

Summary of Monthly Normals
1991-2020

Generated on 04/19/2024

Current Location: Elev: 3664 ft. Lat: 47.4733° N Lon: 111.3822° W
Station: GREAT FALLS INTL AP, MT US USW00024143

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	35.3	15.0	25.2	5.5	5.8	5.6	0.1	0.0	0.0	0.0	0.0	0.0	925.5	987.4	1080.4	1235.4	0.0	0.0	4.8	10.1	26.9	6.3
02	37.1	15.4	26.2	9.0	8.0	8.4	0.2	0.1	0.0	0.0	0.0	0.0	804.9	860.8	944.8	1084.9	0.0	0.0	6.5	8.8	25.0	4.9
03	46.1	22.1	34.1	6.9	5.0	5.9	1.5	0.7	0.2	0.0	0.0	0.0	649.5	710.7	803.2	958.0	0.0	0.0	13.8	4.7	25.3	2.3
04	54.9	29.9	42.4	3.5	2.7	3.0	7.5	4.3	1.7	0.1	0.0	0.0	385.4	442.3	529.6	678.1	0.0	0.0	20.9	1.3	18.1	0.3
05	64.6	38.4	51.5	3.4	2.0	2.5	55.4	37.1	18.2	2.9	0.1	0.0	164.0	207.7	281.8	421.5	0.0	0.1	28.4	0.0	6.0	0.0
06	72.8	45.9	59.4	3.5	1.8	2.4	162.0	120.7	72.0	23.8	5.6	2.7	31.4	50.1	91.4	193.3	0.0	1.1	29.6	0.0	0.2	0.0
07	84.3	51.4	67.9	5.1	2.9	3.8	400.8	341.5	257.0	136.2	53.0	31.9	2.7	5.5	13.9	48.0	0.7	10.0	31.0	0.0	0.0	0.0
08	83.2	50.3	66.7	3.9	2.1	2.8	372.6	315.6	234.8	120.2	42.0	23.5	8.5	13.6	25.7	66.0	0.3	8.7	30.9	0.0	0.1	0.0
09	71.7	42.8	57.2	4.2	2.3	3.0	144.9	111.5	70.2	25.2	5.4	2.4	77.5	104.1	152.8	257.8	0.0	1.8	28.4	0.1	2.0	0.0
10	57.0	32.6	44.8	4.0	3.3	3.5	26.8	17.4	7.9	1.7	0.1	0.0	342.9	395.5	479.0	627.8	0.0	0.0	23.4	1.7	14.6	0.3
11	43.7	23.6	33.6	6.0	5.2	5.5	2.5	1.0	0.1	0.0	0.0	0.0	643.0	701.5	790.6	940.5	0.0	0.0	11.1	5.7	22.6	2.0
12	35.6	16.3	26.0	6.4	6.2	6.2	0.1	0.0	0.0	0.0	0.0	0.0	900.3	962.2	1055.3	1210.4	0.0	0.0	4.7	10.0	27.0	4.6
Summary	57.2	32.0	44.6	5.1	3.9	4.4	1174	950	662	310	106	60	4936	5441	6249	7722	1.0	21.7	233.5	42.4	167.8	20.7

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	0.55	6.9	1.9	0.0	0.0	0.30	0.48	0.72
02	0.59	8.2	2.0	0.0	0.0	0.28	0.43	0.61
03	0.68	8.1	2.2	0.1	0.0	0.41	0.59	0.93
04	1.73	10.0	4.8	0.9	0.1	1.13	1.53	2.36
05	2.43	11.3	6.1	1.2	0.3	2.02	2.44	2.91
06	2.72	11.8	5.9	1.8	0.3	1.56	2.58	3.44
07	1.23	7.1	3.3	0.7	0.1	0.39	0.96	1.68
08	1.22	6.8	3.1	0.6	0.1	0.42	1.10	1.55
09	1.33	7.1	3.4	0.8	0.1	0.86	1.46	1.80
10	1.07	7.4	3.2	0.4	0.0	0.60	0.86	1.46
11	0.68	6.5	2.2	0.2	0.0	0.28	0.47	0.97
12	0.53	6.5	1.7	0.1	0.0	0.20	0.32	0.86
Summary	14.76	97.7	39.8	6.8	1.0	8.45	13.22	19.29

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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	9.20	7.4	3.2	0.8	0.2	0.0	14.3	7.5	3.8	0.5	5.80	8.50	12.50
02	10.10	8.1	3.6	0.7	0.3	0.0	11.4	6.5	3.6	0.5	4.20	7.30	12.00
03	10.10	6.8	3.0	0.9	0.5	0.0	8.2	4.6	2.3	0.6	4.40	9.50	12.90
04	9.40	4.6	2.4	1.0	0.5	0.1	3.1	1.3	0.5	0.1	4.00	7.20	11.80
05	1.90	1.4	0.6	0.2	0.0	0.0	0.5	0.2	0.1	0.1	0.00	1.50	2.80
06	0.30	0.2	0.0	0.0	0.0	0.0	0.1	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	0.30	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
09	0.80	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.00	0.00	0.00
10	5.20	3.3	1.8	0.5	0.1	0.0	2.6	1.3	0.4	0.0	1.20	3.80	6.80
11	9.20	6.1	2.7	1.0	0.4	0.0	8.2	4.5	2.1	0.2	3.00	9.30	13.00
12	9.60	7.1	2.8	0.9	0.4	0.0	11.3	5.5	2.4	0.5	4.30	6.60	13.30
Summary	66.1	45.3	20.3	6.1	2.5	0.1	59.8	31.5	15.3	2.5	26.9	53.7	85.1

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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	19.7	22.4	66.3	146.3	366.0	580.9	862.6	829.1	521.5	222.9	67.7	18.2
45	5.6	6.9	25.0	68.2	230.6	432.1	708.0	675.0	380.0	127.8	29.4	4.1
50	0.9	1.6	7.2	25.2	124.3	288.3	553.4	521.9	250.7	63.6	10.5	0.4
55	0.1	0.2	1.5	7.5	55.4	162.0	400.8	372.6	144.9	26.8	2.5	0.1
60	0.0	0.0	0.2	1.7	18.2	72.0	257.0	234.8	70.2	7.9	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	9.1	16.7	57.1	114.0	235.5	350.3	535.4	516.0	331.5	150.5	40.5	8.4

Growing Degree Units (Accumulated Monthly)												
40	20	42	108	255	621	1202	2064	2893	3415	3638	3705	3724
45	6	12	38	106	336	768	1476	2151	2531	2659	2689	2693
50	1	2	10	35	159	448	1001	1523	1774	1837	1848	1848
55	0	0	2	9	65	227	628	1000	1145	1172	1174	1174
60	0	0	0	2	20	92	349	584	654	662	662	662
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	9	26	83	197	432	783	1318	1834	2166	2316	2357	2365

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