

Summary of Monthly Normals
1991-2020

Generated on 04/27/2024

Current Location: Elev: 1806 ft. Lat: 42.9131° N Lon: 98.8511° W

Station: BUTTE, NE US USC00251365

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	31.4	10.8	21.1	5.4	4.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1050.8	1112.8	1205.8	1360.8	0.0	0.0	3.4	15.2	30.6	7.4
02	35.5	13.9	24.7	7.6	6.1	6.7	0.1	0.0	0.0	0.0	0.0	0.0	848.3	904.2	988.2	1128.3	0.0	0.0	6.0	10.9	26.6	4.7
03	47.1	23.5	35.3	6.4	4.4	5.1	5.9	3.4	1.5	0.3	0.0	0.0	616.7	676.2	767.3	921.1	0.0	0.0	14.2	5.3	24.7	1.1
04	58.0	33.6	45.8	4.2	3.3	3.5	29.0	19.7	10.1	2.2	0.2	0.1	305.0	355.6	436.0	578.2	0.0	0.2	22.7	1.1	12.4	0.0
05	69.2	45.3	57.3	3.5	2.7	2.9	155.4	120.9	78.7	31.7	8.6	4.3	85.7	113.2	164.0	272.0	0.0	0.8	29.5	0.0	2.0	0.0
06	79.6	56.4	68.0	3.1	2.9	2.8	393.5	337.0	256.3	140.2	59.5	38.4	3.6	7.1	16.4	50.3	0.1	4.0	30.0	0.0	0.0	0.0
07	85.9	62.1	74.0	4.1	2.8	3.3	588.8	526.9	434.6	285.6	154.9	113.1	0.0	0.1	0.8	6.7	1.6	10.6	31.0	0.0	0.0	0.0
08	83.8	59.8	71.8	3.0	2.2	2.4	521.2	459.8	368.9	227.7	111.4	76.3	0.5	1.2	3.2	17.0	0.8	7.7	31.0	0.0	0.0	0.0
09	76.4	50.2	63.3	3.3	3.3	2.9	274.9	227.7	164.6	83.8	33.2	20.2	26.1	38.9	65.8	134.9	0.0	3.9	29.8	0.0	0.4	0.0
10	61.8	36.9	49.3	4.4	2.7	3.3	57.0	40.2	21.8	6.6	1.1	0.4	232.2	277.3	351.9	491.8	0.0	0.4	25.8	0.5	9.1	0.0
11	46.8	24.0	35.4	6.5	4.0	5.1	3.7	2.1	0.8	0.2	0.0	0.0	591.7	650.1	738.8	888.1	0.0	0.0	13.2	5.3	24.6	0.5
12	34.0	14.7	24.4	5.7	4.7	5.1	0.1	0.0	0.0	0.0	0.0	0.0	950.0	1011.9	1104.9	1260.0	0.0	0.0	4.1	12.5	30.4	4.1
Summary	59.1	35.9	47.5	4.8	3.7	4.0	2030	1738	1337	778	369	253	4711	5149	5843	7109	2.5	27.6	240.7	50.8	160.8	17.8

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	0.54	4.3	1.2	0.2	0.0	0.23	0.38	0.68
02	0.80	4.7	2.5	0.3	0.1	0.40	0.69	1.06
03	1.47	6.3	3.8	0.8	0.2	0.78	1.31	2.02
04	3.12	8.7	6.1	2.2	0.7	2.10	2.80	4.13
05	4.23	10.3	7.8	3.2	1.0	2.74	4.17	5.56
06	3.91	9.8	6.7	2.4	0.8	2.29	3.50	5.32
07	3.48	8.0	5.8	2.4	0.7	1.70	3.19	4.50
08	3.32	7.7	5.4	2.3	0.9	1.80	3.10	5.63
09	2.63	5.8	4.2	1.6	0.7	1.18	2.44	3.75
10	2.37	6.2	4.3	1.6	0.7	1.12	1.65	3.11
11	0.86	3.9	2.3	0.5	0.1	0.32	0.80	1.30
12	0.66	3.9	1.9	0.2	0.0	0.24	0.55	0.78
Summary	27.39	79.6	52.0	17.7	5.9	14.90	24.58	37.84

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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	6.20	3.3	2.0	0.7	0.3	0.1	12.7	8.0	5.7	2.6	3.60	4.80	8.00
02	6.50	3.5	2.3	0.9	0.2	0.0	8.4	4.9	2.7	0.7	2.30	5.80	11.30
03	5.90	3.1	2.2	0.7	0.3	0.0	5.0	2.3	1.5	0.5	2.90	6.00	8.00
04	5.00	1.5	1.3	0.6	0.3	0.0	1.7	1.0	0.8	0.3	0.00	2.00	8.70
05	0.20	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	1.10	0.6	0.5	0.2	0.0	0.0	0.6	0.3	0.1	0.0	0.00	0.00	1.50
11	4.40	1.9	1.4	0.6	0.2	0.0	2.7	1.1	0.6	0.1	0.40	3.30	6.60
12	6.80	3.0	2.1	0.8	0.3	0.0	10.0	6.1	3.2	0.1	2.70	6.50	9.10
Summary	36.1	16.9	11.8	4.5	1.6	0.1	41.1	23.7	14.6	4.3	11.9	28.4	53.2

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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	4.7	17.2	91.1	231.9	536.4	839.9	1053.7	985.6	699.2	326.4	76.0	7.7
45	1.0	5.7	44.4	135.1	390.7	689.8	898.5	830.5	550.5	210.6	35.8	1.7
50	0.2	1.4	18.2	67.5	260.3	540.2	743.7	675.6	407.1	119.4	13.6	0.3
55	0.0	0.1	5.9	29.0	155.4	393.5	588.8	521.2	274.9	57.0	3.7	0.1
60	0.0	0.0	1.5	10.1	78.7	256.3	434.6	368.9	164.6	21.8	0.8	0.0
Growing Degree Units for Corn (Monthly)												
50/86	8.0	20.0	78.9	158.0	323.1	535.7	700.0	647.2	438.4	210.2	66.5	10.3

Growing Degree Units (Accumulated Monthly)												
40	5	22	113	345	881	1721	2775	3760	4460	4786	4862	4870
45	1	7	51	186	577	1267	2165	2996	3546	3757	3793	3794
50	0	2	20	87	348	888	1632	2307	2714	2834	2847	2848
55	0	0	6	35	190	584	1173	1694	1969	2026	2029	2030
60	0	0	2	12	90	347	781	1150	1315	1336	1337	1337
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	8	28	107	265	588	1124	1824	2471	2909	3120	3186	3196

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