

Summary of Monthly Normals
1991-2020

Generated on 04/27/2024

Current Location: Elev: 1070 ft. Lat: 43.9903° N Lon: 94.6122° W

Station: ST JAMES WWTP, MN US USC00217326

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	23.5	5.2	14.3	5.0	6.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	1259.8	1321.8	1414.8	1569.8	0.0	0.0	0.3	22.9	30.7	12.5
02	28.2	9.9	19.1	7.0	7.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0	1006.4	1062.4	1146.4	1286.4	0.0	0.0	1.3	18.0	26.9	8.3
03	40.4	22.2	31.3	6.2	5.2	5.6	4.2	2.7	1.6	0.6	0.1	0.0	738.9	799.4	891.3	1045.3	0.0	0.0	6.9	8.9	25.3	2.3
04	56.2	34.6	45.4	4.9	3.7	4.2	29.0	19.7	10.1	2.5	0.4	0.2	317.0	367.7	448.2	590.5	0.0	0.1	19.8	1.1	11.6	0.0
05	69.3	47.6	58.4	3.8	3.4	3.4	177.1	140.9	95.4	44.0	15.8	9.2	70.2	96.0	143.6	247.1	0.1	0.9	29.6	0.0	0.9	0.0
06	79.5	58.3	68.9	2.8	2.5	2.4	419.9	362.8	279.7	157.4	69.1	45.6	3.1	6.0	12.9	40.5	0.0	3.3	30.0	0.0	0.0	0.0
07	82.8	61.9	72.4	3.1	2.7	2.8	537.7	475.8	384.2	237.6	114.6	77.4	0.0	0.2	1.5	9.8	0.1	4.2	31.0	0.0	0.0	0.0
08	80.4	59.1	69.7	2.7	2.4	2.5	457.5	396.1	306.3	169.1	69.3	43.1	0.4	1.0	4.1	21.9	0.0	2.4	31.0	0.0	0.0	0.0
09	74.2	50.6	62.4	2.9	3.0	2.6	249.4	203.6	144.3	67.7	23.2	13.3	27.6	41.8	72.5	145.9	0.0	0.8	29.8	0.0	0.6	0.0
10	60.0	37.1	48.6	4.2	2.4	3.0	50.4	35.7	20.4	6.9	1.6	0.7	250.3	297.6	375.3	516.8	0.0	0.0	23.9	0.3	10.1	0.0
11	43.1	24.6	33.9	7.0	5.1	5.9	3.4	1.7	0.6	0.0	0.0	0.0	637.9	696.2	785.1	934.5	0.0	0.0	8.7	7.5	23.0	0.5
12	29.0	12.0	20.5	5.5	5.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	1069.2	1131.2	1224.2	1379.3	0.0	0.0	1.1	18.2	30.5	6.1
Summary	55.6	35.3	45.4	4.6	4.2	4.2	1929	1639	1243	686	294	190	5381	5821	6520	7788	0.2	11.7	213.4	76.9	159.6	29.7

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	1.09	5.8	1.8	0.5	0.2	0.91	1.02	1.33
02	0.80	3.9	1.7	0.3	0.1	0.43	0.63	1.13
03	1.82	5.7	3.3	1.2	0.5	1.12	1.80	2.68
04	3.14	10.3	6.2	2.0	0.7	1.77	3.32	3.99
05	4.65	13.1	8.5	3.2	1.3	2.78	4.79	6.02
06	4.89	12.1	8.5	3.1	1.3	3.36	4.16	6.09
07	4.12	9.6	6.7	2.9	1.1	2.83	4.25	4.99
08	3.95	9.5	5.8	2.5	1.0	2.78	3.80	4.96
09	3.43	8.0	5.2	2.1	0.8	1.76	2.31	3.56
10	2.52	8.4	4.7	1.8	0.8	0.96	2.39	3.24
11	1.58	5.1	2.8	1.0	0.3	0.73	1.23	1.95
12	1.13	7.2	3.6	0.5	0.0	0.61	0.99	1.29
Summary	33.12	98.7	58.8	21.1	8.1	20.04	30.69	41.23

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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	10.80	5.4	3.6	1.4	0.5	0.0					6.60	9.60	15.70
02	11.00	4.6	3.2	1.4	0.6	0.1					6.50	9.50	14.10
03	8.20	3.1	2.2	0.9	0.5	0.1					2.80	8.00	11.40
04	3.50	1.1	0.9	0.5	0.3	0.0					0.00	1.00	4.50
05	0.10	0.1	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					0.00	0.00	0.00
07	0.00	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					0.00	0.00	0.00
09	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
10	0.60	0.3	0.2	0.0	0.0	0.0					0.00	0.00	0.00
11	4.90	2.7	1.9	0.7	0.3	0.0					1.00	3.50	7.50
12	11.20	5.6	3.7	1.5	0.5	0.1					3.50	7.50	15.00
Summary	50.3	22.9	15.7	6.4	2.7	0.3	0.0	0.0	0.0	0.0	20.4	39.1	68.2

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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	0.4	6.1	51.3	222.1	573.0	866.8	1002.7	922.1	672.0	301.2	65.3	3.1
45	0.0	1.8	24.5	130.8	424.2	716.8	847.7	767.1	523.6	188.4	30.2	0.9
50	0.0	0.3	10.6	67.0	289.1	567.1	692.7	612.1	379.8	104.1	11.9	0.1
55	0.0	0.0	4.2	29.0	177.1	419.9	537.7	457.5	249.4	50.4	3.4	0.0
60	0.0	0.0	1.6	10.1	95.4	279.7	384.2	306.3	144.3	20.4	0.6	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.5	3.9	35.1	136.4	334.5	558.5	673.5	604.9	412.4	184.5	42.0	2.6

Growing Degree Units (Accumulated Monthly)												
40	0	6	58	280	853	1720	2722	3644	4316	4618	4683	4686
45	0	2	26	157	581	1298	2146	2913	3436	3625	3655	3656
50	0	0	11	78	367	934	1627	2239	2619	2723	2735	2735
55	0	0	4	33	210	630	1168	1625	1875	1925	1929	1929
60	0	0	2	12	107	387	771	1077	1222	1242	1243	1243
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	4	40	176	510	1069	1742	2347	2760	2944	2986	2989

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

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