

Summary of Monthly Normals
1991-2020

Generated on 06/04/2024

Current Location: Elev: 2170 ft. Lat: 47.8039° N Lon: 103.2892° W

Station: WATFORD CITY, ND US USC00329233

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	21.6	5.1	13.4	6.3	6.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	1290.9	1352.9	1446.0	1600.9	0.0	0.0	0.6	21.0	30.9	12.5
02	26.2	8.1	17.2	8.4	9.2	8.8	0.0	0.0	0.0	0.0	0.0	0.0	1059.7	1115.7	1199.7	1339.7	0.0	0.0	1.5	16.4	27.9	9.9
03	38.8	18.8	28.8	7.5	5.9	6.6	0.5	0.2	0.1	0.0	0.0	0.0	812.7	874.4	967.3	1122.2	0.0	0.0	9.7	8.7	29.1	4.1
04	53.1	30.5	41.8	4.8	2.9	3.8	11.4	7.2	3.2	0.7	0.1	0.0	407.5	463.3	549.2	696.7	0.0	0.0	19.6	1.8	20.5	0.3
05	64.8	42.1	53.5	3.3	2.4	2.7	89.1	64.6	37.6	11.1	1.8	0.7	137.1	174.7	240.6	369.1	0.0	0.3	28.6	0.0	5.9	0.0
06	74.1	52.9	63.5	3.3	2.5	2.7	269.7	219.8	153.5	68.8	23.0	14.4	14.9	24.9	48.6	113.9	0.0	1.9	29.8	0.0	0.3	0.0
07	82.2	57.9	70.0	4.3	2.6	3.3	467.7	407.2	319.3	186.6	87.4	59.6	1.3	2.9	7.8	30.2	0.8	8.8	31.0	0.0	0.0	0.0
08	81.6	55.4	68.5	3.3	2.2	2.6	422.9	364.0	280.2	158.6	72.1	49.2	4.6	7.7	16.8	50.3	1.0	8.4	31.0	0.0	0.0	0.0
09	71.1	44.9	58.0	3.8	2.5	2.9	163.0	127.2	82.7	33.4	9.3	5.1	73.1	97.3	142.7	243.5	0.1	2.1	29.0	0.0	3.4	0.0
10	54.7	32.6	43.7	4.7	3.2	3.8	24.0	16.3	8.3	1.7	0.2	0.0	375.8	430.2	515.1	663.5	0.0	0.1	21.1	1.4	17.3	0.1
11	38.0	20.0	29.0	6.8	4.5	5.4	0.6	0.2	0.0	0.0	0.0	0.0	780.5	840.1	930.0	1079.9	0.0	0.0	7.7	8.9	27.8	2.6
12	26.2	9.9	18.0	7.0	6.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0	1145.3	1207.3	1300.3	1455.3	0.0	0.0	1.1	17.8	30.9	8.3
Summary	52.7	31.5	42.1	5.3	4.2	4.6	1449	1207	885	461	194	129	6103	6591	7364	8765	1.9	21.6	210.7	76.0	194.0	37.8

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

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

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

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	0.50	6.9	1.8	0.1	0.0	0.25	0.37	0.63	
02	0.41	5.7	1.3	0.1	0.0	0.21	0.28	0.52	
03	0.63	6.5	1.6	0.1	0.1	0.27	0.52	0.77	
04	0.96	7.6	3.1	0.2	0.0	0.34	0.95	1.29	
05	2.38	11.1	5.9	1.3	0.3	1.45	2.16	2.60	
06	3.44	12.6	7.2	2.3	0.4	2.28	3.29	4.18	
07	2.63	9.4	5.1	1.9	1.0	1.31	2.21	3.56	
08	1.35	8.6	3.7	0.8	0.2	0.82	1.18	1.90	
09	1.16	7.3	3.6	0.6	0.2	0.52	1.06	1.53	
10	1.04	6.6	3.0	0.5	0.1	0.59	0.78	1.53	
11	0.60	6.1	2.0	0.1	0.0	0.19	0.37	0.94	
12	0.55	6.9	1.7	0.1	0.0	0.34	0.53	0.64	
Summary	15.65	95.3	40.0	8.1	2.3	8.57	13.70	20.09	

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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	9.50	8.1	3.7	0.6	0.2	0.0	27.8	19.6	15.6	8.9	4.70	6.60	12.10
02	8.20	6.3	2.4	0.6	0.3	0.0	20.4	15.0	11.0	6.7	3.20	6.80	10.80
03	7.30	5.0	2.7	0.7	0.2	0.0	15.2	10.7	8.2	3.3	2.60	3.40	10.70
04	4.20	2.5	1.5	0.6	0.3	0.0	2.6	1.4	0.6	0.0	0.40	3.00	7.00
05	1.40	0.7	0.4	0.2	0.1	0.0	0.4	0.2	0.1	0.0	0.00	0.00	1.40
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	2.90	1.5	1.1	0.3	0.1	0.0	2.0	0.9	0.6	0.0	0.00	1.50	6.40
11	6.80	4.6	2.5	0.8	0.3	0.0	10.2	5.4	3.4	0.4	0.90	4.10	12.80
12	10.10	7.5	3.5	1.0	0.6	0.0	20.0	13.0	8.0	2.6	6.00	8.70	12.90
Summary	50.4	36.2	17.8	4.8	2.1	0.0	98.6	66.2	47.5	21.9	17.8	34.1	74.1

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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	2.5	36.6	153.2	426.6	704.9	931.3	883.2	543.1	199.2	31.5	1.1
45	0.1	0.7	13.4	79.8	290.5	555.3	776.4	728.4	401.4	113.5	11.7	0.1
50	0.0	0.1	3.7	34.5	173.9	408.2	621.6	574.5	271.5	55.8	3.4	0.0
55	0.0	0.0	0.5	11.4	89.1	269.7	467.7	422.9	163.0	24.0	0.6	0.0
60	0.0	0.0	0.1	3.2	37.6	153.5	319.3	280.2	82.7	8.3	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.5	2.6	30.7	106.7	249.0	420.9	597.1	556.6	329.6	130.0	23.5	1.3

Growing Degree Units (Accumulated Monthly)												
40	1	4	40	193	620	1325	2256	3139	3682	3882	3913	3914
45	0	1	14	94	384	940	1716	2445	2846	2960	2971	2971
50	0	0	4	38	212	620	1242	1816	2088	2144	2147	2147
55	0	0	0	12	101	371	838	1261	1424	1448	1449	1449
60	0	0	0	3	41	194	514	794	877	885	885	885
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	3	34	140	390	810	1408	1964	2294	2424	2447	2448

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

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