

Summary of Monthly Normals
1991-2020

Current Location: Elev: 4242 ft. Lat: 44.5353° N Lon: 107.7775° W
Station: SHELL, WY US USC00488124
Generated on 04/26/2024

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	32.7	6.4	19.5	5.4	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	1098.9	1160.9	1253.9	1408.9	0.0	0.0	1.4	12.6	31.0	7.9
02	37.4	10.8	24.1	6.6	6.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0	865.0	920.9	1004.9	1145.0	0.0	0.0	4.1	8.7	27.9	5.0
03	49.9	22.2	36.0	5.4	3.3	4.1	0.6	0.1	0.0	0.0	0.0	0.0	588.2	649.8	742.7	897.6	0.0	0.0	17.1	2.6	28.7	1.1
04	58.7	29.3	44.0	3.6	2.6	2.8	8.9	4.5	1.5	0.2	0.0	0.0	338.9	394.4	481.4	630.2	0.0	0.0	24.2	0.4	20.1	0.0
05	68.7	39.1	53.9	4.1	1.7	2.5	85.4	60.0	30.7	6.4	0.9	0.3	119.6	156.2	219.9	350.6	0.0	0.4	29.5	0.0	6.0	0.0
06	79.3	47.0	63.2	4.3	2.3	2.9	260.5	210.4	143.1	61.4	18.2	9.7	15.9	25.8	48.6	116.8	0.1	5.2	29.9	0.0	0.2	0.0
07	89.1	53.5	71.3	4.1	3.0	3.3	505.7	444.4	353.7	211.8	94.1	59.3	0.6	1.4	3.7	16.8	1.1	17.0	31.0	0.0	0.0	0.0
08	86.9	51.0	68.9	2.9	2.6	2.4	435.7	376.0	288.7	157.1	59.9	35.9	3.4	5.6	11.4	34.8	0.4	15.2	31.0	0.0	0.1	0.0
09	75.8	41.7	58.7	3.3	2.5	2.6	169.7	130.5	81.6	28.0	5.7	2.6	57.2	78.1	119.2	215.5	0.0	3.0	29.5	0.0	3.6	0.0
10	60.2	29.7	44.9	4.8	2.9	3.7	17.4	10.7	4.6	0.8	0.0	0.0	329.0	384.2	471.1	622.3	0.0	0.0	25.3	0.9	21.0	0.2
11	45.2	18.2	31.7	5.8	4.0	4.7	0.1	0.0	0.0	0.0	0.0	0.0	699.1	759.0	849.0	999.0	0.0	0.0	12.2	4.4	28.7	2.2
12	33.7	7.8	20.8	4.3	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	1061.5	1123.4	1216.4	1371.5	0.0	0.0	2.3	12.4	30.9	5.6
Summary	59.8	29.7	44.7	4.5	3.4	3.8	1484	1237	904	466	179	108	5177	5660	6422	7809	1.6	40.8	237.5	42.0	198.2	22.0

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	0.47	4.8	2.1	0.0	0.0	0.19	0.34	0.74
02	0.50	4.2	1.8	0.0	0.0	0.25	0.49	0.69
03	0.49	3.9	2.0	0.1	0.0	0.30	0.43	0.62
04	1.05	6.3	3.2	0.2	0.0	0.53	0.95	1.40
05	1.88	9.5	4.9	1.1	0.1	0.78	1.78	2.87
06	1.35	7.4	4.1	0.6	0.1	0.67	1.23	1.84
07	0.72	4.2	1.6	0.2	0.0	0.23	0.38	1.06
08	0.46	3.8	1.5	0.1	0.0	0.21	0.38	0.72
09	1.07	5.4	2.6	0.5	0.2	0.35	0.76	1.59
10	0.99	5.6	2.9	0.5	0.1	0.40	0.78	1.40
11	0.68	4.6	2.2	0.2	0.0	0.27	0.71	0.94
12	0.44	3.6	1.5	0.0	0.0	0.23	0.36	0.49
Summary	10.10	63.3	30.4	3.5	0.5	4.41	8.59	14.36

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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	7.30	4.0	3.5	0.8	0.3	0.0	20.3	11.9	6.7	0.9	2.10	7.00	10.60
02	6.40	3.5	2.4	0.7	0.3	0.0	17.2	11.5	7.2	1.0	1.50	6.00	8.70
03	2.70	1.7	1.5	0.2	0.0	0.0	5.2	2.8	2.3	0.8	1.00	2.80	4.00
04	1.40	0.7	0.6	0.2	0.1	0.0	0.9	0.2	0.1	0.0	0.00	0.00	1.60
05	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
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	0.90	0.5	0.4	0.2	0.1	0.0	0.8	0.3	0.1	0.0	0.00	0.00	0.00
11	3.90	1.9	1.4	0.3	0.1	0.0	6.0	1.5	0.6	0.1	0.00	3.00	4.60
12	5.60	3.0	2.1	0.5	0.4	0.0	11.9	4.9	2.5	0.1	2.50	3.00	6.60
Summary	28.2	15.3	11.9	2.9	1.3	0.0	62.3	33.1	19.5	2.9	7.1	21.8	36.1

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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	0.3	6.3	62.8	172.7	435.3	694.6	969.6	897.1	564.6	213.1	38.1	1.5
45	0.0	1.3	21.7	87.0	292.9	545.2	814.9	742.3	419.9	115.4	11.6	0.1
50	0.0	0.1	5.2	33.8	172.8	398.2	660.0	587.8	285.2	50.6	2.0	0.0
55	0.0	0.0	0.6	8.9	85.4	260.5	505.7	435.7	169.7	17.4	0.1	0.0
60	0.0	0.0	0.0	1.5	30.7	143.1	353.7	288.7	81.6	4.6	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	1.7	11.4	72.8	151.8	290.3	438.4	598.9	563.3	385.0	184.6	47.2	4.1

Growing Degree Units (Accumulated Monthly)												
40	0	7	69	242	677	1372	2342	3239	3803	4016	4054	4056
45	0	1	23	110	403	948	1763	2505	2925	3041	3052	3052
50	0	0	5	39	212	610	1270	1858	2143	2194	2196	2196
55	0	0	1	10	95	355	861	1297	1466	1484	1484	1484
60	0	0	0	2	32	175	529	818	899	904	904	904
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	2	13	86	238	528	966	1565	2129	2514	2698	2745	2749

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