



Southeast Michigan Climate Summary

Monthly Temperature, Precipitation, and Snowfall Summaries

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

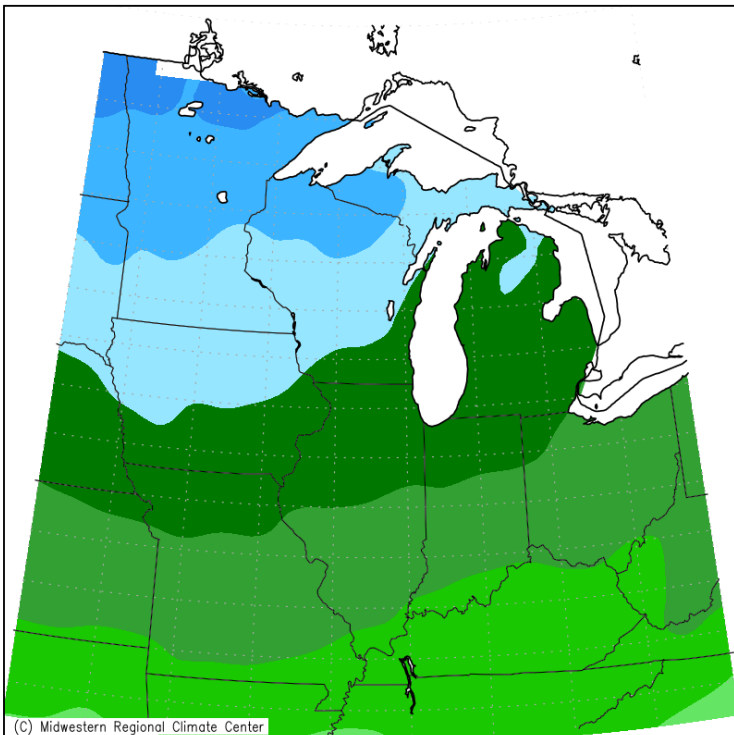




November 2018 – Regional Temperature Summary

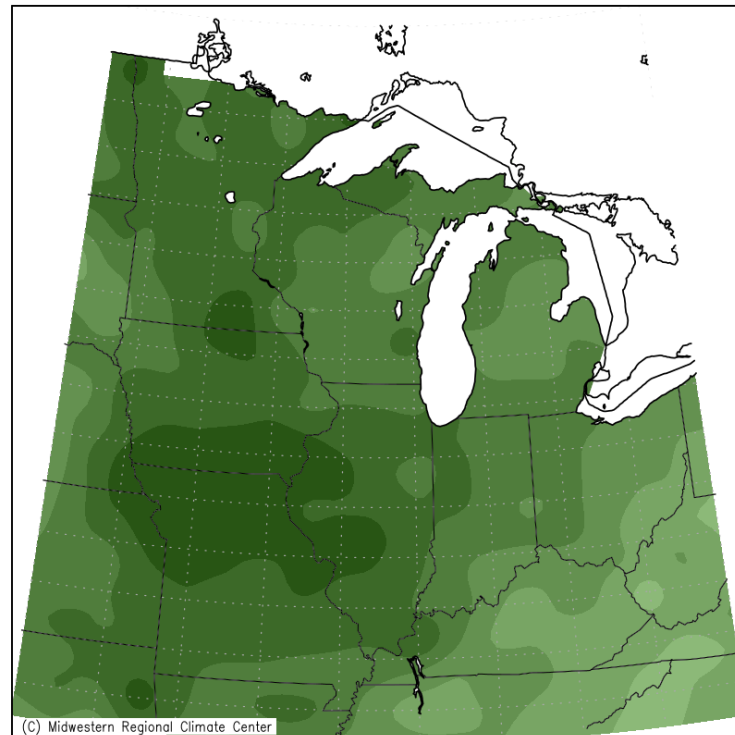
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)
November 1, 2018 to November 30, 2018



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

Average Temperature (°F): Departure from Mean
November 1, 2018 to November 30, 2018



Mean period is 1981-2010.



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Illinois State Water Survey, Prairie Research Institute
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November 2018 – SE Michigan Temp Summary

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

Location	Temperature	Departure
ADRIAN 2 NNE	34.3	-4.3
ADRIAN LENAWEE COUNTY AP	34.4	-6.0
ALGONAC WWTP	36.7	-4.9
ANN ARBOR MUNICIPAL AP	33.7	-5.3
ANN ARBOR SE	34.0	-5.2
ANN ARBOR U OF MICH	34.4	-6.0
AUBURN 2NE	32.6	-3.6
BAD AXE	33.2	-4.8
BURTON 4N	34.1	-5.3
CARLETON 2W	36.4	-3.2
CARO WWTP	32.8	-5.0
CASS CITY 1 SSW	32.2	-4.7
CHELSEA	34.1	-5.2
CORUNNA 2 NE	34.1	-4.6
DEARBORN	36.9	-4.6
DEARBORN NO. 2	36.7	-4.6
DETROIT CITY AP	35.8	-5.7
DETROIT METROPOLITAN AP	37.1	-4.5
DETROIT WILLOW RUN AP	36.9	-2.8
DUNDEE	35.3	-5.9
DURAND WWTP	32.8	-6.0
FARMINGTON	33.2	-5.7
FILION 5NNW	34.7	-4.5
FLINT 7 W	33.6	-4.6
FLINT BISHOP INTL AP	33.3	-5.6
FRANKENMUTH 1SE	31.8	-5.6
GOODRICH	33.6	-5.2
GROSSE POINTE FARMS	35.2	-4.7
HARBOR BEACH 1 SSE	32.1	-1.5
LAPEER 2W	35.3	-4.5

Location	Temperature	Departure
LAPEER WWTP	34.2	-4.2
LEXINGTON WATER PLANT	34.1	-5.1
LINDEN WWTP	33.0	-5.7
MANCHESTER	33.8	-4.8
MIDLAND	33.0	-5.5
MILAN WWTP	35.1	-5.3
MILFORD GM PROVING GROUND	32.7	-5.8
MONROE	34.3	-3.9
MORENCI	34.5	-5.2
NEWPORT 4SSE	36.5	-6.1
OIL CITY 2S	32.3	M
OWOSSO WWTP	33.8	-5.2
PONTIAC OAKLAND COUNTY INTL AP	33.7	-5.6
PONTIAC WWTP	34.8	-3.8
PORT AUSTIN WWTP	32.2	-5.1
PORT HOPE	35.0	-4.8
PORT HURON	35.7	-4.8
RICHMOND 4 NNW	34.7	-3.2
SAGINAW #3	33.6	-5.5
SAGINAW MBS INTL AP	34.0	-4.5
SALINE	34.2	-4.2
SALINE 4SW	34.8	-5.0
TECUMSEH	33.3	-5.8
TIPTON 2WNNW	33.2	-6.8
VASSAR	33.6	-4.1
WHITMORE LAKE 1NW	33.4	-5.0
YALE 1 NNW	32.4	-5.4





November – Top 20 Coldest/Warmest

Top 20 Coldest/Warmest Novembers 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	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	46.2	1931	32.5	1959	45.6	2015
4	34.5	1875	46.8	1975	33.0	1959	46.0	2015	33.3	1976	45.4	2016
5	34.6	1951	46.7	2016	33.3	2018	44.6	2016	33.6	1933	45.3	2001
6	34.9	1894	46.6	2011	33.3	1976	44.4	1934	33.9	1996	43.2	2009
7	35.2	1967	46.0	2015	34.5	1936	43.8	1938	33.9	1955	43.1	2011
8	35.4	1936	46.0	1963	34.5	1933	43.7	2011	34.0	2018	43.0	1963
9	35.5	1995	45.7	1948	34.8	1967	43.3	1963	34.2	1989	42.4	1999
10	35.5	1911	45.5	1994	34.8	1955	43.2	1948	34.2	1967	42.4	1948
11	35.7	1910	45.3	2009	35.0	1947	42.8	1999	34.2	1950	42.2	1934
12	35.7	1892	45.2	1999	35.1	1929	42.5	2003	34.3	1947	41.8	1994
13	35.8	2014	44.9	1964	35.2	1950	42.5	1994	34.4	1986	41.8	1938
14	36.0	1933	44.9	1909	35.2	1921	42.4	2009	34.6	2014	41.6	1990
15	36.4	1903	44.5	1953	35.3	2014	42.4	1990	34.7	1949	41.6	1964
16	36.4	1901	44.3	2003	35.4	1986	42.2	1924	35.1	1943	41.6	1913
17	36.6	1959	44.3	1883	35.5	1997	41.8	1998	35.1	1925	41.5	1953
18	36.6	1891	44.2	1990	35.6	1943	41.8	1953	35.2	1926	41.4	1930
19	36.7	1950	43.9	1946	35.8	1949	41.6	1987	35.2	1919	41.3	1998
20	36.9	1929	43.7	1998	35.9	1989	41.5	2005	35.4	2002	41.2	1927

* 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.

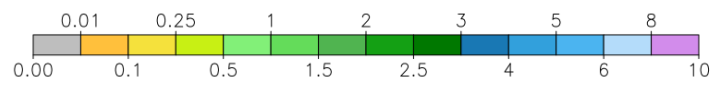
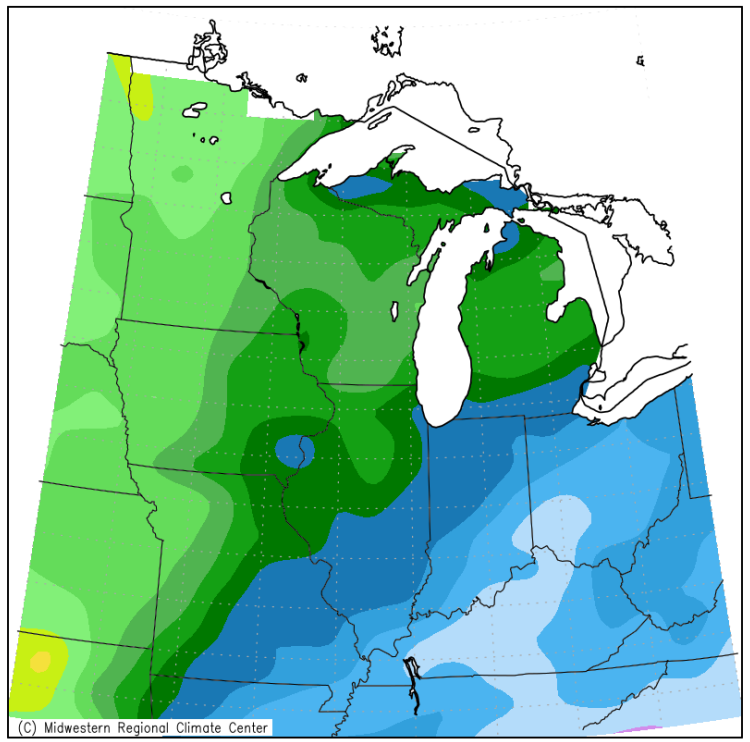




November 2018 – Regional Precipitation Summary

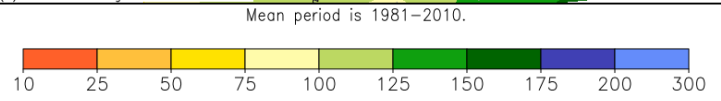
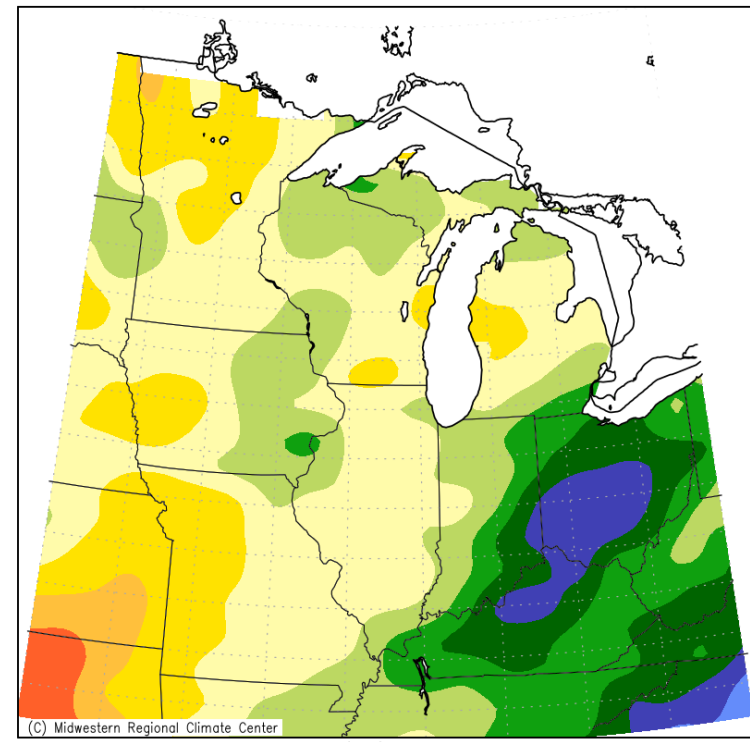
Total Monthly Precipitation (left) & Percent of Mean (right)

Accumulated Precipitation (in)
November 1, 2018 to November 30, 2018



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

Accumulated Precipitation: Percent of Mean
November 1, 2018 to November 30, 2018



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





November 2018 – SE Michigan Precipitation Summary

Average Precipitation (left column) & Departure from Average (right column)

Location	Precipitation	Departure
ADRIAN 2 NNE	2.83	0.05
ADRIAN LENAWEE COUNTY AP	3.18	0.27
ALGONAC WWTP	3.53	1.26
ANN ARBOR MUNICIPAL AP	2.99	0.23
ANN ARBOR SE	3.78	1.01
ANN ARBOR U OF MICH	3.66	0.57
BAD AXE	1.98	-0.81
BELLEVILLE 2.8 ESE	3.05	N/A
BLISSFIELD 1.2 WNW	2.18	N/A
BLOOMFIELD TOWNSHIP 3.1 SW	3.15	N/A
BRITTON 3.7 ENE	1.97	N/A
BROOKLYN 4.4 SSW	2.32	N/A
BURTON 4N	2.05	N/A
CANTON 1.3 W	2.21	N/A
CANTON 2.7 N	3.52	N/A
CARO WWTP	2.15	-0.42
CASS CITY 1 SSW	2.53	-0.32
CHELSEA	3.37	0.74
CHESANING	1.78	-1.01
CLARKSTON 1.4 NE	1.82	N/A
CLINTON 2.3 N	1.93	N/A
DEARBORN	3.27	0.76
DEARBORN NO. 2	3.29	0.60
DETROIT 4.4 S	3.36	N/A
DETROIT METROPOLITAN AP	3.63	0.84
DEXTER 0.9 NW	2.78	N/A
DEXTER 2.2 SE	3.41	N/A
DUNDEE	4.62	1.76
DURAND 6.2 WNW	2.38	N/A
FARMINGTON	3.14	0.38

Location	Precipitation	Departure
FENTON 2.7 SSE	2.46	N/A
FLAT ROCK 0.7 NNW	2.25	N/A
FLINT BISHOP INTL AP	1.76	-0.91
FRASER 1.2 N	3.36	N/A
GOODRICH	1.96	-0.78
GROSSE ILE 1.6 N	3.65	N/A
GROSSE POINTE FARMS	3.63	0.68
HARBOR BEACH 1 SSE	2.81	-0.35
HIGHLAND 1.3 NE	2.91	N/A
LAPEER 2W	2.47	-0.15
LAPEER WWTP	2.56	-0.11
LEXINGTON WATER PLANT	2.89	0.18
LINDEN WWTP	2.15	-0.60
LIVONIA 2.0 NE	3.19	N/A
MANCHESTER	3.45	0.66
MIDLAND 2.9 SW	2.68	N/A
MILAN WWTP	3.85	1.03
MILLINGTON 3 SE	2.01	N/A
MONROE	3.95	N/A
MONROE 3.0 S	3.88	N/A
MORENCI	3.88	1.05
NEW BALTIMORE 0.4 SSE	3.44	N/A
NEWPORT 4SSE	2.64	0.67
OIL CITY 2S	2.24	N/A
ORCHARD LAKE VILLAGE 0.9 WSW	1.89	N/A
ORTONVILLE 2.3 S	2.48	N/A
OTTAWA LAKE 1.4 SSW	3.79	N/A
OWOSSO WWTP	2.21	-0.43
PINCKNEY 3.4 NW	1.94	N/A
PLEASANT RIDGE 0.5 WNW	3.35	N/A

Location	Precipitation	Departure
PLYMOUTH 6.3 W	2.86	N/A
PONTIAC OAKLAND COUNTY INTL AP	1.97	-0.80
PONTIAC WWTP	3.13	0.38
PORT HOPE	2.03	-0.69
PORT HURON	2.71	-0.40
RICHMOND 4 NNW	2.67	-0.14
ROSEVILLE 1.7 ENE	2.63	N/A
SAGINAW #3	2.06	-0.67
SAGINAW MBS INTL AP	2.04	-0.66
SALINE	2.77	0.64
SALINE 4SW	3.47	0.73
SHELBY 0.4 SSE	3.23	N/A
SHELBY 2.6 SW	2.14	N/A
TECUMSEH	3.94	0.99
TIPTON 2WNW	2.69	0.05
TROY 1.8 S	3.74	N/A
UTICA 2.9 E	2.41	N/A
VASSAR	2.24	-0.65
WATERFORD 2.1 NW	2.51	N/A
WHITE LAKE 0.5 E	2.65	N/A
WHITMORE LAKE 1NW	3.01	0.33
WYANDOTTE	3.91	1.01
YALE 1 NNW	2.61	-0.04



November – Top 20 Wettest/Driest

Top 20 Wettest/Driest Novembers 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	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	1.05	1997	3.76	1952	0.92	1930
14	4.28	1983	0.97	1937	3.71	1935	1.13	1999	3.67	1994	1.04	1917
15	4.19	1979	1.00	1901	3.64	1979	1.18	1945	3.64	1940	1.11	1956
16	4.19	1895	1.10	1936	3.58	1942	1.20	1964	3.55	1989	1.14	1923
17	4.14	1948	1.15	1894	3.51	1994	1.22	1976	3.51	1958	1.15	2001
18	4.10	1877	1.18	1903	3.46	1983	1.32	1993	3.49	1931	1.20	2002
19	4.05	1950	1.20	1965	3.39	1921	1.32	1922	3.25	1991	1.22	1971
20	3.68	1893	1.21	1916	3.29	1987	1.38	2002	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 – Top 20 Snowiest/Snowless

Top 20 Snowiest/Snowless Novembers 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	11.8	1966	0.0	1934	16.2	1951	0.0	1990	23.0	1995	0.0	1973
2	10.6	1933	0.0	1990	13.5	1966	0.0	1934	20.3	1966	0.0	1982
3	10.1	1932	0.0	1998	12.4	1950	0.0	1999	17.9	1951	0.0	1990
4	9.2	1950	0.0	1999	12.1	1940	0.0	1944	17.0	1940	0.0	1998
5	9.1	1940	0.0	1901	11.1	2018	0.0	2016	13.5	1933	0.0	1999
6	8.9	1898	0.0	1944	10.8	2015	0.0	1961	12.5	2018	0.0	2001
7	8.3	1951	0.0	1952	10.5	1975	0.0	2001	12.3	1947	0.0	2009
8	8.3	1921	0.0	1968	10.4	1971	0.0	2009	11.0	1985	0.0	2017
9	8.1	1959	0.0	1961	10.0	1921	0.0	1946	9.9	1977	0.0	1994
10	7.9	1925	0.0	2001	9.4	1979	0.0	1927	9.6	1950	0.0	1934
11	7.7	1974	0.0	2009	9.2	2008	0.0	1931	8.8	2008	0.0	1931
12	7.7	1880	0.0	2017	9.2	1974	0.0	1939	8.5	1975	0.0	1963
13	7.4	1977	0.0	1994	8.9	1972	0.0	1963	8.1	1949	0.0	1948
14	7.1	1972	0.0	2010	8.7	2014	0.0	1987	7.8	1971	0.0	1988
15	7.0	1911	0.0	1899	7.8	1989	0.0	1948	7.6	1959	0.0	1923
16	6.9	1894	0.0	1939	6.9	1949	0.0	1973	7.0	2004	0.1	1970
17	6.8	1891	0.0	1963	6.9	1925	0.0	1923	7.0	1921	0.1	1939
18	6.7	2018	0.0	1948	6.3	1933	0.2	2010	6.8	2011	0.1	1929
19	6.7	1956	0.0	1896	6.2	1978	0.2	1998	6.1	2000	0.2	1952
20	6.6	1892	0.1	2006	6.2	1969	0.3	2017	6.0	1991	0.2	2016

* 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.



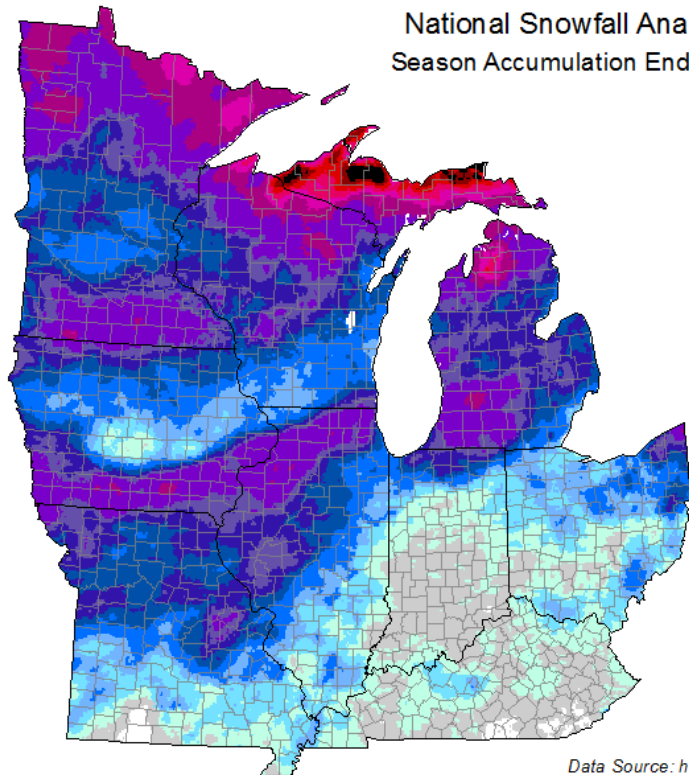


Cold Season 2018-2019 Snowfall Summary

Total Seasonal Snowfall (left) & Percent of Mean (right)

National Snowfall Analysis: Estimated (inches)
Season Accumulation Ending at 12 UTC on 12/3/2018

NOHRSC Prototype data

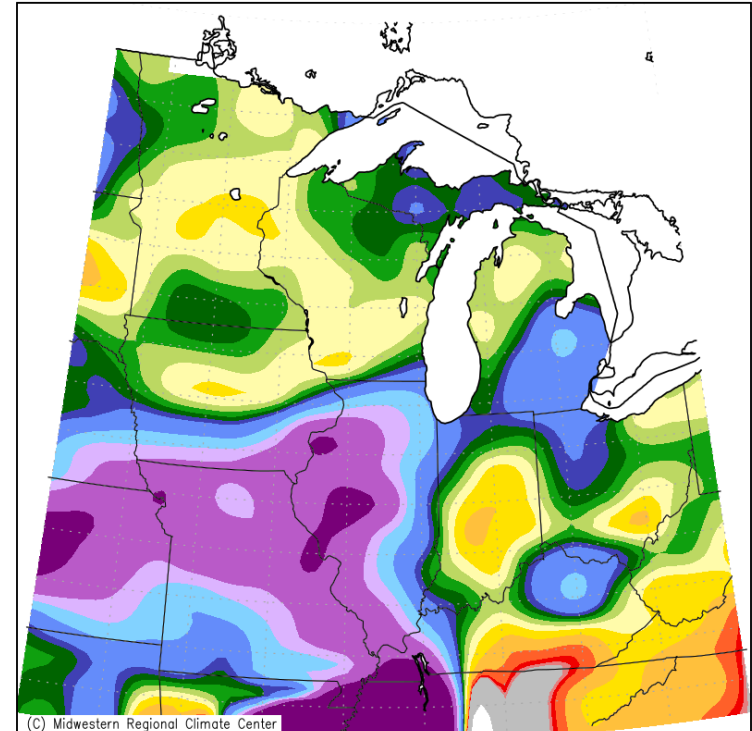


- > 48
- 42 to 48
- 36 to 42
- 30 to 36
- 24 to 30
- 18 to 24
- 12 to 18
- 10 to 12
- 8.0 to 10
- 6.0 to 8.0
- 4.0 to 6.0
- 3.0 to 4.0
- 2.0 to 3.0
- 1.0 to 2.0
- 0.1 to 1.0
- < 0.1



Data Source: http://www.nohrsc.noaa.gov/snowfall_v2

Accumulated Snowfall: Percent of Mean
July 1, 2018 to December 2, 2018



(C) Midwest Regional Climate Center

Mean period is 1981-2010.



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

