

Summary of Monthly Normals
1991-2020

Current Location: Elev: 1902 ft. Lat: 48.1739° N Lon: 103.6367° W
Station: WILLISTON SLOULIN INTL AP, ND US USW00094014
Generated on 04/27/2024

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	22.1	1.0	11.6	6.5	6.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	1346.7	1408.7	1501.7	1656.7	0.0	0.0	0.4	21.4	30.8	14.3
02	26.7	5.5	16.1	8.4	9.2	8.7	0.0	0.0	0.0	0.0	0.0	0.0	1089.0	1145.0	1229.1	1369.1	0.0	0.0	1.1	17.3	27.7	10.6
03	40.1	17.5	28.8	7.6	6.2	6.8	0.5	0.2	0.1	0.0	0.0	0.0	812.8	874.5	967.3	1122.3	0.0	0.0	8.7	8.9	28.6	4.1
04	55.6	29.2	42.4	4.5	3.1	3.6	10.0	5.8	2.5	0.4	0.0	0.0	388.1	443.9	530.6	678.5	0.0	0.1	20.5	1.4	18.7	0.2
05	67.4	40.2	53.8	3.4	2.6	2.6	87.3	62.6	35.2	10.1	1.6	0.5	124.6	161.9	227.5	357.3	0.0	0.3	29.5	0.0	6.1	0.0
06	76.7	50.2	63.5	3.5	2.6	2.8	265.7	214.3	145.1	61.6	19.8	11.4	12.3	20.9	41.6	108.1	0.1	2.1	30.0	0.0	0.3	0.0
07	84.5	56.3	70.4	4.1	2.7	3.3	477.6	416.3	326.3	188.4	86.0	57.6	0.4	1.1	4.0	21.2	1.0	8.2	31.0	0.0	0.0	0.0
08	83.9	54.0	69.0	3.6	2.4	2.6	435.0	375.3	289.3	163.5	73.3	48.7	2.7	5.0	12.0	41.3	0.8	8.5	31.0	0.0	0.0	0.0
09	72.6	43.5	58.0	3.8	2.8	2.8	157.0	121.4	78.2	31.4	9.2	5.1	65.7	90.1	136.8	240.0	0.2	2.1	29.3	0.0	2.7	0.0
10	55.9	30.4	43.2	4.7	3.4	3.7	17.1	11.3	5.3	1.5	0.2	0.0	384.4	440.7	527.7	678.8	0.0	0.1	21.3	1.1	17.0	0.2
11	38.4	17.1	27.8	6.8	5.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	817.4	877.4	967.4	1117.4	0.0	0.0	6.6	9.6	28.4	2.7
12	26.1	6.1	16.1	6.9	6.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	1205.6	1267.6	1360.7	1515.7	0.0	0.0	0.6	19.9	30.9	10.1
Summary	54.2	29.3	41.7	5.3	4.4	4.6	1450	1207	882	457	190	123	6250	6737	7506	8906	2.1	21.4	210.0	79.6	191.2	42.2

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	0.56	7.6	1.8	0.1	0.0	0.24	0.44	0.77	
02	0.48	7.1	1.4	0.1	0.0	0.22	0.36	0.55	
03	0.63	7.4	1.8	0.1	0.1	0.29	0.48	0.88	
04	1.05	8.3	2.9	0.5	0.1	0.40	0.86	1.63	
05	2.10	9.9	5.4	1.1	0.4	1.06	1.72	2.68	
06	2.64	12.3	6.3	1.8	0.3	1.87	2.43	3.25	
07	2.48	9.2	5.4	1.2	0.5	1.57	2.18	3.36	
08	1.57	8.7	3.8	0.8	0.3	0.73	1.44	2.18	
09	1.36	7.5	3.3	0.7	0.3	0.51	0.96	1.63	
10	0.94	6.9	2.5	0.5	0.1	0.42	0.83	1.17	
11	0.67	6.8	1.7	0.1	0.1	0.25	0.43	0.92	
12	0.63	8.5	1.8	0.2	0.0	0.31	0.54	0.73	
Summary	15.11	100.2	38.1	7.2	2.2	7.87	12.67	19.75	

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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	11.20	9.8	3.3	1.0	0.4	0.1	27.8	21.8	16.3	8.9	4.80	7.40	16.20
02	6.70	6.9	1.9	0.6	0.2	0.0	20.9	15.6	12.1	5.4	3.00	4.30	6.60
03	6.40	6.0	1.8	0.5	0.2	0.0	14.5	11.0	8.6	3.7	2.50	4.50	8.70
04	3.70	2.7	1.1	0.4	0.1	0.0	2.0	1.0	0.4	0.0	0.40	2.30	4.40
05	0.90	0.9	0.3	0.1	0.0	0.0	0.2	0.2	0.1	0.0	0.00	0.00	0.40
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	2.60	1.9	0.8	0.3	0.1	0.0	1.7	1.0	0.0	0.0	0.10	0.90	5.30
11	6.30	5.8	1.7	0.8	0.4	0.0	9.8	6.0	4.4	1.2	0.60	3.70	10.20
12	10.40	8.8	2.9	0.9	0.4	0.1	20.0	15.1	8.7	3.0	4.80	7.10	12.50
Summary	48.2	42.8	13.8	4.6	1.8	0.2	96.9	71.7	50.6	22.2	16.2	30.2	64.3

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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	3.1	31.9	154.7	433.6	703.4	942.2	897.2	543.5	181.3	20.4	0.7
45	0.0	0.9	11.2	77.4	293.3	553.7	787.3	742.3	400.1	97.2	5.6	0.0
50	0.0	0.1	3.0	31.8	173.7	406.0	632.3	587.8	268.4	44.4	0.9	0.0
55	0.0	0.0	0.5	10.0	87.3	265.7	477.6	435.0	157.0	17.1	0.0	0.0
60	0.0	0.0	0.1	2.5	35.2	145.1	326.3	289.3	78.2	5.3	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.4	3.0	35.8	128.0	280.0	434.3	601.3	566.1	345.3	138.0	23.2	0.7

Growing Degree Units (Accumulated Monthly)												
40	0	4	35	190	624	1327	2269	3166	3710	3891	3912	3912
45	0	1	12	90	383	936	1724	2466	2866	2963	2969	2969
50	0	0	3	35	209	615	1247	1835	2103	2148	2148	2148
55	0	0	0	10	98	364	841	1276	1433	1450	1450	1450
60	0	0	0	3	38	183	509	798	877	882	882	882
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	3	39	167	447	882	1483	2049	2394	2532	2555	2556

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