



# Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Michigan, Average Temperature, September  
1901-2000  
Avg. 58.5°F

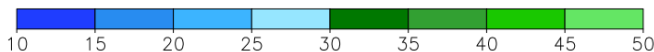
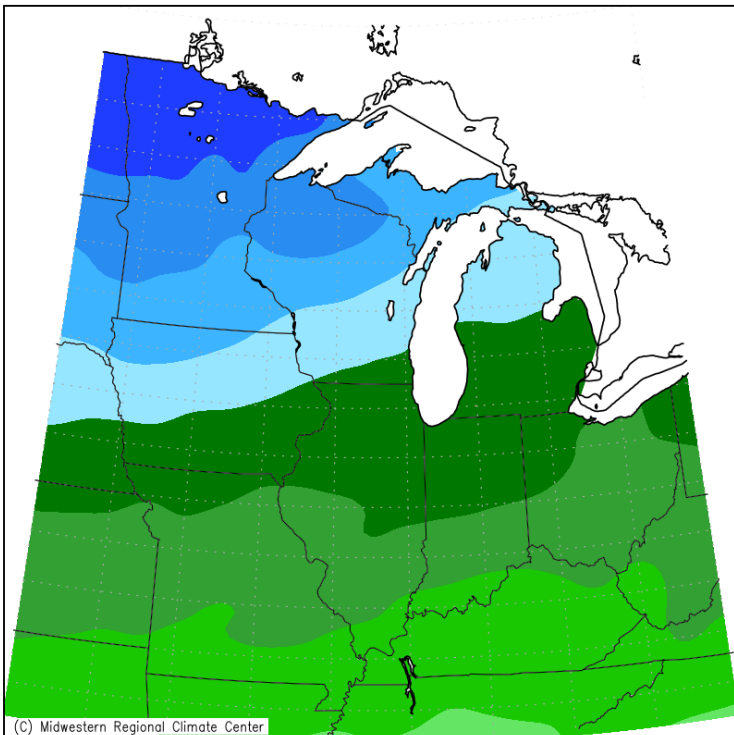




# December 2019 – Regional Temperature Summary

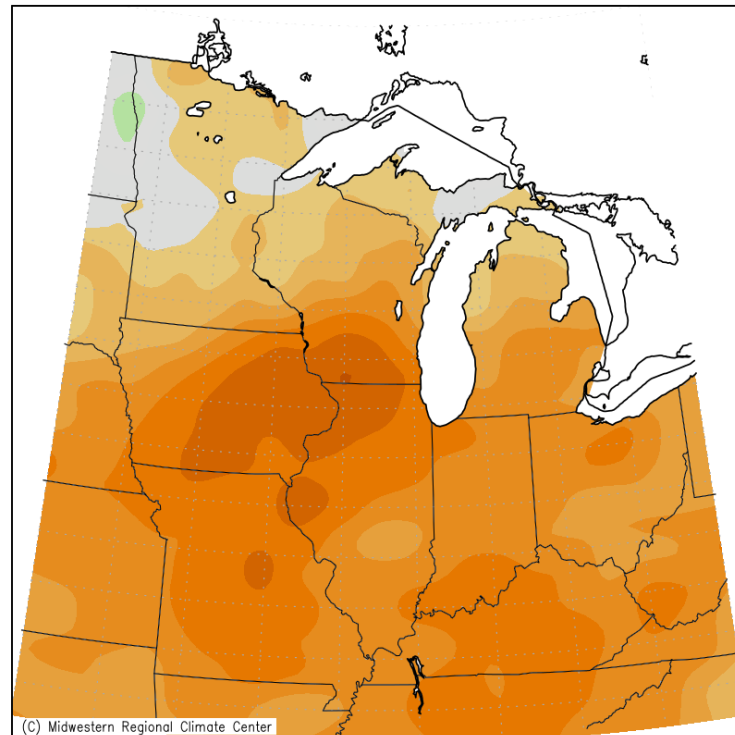
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)  
December 1, 2019 to December 31, 2019



Midwestern Regional Climate Center  
Illinois State Water Survey, Prairie Research Institute  
University of Illinois at Urbana-Champaign

Average Temperature (°F): Departure from Mean  
December 1, 2019 to December 31, 2019



Midwestern Regional Climate Center  
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# December 2019 – SE Michigan Temp Summary

Mean max, min, average, and highest max & lowest min

Station	Type	Avg High	Avg Low	Mean	Highest High	Lowest Low
ADRIAN LENAWEE COUNTY AP	WBAN	40.5	25.2	32.8	59	6
ALGONAC WWTP	COOP	40.8	25.4	33.1	55	9
ANN ARBOR MUNICIPAL AP	WBAN	40.7	23.7	32.2	58	2
ANN ARBOR U OF MICH	COOP	40.6	25.1	32.9	57	2
AUBURN 2NE	COOP	38.7	26.3	32.5	60	12
BURTON 4N	COOP	39.3	25.5	32.4	61	7
CARLETON 2W	COOP	42.5	27.8	35.2	61	11
CARO WWTP	COOP	38.1	26.3	32.2	59	10
CASS CITY 1 SSW	COOP	37.4	24.9	31.2	58	4
CHELSEA	COOP	39.7	26.2	32.9	58	2
DEARBORN	COOP	40.4	28.0	34.2	58	10
DETROIT CITY AP	WBAN	41.6	28.6	35.1	58	13
<b>DETROIT METRO AIRPORT</b>	<b>WBAN</b>	<b>42.1</b>	<b>28.1</b>	<b>35.1</b>	<b>58</b>	<b>10</b>
DETROIT WILLOW RUN AP	WBAN	43.2	27.6	35.4	59	9
DUNDEE	COOP	40.6	26.7	33.6	61	8
DURAND WWTP	COOP	40.5	24.8	32.7	62	3
FARMINGTON	COOP	38.8	24.5	31.7	58	9
FLINT 7W	COOP	38.4	24.6	31.5	59	7
<b>FLINT FCWOS</b>	<b>WBAN</b>	<b>41.2</b>	<b>27.2</b>	<b>34.2</b>	<b>61</b>	<b>9</b>
GOODRICH	COOP	39.3	26.4	32.8	59	8
GROSSE POINTE FARMS	COOP	39.7	26.5	33.1	56	11
HARBOR BEACH 1 SSE	COOP	36.9	26.6	31.7	51	10
LAPEER WWTP	COOP	39.1	26.4	32.7	58	10
LEXINGTON WATER PLANT	COOP	38.3	25.8	32.1	54	4
LINDEN WWTP	COOP	38.3	25.1	31.7	59	6
MANCHESTER	COOP	40.5	25.4	32.9	58	5
MIDLAND	COOP	37.5	25.7	31.6	58	11
MILAN WWTP	COOP	40.4	26.3	33.3	58	8
MORENCI	COOP	41.9	22.2	32.1	61	5
NEWPORT 4SSE	COOP	40.4	27.7	34.0	58	9
OWOSSO WWTP	COOP	38.7	26.2	32.4	60	10
PONTIAC OAKLAND COUNTY INTL AP	WBAN	39.0	26.1	32.6	55	9
PONTIAC WWTP	COOP	39.6	27.1	33.4	58	11
PORT HOPE	WBAN	37.8	27.5	32.6	53	12
PORT HURON	COOP	39.7	29.3	34.5	54	12
RICHMOND 4 NNW	COOP	38.7	26.6	32.7	58	9
<b>SAGINAW MBS INTL AP</b>	<b>WBAN</b>	<b>38.4</b>	<b>26.7</b>	<b>32.5</b>	<b>60</b>	<b>10</b>
SALINE 4SW	COOP	40.8	25.4	33.1	58	7
TECUMSEH	COOP	40.9	21.8	31.3	59	5
WHITE LAKE 4E	COOP	37.1	23.0	30.1	54	2
WHITMORE LAKE 1NW	COOP	39.2	24.7	32.0	56	4



# December – Top 20 Coldest/Warmest

**Top 20 Coldest/Warmest Decembers in Southeast Lower Michigan**

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	34.2	2019	19.5	1919	33.5	2001
8	22.2	1985	37.2	1931	21.3	1985	34.1	2001	20.1	1963	33.4	1941
9	22.4	1958	36.3	1918	21.7	1960	33.6	1941	21.0	1924	33.0	2011
10	22.5	1903	35.9	2012	22.2	1945	33.5	2012	21.3	1944	33.0	1965
11	22.8	1878	35.9	1965	22.4	1950	33.4	1984	21.5	1960	32.8	1936
12	23.0	1909	35.8	2001	22.6	2017	33.3	2011	21.6	1985	32.5	2019
13	23.1	1919	35.8	1891	22.9	1962	32.8	2014	22.0	1980	32.3	1994
14	23.2	1924	35.5	2011	23.0	1995	32.8	1939	22.0	1914	32.2	1913
15	23.3	1910	35.5	1941	23.1	1942	32.4	1971	22.2	1962	32.1	2014
16	23.8	1963	35.4	1994	23.2	1924	32.3	1998	22.4	1926	32.0	1998
17	23.8	1914	35.3	1998	23.9	1937	32.2	1987	22.5	1950	32.0	1918
18	23.9	1886	35.1	2019	24.0	1926	32.1	2003	22.5	1945	31.5	1959
19	24.7	1945	34.8	1956	24.3	2010	32.1	1979	22.5	1942	31.4	2018
20	24.8	1944	34.6	1959	24.3	2005	32.0	1994	22.8	2013	31.4	1952

\* 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.

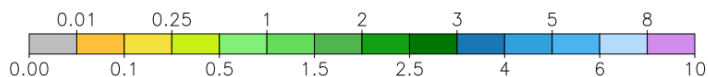
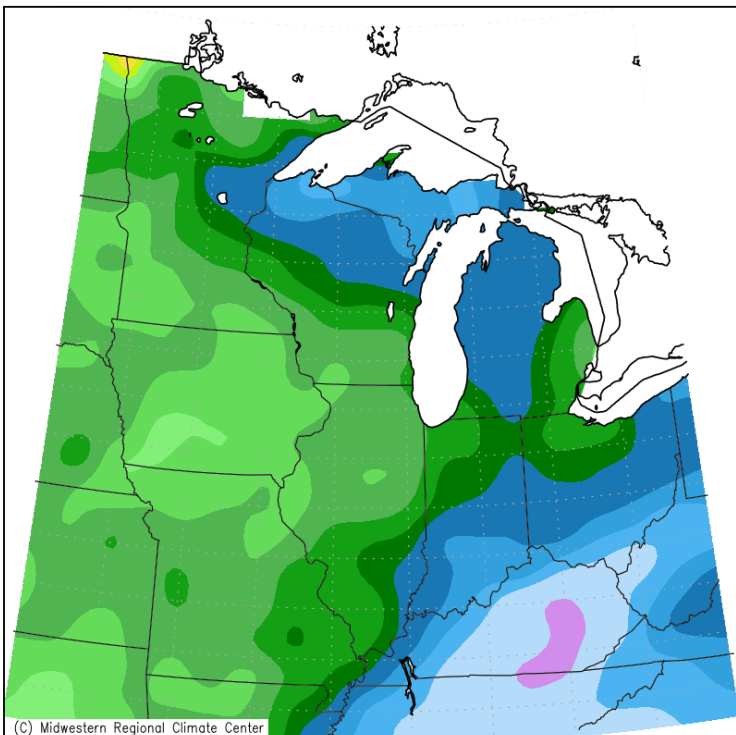




# December 2019 – Regional Precipitation Summary

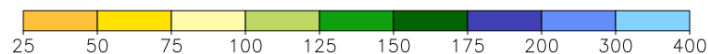
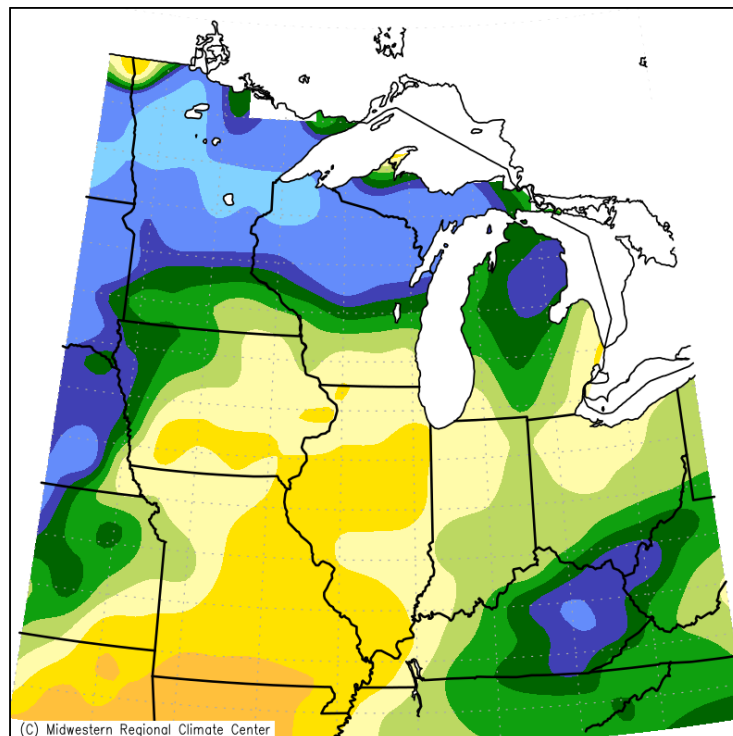
## Total Monthly Precipitation (left) & Percent of Mean (right)

Accumulated Precipitation (in)  
December 1, 2019 to December 31, 2019



Midwestern Regional Climate Center  
Illinois State Water Survey, Prairie Research Institute  
University of Illinois at Urbana-Champaign

Accumulated Precipitation: Percent of Mean  
December 1, 2019 to December 31, 2019



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 1/7/2020 3:23:53 AM CST





# December 2019 – SE Michigan Precipitation Summary

Total precipitation, greatest daily total, and total number of days of measurable precip

Station	Type	Total Precipitation	Highest Daily Total	Days With Precip
ADRIAN LENAWEЕ COUNTY AP	WBAN	2.15	0.86	8
ALGONAC WWTP	COOP	1.34	0.67	5
ANN ARBOR 4.5 W	CoCoRaHS	2.42	1.21	8
ANN ARBOR 7.1 W	CoCoRaHS	2.58	1.10	9
ANN ARBOR MUNICIPAL AP	WBAN	2.20	0.97	5
ANN ARBOR SE	COOP	2.49	1.19	14
ANN ARBOR U OF MICH	COOP	2.79	0.85	12
BAD AXE	COOP	2.15	0.94	14
BURTON 4N	COOP	2.61	1.47	7
CANTON 2.7 N	CoCoRaHS	2.02	1.24	9
CARLETON 2.5 S	CoCoRaHS	2.49	1.21	6
CARLETON 2W	COOP	1.68	1.07	4
CARO WWTP	COOP	2.10	0.64	11
CASS CITY 1 SSW	COOP	2.15	0.90	9
CHELSEA	COOP	2.59	0.92	9
CHESANING	COOP	2.86	0.97	10
DEARBORN	COOP	2.34	1.21	7
DEARBORN HEIGHTS 1.8 NW	CoCoRaHS	2.07	1.13	9
DETROIT 4.4 S	CoCoRaHS	1.94	0.77	11
DETROIT CITY AP	WBAN	1.79	0.80	7
<b>DETROIT METRO AIRPORT</b>	<b>WBAN</b>	<b>2.29</b>	<b>0.95</b>	<b>8</b>
DETROIT WILLOW RUN AP	WBAN	1.63	0.63	4
DEXTER 2.2 SE	CoCoRaHS	2.48	1.42	9
DUNDEE	COOP	2.19	1.48	7
FARMINGTON	COOP	2.01	0.73	10
FARMINGTON HILLS 1.4 N	CoCoRaHS	1.90	0.97	11
FENTON 2.7 SSE	CoCoRaHS	2.34	1.14	11
FENTON 5.6 WSW	CoCoRaHS	2.34	1.10	11
FENTON 6.2 WSW	CoCoRaHS	2.18	0.99	11
FLINT 7W	COOP	2.43	1.30	12
<b>FLINT FCWOS</b>	<b>WBAN</b>	<b>2.30</b>	<b>0.73</b>	<b>10</b>
GOODRICH	COOP	1.43	0.77	9
GROSSE ILE 1.6 N	CoCoRaHS	2.11	0.88	8
GROSSE POINTE FARMS	COOP	1.91	1.16	7
HARBOR BEACH 1 SSE	COOP	2.35	1.19	11

Station	Type	Total Precipitation	Highest Daily Total	Days With Precip
LAKE ORION 4.3 SSE	CoCoRaHS	1.93	1.15	9
LAPEER 2W	COOP	2.36	0.56	12
LAPEER WWTP	COOP	1.53	0.79	9
LEXINGTON WATER PLANT	COOP	1.51	0.83	7
LINDEN WWTP	COOP	2.16	1.15	9
LIVONIA 2.0 NE	CoCoRaHS	2.35	1.28	11
MANCHESTER	COOP	2.53	0.87	9
MIDLAND	COOP	3.67	1.32	6
MIDLAND 1.5 NNE	CoCoRaHS	3.87	1.60	9
MIDLAND 2.9 SW	CoCoRaHS	3.92	1.97	9
MILAN WWTP	COOP	2.07	1.00	10
MONROE 3.0 S	CoCoRaHS	1.96	0.80	7
NEW BALTIMORE 0.4 SSE	CoCoRaHS	1.34	0.88	7
NEWPORT 4SSE	COOP	2.36	1.28	7
ORTONVILLE 2.3 S	CoCoRaHS	2.21	1.18	11
OTTAWA LAKE 1.4 SSW	CoCoRaHS	2.34	0.79	8
OWOSSO WWTP	COOP	2.71	1.60	11
PONTIAC OAKLAND COUNTY INTL AP	WBAN	1.85	0.87	5
PONTIAC WWTP	COOP	2.12	1.11	11
PORT HOPE	WBAN	2.01	0.75	9
PORT HURON	COOP	1.14	0.32	8
PORT HURON 1.6 W	CoCoRaHS	1.49	0.37	10
RICHMOND 4 NNW	COOP	1.50	0.66	7
SAGINAW #3	COOP	3.07	1.34	11
<b>SAGINAW MBS INTL AP</b>	<b>WBAN</b>	<b>2.96</b>	<b>1.05</b>	<b>8</b>
SALINE 3.8 SSW	CoCoRaHS	2.38	1.10	9
SALINE 4SW	COOP	2.73	1.02	10
SHELBY 0.4 SSE	CoCoRaHS	1.93	1.05	8
TECUMSEH	COOP	2.59	1.15	7
TROY 1.8 S	CoCoRaHS	2.00	1.00	11
UTICA 2.9 E	CoCoRaHS	1.70	0.90	7
WATERFORD 2.1 NW	CoCoRaHS	1.46	0.79	10
WHITE LAKE 0.5 E	CoCoRaHS	2.29	0.79	9
WHITE LAKE 4E	COOP	2.35	0.90	10
WHITMORE LAKE 1NW	COOP	2.36	0.78	7
WYANDOTTE	COOP	2.47	1.30	10



# December – Top 20 Wettest/Driest

**Top 20 Wettest/Driest Decembers in Southeast Lower Michigan**

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	0.92	1976	3.34	1984	0.69	1913
12	4.07	2008	0.99	1913	2.90	1927	1.00	1989	3.31	1927	0.78	1997
13	4.00	1974	1.02	1962	2.81	2006	1.02	1941	3.24	1968	0.80	1922
14	3.93	1965	1.02	1939	2.79	2008	1.03	1926	3.22	1996	0.80	1912
15	3.79	1971	1.10	1930	2.79	1967	1.08	2002	3.10	2015	0.83	1934
16	3.78	1983	1.16	2002	2.78	1973	1.09	1921	2.99	1962	0.86	1989
17	3.77	1906	1.16	1998	2.75	1982	1.10	1930	2.97	2006	0.90	1917
18	3.66	1901	1.16	1888	2.70	1946	1.10	1922	2.96	2019	0.92	1941
19	3.65	2006	1.23	1890	2.68	1942	1.11	1961	2.93	1929	0.94	1915
20	3.59	1968	1.23	1880	2.64	1978	1.12	1945	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.

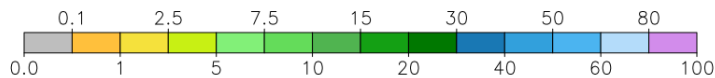
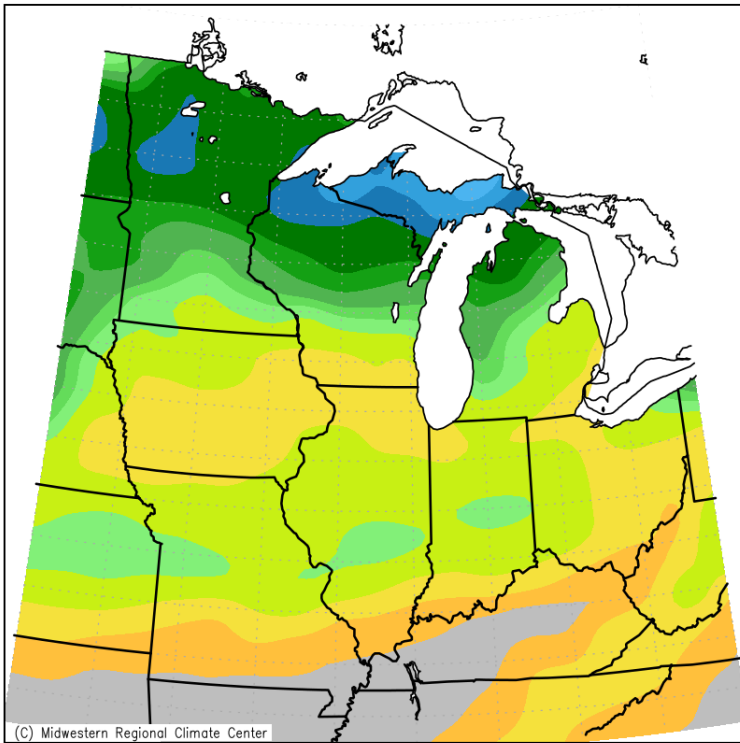




# December 2019 – Midwest Snowfall Summary

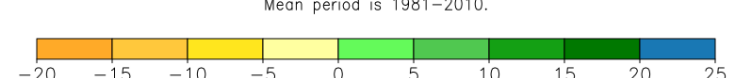
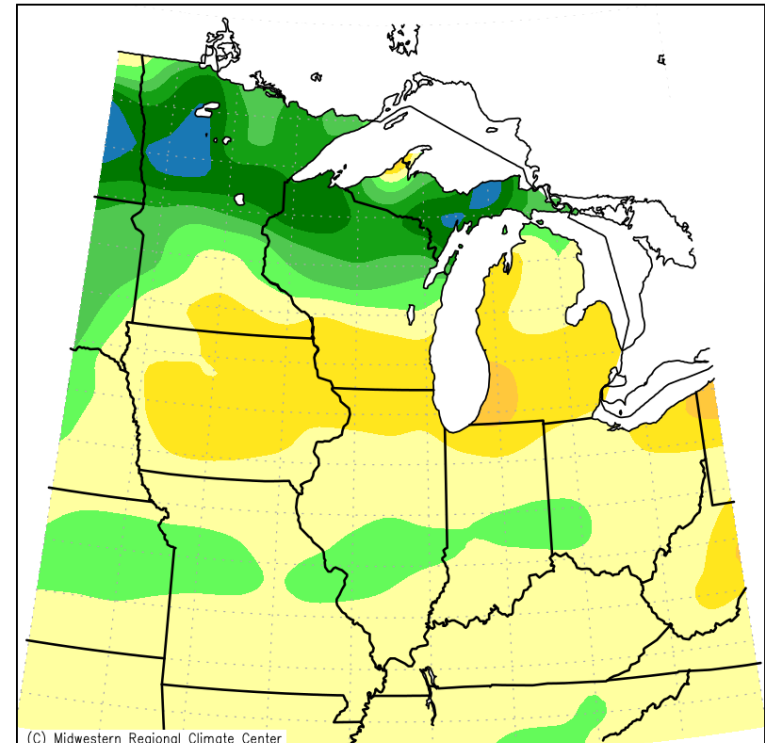
Total Monthly Snowfall (*left*) & Departure From Normal (*right*)

Accumulated Snowfall (in)  
December 1, 2019 to December 31, 2019



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment

Accumulated Snowfall (in): Departure from Mean  
December 1, 2019 to December 31, 2019



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment







# December – Top 20 Snowiest/Least Snowy

**Top 20 Snowiest/Snowless Decembers in Southeast Lower Michigan**

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	1939	17.6	1976	3.6	1982	18.1	1980	3.4	1961
15	16.6	1977	2.0	1918	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	4.2	2015
20	15.5	2013	2.6	1928	13.2	1985	4.4	1924	14.2	1995	4.3	1921

\* 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.

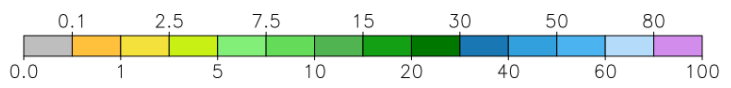
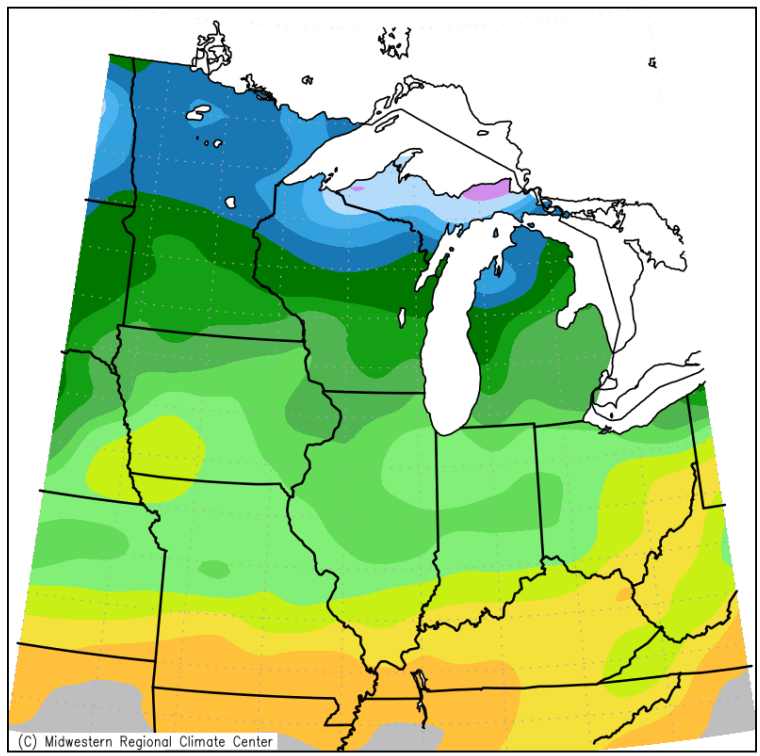




# Season-To-Date 2019-2020 Midwest Snowfall Summary

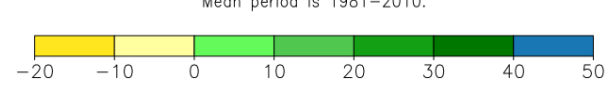
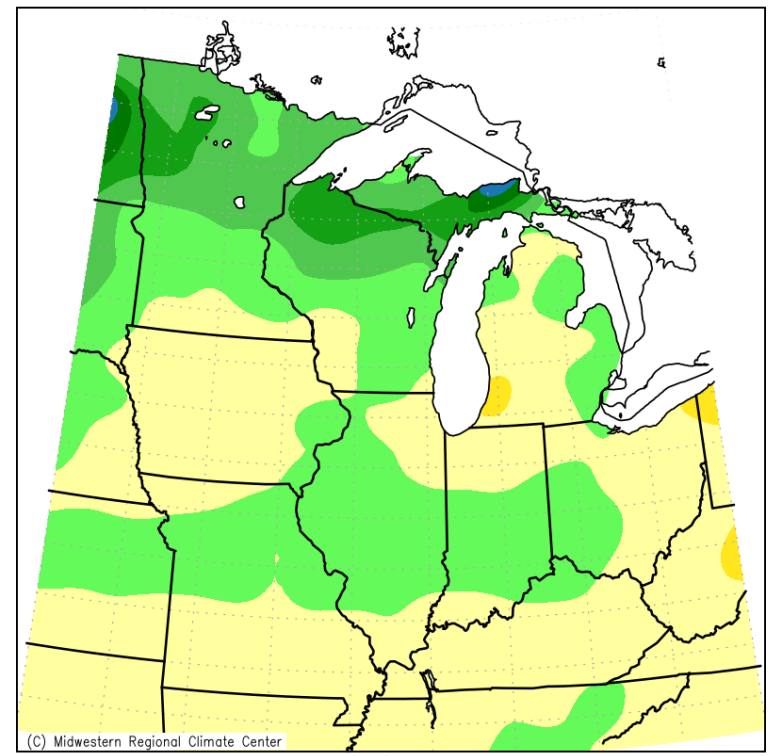
Total Monthly Snowfall (*left*) & Departure From Normal (*right*)

Accumulated Snowfall (in)  
October 1, 2019 to December 31, 2019



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment

Accumulated Snowfall (in): Departure from Mean  
October 1, 2019 to December 31, 2019



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment

