

Summary of Monthly Normals
1991-2020

Current Location: Elev: 3325 ft. Lat: 48.5133° N Lon: 111.8550° W
Station: SHELBY, MT US USC00247500
Generated on 06/04/2024

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	31.4	6.1	18.8	6.3	6.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	1123.6	1185.6	1278.6	1433.6	0.0	0.0	3.6	11.4	29.1	10.3
02	35.3	9.9	22.6	8.9	8.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	907.1	963.1	1047.1	1187.2	0.0	0.0	5.4	8.9	26.8	6.4
03	43.9	18.4	31.2	6.7	5.6	6.1	0.3	0.1	0.0	0.0	0.0	0.0	739.7	801.5	894.4	1049.4	0.0	0.0	13.0	6.0	27.8	2.9
04	54.2	28.4	41.3	4.0	2.7	3.2	5.3	2.8	0.7	0.1	0.0	0.0	416.3	473.8	561.7	711.1	0.0	0.0	21.5	1.4	20.2	0.1
05	64.4	38.0	51.2	3.6	1.7	2.6	54.6	37.1	18.3	3.5	0.2	0.0	172.4	216.9	291.1	431.3	0.0	0.1	28.6	0.0	7.5	0.0
06	72.6	46.0	59.3	3.2	1.8	2.2	160.3	118.6	68.4	19.4	3.1	1.2	31.3	49.7	89.5	190.4	0.0	1.0	29.8	0.0	0.4	0.0
07	82.2	51.5	66.8	4.5	2.2	3.1	369.2	310.3	226.4	108.9	35.0	18.6	2.1	5.1	14.3	51.7	0.2	8.0	31.0	0.0	0.0	0.0
08	82.2	49.3	65.8	3.3	2.0	2.4	340.9	284.6	204.9	97.1	29.8	15.5	7.9	13.5	26.9	74.0	0.2	7.7	31.0	0.0	0.0	0.0
09	70.9	40.5	55.7	3.7	1.9	2.5	113.6	82.9	47.2	12.4	1.8	0.7	92.7	122.0	176.3	291.5	0.0	1.6	28.8	0.1	3.9	0.0
10	56.2	29.0	42.6	4.5	2.7	3.5	14.3	8.4	3.0	0.4	0.0	0.0	398.7	454.7	542.4	694.8	0.0	0.0	24.2	1.3	19.0	0.2
11	42.0	17.6	29.8	5.3	4.9	5.0	0.4	0.2	0.0	0.0	0.0	0.0	756.4	816.1	905.9	1056.0	0.0	0.0	10.9	5.3	25.7	3.0
12	33.1	9.1	21.1	6.2	6.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1050.7	1112.7	1205.7	1360.8	0.0	0.0	3.4	11.3	29.4	7.9
Summary	55.7	28.7	42.2	5.0	3.9	4.3	1059	845	569	242	70	36	5699	6215	7034	8532	0.4	18.4	231.2	45.7	189.8	30.8

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	0.46	5.1	1.7	0.1	0.0	0.24	0.32	0.69	
02	0.36	5.4	1.6	0.0	0.0	0.13	0.28	0.46	
03	0.63	6.0	2.3	0.1	0.0	0.33	0.60	0.97	
04	1.34	7.3	3.8	0.7	0.0	0.76	1.28	1.94	
05	1.77	9.3	4.5	1.1	0.2	0.99	1.96	2.54	
06	2.85	11.1	5.9	1.7	0.6	1.88	2.69	3.59	
07	1.14	5.8	2.7	0.5	0.1	0.32	0.74	1.60	
08	0.85	5.7	2.7	0.2	0.0	0.37	0.89	1.32	
09	1.01	6.1	3.4	0.5	0.1	0.47	0.82	1.37	
10	0.74	5.4	2.3	0.2	0.0	0.34	0.62	1.07	
11	0.52	4.6	2.1	0.2	0.0	0.32	0.47	0.65	
12	0.46	5.2	1.9	0.0	0.0	0.24	0.35	0.65	
Summary	12.13	77.0	34.9	5.3	1.0	6.39	11.02	16.85	

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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	4.2	2.9	0.6	0.1	0.0	15.2	6.0	3.0	0.1	4.00	6.20	9.40
02	5.80	4.1	2.3	0.3	0.0	0.0	9.9	4.4	2.6	0.0	1.60	5.10	6.90
03	6.90	3.1	2.1	0.5	0.1	0.0	6.6	3.1	1.8	0.2	2.00	6.20	8.50
04	4.10	1.8	1.2	0.4	0.2	0.0	1.8	0.4	0.2	0.0	0.20	3.00	6.30
05	1.90	0.5	0.5	0.2	0.1	0.1	0.4	0.1	0.0	0.0	0.00	0.00	1.60
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	0.50	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.00	0.00	0.00
10	1.40	0.7	0.5	0.2	0.1	0.0	1.3	0.5	0.2	0.0	0.00	0.00	2.50
11	5.50	2.6	1.9	0.5	0.2	0.0	4.7	2.1	0.8	0.1	0.70	5.60	8.60
12	5.50	3.7	1.9	0.3	0.1	0.0	11.1	4.1	1.5	0.1	1.90	4.50	7.30
Summary	38.9	20.8	13.4	3.1	0.9	0.1	51.1	20.8	10.2	0.5	10.4	30.6	51.1

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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	5.7	7.6	35.5	122.8	357.4	579.1	832.1	798.0	477.3	171.6	31.8	4.9
45	1.0	1.7	10.3	52.1	225.7	430.6	677.1	643.3	337.8	90.6	10.0	0.7
50	0.1	0.1	2.0	17.9	122.2	287.1	522.3	489.7	212.8	40.6	2.5	0.1
55	0.0	0.0	0.3	5.3	54.6	160.3	369.2	340.9	113.6	14.3	0.4	0.0
60	0.0	0.0	0.0	0.7	18.3	68.4	226.4	204.9	47.2	3.0	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	5.2	10.0	41.9	104.4	233.6	348.5	518.7	502.9	319.3	137.3	30.9	5.1

Growing Degree Units (Accumulated Monthly)												
40	6	13	49	172	529	1108	1940	2738	3216	3387	3419	3424
45	1	3	13	65	291	721	1398	2042	2380	2470	2480	2481
50	0	0	2	20	142	429	952	1441	1654	1695	1697	1697
55	0	0	0	6	60	220	590	931	1044	1058	1059	1059
60	0	0	0	1	19	87	314	519	566	569	569	569
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	5	15	57	162	395	744	1262	1765	2085	2222	2253	2258

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