

Summary of Monthly Normals 1991-2020

Generated on 11/30/2021

Current Location: Elev: 8183 ft. Lat: 37.7333° N Lon: -105.5119° W

Station: **GREAT SAND DUNES NP & PRESERVE, CO US USC00053541**

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	33.4	11.3	22.3	4.6	4.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	1012.1	1074.1	1167.1	1322.1	0.0	0.0	0.6	13.6	30.9	3.6
02	38.8	16.2	27.5	3.7	3.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	769.9	826.0	910.0	1050.0	0.0	0.0	3.0	6.3	27.8	1.6
03	48.5	23.7	36.1	3.3	2.1	2.5	0.1	0.0	0.0	0.0	0.0	0.0	586.1	648.0	740.9	895.9	0.0	0.0	15.1	1.5	28.2	0.1
04	55.8	29.2	42.5	3.4	2.2	2.7	2.4	0.8	0.1	0.0	0.0	0.0	377.3	435.8	525.1	675.0	0.0	0.0	22.8	0.4	20.3	0.0
05	65.9	37.8	51.9	3.4	2.3	2.7	50.8	31.0	13.1	1.7	0.1	0.0	148.3	190.7	265.7	409.4	0.0	0.0	29.4	0.0	6.9	0.0
06	77.4	47.6	62.5	3.3	2.2	2.7	236.0	184.4	115.0	33.1	3.3	0.9	11.2	19.4	40.0	108.2	0.0	0.4	30.0	0.0	0.3	0.0
07	80.8	51.7	66.3	2.2	1.6	1.7	349.0	287.8	198.0	71.7	8.9	2.2	0.4	1.1	4.3	33.0	0.0	0.5	31.0	0.0	0.0	0.0
08	78.1	50.0	64.1	2.4	2.1	2.0	282.3	222.6	138.6	36.8	2.6	0.5	1.9	4.1	13.1	66.3	0.0	0.1	31.0	0.0	0.0	0.0
09	71.6	43.5	57.5	2.9	2.1	2.4	117.5	78.8	35.9	4.4	0.0	0.0	41.0	62.3	109.4	227.9	0.0	0.0	29.8	0.0	1.3	0.0
10	59.6	32.8	46.2	2.9	2.4	2.5	8.4	3.3	0.5	0.0	0.0	0.0	281.2	338.1	428.3	582.8	0.0	0.0	26.8	0.4	13.7	0.1
11	45.5	21.6	33.6	4.1	2.6	3.2	0.1	0.0	0.0	0.0	0.0	0.0	643.6	703.5	793.5	943.5	0.0	0.0	11.7	3.3	28.1	0.2
12	34.1	12.0	23.1	4.3	3.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	990.3	1052.4	1145.4	1300.4	0.0	0.0	1.3	12.8	30.8	3.9
Summary	57.5	31.5	44.5	3.4	2.5	2.8	1047	809	501	148	15	4	4863	5356	6143	7614	0.0	1.0	232.5	38.3	188.3	9.5

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	0.58	4.9	1.7	0.3	0.0	0.29	0.51	0.74
02	0.44	5.2	1.4	0.0	0.0	0.28	0.39	0.57
03	0.88	5.6	3.1	0.3	0.1	0.33	0.81	1.23
04	1.19	6.1	3.5	0.6	0.1	0.65	0.97	1.52
05	1.19	7.3	3.4	0.6	0.1	0.32	0.87	1.86
06	0.73	5.2	2.2	0.3	0.1	0.28	0.56	1.03
07	2.10	10.2	5.6	1.0	0.3	1.13	1.97	2.93
08	1.92	11.3	5.6	0.8	0.2	1.21	1.62	2.58
09	1.31	7.1	3.4	0.7	0.2	0.80	1.15	1.46
10	0.86	5.4	2.7	0.2	0.0	0.44	0.74	1.18
11	0.51	4.0	1.8	0.2	0.0	0.14	0.39	0.83
12	0.49	5.4	1.8	0.1	0.0	0.15	0.38	0.72
Summary	12.20	77.7	36.2	5.1	1.1	6.02	10.36	16.65

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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	8.1	5.3	2.5	0.8	0.3	0.0					3.9	6.3	11.3
02	6.2	5.1	2.3	0.6	0.2	0.0					4.7	6.2	7.2
03	8.5	4.5	2.7	1.0	0.3	0.1					3.0	6.2	10.7
04	7.9	4.3	2.6	0.9	0.4	0.0					2.8	6.2	12.7
05	1.7	0.9	0.5	0.3	0.0	0.0					0.0	0.2	1.8
06	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0	0.0
07	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0	0.0
08	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0	0.0
09	0.0	0.0	0.0	0.0	0.0	0.0					0.0	0.0	0.0
10	2.8	1.7	0.9	0.4	0.1	0.0					0.0	1.0	5.1
11	5.6	3.4	1.9	0.8	0.3	0.1					1.7	4.0	8.0
12	7.0	5.6	2.8	0.7	0.3	0.0					2.4	5.3	9.6
Summary	47.8	30.8	16.2	5.5	1.9	0.2	0.0	0.0	0.0	0.0	18.5	35.4	66.4

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	0.4	3.1	45.1	140.4	376.6	674.8	813.6	745.5	527.3	228.3	31.5	1.1
45	0.1	0.3	12.0	60.7	241.2	525.0	658.5	590.4	380.1	116.6	6.9	0.1
50	0.0	0.0	1.6	16.5	129.4	377.1	503.5	435.6	239.5	42.5	0.7	0.0
55	0.0	0.0	0.1	2.4	50.8	236.0	349.0	282.3	117.5	8.4	0.1	0.0
60	0.0	0.0	0.0	0.1	13.1	115.0	198.0	138.6	35.9	0.5	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.7	4.5	47.1	115.8	252.9	427.2	513.0	460.2	328.9	164.7	33.4	1.4

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	0	4	49	189	566	1240	2054	2800	3327	3555	3587	3588
45	0	0	12	73	314	839	1498	2088	2468	2585	2592	2592
50	0	0	2	18	148	525	1028	1464	1703	1746	1746	1746
55	0	0	0	2	53	289	638	921	1038	1046	1047	1047
60	0	0	0	0	13	128	326	465	501	501	501	501
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	1	5	52	168	421	848	1361	1821	2150	2315	2348	2350

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

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