

Summary of Monthly Normals
1991-2020

Generated on 04/30/2024

Current Location: Elev: 1040 ft. Lat: 44.7336° N Lon: 94.3417° W

Station: BROWNTON WWTP, MN US USC00211065

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	21.2	3.4	12.3	4.9	6.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0	1323.3	1385.3	1478.4	1633.5	0.0	0.0	0.1	25.0	31.0	13.0
02	25.5	6.8	16.1	6.3	8.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	1087.6	1143.6	1227.7	1367.8	0.0	0.0	0.7	20.5	27.8	11.0
03	38.0	20.4	29.2	5.8	5.1	5.3	2.5	1.6	0.8	0.1	0.0	0.0	802.4	863.4	955.7	1110.0	0.0	0.0	5.9	8.7	26.0	2.0
04	54.7	33.5	44.1	5.1	3.7	4.2	21.1	13.4	5.7	0.7	0.0	0.0	348.2	400.4	482.7	627.7	0.0	0.2	19.5	1.4	12.8	0.0
05	67.9	46.7	57.3	3.8	3.0	3.2	148.7	114.4	73.2	30.9	10.1	5.9	77.5	105.2	156.9	269.6	0.0	0.9	29.3	0.0	1.4	0.0
06	77.4	57.6	67.5	2.9	2.1	2.3	377.8	320.2	236.9	117.7	40.6	23.3	3.0	5.4	12.1	42.8	0.1	1.2	29.9	0.0	0.0	0.0
07	80.9	61.0	70.9	3.1	2.5	2.6	494.3	432.6	341.0	195.1	78.1	46.3	0.0	0.3	1.6	10.7	0.0	2.4	31.0	0.0	0.0	0.0
08	79.1	58.3	68.7	2.3	2.4	2.2	425.2	364.1	274.4	140.6	49.2	27.2	0.7	1.6	4.8	25.9	0.0	0.8	31.0	0.0	0.0	0.0
09	71.7	49.3	60.5	3.3	3.0	2.9	206.1	164.3	109.5	46.1	13.4	7.2	41.3	59.4	94.6	181.1	0.0	0.6	29.9	0.0	0.4	0.0
10	57.6	36.5	47.0	3.8	2.4	2.9	36.1	25.1	14.1	3.7	0.6	0.2	282.5	333.6	415.5	560.1	0.0	0.0	22.7	0.2	10.5	0.0
11	40.4	22.9	31.6	6.8	5.4	5.9	0.8	0.3	0.1	0.0	0.0	0.0	701.3	760.8	850.6	1000.6	0.0	0.0	8.9	6.5	23.9	0.8
12	26.4	10.6	18.5	5.6	6.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	1131.3	1193.3	1286.4	1441.4	0.0	0.0	0.3	21.0	30.6	7.6
Summary	53.4	33.9	43.6	4.5	4.2	4.2	1713	1436	1056	535	192	110	5799	6252	6967	8271	0.1	6.1	209.2	83.3	164.4	34.4

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	0.66	4.8	2.4	0.1	0.1	0.41	0.57	0.80
02	0.84	4.8	2.9	0.4	0.1	0.34	0.77	1.13
03	1.51	6.1	4.3	0.8	0.3	1.00	1.55	1.83
04	2.99	8.8	6.9	2.3	0.6	2.08	2.64	3.81
05	4.30	11.0	8.1	3.5	1.1	2.88	3.90	5.55
06	5.24	10.9	8.2	3.4	1.5	3.70	4.49	6.36
07	3.53	7.5	5.9	2.5	0.9	2.84	3.75	4.57
08	4.39	8.9	6.4	2.6	1.0	2.43	4.37	5.44
09	3.22	7.8	6.2	2.8	1.1	2.36	2.67	3.82
10	2.63	8.1	5.3	1.8	0.8	0.94	2.27	3.63
11	1.32	4.5	3.0	0.9	0.2	0.68	1.03	1.80
12	1.07	6.4	4.4	0.8	0.1	0.38	0.87	1.46
Summary	31.70	89.6	64.0	21.9	7.8	20.04	28.88	40.20

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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	6.90	4.0	3.3	0.9	0.2	0.0	26.4	22.0	15.5	7.2	3.50	6.80	9.50
02	11.80	4.2	3.7	1.8	0.8	0.1	22.5	19.3	15.3	10.1	6.10	11.90	14.70
03	7.60	2.1	2.1	0.9	0.6	0.1	15.1	12.7	9.7	5.8	2.50	9.00	11.50
04	7.00	1.5	1.5	0.8	0.4	0.2	3.5	2.1	1.3	0.6	0.00	3.00	13.00
05	0.10	0.1	0.1	0.0	0.0	0.0	0.1	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	0.80	0.4	0.3	0.1	0.1	0.0	0.6	0.2	0.2	0.0	0.00	0.00	0.00
11	3.60	1.8	1.8	0.4	0.1	0.0	4.4	1.6	0.3	0.0	0.00	3.50	5.90
12	12.20	4.7	4.3	1.8	1.1	0.1	19.7	16.7	12.9	5.9	4.50	10.10	17.40
Summary	50.0	18.8	17.1	6.7	3.3	0.5	92.3	74.6	55.2	29.6	16.6	44.3	72.0

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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	0.1	2.6	35.8	203.0	537.5	824.7	959.3	889.5	615.0	258.6	40.3	1.2
45	0.0	0.4	16.7	117.2	389.9	674.6	804.2	734.4	467.5	154.7	15.3	0.0
50	0.0	0.0	7.3	55.9	257.1	525.0	649.1	579.3	328.1	80.2	4.1	0.0
55	0.0	0.0	2.5	21.1	148.7	377.8	494.3	425.2	206.1	36.1	0.8	0.0
60	0.0	0.0	0.8	5.7	73.2	236.9	341.0	274.4	109.5	14.1	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.1	1.9	24.1	126.4	307.2	523.4	642.8	579.7	369.0	151.9	25.2	0.5

Growing Degree Units (Accumulated Monthly)												
40	0	3	38	242	779	1604	2563	3452	4068	4326	4366	4368
45	0	0	17	134	524	1199	2003	2737	3205	3360	3375	3375
50	0	0	7	63	320	845	1494	2074	2402	2482	2486	2486
55	0	0	2	24	172	550	1044	1470	1676	1712	1713	1713
60	0	0	1	6	80	317	658	932	1042	1056	1056	1056
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	2	26	152	460	983	1626	2206	2575	2726	2752	2752

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