

# Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Weather Forecast Office  
Detroit, MI



# December 2020



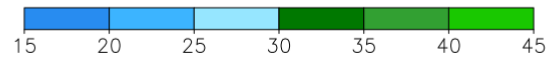
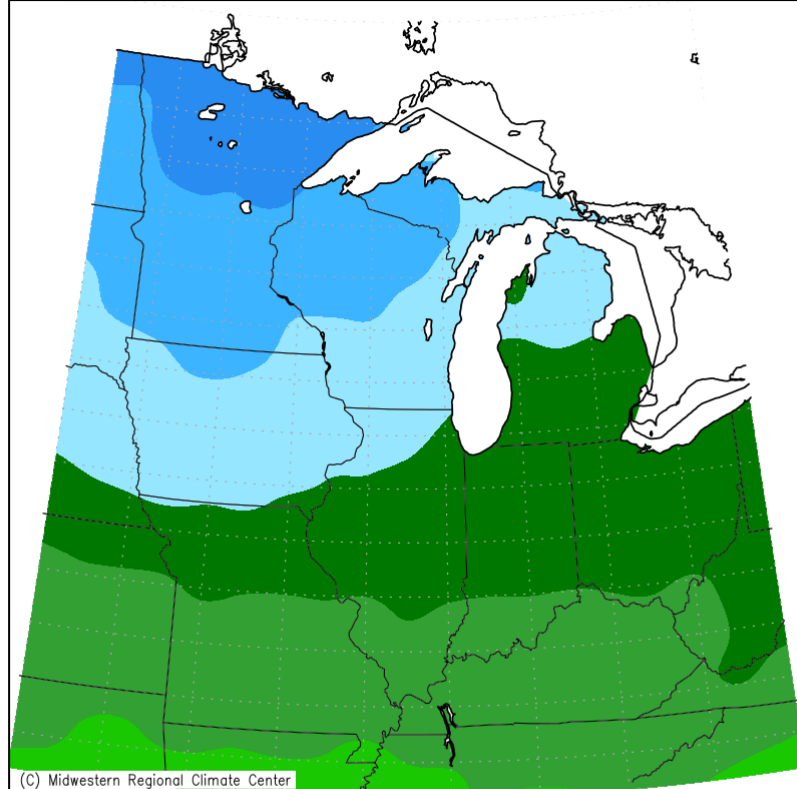
# December 2020 – Regional Temperature Summary

Weather Forecast Office  
Detroit, MI



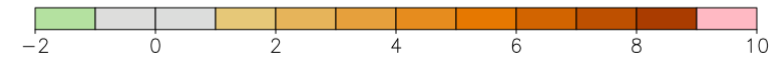
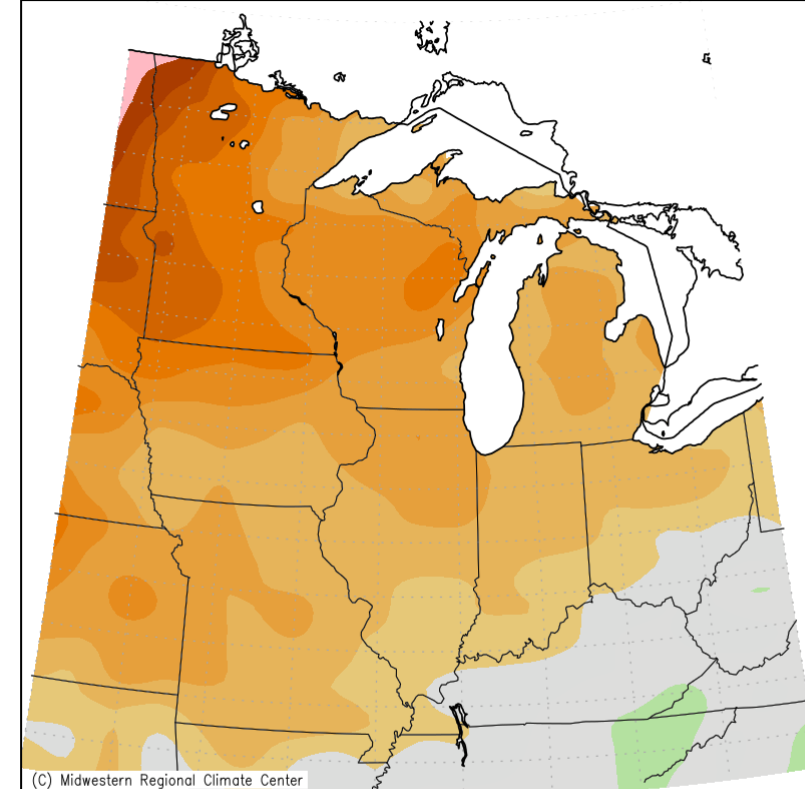
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)  
December 1, 2020 to December 31, 2020




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, 2020 to December 31, 2020



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

December 2020 – 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	55	12	39.7	23.4	31.6	LAPEER 2W	51	17	36.2	25.9	31.1
ADRIAN LENAWEE COUNTY AP	57	16	38.5	24.5	31.5	LAPEER WWTP	52	18	36.6	25.1	30.8
ALGONAC WWTP	53	12	39.9	25.4	32.6	LEXINGTON WATER PLANT	52	18	36.5	26.4	31.5
ANN ARBOR SE	54	16	37.8	23.8	30.8	LINDEN WWTP	52	16	35.3	24.0	29.6
ANN ARBOR U OF MICH	54	14	38.4	24.8	31.6	MANCHESTER	56	16	37.6	24.1	30.9
AUBURN 2NE	51	18	36.5	25.4	31.0	MIDLAND	50	17	35.3	25.8	30.5
BAD AXE	48	16	34.7	26.4	30.5	MORENCI	58	17	39.3	25.3	32.3
BURTON 4N	51	15	36.4	23.9	30.1	NEWPORT 4SSE	53	18	37.6	26.5	32.1
CARO WWTP	51	18	35.7	25.0	30.4	OWOSSO WWTP	53	18	36.3	25.5	30.9
CASS CITY 1 SSW	50	15	35.5	25.1	30.3	PONTIAC INTL AP	53	18	37.2	25.5	31.4
CHELSEA	53	15	36.9	24.8	30.8	PONTIAC WWTP	54	18	36.8	25.9	31.4
DETROIT CITY AP	56	20	39.5	28.1	33.8	PORT HOPE	50	19	37.1	29.5	33.3
<b>DETROIT METRO AIRPORT</b>	<b>58</b>	<b>19</b>	<b>39.0</b>	<b>26.7</b>	<b>32.9</b>	PORT HURON	52	20	37.9	29.2	33.5
DETROIT WILLOW RUN AP	57	18	41.6	27.0	34.3	RICHMOND 4 NNW	53	18	36.7	26.0	31.4
DUNDEE	58	17	38.1	25.5	31.8	SAGINAW #3	51	18	36.2	25.6	30.9
DURAND WWTP	54	17	37.5	25.4	31.5	<b>SAGINAW MBS INTL AP</b>	<b>51</b>	<b>18</b>	<b>36.9</b>	<b>26.6</b>	<b>31.7</b>
FARMINGTON	54	14	36.2	23.5	29.9	SALINE 4SW	54	16	39.2	24.5	31.8
FILION 5NNW	51	25	38.0	31.1	34.6	VASSAR	51	14	37.1	24.1	30.6
FLINT 7W	51	17	36.1	24.7	30.4	WHITE LAKE 4E	52	13	34.9	22.3	28.6
<b>FLINT FCWOS</b>	<b>53</b>	<b>20</b>	<b>39.4</b>	<b>26.8</b>	<b>33.1</b>	WHITMORE LAKE 1NW	53	15	36.5	23.4	30.0
GOODRICH	51	17	36.0	24.5	30.3	YALE 1 NNW	51	18	36.1	25.8	30.7
GROSSE POINTE FARMS	55	18	38.0	27.0	32.5						

# 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	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	33.1	2020	22.0	1980	32.3	1994
14	23.2	1924	35.5	2011	23.0	1995	32.8	2014	22.0	1914	32.2	1913
15	23.3	1910	35.5	1941	23.1	1942	32.8	1939	22.2	1962	32.1	2014
16	23.8	1963	35.4	1994	23.2	1924	32.4	1971	22.4	1926	32.0	1998
17	23.8	1914	35.3	1998	23.9	1937	32.3	1998	22.5	1950	32.0	1918
18	23.9	1886	35.1	2019	24.0	1926	32.2	1987	22.5	1945	31.7	2020
19	24.7	1945	34.8	1956	24.3	2010	32.1	2003	22.5	1942	31.5	1959
20	24.8	1944	34.6	1959	24.3	2005	32.1	1979	22.8	2013	31.4	2018

\* 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.

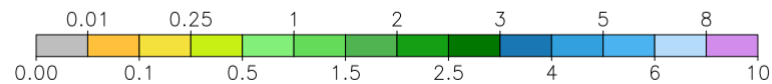
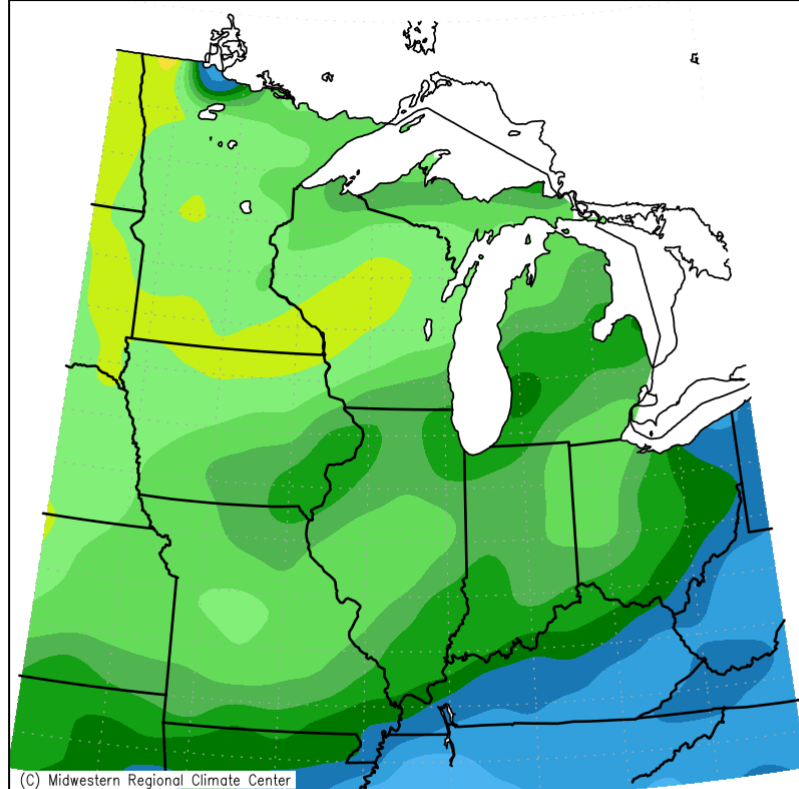
# December 2020 – Regional Precipitation Summary

Weather Forecast Office  
Detroit, MI



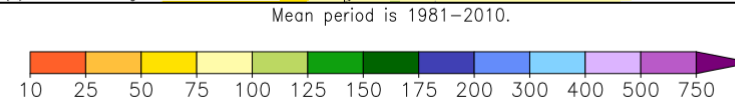
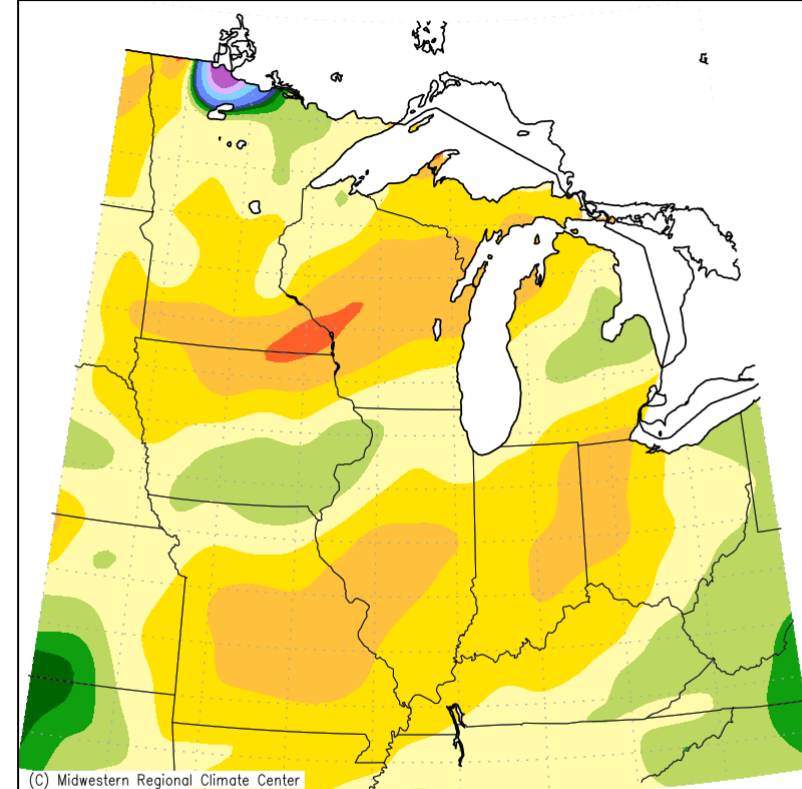
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

Accumulated Precipitation (in)  
December 1, 2020 to December 31, 2020



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 1/5/2021 11:41:47 AM CST

Accumulated Precipitation: Percent of Mean  
December 1, 2020 to December 31, 2020



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

# December 2020 – 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
ADRIAN LENAWEE AP	0.50	0.87	10	FARMINGTON	0.47	1.59	14	OWOSSO WWTP	0.70	1.92	10
ALGONAC WWTP	0.49	1.85	14	FARMINGTON HILLS 1.4 N	0.44	1.60	13	PLEASANT RDG 0.5 WNW	0.38	1.72	13
ANN ARBOR 3.1 SE	0.42	1.36	14	FENTON 2.7 SSE	0.60	1.84	14	PLYMOUTH 5.4 W	0.41	1.44	12
ANN ARBOR 4.5 W	0.32	1.23	13	FENTON 6.2 WSW	0.58	1.56	12	PLYMOUTH 6.3 W	0.38	1.23	11
ANN ARBOR 7.1 W	0.36	1.31	13	FLINT 7W	0.76	2.09	13	PONTIAC INTL AP	0.71	1.21	12
ANN ARBOR SE	0.32	1.73	15	<b>FLINT FCWOS</b>	<b>1.08</b>	<b>1.70</b>	<b>13</b>	PONTIAC WWTP	0.47	1.85	12
ANN ARBOR U OF MICH	0.66	1.67	16	FRASER 1.2 N	0.33	1.52	12	PORT HOPE	1.06	2.40	16
BAD AXE	0.74	2.33	16	GOODRICH	0.39	1.00	13	PORT HURON	0.76	1.53	12
BAY CITY 2.4 W	0.65	1.45	5	GRAND BLANC 2.9 SE	0.62	1.86	13	PORT HURON 1.6 W	0.61	1.87	15
BAY PORT 3.2 SSW	0.89	2.02	14	GROSSE POINTE FARMS	0.37	1.63	12	PORT HURON 2.8 WSW	0.54	1.79	13
BURTON 4N	0.64	2.35	13	HIGHLAND 1.3 NE	0.55	1.65	12	RICHMOND 4 NNW	0.54	2.13	14
CANTON 2.7 N	0.43	1.42	14	LAPEER 2W	0.78	2.24	16	ROSEVILLE 1.7 ENE	0.46	1.79	14
CARO WWTP	0.92	2.26	12	LAPEER WWTP	0.55	2.04	15	SAGINAW 6.4 W	0.75	1.89	10
CASS CITY 1 SSW	0.53	2.09	12	LEXINGTON WWTP	0.62	2.10	12	SAGINAW #3	0.76	2.13	8
CHELSEA	0.48	1.33	11	LINDEN WWTP	0.55	1.51	12	<b>SAGINAW MBS INTL AP</b>	<b>1.34</b>	<b>1.97</b>	<b>11</b>
CHELSEA 2.4 S	0.43	1.15	10	LIVONIA 2.0 NE	0.50	1.51	14	SALINE 2.7 SSW	0.35	1.05	11
CHELSEA 3.7 NNE	0.40	1.46	13	MANCHESTER	0.63	1.21	10	SALINE 3.8 SSW	0.37	1.15	9
CHESANING	1.38	2.15	12	MIDLAND	1.60	2.61	12	SHELBY 0.4 SSE	0.64	1.79	15
CHESTERFIELD 2.4 E	0.50	1.59	13	MIDLAND 1.5 NNE	1.13	2.66	8	TROY 1.8 S	0.56	1.56	14
DAVISBURG 1.3 ESE	0.43	1.78	14	MIDLAND 2.9 SW	0.84	2.40	11	UTICA 2.9 E	0.43	1.60	14
DAVISON 5.2 N	0.44	1.44	12	MILLINGTON 3 SE	1.12	2.13	8	VASSAR	0.72	2.50	12
DETROIT CITY AP	0.48	0.87	13	MONROE 3.0 S	0.27	1.31	14	WATERFORD 2.1 NW	0.41	1.45	13
<b>DETROIT METRO AIRPORT</b>	<b>0.51</b>	<b>1.36</b>	<b>13</b>	MORENCI	0.27	1.37	11	WHITE LAKE 0.5 E	0.56	1.59	11
DETROIT WILLOW RUN AP	0.68	1.10	10	NEW BALTIMORE 0.4 SSE	0.40	1.58	13	WHITE LAKE 4E	0.95	1.72	13
DEXTER 0.3 ENE	0.35	1.37	13	NEWPORT 4SSE	0.29	1.33	14	WIXOM 2.0 NNW	0.51	1.69	14
DEXTER 2.2 SE	0.36	1.40	13	ORTONVILLE 2.3 S	0.45	1.83	14	WYANDOTTE	0.53	1.98	14
DURAND 6.2 WNW	0.86	2.05	10	OTTAWA LAKE 1.4 SSW	0.31	1.08	14	YALE 1 NNW	0.52	1.99	13

# 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	0.92	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.

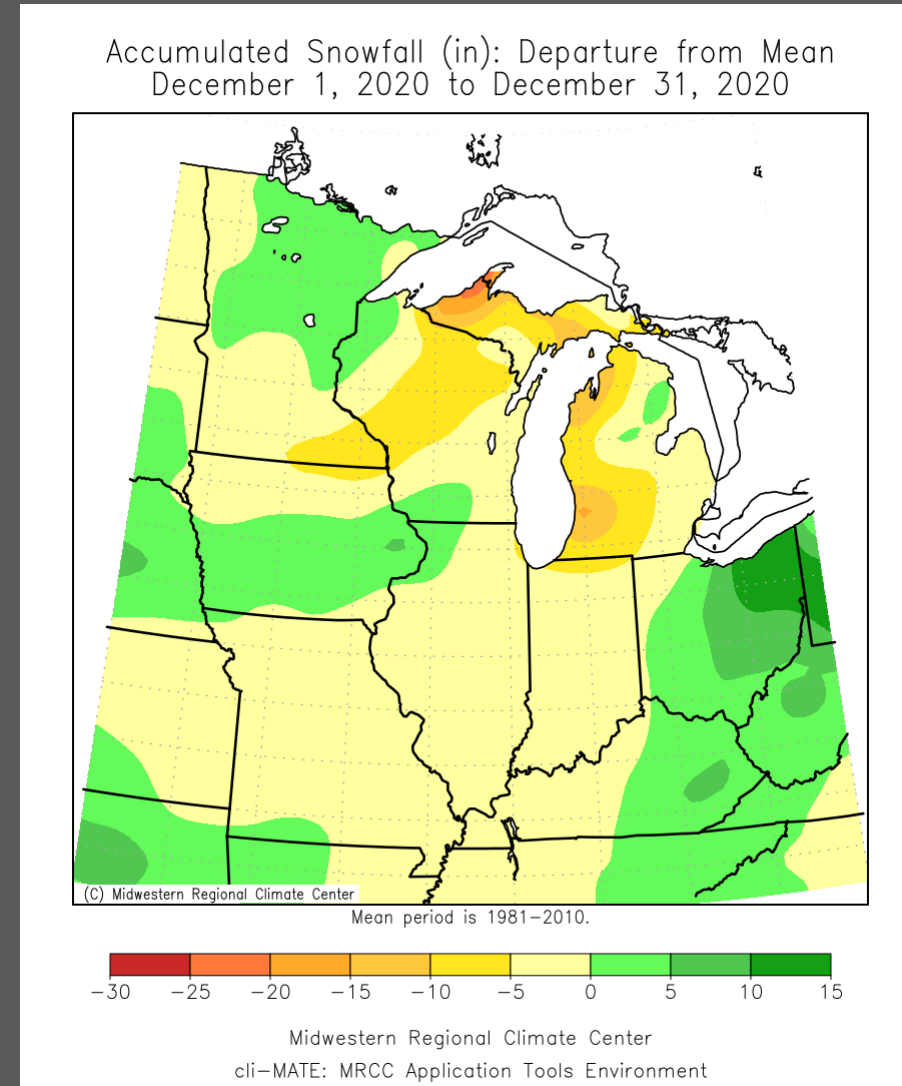
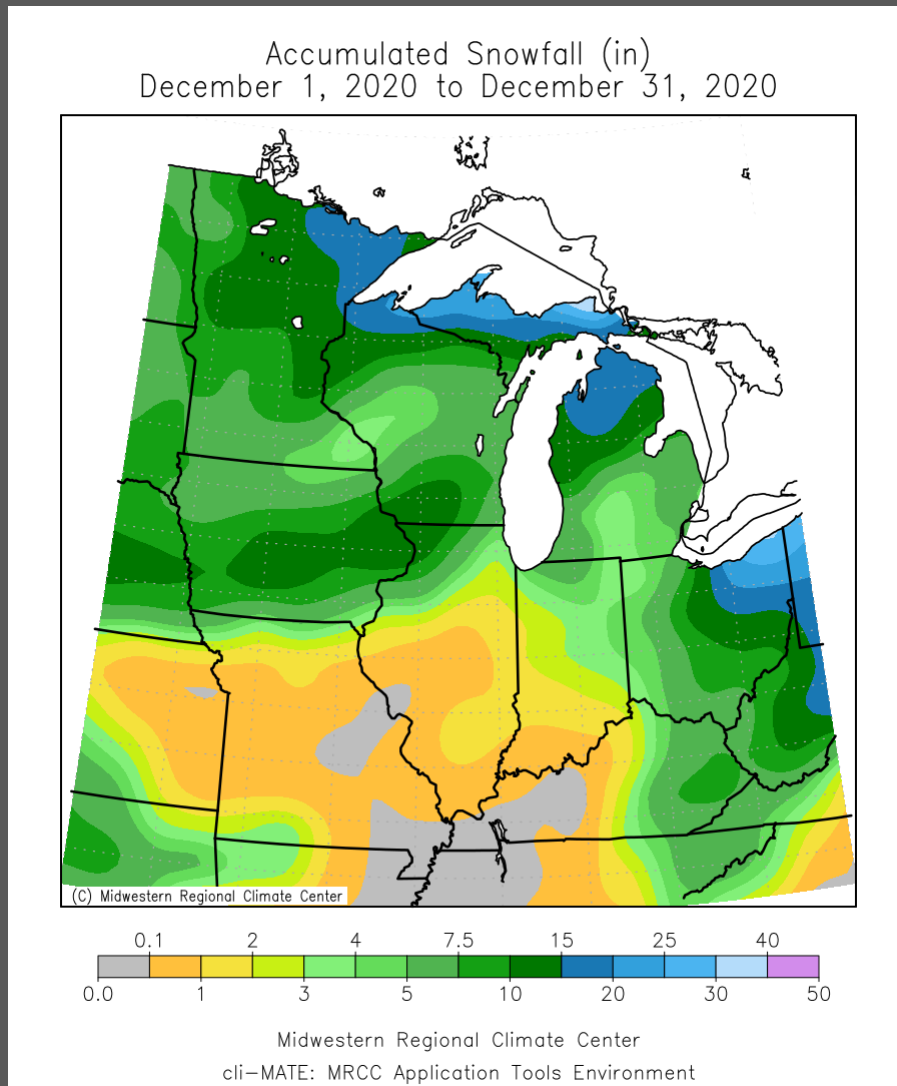
\*\*\* Saginaw Area precipitation records date back to January 1912.

# December 2020 – Regional Snowfall Summary

Weather Forecast Office  
Detroit, MI



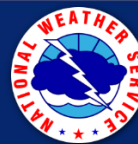
Total Monthly Snowfall (*left*) & Departure from Normal (*right*)





# December 2020 – 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
ADRIAN 2 NNE	1.5	4.0	4
ALGONAC WWTP	2.0	7.1	6
ANN ARBOR 2.1 WNW	2.2	6.5	7
ANN ARBOR 3.1 SE	1.2	5.2	7
ANN ARBOR 4.5 W	1.8	4.3	7
ANN ARBOR 7.1 W	2.0	6.2	7
ANN ARBOR SE	2.7	9.3	11
ANN ARBOR U OF MICH	2.2	8.0	11
AUBURN 2NE	2.5	5.2	9
BAD AXE	2.5	6.9	11
BAY PORT 3.2 SSW	2.8	4.4	6
BURTON 4N	1.7	6.0	8
CANTON 2.7 N	1.2	4.6	7
CARO WWTP	2.1	4.7	6
CASS CITY 1 SSW	2.4	7.9	7
CHELSEA	1.0	2.4	4
CHELSEA 3.7 NNE	1.8	5.3	7
CHESANING	1.9	2.1	3
DAVISON 5.2 N	1.0	3.6	8
<b>DETROIT METRO AP</b>	<b>2.7</b>	<b>9.6</b>	<b>7</b>
DEXTER 0.3 ENE	1.0	3.5	5
DUNDEE	1.5	3.8	5
DURAND 6.2 WNW	1.0	2.5	4

Location	Highest Daily Total	Monthly Total	# of Days with Snow
FARMINGTON	1.2	5.0	7
FARMINGTON HLS 1.4 N	2.0	7.8	7
FENTON 6.2 WSW	1.0	3.4	7
FILION 5NNW	1.2	6.1	11
FLINT 7W	2.0	5.2	7
<b>FLINT FCWOS</b>	<b>2.1</b>	<b>5.0</b>	<b>6</b>
FRASER 1.2 N	2.0	3.3	4
GOODRICH	1.8	4.6	8
GROSSE POINTE FARMS	2.0	5.4	4
HIGHLAND 1.3 NE	2.2	5.7	6
LAPEER 2W	2.0	7.9	9
LAPEER WWTP	2.3	7.8	6
LEXINGTON WWTP	2.0	5.2	4
LINDEN WWTP	1.0	2.4	6
LIVONIA 2.0 NE	1.0	4.5	7
MANCHESTER	1.0	3.5	5
MIDLAND 1.5 NNE	3.5	5.8	7
MILLINGTON 3 SE	3.4	9.2	6
MONROE 3.0 S	2.4	7.2	7
MORENCI	1.4	4.7	7
NEW BALTIMORE 0.4 SSE	3.1	8.8	7
NEWPORT 4SSE	2.3	6.9	6
OIL CITY 2S	4.8	5.8	5

Location	Highest Daily Total	Monthly Total	# of Days with Snow
OTTAWA LAKE 1.4 SSW	2.0	5.8	6
OWOSSO WWTP	1.3	2.3	5
PLEASANT RIDGE 0.5 WNW	1.6	5.4	6
PLYMOUTH 5.4 W	0.9	4.1	6
PONTIAC WWTP	1.0	4.1	6
PORT HURON	2.0	2.9	4
PORT HURON 1.6 W	2.8	9.6	7
RICHMOND 4 NNW	3.1	10.3	7
SAGINAW 6.4 W	2.0	2.4	3
SAGINAW 8NW	2.8	3.6	5
SAGINAW #3	1.6	2.2	5
<b>SAGINAW MBS INTL AP</b>	<b>2.5</b>	<b>4.1</b>	<b>7</b>
SALINE 3.8 SSW	1.0	3.5	4
SALINE 4SW	1.4	4.7	6
SHELBY 0.4 SSE	1.5	5.7	5
TECUMSEH	1.6	3.0	3
TIPTON 2WNW	1.6	3.3	4
VASSAR	2.0	4.3	5
WATERFORD 2.1 NW	1.1	4.6	7
WHITE LAKE 4E	3.2	7.5	8
WYANDOTTE	3.5	12.0	7
YALE 1 NNW	3.0	10.4	10

# 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	1948
10	19.9	1983	1.4	1888	20.0	1983	2.6	1928	19.5	1978	2.8	2006
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	4.1	2020
20	15.5	2013	2.6	1928	13.2	1985	4.4	1924	14.2	1995	4.2	2015

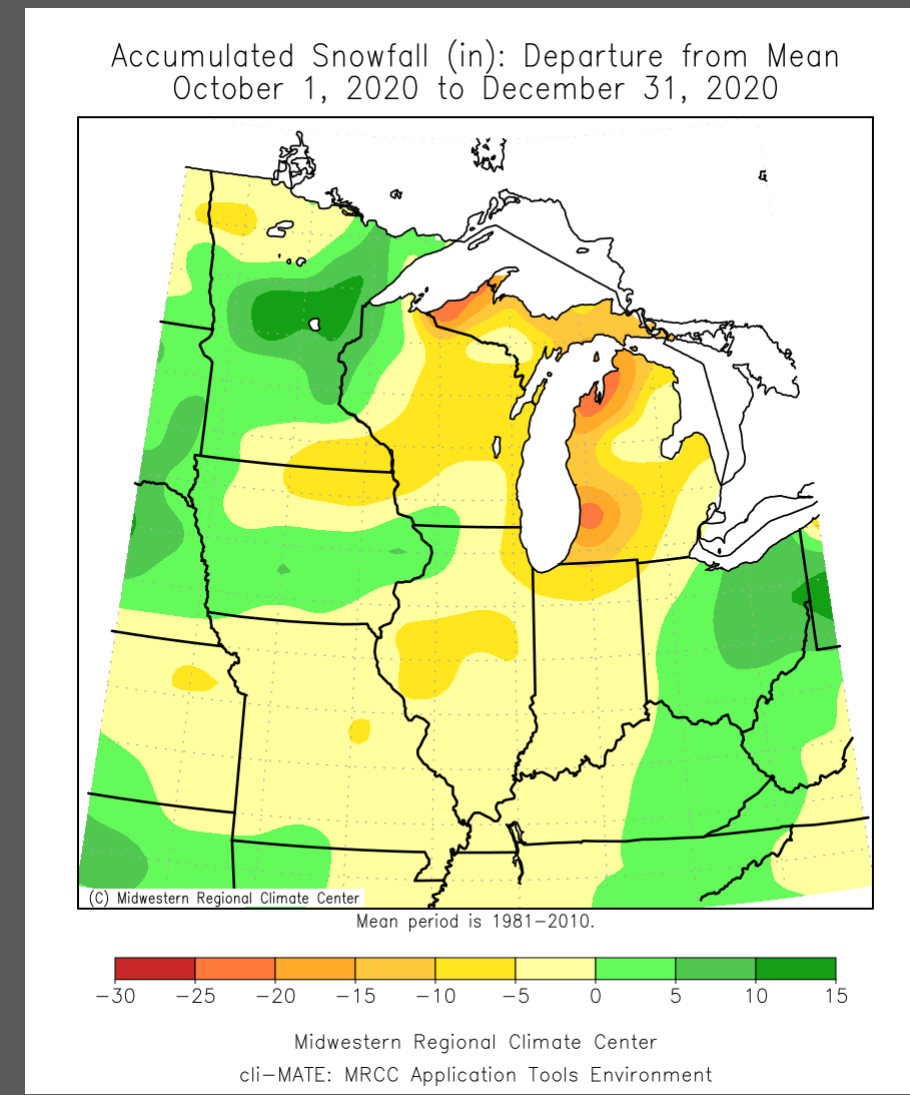
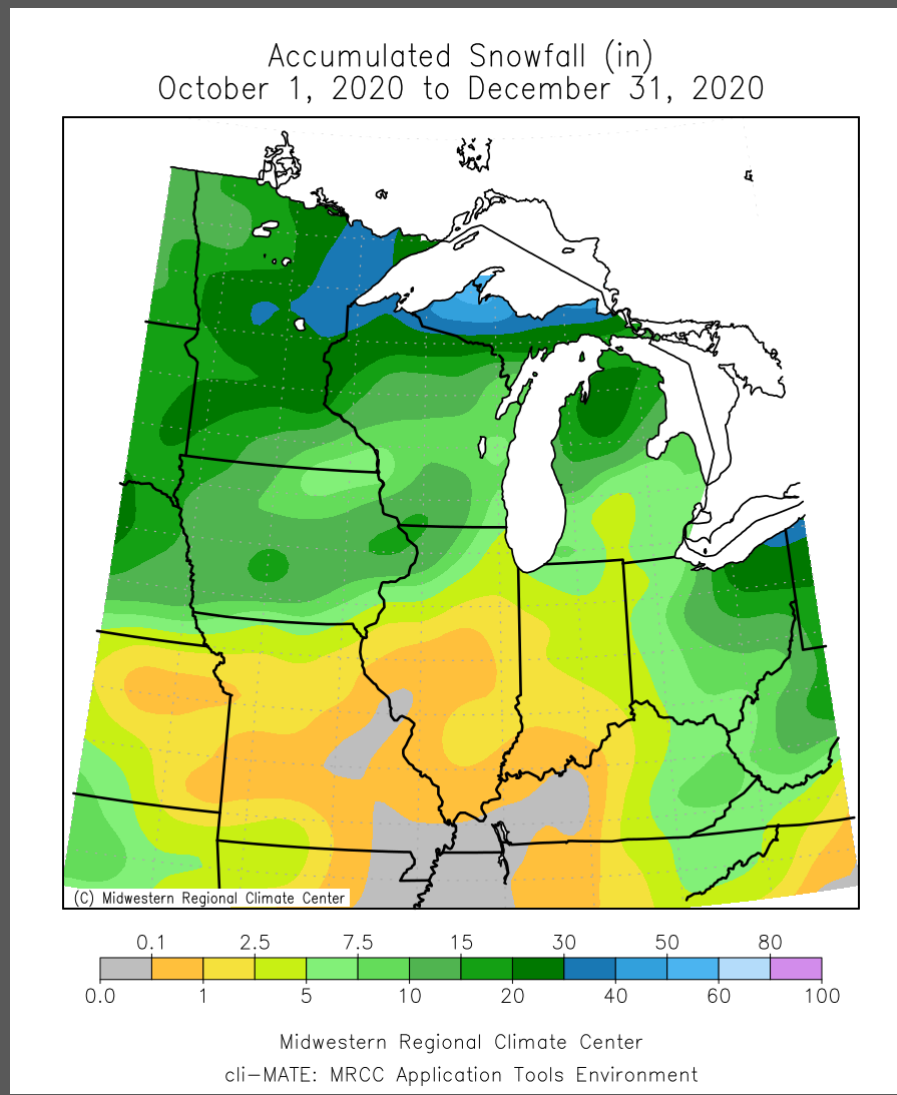
\* Detroit Area snowfall records date back to January 1880.

\*\* 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)



# December 2020 - Significant Weather Events

Follow links for web summaries

Weather Forecast Office  
Detroit, MI



No Significant Events in December



Observed Weather | Climate Locations | Climate Prediction | Climate Resources | Local Data/Records | Astronomical | NOWData

### Observed Weather Reports

1. Product »  
 Daily Climate Report (CLI)  
 Preliminary Monthly Climate Data (CF6)  
 Record Event Report (RER)  
 Monthly Weather Summary (CLM)  
 Regional Summary (RTP)  
 State Summary (Temp/Precip)

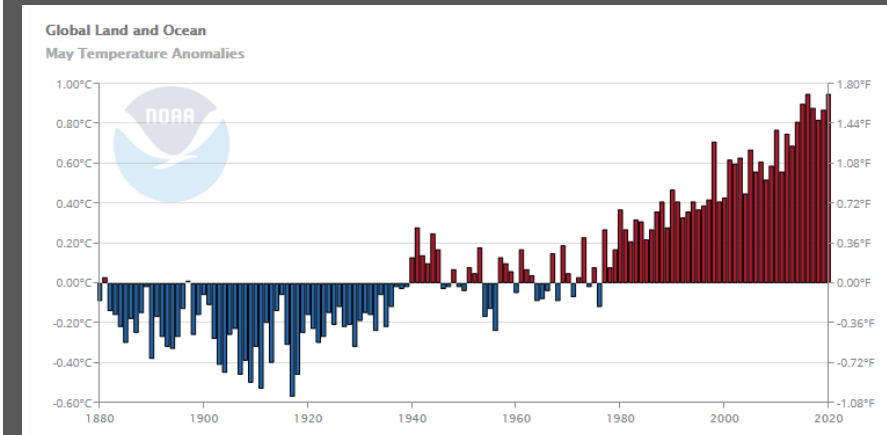
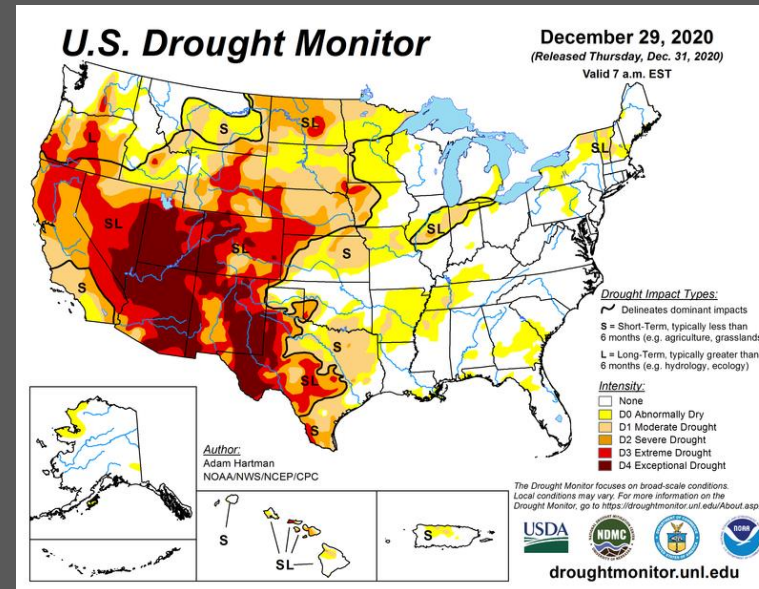
2. Location »  
Detroit  
Flint  
Saginaw

3. Timeframe »  
 Most Recent  
 Archived Data:  
July 3rd, 2020  
July 2nd, 2020  
July 1st, 2020  
June 30th, 2020  
June 29th, 2020  
June 28th, 2020

4. View »  
**Go**

[Storm Event Database \(NCDC\)](#)

**Product Description:**  
DAILY CLIMATE REPORT - issued daily:  
Detailed daily weather statistics (usually for yesterday), including temperature, precipitation, degree days, wind, humidity, sunrise/sunset, and record temperature data for the following day. Precipitation data includes both calendar year and water year totals, percent of normal values, and comparisons to normal. This product is



**SE Michigan Climate Products**

[weather.gov/climate/index.php?wfo=dtx](https://weather.gov/climate/index.php?wfo=dtx)

**U.S. Drought Monitor**

[drought.gov/drought/data-maps-tools/current-conditions](https://drought.gov/drought/data-maps-tools/current-conditions)

**NOAA NCEI Climate at a Glance**

[ncdc.noaa.gov/cag/](https://ncdc.noaa.gov/cag/)

Thank you to our COOP and CoCoRaHS volunteer weather observers!