

Summary of Monthly Normals
1991-2020

Generated on 04/27/2024

Current Location: Elev: 1140 ft. Lat: 44.0975° N Lon: 93.2317° W

Station: OWATONNA, MN US USC00216287

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (above)									
Month	Daily Max	Daily Min	Mean	Long Term Max Std Dev	Long Term Min Std Dev	Long Term Avg Std Dev	55	57	60	65	70	72	55	57	60	65	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
01	22.2	5.1	13.7	5.1	6.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	1281.5	1343.5	1436.5	1591.6	0.0	0.0	0.1	24.0	30.9	11.6
02	26.8	9.2	18.0	6.5	7.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	1035.9	1091.8	1175.8	1315.9	0.0	0.0	0.6	18.4	27.3	8.0
03	39.6	21.8	30.7	5.8	5.3	5.5	3.7	2.5	1.3	0.3	0.0	0.0	757.0	817.9	909.6	1063.6	0.0	0.0	6.7	8.2	25.5	2.1
04	55.3	34.2	44.8	4.8	3.6	4.1	26.8	18.1	9.0	2.3	0.5	0.2	334.4	385.7	466.5	609.9	0.0	0.0	19.9	1.0	12.2	0.0
05	67.7	46.6	57.1	3.8	3.5	3.5	153.5	120.5	79.3	35.0	11.7	6.2	86.9	115.8	167.7	278.4	0.0	0.7	29.5	0.0	1.6	0.0
06	78.3	58.0	68.1	2.5	2.4	2.3	398.4	342.3	261.8	144.4	59.6	37.8	4.1	8.0	17.5	50.0	0.0	2.5	30.0	0.0	0.0	0.0
07	81.7	62.0	71.8	3.1	2.9	2.9	522.2	460.5	368.7	222.4	103.1	67.8	0.0	0.2	1.4	10.1	0.1	3.4	31.0	0.0	0.0	0.0
08	79.4	59.6	69.5	2.5	2.5	2.4	449.8	388.4	298.0	161.5	64.2	39.1	0.4	1.0	3.6	22.0	0.0	1.7	31.0	0.0	0.0	0.0
09	72.8	51.4	62.1	3.5	3.2	3.2	245.5	200.5	141.4	66.9	23.2	13.1	32.6	47.7	78.6	154.0	0.0	0.8	29.8	0.0	0.5	0.0
10	58.7	37.9	48.3	3.9	2.9	3.2	51.1	36.7	21.0	7.1	1.8	0.8	258.8	306.4	383.7	524.8	0.0	0.0	23.5	0.2	9.3	0.0
11	41.6	25.1	33.3	6.9	5.3	6.0	2.4	1.2	0.3	0.0	0.0	0.0	651.9	710.7	799.8	949.5	0.0	0.0	7.9	7.4	22.4	0.4
12	27.9	12.7	20.3	5.4	5.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1075.5	1137.5	1230.5	1385.6	0.0	0.0	0.7	18.6	30.0	6.1
Summary	54.3	35.3	44.8	4.5	4.3	4.3	1853	1571	1181	640	264	165	5519	5966	6671	7955	0.1	9.1	210.7	77.8	159.7	28.2

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

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Station: **OWATONNA, MN US USC00216287**

Precipitation (in.)									
	Totals	Mean Number of Days				Precipitation Probabilities Probability that precipitation will be equal to or less than the indicated amount			
	Means	Daily Precipitation				Monthly Precipitation vs. Probability Levels			
Month	Mean	>= 0.01	>= 0.10	>= 0.50	>= 1.00	0.25	0.50	0.75	
01	0.87	6.9	3.0	0.4	0.1	0.54	0.79	1.22	
02	0.89	5.6	2.6	0.4	0.0	0.40	0.67	1.34	
03	1.99	7.7	4.5	1.2	0.4	1.30	2.03	2.57	
04	3.18	10.6	7.0	2.3	0.5	1.82	2.89	4.54	
05	4.61	12.4	8.1	3.1	1.4	3.12	4.49	6.20	
06	5.28	11.9	8.1	3.3	1.5	3.95	4.76	6.93	
07	4.79	9.6	6.9	3.3	1.4	3.05	4.08	5.93	
08	4.84	9.7	6.5	2.7	1.4	2.91	4.44	6.24	
09	3.80	8.6	5.4	2.3	1.0	1.68	2.87	4.80	
10	2.48	8.9	5.3	1.4	0.5	1.20	2.00	3.51	
11	1.65	6.1	3.9	1.2	0.3	0.89	1.43	2.18	
12	1.08	7.1	3.5	0.5	0.1	0.69	1.12	1.38	
Summary	35.46	105.1	64.8	22.1	8.6	21.55	31.57	46.84	

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

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1991-2020
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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Snow (in.)													
	Totals	Mean Number of Days									Snow Probabilities Probability that snow will be equal to or less than the indicated amount		
	Means	Snowfall >= Thresholds					Snow Depth >= Thresholds				Monthly Snow vs. Probability Levels Values derived from the incomplete gamma distribution.		
Month	Snowfall Mean	0.01	1.0	3.0	5.00	10.00	1	3	5	10	.25	.50	.75
01	9.50	4.9	3.8	1.2	0.4	0.0	26.9	19.8	15.4	7.1	4.90	8.10	13.10
02	10.20	3.9	3.3	1.4	0.5	0.1	21.8	16.4	12.6	6.7	5.40	9.50	14.00
03	6.80	2.5	2.2	0.8	0.4	0.0	14.6	10.5	7.3	2.5	2.60	7.50	8.90
04	2.60	0.8	0.7	0.4	0.2	0.0	1.8	1.0	0.5	0.0	0.00	0.00	4.00
05	0.50	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.00	0.00	0.00
06	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
07	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
08	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
09	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
10	0.30	0.3	0.2	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.00	0.00	0.00
11	3.10	1.8	1.2	0.4	0.1	0.0	4.9	2.6	1.2	0.0	0.50	2.20	4.00
12	11.20	4.6	3.8	1.4	0.5	0.0	18.9	12.6	8.8	2.7	5.10	10.30	11.90
Summary	44.2	18.8	15.2	5.7	2.1	0.1	89.2	63.1	45.9	19.1	18.5	37.6	55.9

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	0.0	3.0	45.8	209.4	534.2	844.2	987.2	914.4	663.1	295.0	58.1	3.3
45	0.0	0.7	21.1	122.2	388.8	694.2	832.2	759.4	515.5	186.5	26.4	1.2
50	0.0	0.1	9.2	62.0	258.3	544.6	677.2	604.4	373.7	104.5	9.6	0.2
55	0.0	0.0	3.7	26.8	153.5	398.4	522.2	449.8	245.5	51.1	2.4	0.0
60	0.0	0.0	1.3	9.0	79.3	261.8	368.7	298.0	141.4	21.0	0.3	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.0	1.6	29.3	127.1	310.8	543.3	664.7	601.3	406.3	171.8	33.8	1.9

Growing Degree Units (Accumulated Monthly)												
40	0	3	49	258	792	1637	2624	3538	4201	4496	4554	4558
45	0	1	22	144	533	1227	2059	2819	3334	3521	3547	3548
50	0	0	9	71	330	874	1551	2156	2530	2634	2644	2644
55	0	0	4	30	184	582	1105	1554	1800	1851	1853	1853
60	0	0	1	10	90	351	720	1018	1160	1180	1181	1181
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	2	31	158	469	1012	1677	2278	2684	2856	2890	2892

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.
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