

Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Weather Forecast Office
Detroit, MI



November 2021



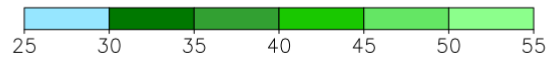
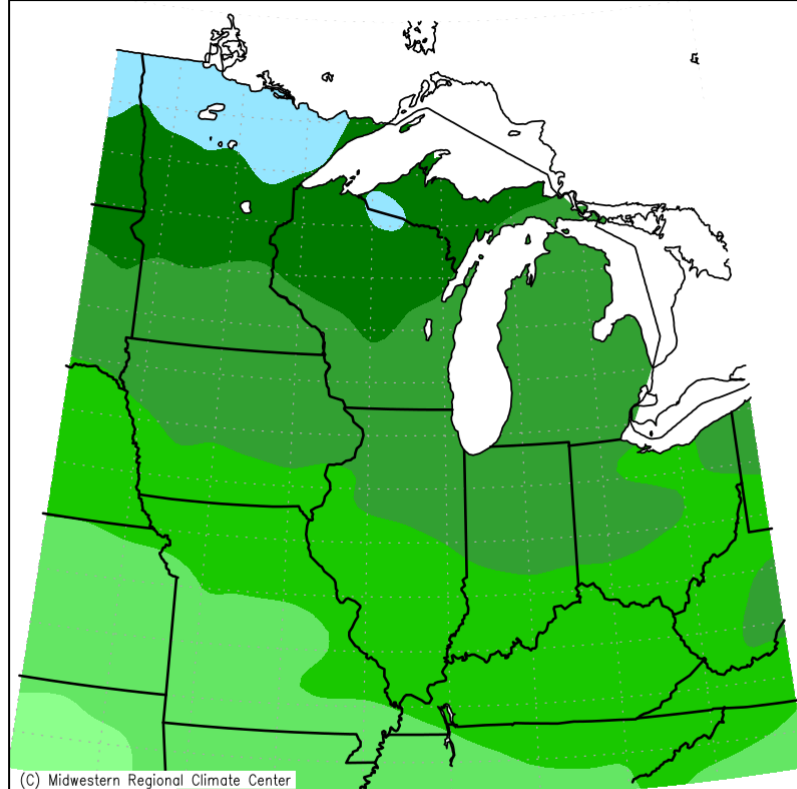
November 2021 – Regional Temperature Summary

Weather Forecast Office
Detroit, MI



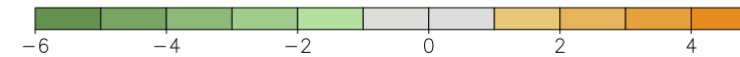
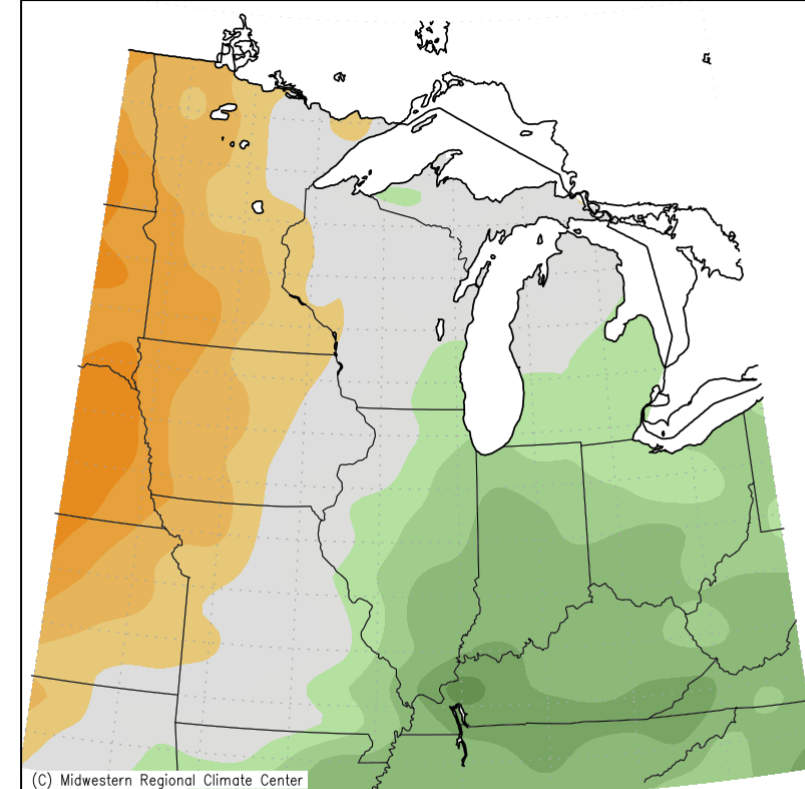
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)
November 1, 2021 to November 30, 2021



Midwestern Regional Climate Center
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Average Temperature (°F): Departure from Mean
November 1, 2021 to November 30, 2021



Midwestern Regional Climate Center
Purdue University

November 2021 – 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	67	19	46.9	29.9	38.4	GROSSE POINTE FARMS	65	22	46.9	31.8	39.4
ADRIAN LENAWEE COUNTY AP	65	19	46.3	29.8	38.1	HARBOR BEACH 1 SSE	66	18	45.9	30.6	38.3
ALGONAC WWTP	65	21	48.5	31.4	40.0	LAPEER 2W	66	20	46.1	30.2	38.1
ANN ARBOR MUNICIPAL AP	67	11	45.7	26.2	36.0	LAPEER WWTP	67	21	46.7	29.5	38.1
ANN ARBOR SE	67	16	47.0	27.2	37.1	LEXINGTON WATER PLANT	65	18	46.1	30.0	38.1
ANN ARBOR U OF MICH	67	16	47.2	28.7	37.9	MANCHESTER	67	18	48.0	28.4	38.2
BAD AXE	64	13	44.8	29.5	37.2	MIDLAND	59	18	42.2	28.2	35.2
BURTON 4N	66	15	46.8	27.9	37.0	MORENCI	66	16	47.6	26.7	37.2
CARO WWTP	66	20	46.7	29.3	37.7	OIL CITY 2S	64	16	45.4	27.7	36.5
CASS CITY 1 SSW	65	17	45.8	28.3	37.1	OWOSSO WWTP	66	19	47.3	30.2	38.7
CHELSEA	69	18	47.4	29.5	38.4	PONTIAC INTL AP	65	18	45.7	30.4	38.1
DEARBORN	67	20	48.6	31.3	39.9	PONTIAC WWTP	66	21	46.3	30.9	38.6
DEARBORN NO. 2	67	23	48.9	32.8	40.8	PORT HOPE	65	23	46.4	34.3	40.3
DETROIT CITY AP	68	24	48.3	34.4	41.4	PORT HURON	63	24	46.1	34.9	40.5
DETROIT METRO AIRPORT	67	22	47.2	31.6	39.4	RICHMOND 4 NNW	65	19	46.0	29.4	37.7
FARMINGTON	66	17	46.4	28.2	37.3	SAGINAW #3	66	20	46.6	30.5	38.5
FILION 5NNW	64	18	47.0	32.5	39.8	SAGINAW MBS INTL AP	66	19	46.2	31.0	38.6
FLINT 7W	67	16	45.8	29.0	37.4	SALINE 4SW	67	19	48.1	28.3	38.2
FLINT FCWOS	67	17	46.0	30.5	38.2	WHITE LAKE 4E	67	14	45.2	28.4	36.8
GOODRICH	65	18	46.3	29.6	38.0	WHITMORE LAKE 1NW	65	19	46.3	28.5	37.4



November – Top 20 Coldest/Warmest on Record

Weather Forecast Office
Detroit, MI



Top 20 Coldest/Warmest Novembers 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	29.8	1880	47.8	1931	31.3	1951	47.3	1975	29.8	1951	47.1	1931
2	33.5	1976	47.6	2001	32.0	1995	46.6	2001	31.6	1995	45.9	1975
3	34.2	1996	46.9	1902	32.6	1996	46.4	2020	32.5	1959	45.6	2015
4	34.5	1875	46.8	1975	33.0	1959	46.2	1931	33.3	2019	45.4	2016
5	34.6	1951	46.7	2016	33.3	2018	46.0	2015	33.3	1976	45.3	2001
6	34.9	1894	46.6	2011	33.3	1976	44.6	2016	33.6	1933	44.6	2020
7	35.2	1967	46.0	2015	34.5	1936	44.4	1934	33.9	1996	43.2	2009
8	35.4	1936	46.0	1963	34.5	1933	43.8	1938	33.9	1955	43.1	2011
9	35.5	1995	45.7	2020	34.6	2019	43.7	2011	34.0	2018	43.0	1963
10	35.5	1911	45.7	1948	34.8	1967	43.3	1963	34.2	1989	42.4	1999
11	35.7	1910	45.5	1994	34.8	1955	43.2	1948	34.2	1967	42.4	1948
12	35.7	1892	45.3	2009	35.0	1947	42.8	1999	34.2	1950	42.2	1934
13	35.8	2019	45.2	1999	35.1	1929	42.5	2003	34.3	1947	41.8	1994
14	35.8	2014	44.9	1964	35.2	1950	42.5	1994	34.4	1986	41.8	1938
15	36.0	1933	44.9	1909	35.2	1921	42.4	2009	34.6	2014	41.6	1990
16	36.4	1903	44.5	1953	35.3	2014	42.4	1990	34.7	1949	41.6	1964
17	36.4	1901	44.3	2003	35.4	1986	42.2	1924	35.1	1943	41.6	1913
18	36.6	1959	44.3	1883	35.5	1997	41.8	1998	35.1	1925	41.5	1953
19	36.6	1891	44.2	1990	35.6	1943	41.8	1953	35.2	1926	41.4	1930
20	36.7	1950	43.9	1946	35.8	1949	41.6	1987	35.2	1919	41.3	1998

* 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.

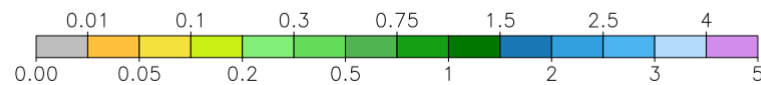
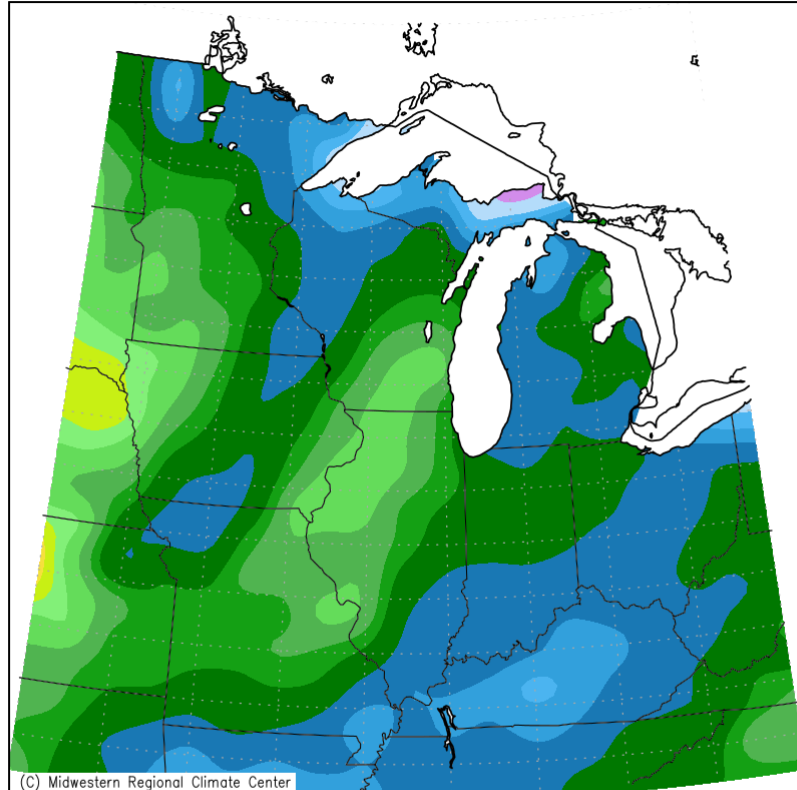
November 2021 – Regional Precipitation Summary

Weather Forecast Office
Detroit, MI



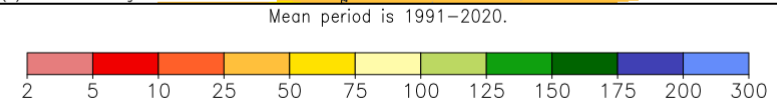
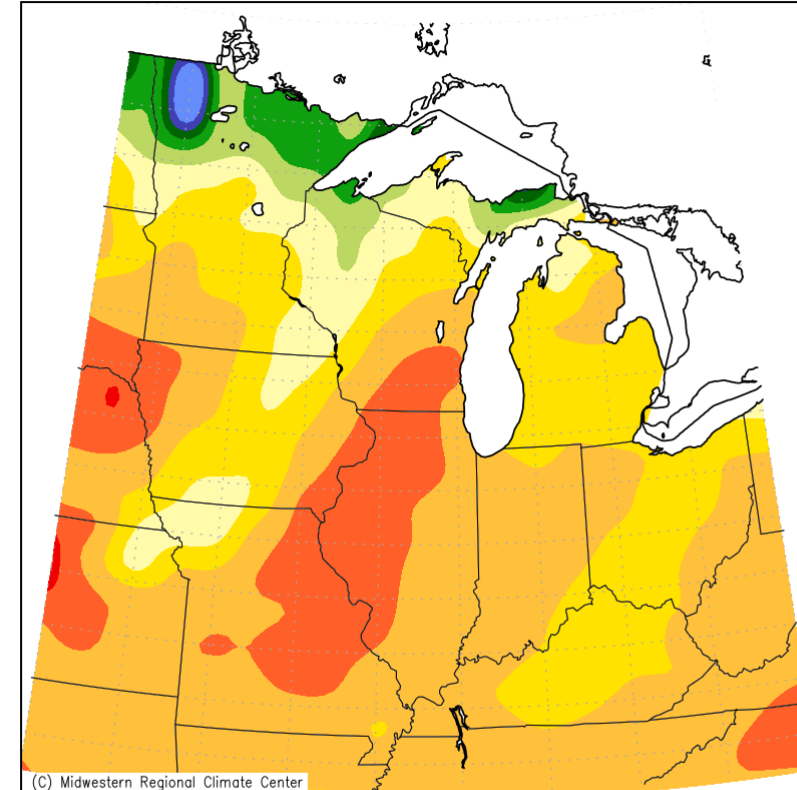
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

Accumulated Precipitation (in)
November 1, 2021 to November 30, 2021



Midwestern Regional Climate Center
Purdue University

Accumulated Precipitation: Percent of Mean
November 1, 2021 to November 30, 2021



Midwestern Regional Climate Center
Purdue University

November 2021 – 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
ADRIAN 2 NNE	0.30	1.71	13
ADRIAN LENAWEE CO AP	0.31	1.20	10
ALGONAC WWTP	0.62	2.15	8
ANN ARBOR 4.5 W	0.40	1.42	12
ANN ARBOR MNCPL AP	0.35	1.39	14
ANN ARBOR SE	0.47	1.94	15
ANN ARBOR U OF MICH	0.39	1.87	18
BAD AXE	0.74	1.85	13
BAD AXE 6.3 SSW	0.55	1.46	12
BURTON 4N	0.32	1.41	12
CARLETON 2.5 S	0.40	2.11	10
CASS CITY 1 SSW	0.59	1.31	10
CHELSEA	0.36	1.43	12
CHELSEA 3.7 NNE	0.32	1.47	12
CHESANING	0.32	1.34	9
CHESTERFIELD 2.4 E	0.60	2.13	11
DAVISON 3.4 NNW	0.33	1.51	13
DAVISON 5.2 N	0.21	1.03	9
DEARBORN	0.38	1.95	12
DEARBORN HGHTS 1.8 NW	0.39	1.79	12
DEARBORN NO. 2	0.35	1.82	9
DETROIT CITY AP	0.40	1.31	9
DETROIT METRO AIRPORT	0.49	1.91	13
DETROIT WILLOW RUN AP	0.36	1.13	11

Location	Highest Daily Total	Monthly Total	# of Days with Precip
DEXTER 0.3 ENE	0.39	1.59	14
DEXTER 2.2 SE	0.40	1.87	14
DURAND 6.2 WNW	0.44	1.70	14
FARMINGTON	0.34	1.79	8
FENTON 2.7 SSE	0.29	1.46	12
FENTON 6.2 WSW	0.29	1.30	10
FLINT 7W	0.32	1.33	13
FLINT FCWOS	0.25	1.01	11
GOODRICH	0.21	1.17	11
GROSSE ILE 1.6 N	0.45	2.10	12
GROSSE POINTE FARMS	0.35	1.41	6
HARBOR BEACH 1 SSE	0.57	1.94	13
HIGHLAND 1.3 NE	0.30	1.29	10
LAPEER 2W	0.23	1.39	12
LAPEER WWTP	0.21	1.27	12
LEXINGTON WWTP	0.37	1.44	10
LIVONIA 2.0 NE	0.30	1.75	9
MANCHESTER	0.39	1.56	11
MIDLAND	0.57	1.17	9
MIDLAND 1.5 NNE	0.47	1.06	12
MIDLAND 2.9 SW	0.54	1.19	11
MONROE 3.0 S	0.34	1.74	10
MORENCI	0.26	1.54	11
NEW BALTIMORE 0.4 SSE	0.34	1.74	13

Location	Highest Daily Total	Monthly Total	# of Days with Precip
OIL CITY 2S	0.50	1.51	12
ORCHARD LK VLG 0.9 WSW	0.27	1.17	13
ORTONVILLE 2.3 S	0.22	1.21	12
OTTAWA LAKE 1.4 SSW	0.35	1.57	8
OWOSSO WWTP	0.28	1.23	11
PLEASANT RDG 0.5 WNW	0.52	2.09	9
PLYMOUTH 5.4 W	0.34	1.51	10
PONTIAC INTL AP	0.28	1.21	12
PONTIAC WWTP	0.27	1.57	14
PORT HOPE	0.84	2.31	17
PORT HURON	0.38	1.49	10
PORT HURON 1.6 W	0.32	1.34	13
ROSEVILLE	0.43	2.29	10
ROSEVILLE 1.7 ENE	0.38	2.12	12
SAGINAW #3	0.58	1.85	11
SAGINAW MBS INTL AP	0.85	1.45	10
SALINE 3.8 SSW	0.42	1.31	13
SALINE 4SW	0.40	1.82	16
SHELBY 0.4 SSE	0.47	1.73	9
WATERFORD 2.1 NW	0.27	1.45	12
WHITE LAKE 4E	0.36	1.53	11
WHITMORE LAKE 1NW	0.38	1.65	10
WYANDOTTE	0.43	2.18	12
YPSILANTI 2.5 SSE	0.42	1.65	12

November – Top 20 Wettest/Driest on Record

Weather Forecast Office
Detroit, MI



Top 20 Wettest/Driest Novembers 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	6.00	2011	0.19	1904	5.66	2003	0.21	1938	6.31	1995	0.18	1939
2	5.68	1982	0.40	1917	4.94	1988	0.57	1939	5.81	1988	0.36	1936
3	5.51	1985	0.57	1939	4.93	1973	0.59	2009	5.41	1966	0.41	2012
4	5.30	1891	0.60	1924	4.76	1982	0.65	2012	5.14	1990	0.51	1986
5	5.29	1927	0.62	2009	4.59	1952	0.66	1980	4.54	2003	0.55	2009
6	5.13	1897	0.72	2012	4.29	1990	0.66	1962	4.53	1935	0.61	1924
7	4.93	2017	0.73	1908	4.22	1995	0.78	1953	4.47	1928	0.63	1999
8	4.71	1879	0.78	1922	4.05	1992	0.78	1936	4.33	2005	0.69	1962
9	4.70	2005	0.79	1976	4.02	1928	0.86	1960	4.33	1992	0.81	2007
10	4.70	1909	0.81	1964	3.93	2005	0.93	1924	4.12	1959	0.84	1976
11	4.36	1881	0.83	1953	3.86	1968	0.94	1986	4.00	1985	0.86	1929
12	4.33	1992	0.88	1980	3.84	1948	1.00	1930	3.83	1982	0.88	1938
13	4.29	1988	0.94	1997	3.76	1950	1.01	2021	3.76	1952	0.92	1930
14	4.28	1983	0.97	1937	3.71	1935	1.05	1997	3.67	1994	1.04	1917
15	4.19	1979	1.00	1901	3.64	1979	1.13	1999	3.64	1940	1.11	1956
16	4.19	1895	1.10	1936	3.58	1942	1.18	1945	3.55	1989	1.14	1923
17	4.14	1948	1.15	1894	3.51	1994	1.20	1964	3.51	1958	1.15	2001
18	4.10	1877	1.18	1903	3.46	1983	1.22	1976	3.49	1931	1.20	2002
19	4.05	1950	1.20	1965	3.39	1921	1.32	1993	3.25	1991	1.22	1971
20	3.68	1893	1.21	1916	3.29	1987	1.32	1922	3.25	1968	1.22	1953

* 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.

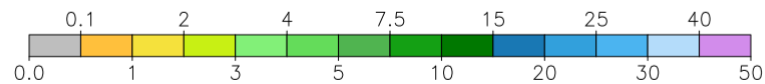
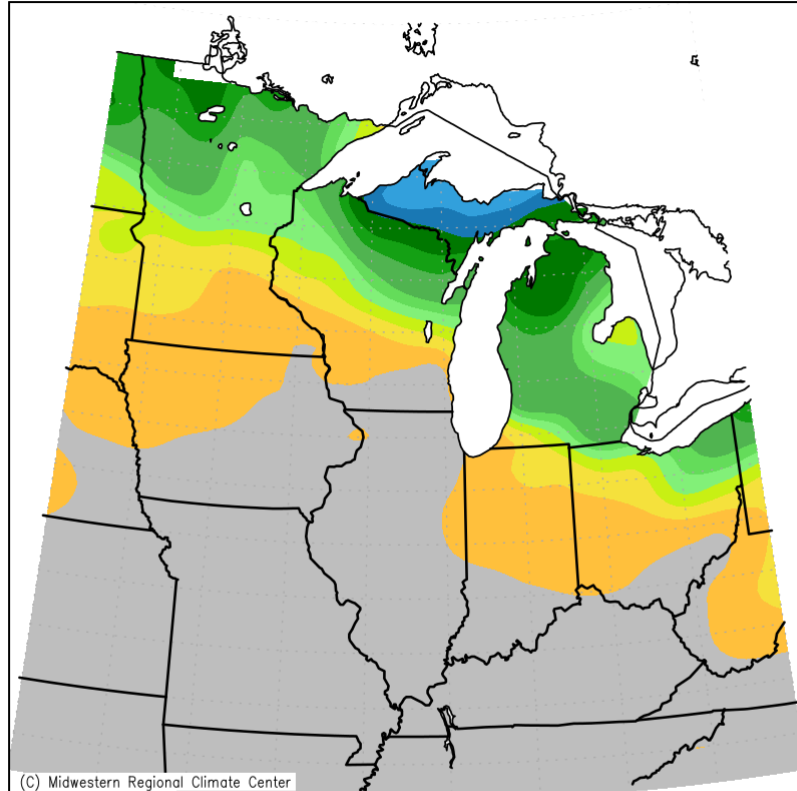
November 2021 – Regional Snowfall Summary

Weather Forecast Office
Detroit, MI



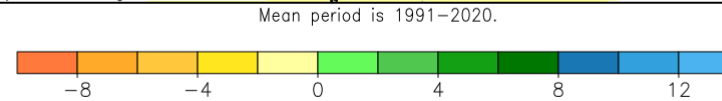
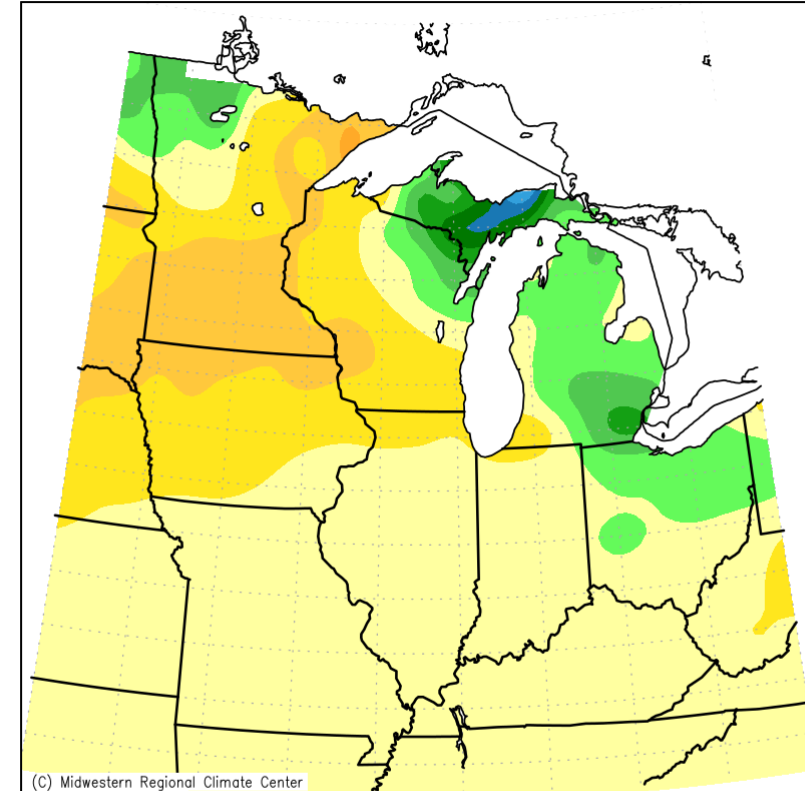
Total Monthly Snowfall (*left*) & Departure from Normal (*right*)

Accumulated Snowfall (in)
November 1, 2021 to November 30, 2021



Midwestern Regional Climate Center
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Accumulated Snowfall (in): Departure from Mean
November 1, 2021 to November 30, 2021



Midwestern Regional Climate Center
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November 2021 – 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	4.2	7.2	3	GOODRICH	1.7	3.7	4
ALGONAC WWTP	1.5	1.5	1	GROSSE POINTE FARMS	1.0	1.5	2
ANN ARBOR 2.1 WNW	2.5	4.4	3	HARBOR BEACH 1 SSE	1.6	4.5	4
ANN ARBOR SE	4.4	10.7	5	LAPEER 2W	2.3	5.6	8
ANN ARBOR U OF MICH	3.2	10.5	7	LAPEER WWTP	1.0	2.5	3
BAD AXE	1.3	2.8	4	LINDEN WWTP	2.2	4.3	3
BAY PORT 3.2 SSW	1.1	2.6	4	MANCHESTER	3.5	6.7	2
BURTON 4N	2.1	5.1	4	MIDLAND 1.5 NNE	1.9	2.5	2
CANTON 2.7 N	2.2	3.3	2	MORENCI	3.4	5.0	4
CARO WWTP	1.0	1.8	2	OIL CITY 2S	2.9	4.7	4
CASS CITY 1 SSW	1.5	2.4	3	OTTAWA LAKE 1.4 SSW	2.5	5.0	3
CHELSEA	3.0	4.0	2	OWOSSO WWTP	2.5	5.0	3
CHELSEA 3.7 NNE	3.8	8.4	5	PLEASANT RIDGE 0.5 WNW	3.1	4.9	2
CHESANING	3.0	4.0	2	PONTIAC WWTP	2.5	4.5	2
DAVISON 5.2 N	2.0	4.8	4	PORT HURON	2.5	2.5	1
DEARBORN	2.1	2.1	1	PORT HURON 1.6 W	2.4	2.4	1
DETROIT METRO AIRPORT	4.2	7.1	6	RICHMOND 4 NNW	3.3	8.8	4
DURAND WWTP	2.5	5.5	3	ROSEVILLE	2.8	4.7	2
FARMINGTON	3.3	5.0	3	SAGINAW #3	1.7	2.8	3
FENTON 6.2 WSW	3.3	5.9	5	SAGINAW MBS INTL AP	1.4	2.6	5
FILION 5NNW	1.2	1.7	2	WHITE LAKE 4E	3.4	8.7	6
FLINT 7W	2.7	6.4	6	WHITMORE LAKE 1NW	4.0	6.5	2
FLINT FCWOS	2.6	5.9	7	WYANDOTTE	4.1	6.6	5

November – Top 20 Snowiest/Least Snowy on Record

Weather Forecast Office
Detroit, MI



Top 20 Snowiest/Snowless Novembers 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	11.8	1966	0.0	2001	16.2	1951	0.0	1946	23.0	1995	0.0	2009
2	10.6	1933	0.0	2009	13.5	1966	0.0	1931	20.3	1966	0.0	2017
3	10.1	1932	0.0	2017	12.4	1950	0.0	1939	17.9	1951	0.0	2001
4	9.5	2019	0.0	1994	12.1	1940	0.0	1963	17.0	1940	0.0	1994
5	9.2	1950	0.0	2010	11.1	2018	0.0	1987	13.5	1933	0.0	1931
6	9.1	1940	0.0	1961	10.8	2015	0.0	1948	12.5	2018	0.0	1963
7	8.9	1898	0.0	1939	10.5	1975	0.0	1973	12.3	1947	0.0	1948
8	8.3	1951	0.0	1963	10.4	1971	0.0	1934	11.0	1985	0.0	1988
9	8.3	1921	0.0	1948	10.0	1921	0.0	1990	9.9	1977	0.0	1973
10	8.1	1959	0.0	1901	9.4	2019	0.0	1927	9.6	1950	0.0	1934
11	7.9	1925	0.0	1934	9.4	1979	0.0	1999	8.8	2008	0.0	1982
12	7.7	1974	0.0	1990	9.2	2008	0.0	1944	8.5	1975	0.0	1990
13	7.7	1880	0.0	1998	9.2	1974	0.0	2016	8.1	1949	0.0	1998
14	7.4	1977	0.0	1999	8.9	1972	0.0	1961	7.8	1971	0.0	1999
15	7.1	2021	0.0	1899	8.7	2014	0.0	2001	7.6	1959	0.0	1923
16	7.1	1972	0.0	1944	7.8	1989	0.0	2009	7.0	2004	0.1	1970
17	7.0	1911	0.0	1952	6.9	1949	0.0	1923	7.0	1921	0.1	1939
18	6.9	1894	0.0	1968	6.9	1925	0.2	2010	6.8	2011	0.1	1929
19	6.8	1891	0.0	1896	6.3	1933	0.2	1998	6.6	2019	0.2	1946
20	6.7	2018	0.1	2004	6.2	1978	0.3	2017	6.1	2000	0.2	1952

* Detroit Area snowfall records date back to January 1880.

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

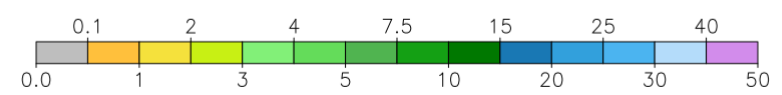
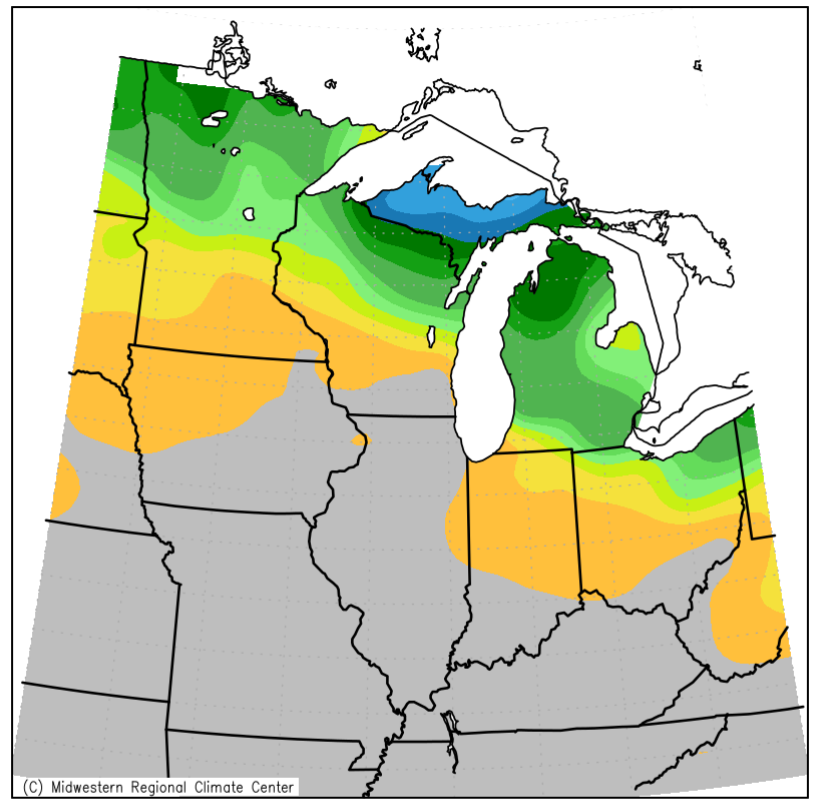
*** Saginaw Area snowfall records date back to January 1912.

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



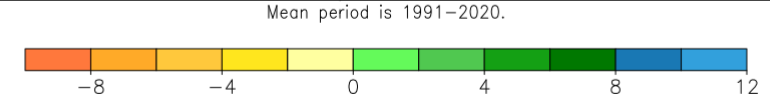
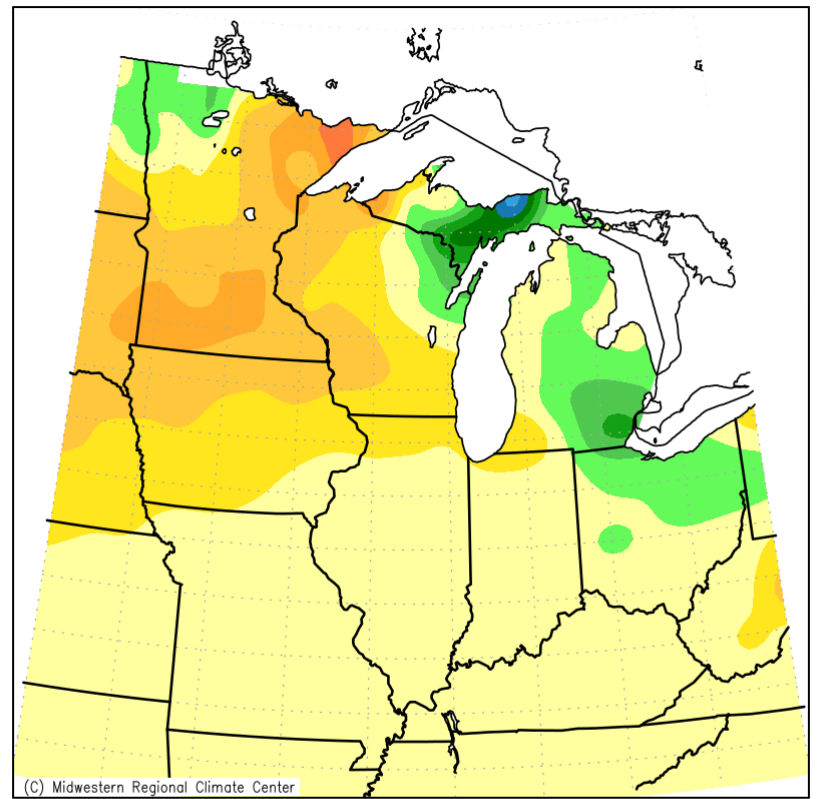
Total Snowfall (left) & Departure from Normal (right)

Accumulated Snowfall (in)
October 1, 2021 to November 30, 2021



Midwestern Regional Climate Center
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Accumulated Snowfall (in): Departure from Mean
October 1, 2021 to November 30, 2021



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 12/4/2021 3:56:18 AM CST

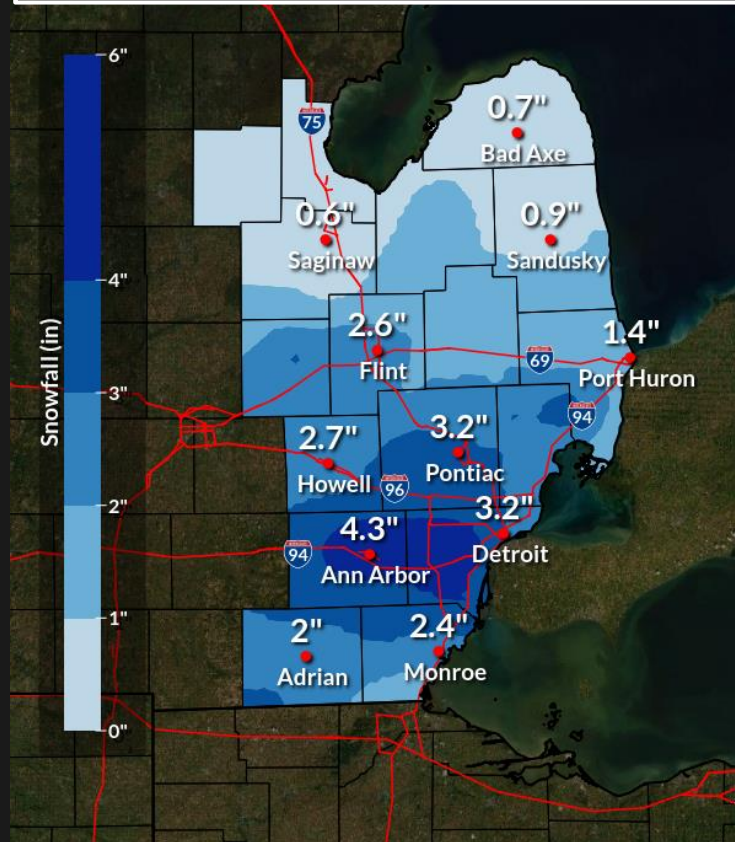
November 2021 – Significant Weather Events

Weather Forecast Office
Detroit, MI

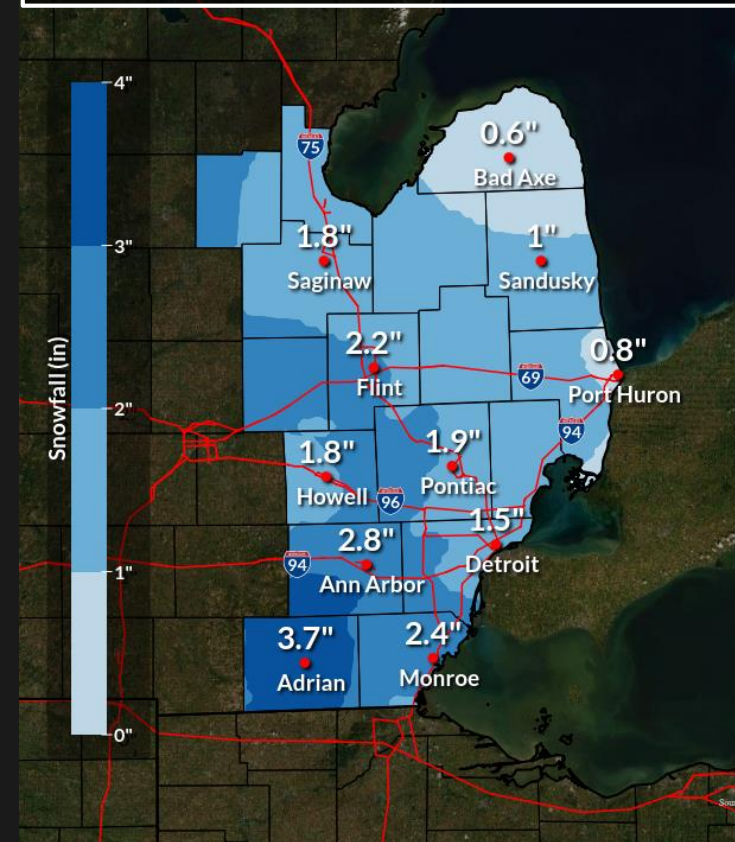


Follow links for web summaries

November 27 Snowfall weather.gov/dtx/winter-weather-advisory-november-27-2021



November 29-30 Snowfall weather.gov/dtx/Winter-Weather-Advisory-November-29-30-2021





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

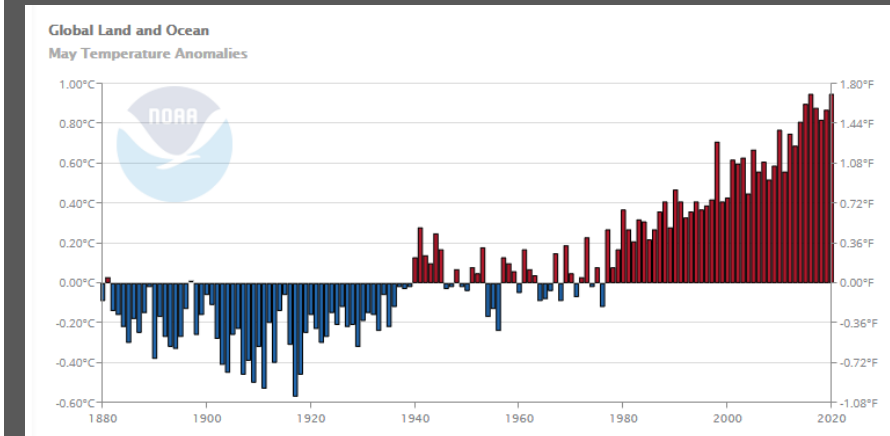
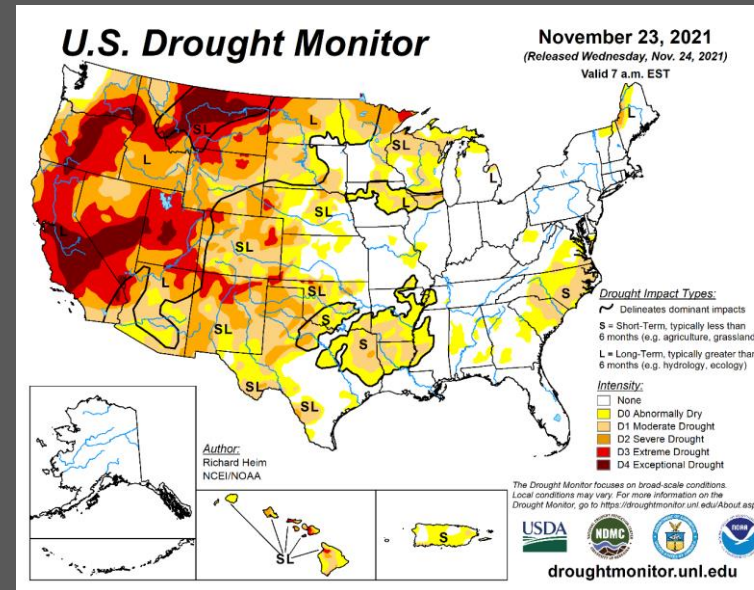
Daily data for a month

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.

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!