

Southeast Michigan Climate Summary

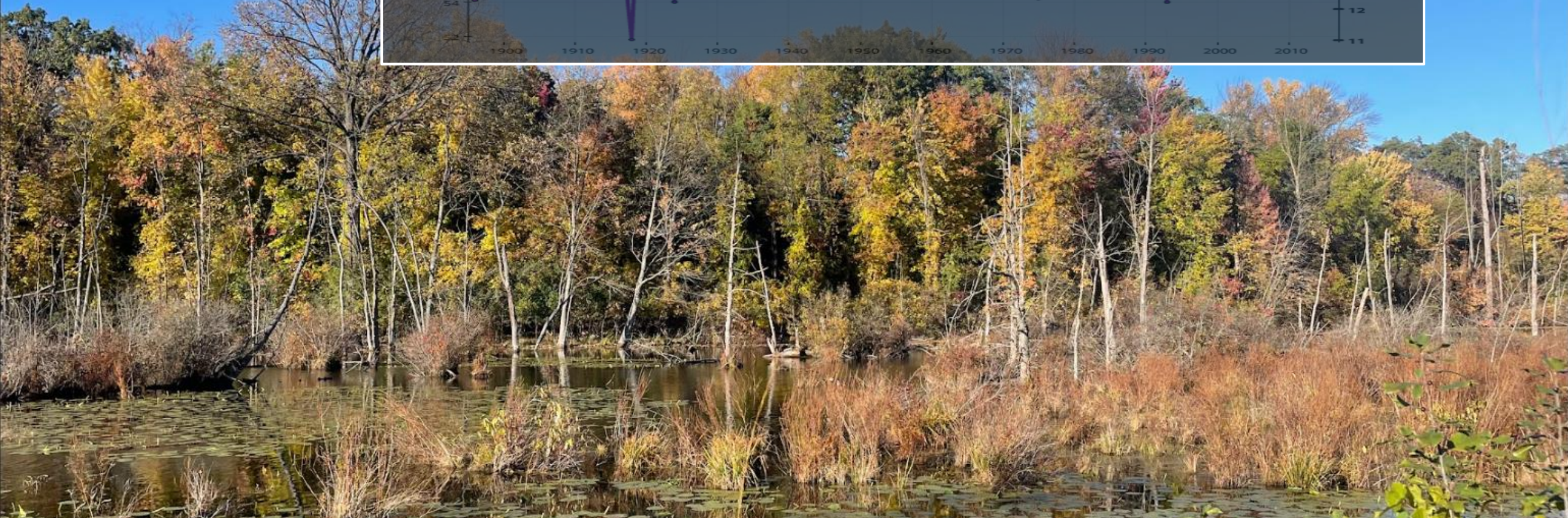
Monthly Temperature, Precipitation, Snowfall, and Severe Weather Summaries

Weather Forecast Office
Detroit, MI



November 2023

The background of the text box features a line graph showing monthly temperature trends from 1900 to 2010. The y-axis represents temperature in degrees Fahrenheit, ranging from 52 to 64. The x-axis represents years from 1900 to 2010 in 10-year increments. The graph shows a clear upward trend in temperature over the century, with a notable dip around 1920 and a peak around 1930. The text "November 2023" is overlaid in large white font.



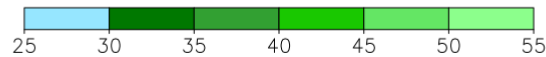
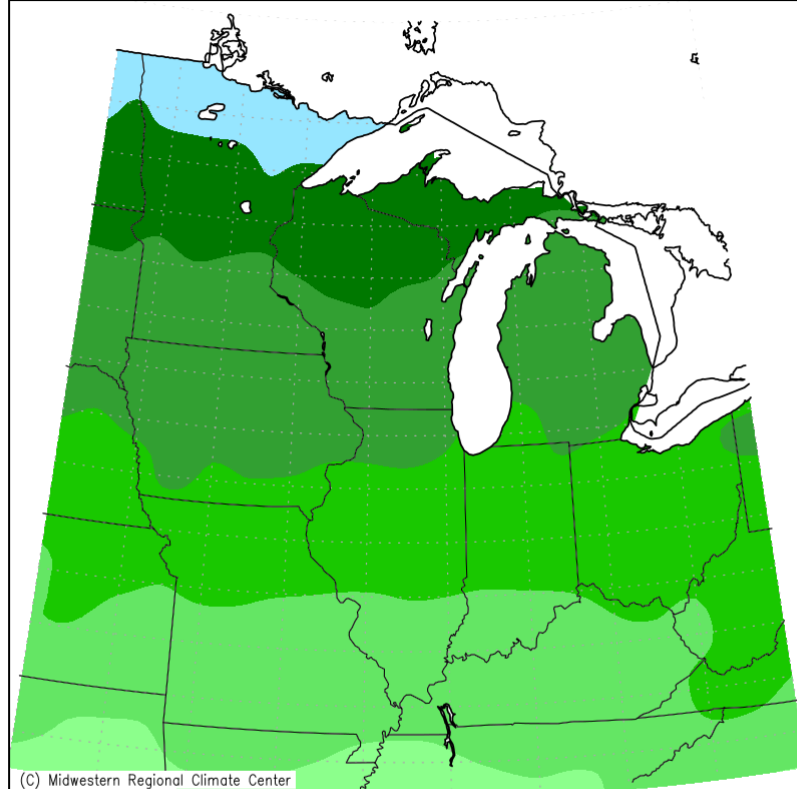
November 2023 – Regional Temperature Summary

Weather Forecast Office
Detroit, MI



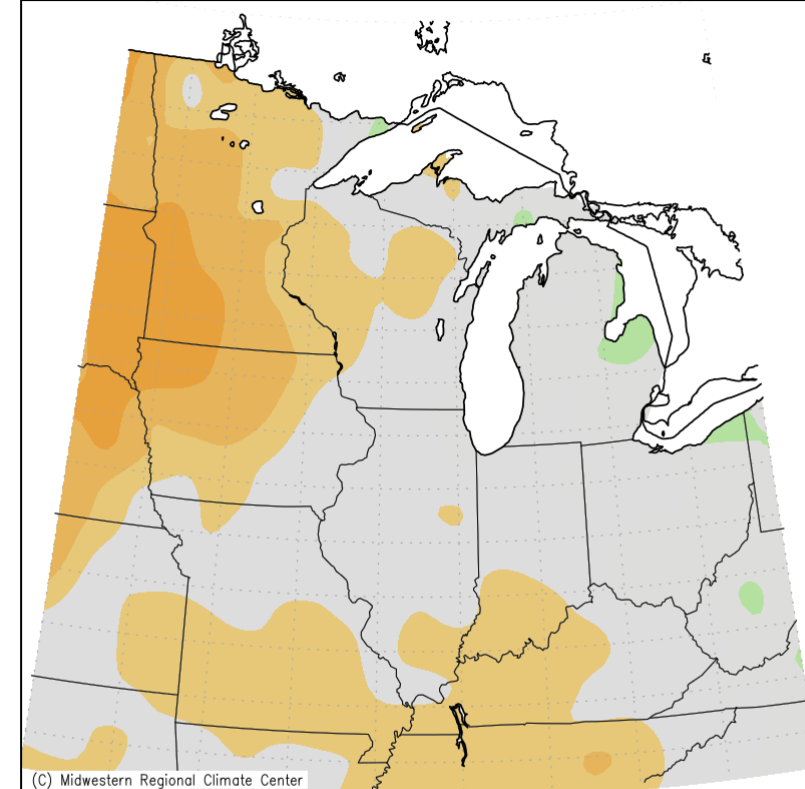
Average Temperature (left) & Departure from Average (right)

Average Temperature (°F)
November 1, 2023 to November 30, 2023



Midwestern Regional Climate Center
Purdue University

Average Temperature (°F): Departure from Mean
November 1, 2023 to November 30, 2023



Mean period is 1991–2020.



Midwestern Regional Climate Center
Purdue University

November 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	67	16	51.6	29.4	40.5	FRANKENMUTH 1SE	65	15	46.9	28.8	37.9
ADRIAN LENAWEE CO AP	67	14	50.3	30.4	40.3	GOODRICH	66	16	47.1	29.0	38.1
ALGONAC WWTP	63	18	48.6	29.8	39.2	GROSSE POINTE FARMS	64	19	48.0	32.2	40.1
ANN ARBOR MUNICIPAL AP	65	13	48.9	24.8	36.9	HARBOR BEACH 1 SSE	63	18	45.0	30.6	37.8
ANN ARBOR SE	66	16	49.3	27.9	38.6	LAPEER 2W	66	15	45.8	29.4	37.6
ANN ARBOR U OF MICH	65	14	49.5	27.5	38.5	LAPEER WWTP	67	16	47.3	28.8	38.1
BAD AXE	62	18	44.6	28.6	36.6	LEXINGTON WATER PLANT	63	17	47.0	30.6	38.8
BURTON 4N	66	15	47.4	27.5	37.5	MANCHESTER	67	17	49.3	28.0	38.6
CARO WWTP	66	16	45.7	28.1	36.9	MIDLAND	60	13	43.6	28.5	36.0
CASS CITY 1 SSW	64	16	45.8	27.3	36.6	OWOSSO WWTP	66	16	47.1	29.2	38.1
CHELSEA	66	14	48.3	29.1	38.7	PONTIAC INTL AP	64	16	47.0	29.7	38.3
DEARBORN	66	17	48.9	31.2	40.1	PONTIAC WWTP	64	18	47.9	29.5	38.7
DETROIT CITY AP	66	21	51.3	34.4	42.8	PORT HOPE	64	24	47.7	33.8	40.7
DETROIT METRO AIRPORT	65	18	50.1	32.0	41.0	PORT HURON	60	21	49.1	34.9	42.0
DETROIT WILLOW RUN AP	66	15	49.5	29.6	39.6	RICHMOND 4 NNW	61	18	46.4	28.2	37.3
DUNDEE	68	17	49.6	30.1	39.8	SAGINAW #3	66	17	46.1	29.3	37.7
DURAND WWTP	66	13	48.3	27.0	37.6	SAGINAW MBS INTL AP	65	16	47.3	30.8	39.1
FARMINGTON	64	16	48.0	28.0	38.0	SALINE 4SW	67	13	50.2	28.6	39.4
FILION 5NNW	64	23	45.5	32.9	39.2	TECUMSEH	66	16	49.0	29.2	39.1
FLINT 7W	66	15	47.2	27.5	37.4	WHITE LAKE 4E	67	14	47.9	27.1	37.5
FLINT FCWOS	67	17	48.7	29.8	39.3	WHITMORE LAKE 1NW	63	15	47.0	28.8	37.9



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.

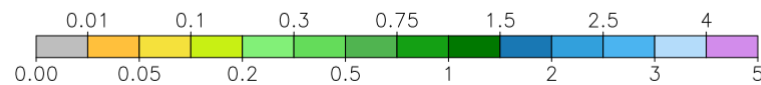
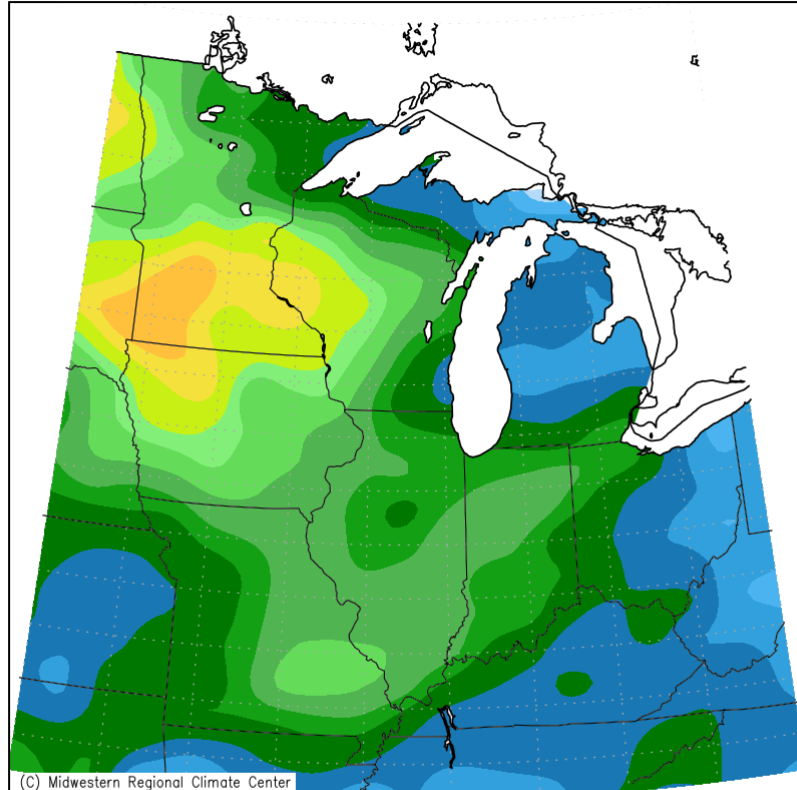
November 2023 – Regional Precipitation Summary

Weather Forecast Office
Detroit, MI



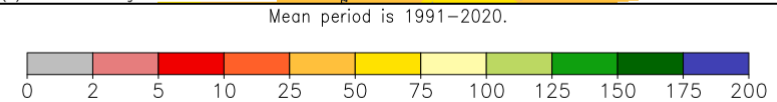
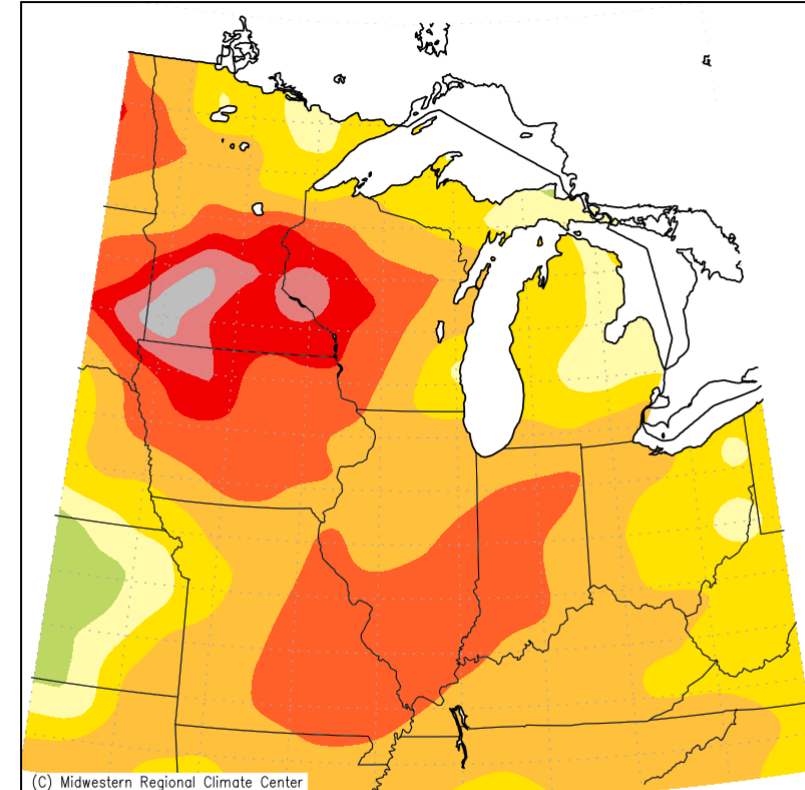
Total Monthly Precipitation (*left*) & Percent of Mean (*right*)

Accumulated Precipitation (in)
November 1, 2023 to November 30, 2023




Midwestern Regional Climate Center
Purdue University

Accumulated Precipitation: Percent of Mean
November 1, 2023 to November 30, 2023



Midwestern Regional Climate Center
Purdue University

November 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	Location	Highest Daily Total	Monthly Total	# of Days with Precip		
ADRIAN 2 NNE	0.57	1.01	6	DUNDEE	0.54	1.03	9	MONROE 3.0 S	0.18	0.54	9		
ADRIAN LENAWEE CO AP	0.51	0.74	6	DURAND 6.2 WNW	1.02	2.39	10	MONROE 5.9 NW	0.26	0.64	7		
ALGONAC WWTP	0.59	1.23	5	DURAND WWTP	1.01	2.24	8	NEW BALTIMORE 0.4 SSE	0.63	1.54	8		
ANN ARBOR 4.5 W	0.30	1.10	8	EASTPOINTE 1.2 SSW	0.40	1.11	8	OIL CITY 2S	0.85	2.18	9		
ANN ARBOR MNCIPL AP	0.49	1.16	6	FARMINGTON	0.40	1.09	8	ORTONVILLE 2.3 S	0.67	1.76	9		
ANN ARBOR SE	0.52	1.37	8	FENTON 2.7 SSE	0.67	1.74	7	OTTAWA LAKE 1.4 SSW	0.17	0.55	7		
ANN ARBOR U OF MICH	0.45	1.16	11	FENTON 5.6 WSW	0.53	1.58	8	OWOSSO WWTP	1.53	2.78	13		
BAD AXE	0.89	2.18	11	FENTON 6.2 WSW	0.58	1.47	6	PLEASANT RIDGE 0.5 WNW	0.42	1.23	10		
BAD AXE 6.3 SSW	1.02	2.33	9	FILION 5NNW	0.78	1.98	8	PLYMOUTH 5.4 W	0.35	1.13	7		
BAY PORT 3.2 SSW	0.80	2.06	11	FLINT 7W	1.30	2.49	8	PLYMOUTH 6.3 W	0.33	1.24	7		
BRIGHTON 1.1 E	0.43	1.46	11	FLINT FCWOS	0.84	1.91	7	PONTIAC WWTP	0.59	1.48	7		
BURTON 4N	1.14	2.66	8	GOODRICH	0.82	1.70	7	PORT HOPE	0.67	1.74	17		
CARO WWTP	0.90	2.39	9	GROSSE POINTE FARMS	0.30	0.99	5	PORT HURON 1.6 W	0.41	2.02	7		
CASS CITY 1 SSW	0.86	2.22	8	HARBOR BEACH 1 SSE	0.94	2.62	10	ROSEVILLE 1.7 ENE	0.35	1.15	10		
CHELSEA	0.38	1.14	8	HIGHLAND 1.3 NE	0.77	1.80	8	SAGINAW 6.4 W	1.01	2.37	9		
CHELSEA 3.7 NNE	0.41	1.18	7	LAPEER 2W	0.71	2.33	10	SAGINAW 8NW	0.99	2.03	6		
CHESTERFIELD 2.4 E	0.59	0.96	8	LAPEER WWTP	0.92	2.19	8	SAGINAW #3	0.81	2.29	10		
CLARKSTON 1.4 NE	0.39	0.96	5	LEXINGTON WATER PLANT	1.30	2.51	8	SAGINAW MBS INTL AP	0.81	1.73	7		
CLINTON 0.5 NE	0.31	0.93	7	LINDEN WWTP	0.70	1.79	8	SALINE 3.8 SSW	0.32	1.00	7		
DAVISBURG 1.3 ESE	0.53	1.68	9	LIVONIA 2.0 NE	0.46	1.01	5	SALINE 4SW	0.35	1.07	6		
DAVISON 5.2 N	0.74	1.62	8	LIVONIA 2.3 NNW	0.39	1.08	8	SHELBY 0.4 SSE	0.87	1.89	8		
DEARBORN	0.28	1.03	7	MIDLAND	0.96	2.24	7	STERLING HEIGHTS 2.2 NNE	0.43	1.31	8		
DEARBORN HGHTS 1.8 NW	0.40	1.01	9	MIDLAND 1.5 NNE	0.83	2.02	10	WATERFORD 2.1 NW	0.58	1.30	9		
DETROIT CITY AP	0.39	0.93	6	MIDLAND 4.4 SW	1.06	2.26	8	WHITE LAKE 4E	0.46	1.29	8		
DETROIT METRO AIRPORT	0.44	0.99	5	MILFORD 4.3 ESE	0.52	1.27	8	WHITMORE LAKE 1NW	0.41	0.97	5		
DETROIT WILLOW RUN AP	0.49	1.18	7	MILLINGTON 3 SE	1.05	2.79	9	WIXOM 2.0 NNW	0.43	1.20	8		
DEXTER 2.2 SE	0.32	1.09	8										

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	0.55	2022	5.81	1988	0.36	1936
3	5.51	1985	0.57	1939	4.93	1973	0.57	1939	5.41	1966	0.41	2012
4	5.30	1891	0.60	1924	4.76	1982	0.59	2009	5.14	1990	0.51	1986
5	5.29	1927	0.62	2009	4.59	1952	0.65	2012	4.54	2003	0.55	2009
6	5.13	1897	0.72	2012	4.29	1990	0.66	1980	4.53	1935	0.61	1924
7	4.93	2017	0.73	1908	4.22	1995	0.66	1962	4.47	1928	0.63	1999
8	4.71	1879	0.78	1922	4.05	1992	0.78	1953	4.33	2005	0.69	1962
9	4.70	2005	0.79	1976	4.02	1928	0.78	1936	4.33	1992	0.81	2007
10	4.70	1909	0.81	1964	3.93	2005	0.86	1960	4.12	1959	0.84	1976
11	4.36	1881	0.83	1953	3.86	1968	0.93	1924	4.00	1985	0.86	1929
12	4.33	1992	0.88	1980	3.84	1948	0.94	1986	3.83	1982	0.88	1938
13	4.29	1988	0.94	1997	3.76	1950	1.00	1930	3.76	1952	0.92	1930
14	4.28	1983	0.97	1937	3.71	1935	1.01	2021	3.67	1994	1.04	1917
15	4.19	1979	0.99	2023	3.64	1979	1.05	1997	3.64	1940	1.11	1956
16	4.19	1895	1.00	1901	3.58	1942	1.13	1999	3.55	1989	1.14	1923
17	4.14	1948	1.10	1936	3.51	1994	1.18	1945	3.51	1958	1.15	2001
18	4.10	1877	1.15	1894	3.46	1983	1.20	1964	3.49	1931	1.20	2002
19	4.05	1950	1.18	1903	3.39	1921	1.22	1976	3.25	1991	1.22	1971
20	3.68	1893	1.20	1965	3.29	1987	1.32	1993	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.

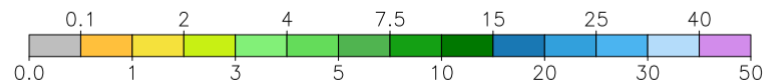
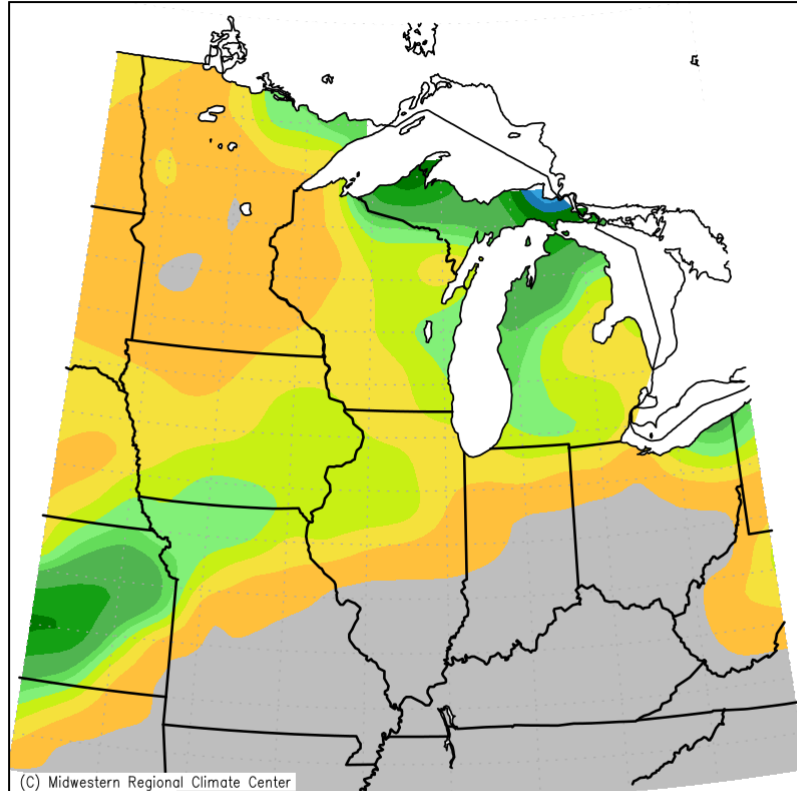
November 2023 – Regional Snowfall Summary

Weather Forecast Office
Detroit, MI



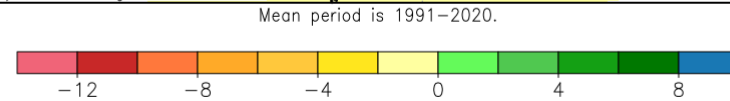
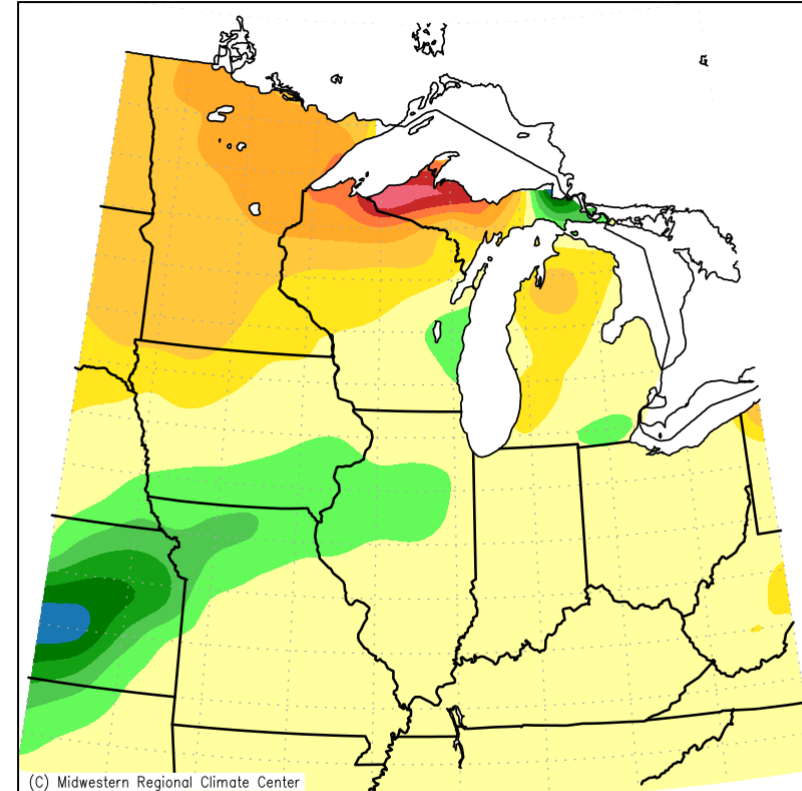
Total Monthly Snowfall (*left*) & Departure from Normal (*right*)

Accumulated Snowfall (in)
November 1, 2023 to November 30, 2023



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 12/3/2023 2:07:12 PM EST

Accumulated Snowfall (in): Departure from Mean
November 1, 2023 to November 30, 2023



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 12/3/2023 2:07:33 PM EST

November 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	1.5	2.5	2	LAPEER WWTP	2.7	3.5	2
ALGONAC WWTP	0.0	0.0	0	LEXINGTON WATER PLANT	0.1	0.1	1
ANN ARBOR 2.1 WNW	1.5	1.6	2	LINDEN WWTP	1.0	2.4	3
ANN ARBOR SE	2.3	4.4	3	LIVONIA 2.3 NNW	1.3	1.7	3
ANN ARBOR U OF MICH	1.8	4.7	4	MANCHESTER	2.0	3.2	3
BAD AXE	1.6	1.9	3	MIDLAND	1.0	1.0	1
BAY PORT 3.2 SSW	1.1	1.2	2	MILLINGTON 3 SE	0.7	1.2	3
BLOOMFIELD TOWNSHIP 3.1 SW	1.2	2.2	3	OIL CITY 2S	0.6	0.8	2
BURTON 4N	1.5	1.8	2	OTTAWA LAKE 1.4 SSW	0.5	1.0	3
CANTON 2.7 N	1.5	1.9	2	OWOSSO WWTP	1.2	1.5	3
CARO WWTP	1.0	1.0	1	PLEASANT RIDGE 0.5 WNW	0.2	0.2	1
CASS CITY 1 SSW	2.0	2.0	1	PONTIAC WWTP	0.3	0.5	2
CHELSEA	2.5	3.5	2	PORT AUSTIN WWTP	0.5	0.5	1
CHELSEA 3.7 NNE	2.2	3.3	2	PORT HURON	T	T	0
DEARBORN	1.0	1.5	2	PORT HURON 1.6 W	T	T	0
DETROIT METRO AIRPORT	1.7	2.2	2	RICHMOND 4 NNW	1.4	1.4	1
DUNDEE	1.0	1.0	1	SAGINAW 8NW	0.5	0.8	2
DURAND WWTP	1.0	2.1	3	SAGINAW #3	1.1	2.3	3
FARMINGTON	1.9	2.2	3	SAGINAW MBS INTL AP	0.8	1.0	2
FENTON 6.2 WSW	2.1	2.8	3	SALINE 3.8 SSW	1.0	2.0	2
FILION 5NNW	1.2	1.5	3	SALINE 4SW	1.6	3.1	2
FLINT 7W	1.5	2.8	3	STERLING HEIGHTS 2.2 NNE	0.8	1.1	2
FLINT FCWOS	1.0	1.6	2	TECUMSEH	2.0	4.0	3
GOODRICH	1.4	2.6	3	TIPTON 2WNW	1.5	2.0	2
GROSSE POINTE FARMS	0.3	0.3	1	WHITE LAKE 4E	2.1	2.9	2
HARBOR BEACH 1 SSE	1.8	3.2	4	WYANDOTTE	1.7	2.1	3
LAPEER 2W	2.3	3.9	3				

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	1999	16.2	1951	0.0	2016	23.0	1995	0.0	2001
2	10.6	1933	0.0	1944	13.5	1966	0.0	1961	20.3	1966	0.0	2009
3	10.1	1932	0.0	1952	12.4	1950	0.0	2001	17.9	1951	0.0	2017
4	9.5	2019	0.0	1968	12.1	1940	0.0	2009	17.0	1940	0.0	1999
5	9.2	1950	0.0	1961	11.4	1949	0.0	1946	13.5	1933	0.0	1994
6	9.1	1940	0.0	2001	11.1	2018	0.0	1944	12.5	2018	0.0	1931
7	8.9	1898	0.0	2009	10.8	2015	0.0	1931	12.3	1947	0.0	1963
8	8.3	1951	0.0	2017	10.5	1975	0.0	1939	11.0	1985	0.0	1948
9	8.3	1921	0.0	1994	10.4	1971	0.0	1963	9.9	1977	0.0	1988
10	8.1	1959	0.0	2010	10.0	1921	0.0	1987	9.6	1950	0.0	1973
11	7.9	1925	0.0	1899	9.4	2019	0.0	1948	8.8	2008	0.0	1934
12	7.7	1974	0.0	1939	9.4	1979	0.0	1973	8.5	1975	0.0	1982
13	7.7	1880	0.0	1963	9.2	2008	0.0	1934	8.1	1949	0.0	1990
14	7.4	1977	0.0	1948	9.2	1974	0.0	1990	7.8	1971	0.0	1998
15	7.1	2021	0.0	1901	8.9	1972	0.0	1927	7.6	1959	0.0	1923
16	7.1	1972	0.0	1934	8.7	2014	0.0	1999	7.0	2004	0.1	1970
17	7.0	1911	0.0	1990	7.8	1989	0.0	1923	7.0	1921	0.1	1939
18	6.9	1894	0.0	1998	6.9	1925	0.2	2010	6.8	2011	0.1	1929
19	6.8	1891	0.0	1896	6.3	2022	0.2	1998	6.6	2019	0.2	1952
20	6.7	2018	0.1	2016	6.3	1933	0.3	2017	6.1	2000	0.2	2016

* Detroit Area snowfall records date back to January 1880.

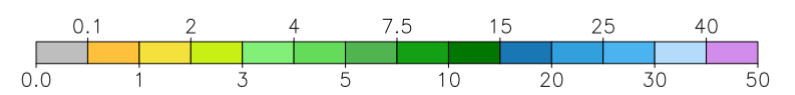
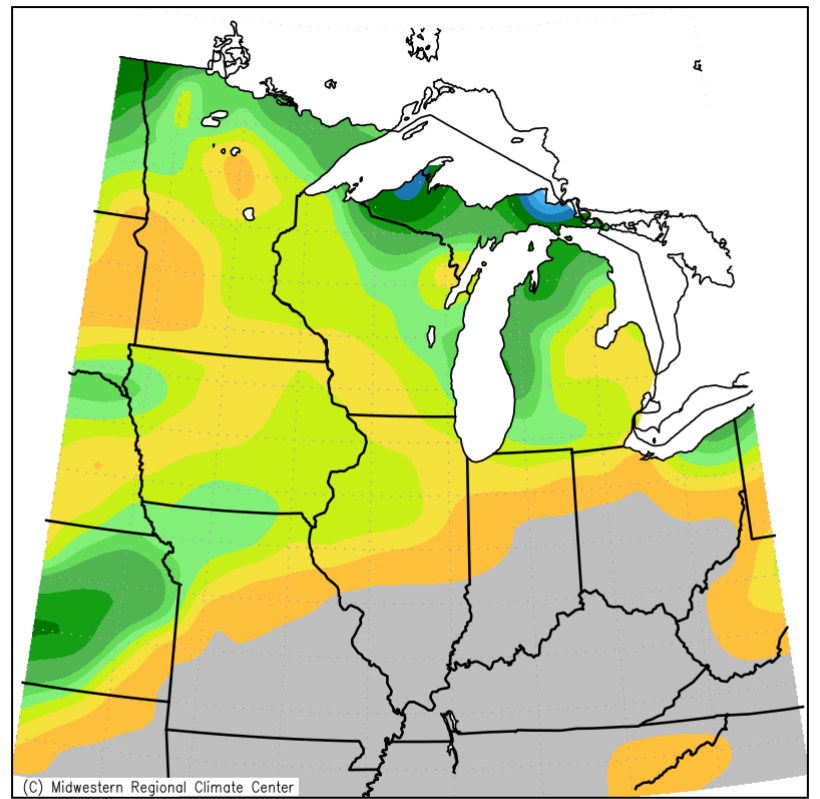
** Flint Bishop snowfall records date back to January 1921.

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

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

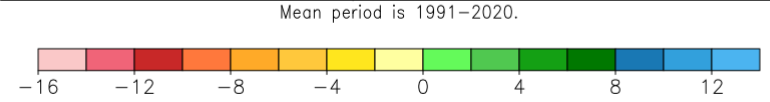
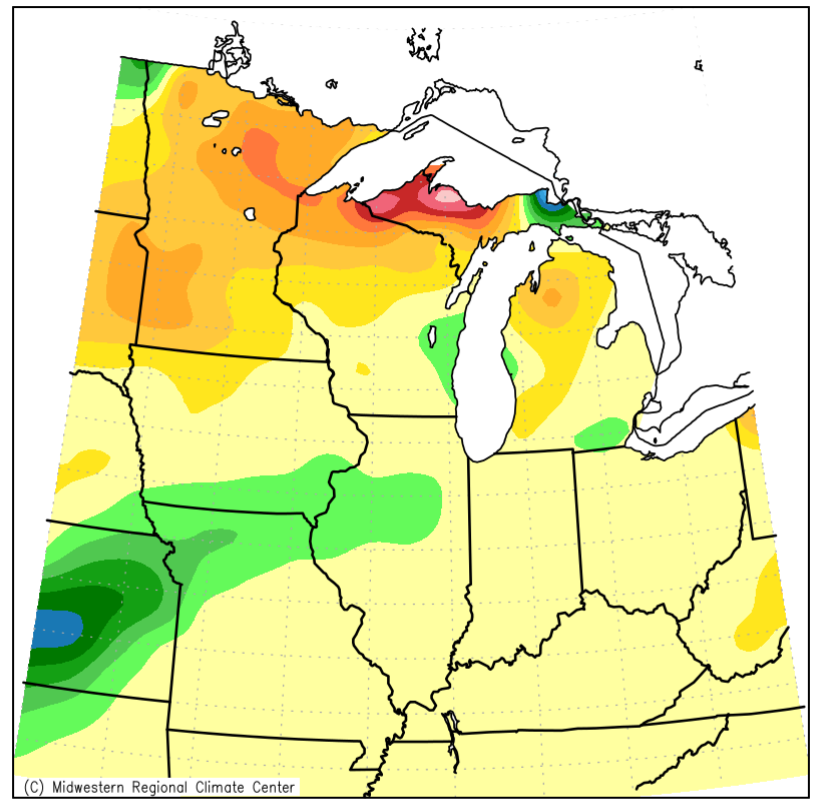
Total Snowfall (left) & Departure from Normal (right)

Accumulated Snowfall (in)
October 1, 2023 to November 30, 2023



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 12/3/2023 2:08:14 PM EST

Accumulated Snowfall (in): Departure from Mean
October 1, 2023 to November 30, 2023



Midwestern Regional Climate Center
cli-MATE: MRCC Application Tools Environment
Generated at: 12/3/2023 2:08:39 PM EST

November 2023 – Significant Weather Events

Follow links for web summaries

Weather Forecast Office
Detroit, MI



No Significant Events in November



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

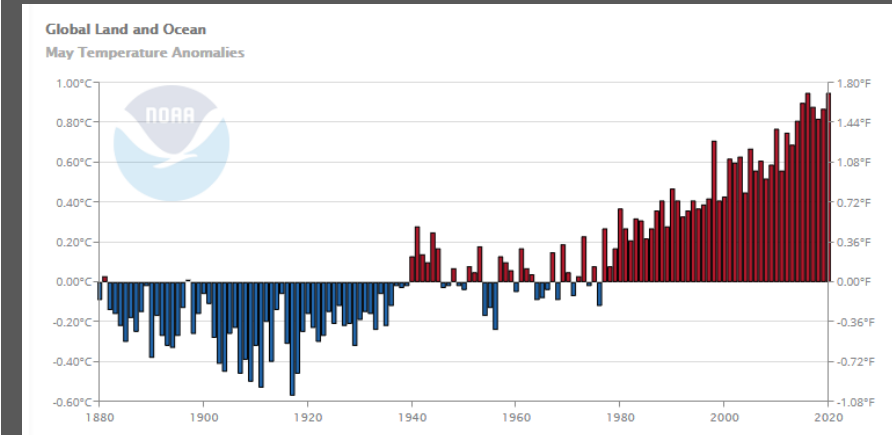
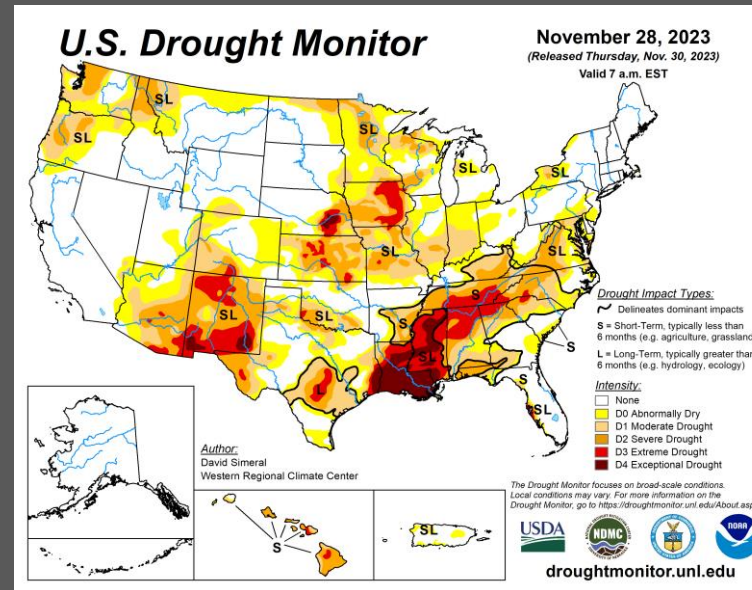
Date: 2021-08 Go

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.

Common questions - Submit a question/comment -

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

ncei.noaa.gov/access/monitoring/climate-at-a-glance/

Thank you to our COOP and CoCoRaHS volunteer weather observers!