

Summary of Monthly Normals
1991-2020

Generated on 04/17/2024

Current Location: Elev: 898 ft. Lat: 43.7072° N Lon: 85.4819° W

Station: **BIG RAPIDS WTP, MI US USC00200779**

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	28.2	12.7	20.4	4.0	5.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	1070.9	1132.9	1225.9	1381.0	0.0	0.0	0.6	19.6	30.2	5.4
02	31.4	12.2	21.8	4.7	6.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	929.6	985.5	1069.5	1209.6	0.0	0.0	1.3	14.6	27.2	4.8
03	42.0	19.8	30.9	4.8	5.2	4.8	3.5	2.3	1.1	0.3	0.0	0.0	750.6	811.4	903.2	1057.4	0.0	0.0	8.3	5.8	27.3	1.7
04	54.8	30.9	42.9	4.1	2.8	3.3	15.3	10.0	4.9	1.2	0.2	0.1	379.8	434.4	519.4	665.7	0.0	0.0	20.7	0.7	17.5	0.0
05	67.6	43.2	55.4	3.7	3.3	3.3	115.4	87.7	55.5	21.4	5.1	1.9	103.1	137.4	198.1	319.0	0.0	0.2	30.0	0.0	3.8	0.0
06	77.2	53.0	65.1	2.4	2.1	2.0	310.5	256.7	182.7	86.2	29.5	16.8	7.6	13.8	29.8	83.2	0.0	1.9	30.0	0.0	0.0	0.0
07	81.3	57.1	69.2	3.2	2.8	2.9	440.2	378.8	289.0	155.2	61.9	38.3	0.1	0.6	3.8	25.1	0.0	3.7	31.0	0.0	0.0	0.0
08	79.0	55.0	67.0	2.5	3.1	2.7	372.9	312.3	226.6	107.1	33.9	18.6	0.9	2.4	9.6	45.1	0.0	1.4	31.0	0.0	0.0	0.0
09	71.6	46.9	59.3	3.4	2.7	2.8	173.1	133.9	85.0	30.8	7.4	3.6	45.7	66.5	107.5	203.3	0.0	0.6	29.9	0.0	0.9	0.0
10	58.1	36.3	47.2	3.0	2.6	2.6	29.7	19.6	9.3	2.2	0.5	0.1	271.5	323.4	406.1	553.9	0.0	0.0	24.6	0.0	10.7	0.0
11	44.1	27.5	35.8	4.8	3.3	3.9	0.9	0.4	0.1	0.0	0.0	0.0	576.9	636.4	726.1	876.0	0.0	0.0	9.1	3.6	21.6	0.0
12	33.2	19.3	26.3	4.0	4.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	891.2	953.2	1046.2	1201.2	0.0	0.0	1.4	13.9	28.8	1.4
Summary	55.7	34.5	45.1	3.7	3.7	3.5	1462	1202	854	404	138	79	5028	5498	6245	7620	0.0	7.8	217.9	58.2	168.0	13.3

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

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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	2.43	16.5	6.4	1.0	0.2	1.64	2.23	3.20	
02	1.97	12.9	4.9	1.0	0.2	1.26	1.79	2.50	
03	2.57	11.6	6.2	1.7	0.4	1.36	2.31	3.60	
04	3.95	13.5	8.0	2.6	0.8	3.02	3.98	4.65	
05	3.76	13.0	7.9	2.8	0.6	2.42	3.54	4.82	
06	3.36	10.7	6.6	2.2	0.7	2.36	3.11	4.36	
07	3.48	10.5	6.1	2.1	0.7	2.24	3.08	4.30	
08	4.24	11.3	6.9	2.8	1.1	2.63	3.60	4.92	
09	3.02	11.5	6.7	1.9	0.5	2.05	3.03	3.95	
10	3.76	14.7	7.4	2.2	0.7	2.50	3.31	4.99	
11	3.05	13.7	6.8	2.1	0.5	1.87	2.73	4.27	
12	2.33	14.9	6.2	1.0	0.2	1.47	1.93	3.22	
Summary	37.92	154.8	80.1	23.4	6.6	24.82	34.64	48.78	

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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	17.80	13.8	5.8	2.0	0.4	0.0	26.2	20.5	13.7	1.9	13.20	16.10	22.20
02	16.00	10.0	4.1	1.4	0.5	0.1	23.3	16.4	11.2	2.5	10.50	13.20	21.90
03	7.70	5.1	2.1	0.8	0.2	0.0	11.3	5.9	3.0	0.4	3.30	5.20	10.70
04	1.50	1.4	0.5	0.1	0.0	0.0	1.2	0.5	0.1	0.0	0.00	0.10	2.40
05	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
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	0.20	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.00	0.00	0.00
11	3.80	3.4	1.3	0.5	0.0	0.0	3.7	1.8	0.5	0.1	0.30	1.30	4.80
12	14.30	9.8	4.9	1.5	0.4	0.0	18.1	12.3	6.4	1.3	6.50	10.00	23.00
Summary	61.3	43.7	18.8	6.3	1.5	0.1	83.9	57.5	34.9	6.2	33.8	45.9	85.0

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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	1.0	2.9	35.9	158.6	479.1	752.9	905.1	836.9	577.5	246.0	54.0	5.8
45	0.1	0.9	16.7	81.8	334.8	603.0	750.1	681.9	430.0	142.1	20.9	1.4
50	0.0	0.2	7.9	38.6	210.4	453.9	595.1	527.0	291.0	70.6	5.7	0.1
55	0.0	0.0	3.5	15.3	115.4	310.5	440.2	372.9	173.1	29.7	0.9	0.0
60	0.0	0.0	1.1	4.9	55.5	182.7	289.0	226.6	85.0	9.3	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.4	2.1	31.2	117.7	294.3	473.7	590.9	535.9	353.9	145.6	30.7	2.5
Growing Degree Units (Accumulated Monthly)												
40	1	4	40	198	678	1430	2336	3172	3750	3996	4050	4056
45	0	1	18	100	434	1037	1787	2469	2899	3041	3062	3064
50	0	0	8	47	257	711	1306	1833	2124	2195	2200	2200
55	0	0	4	19	134	445	885	1258	1431	1461	1462	1462
60	0	0	1	6	62	244	533	760	845	854	854	854
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	2	34	151	446	919	1510	2046	2400	2546	2576	2579

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