	LAPEER 2W	0.90	3.70	19
ALGONAC WWTP	0.42	2.36	14	LAPEER WWTP	0.90	3.66	15
ANN ARBOR MNCPL AP	0.66	1.47	11	LEXINGTON WATER PLANT	0.60	3.86	16
ANN ARBOR SE	0.94	2.67	15	MANCHESTER	0.87	3.19	15
ANN ARBOR U OF MICH	0.83	2.76	18	MIDLAND	0.91	3.51	17
BAD AXE	0.55	2.83	16	MORENCI	0.75	3.35	14
BURTON 4N	0.83	4.04	16	OWOSSO WWTP	1.12	5.09	18
CARO WWTP	0.55	2.87	17	PONTIAC INTL AP	0.74	2.51	18
CASS CITY 1 SSW	0.45	2.75	15	PONTIAC WWTP	0.93	2.81	18
CHELSEA	1.03	3.26	17	PORT AUSTIN WWTP	0.75	3.47	17
DEARBORN	0.61	2.66	13	PORT HOPE	0.62	2.62	20
DEARBORN NO. 2	0.52	1.51	14	PORT HURON	0.50	2.77	12
DETROIT METRO AIRPORT	0.70	2.10	15	RICHMOND 4 NNW	0.57	1.88	12
DETROIT WILLOW RUN AP	0.95	2.08	11	SAGINAW 8NW	0.76	3.17	14
DUNDEE	0.88	2.92	12	SAGINAW #3	0.76	3.37	17
DURAND WWTP	1.05	4.42	20	SAGINAW MBS INTL AP	0.88	3.21	17
FARMINGTON	1.08	2.91	14	SALINE 4SW	1.00	3.00	15
FLINT 7W	0.97	4.63	15	TECUMSEH	1.13	3.44	15
FLINT FCWOS	0.90	4.05	16	WHITE LAKE 4E	1.01	3.39	18
GOODRICH	0.74	3.18	15	WHITMORE LAKE 1NW	0.89	3.42	9
GROSSE POINTE FARMS	0.48	2.50	13	WYANDOTTE	0.58	2.39	14

October – Top 20 Wettest/Driest on Record

Weather Forecast Office
Detroit, MI



Top 20 Wettest/Driest Octobers 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	7.80	1954	0.13	2005	6.59	2001	0.13	1923	7.78	1954	0.18	1952
2	6.76	2001	0.30	1892	6.33	2019	0.33	2005	7.49	2019	0.28	1956
3	6.52	1881	0.47	1924	5.52	1941	0.33	1944	5.57	1990	0.38	1924
4	5.67	1890	0.50	1964	5.45	2021	0.38	1956	5.33	1962	0.46	1975
5	5.50	1949	0.51	1963	4.72	1921	0.57	1982	5.29	1951	0.48	1982
6	5.45	1880	0.56	1895	4.69	2017	0.58	1963	5.29	1941	0.64	1944
7	5.25	2021	0.61	1956	4.21	1954	0.59	1952	5.08	2006	0.68	1963
8	4.98	1919	0.63	1953	4.20	1929	0.61	1964	4.96	1932	0.72	1938
9	4.96	1951	0.73	1944	4.13	1932	0.63	1938	4.76	1933	0.75	1915
10	4.87	1967	0.78	1915	4.06	1990	0.81	1935	4.73	1929	0.78	1978
11	4.83	1957	0.78	1874	4.05	2023	0.87	1948	4.45	2017	0.99	2003
12	4.77	1893	0.81	1974	3.98	1940	0.88	1966	4.45	1969	0.99	1964
13	4.72	1877	0.83	1879	3.96	1933	0.95	1924	4.28	1942	1.01	1948
14	4.61	1959	0.86	1904	3.95	1951	1.05	1930	4.19	2009	1.02	1946
15	4.45	1955	0.94	1938	3.73	1972	1.06	1965	4.11	1957	1.06	1931
16	4.41	2019	1.01	1982	3.69	2018	1.23	1953	4.04	1928	1.18	1939
17	4.35	1925	1.01	1971	3.66	1928	1.25	1958	4.03	1993	1.22	1923
18	4.30	1911	1.04	1886	3.65	1957	1.26	2008	4.01	2001	1.23	2000
19	4.20	1906	1.05	1889	3.59	2006	1.27	2002	3.99	1998	1.26	1999
20	4.14	1991	1.06	2022	3.53	1942	1.28	1934	3.99	1959	1.26	1935

* Detroit Area precipitation records date back to November 1874.

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

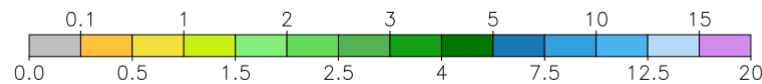
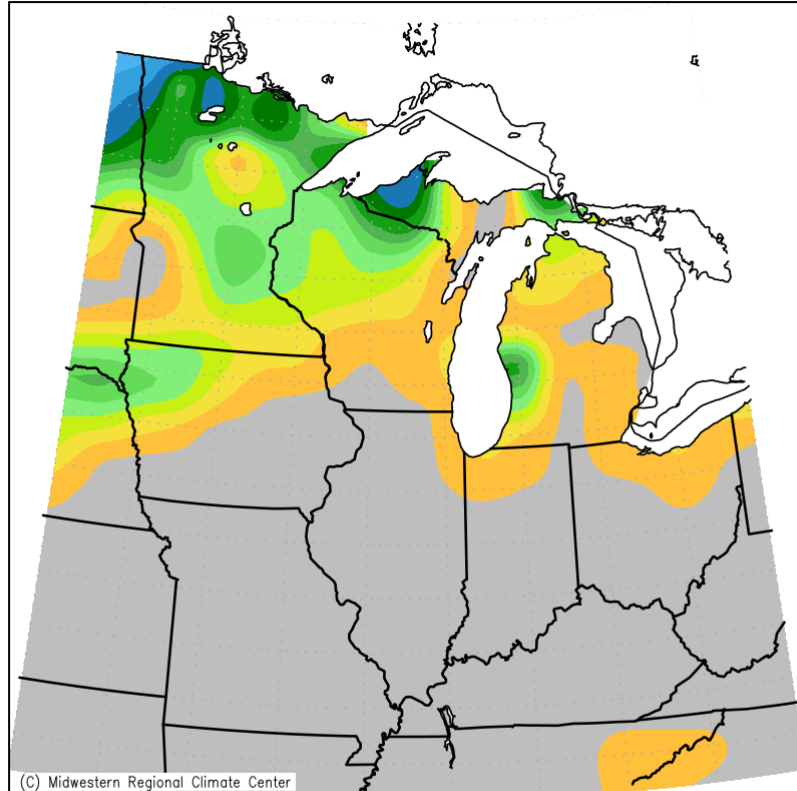
*** Saginaw Area precipitation records date back to January 1912.

October 2023 – Regional Snowfall Summary



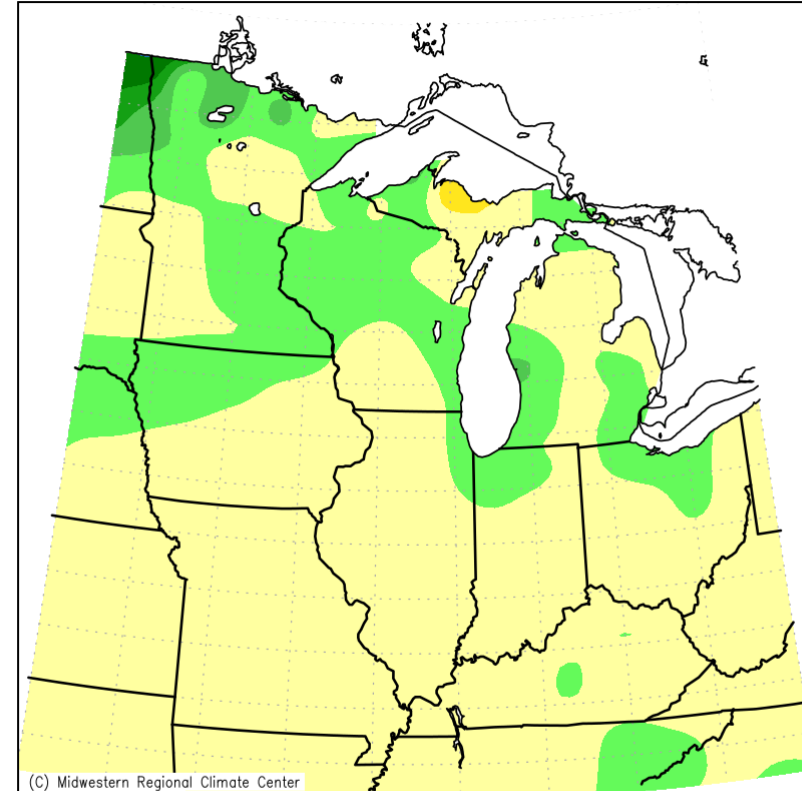
Total Monthly Snowfall (*left*) & Departure from Normal (*right*)

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



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 11/1/2023 10:52:08 PM EDT

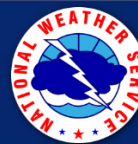
Accumulated Snowfall (in): Departure from Mean
October 1, 2023 to October 31, 2023



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 11/1/2023 10:52:30 PM EDT

October 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
ADRIAN 2 NNE	0.6	0.6	1	GOODRICH	0.0	0.0	0
ALGONAC WWTP	0.0	0.0	0	GROSSE POINTE FARMS	0.0	0.0	0
ANN ARBOR SE	T	T	0	HARBOR BEACH 1 SSE	0.0	0.0	0
ANN ARBOR U OF MICH	T	T	0	LAPEER 2W	T	T	0
BAD AXE	0.0	0.0	0	MANCHESTER	0.0	0.0	0
BAY PORT 3.2 SSW	0.0	0.0	0	MORENCI	0.0	0.0	0
BURTON 4N	T	T	0	OIL CITY 2S	T	T	0
CANTON 2.7 N	0.0	0.0	0	OTTAWA LAKE 1.4 SSW	0.0	0.0	0
CASS CITY 1 SSW	0.0	0.0	0	OWOSSO WWTP	0.0	0.0	0
CHELSEA	T	T	0	PONTIAC WWTP	0.0	0.0	0
CHELSEA 3.7 NNE	0.0	0.0	0	PORT HURON	0.0	0.0	0
DETROIT METRO AIRPORT	0.2	0.2	1	PORT HURON 1.6 W	0.0	0.0	0
DURAND WWTP	0.0	0.0	0	RICHMOND 4 NNW	T	T	0
FARMINGTON	0.0	0.0	0	SAGINAW 8NW	T	T	0
FENTON 6.2 WSW	0.0	0.0	0	SAGINAW #3	0.0	0.0	0
FILION 5NNW	0.0	0.0	0	SAGINAW MBS INTL AP	0.5	0.5	1
FLINT 7W	0.0	0.0	0	WHITE LAKE 4E	0.7	0.7	1
FLINT FCWOS	1.1	1.1	1	WYANDOTTE	0.0	0.0	0

October – Top 20 Snowiest/Least Snowy on Record

Weather Forecast Office
Detroit, MI



Top 20 Snowiest/Snowless Octobers 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	2.9	1980	0.0	1897	4.4	1989	0.0	1930	5.0	1967	0.0	1921
2	2.7	1989	0.0	1905	2.8	1997	0.0	1938	5.0	1933	0.0	1929
3	2.7	1925	0.0	1913	2.6	1967	0.0	1946	2.9	1997	0.0	1937
4	1.4	1930	0.0	1921	2.5	1925	0.0	1954	2.0	1992	0.0	1945
5	1.0	1943	0.0	1929	2.3	2006	0.0	1970	1.4	2016	0.0	1953
6	0.7	1932	0.0	1937	1.8	1992	0.0	1978	1.2	1943	0.0	1961
7	0.4	1993	0.0	1945	1.1	2023	0.0	1986	1.0	1936	0.0	1969
8	0.4	1992	0.0	1953	1.0	1936	0.0	1994	0.5	2023	0.0	1977
9	0.4	1909	0.0	1961	0.8	1993	0.0	2002	0.4	1934	0.0	1985
10	0.3	1936	0.0	1969	0.8	1962	0.0	2010	0.4	1925	0.0	1993
11	0.3	1880	0.0	1977	0.7	2014	0.0	2018	0.3	2006	0.0	2001
12	0.2	2023	0.0	1985	0.5	1987	0.0	1931	0.3	1917	0.0	2009
13	0.2	2006	0.0	2001	0.5	1923	0.0	1939	0.2	2012	0.0	2017
14	0.1	1997	0.0	2009	0.4	2019	0.0	1947	0.2	1989	0.0	1914
15	0.1	1981	0.0	1889	0.3	2012	0.0	1955	0.2	1923	0.0	1922
16	0.1	1895	0.0	2017	0.1	2017	0.0	1963	0.0	1921	0.0	1930
17	0.0	1897	0.0	1890	0.1	1952	0.0	1971	0.0	1929	0.0	1938
18	0.0	1905	0.0	1898	0.0	1930	0.0	1979	0.0	1937	0.0	1946
19	0.0	1913	0.0	1906	0.0	1938	0.0	1995	0.0	1945	0.0	1954
20	0.0	1921	0.0	1914	0.0	1946	0.0	2003	0.0	1953	0.0	1962

* 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



Snowiest Halloween on Record

weather.gov/dtx/SnowiestHalloween2023

Detroit

Since 1874

2023 Snowfall: **0.2"**

Previous Record: 0.1" (1993)

Saginaw

Since 1912

2023 Snowfall: **0.5"**

Previous Record: Trace (2019)

(most recent) ↷

Flint

Since 1921

2023 Snowfall: **1.1"**

Previous Record: 0.7" (2014)



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

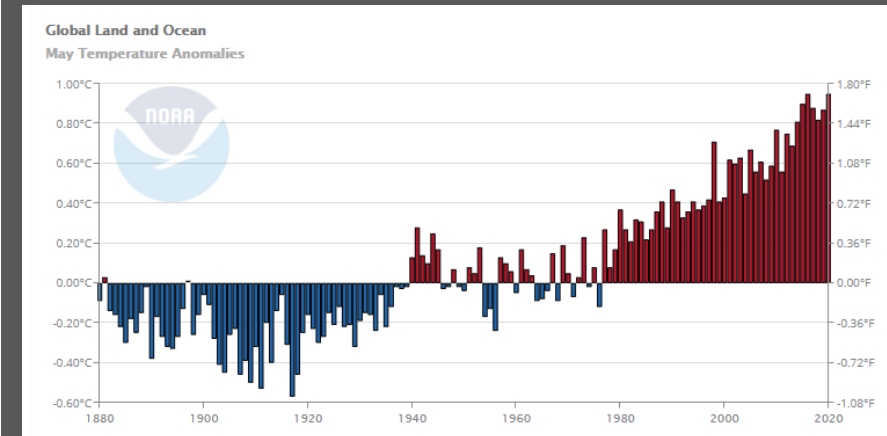
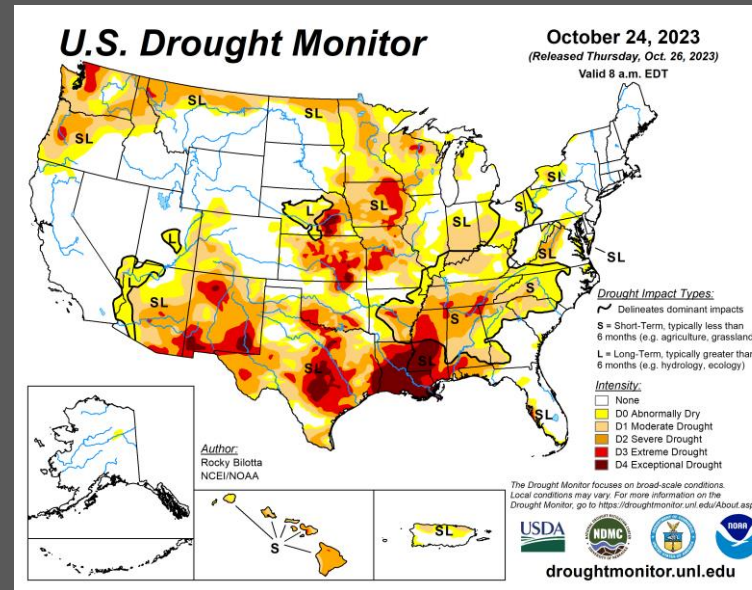
- Daily data for a month
- Daily almanac
- Monthly summarized data
- Calendar day summaries
- Daily/monthly normals
- Climatology for a day
- First/last dates
- Temperature graphs
- Accumulation graphs

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.

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!