

Summary of Monthly Normals
1981-2010

Generated on 04/27/2024

Current Location: Elev: 5700 ft. Lat: 43.0350° N Lon: 106.9883° W
Station: POWDER RIVER NUMBER 2, WY US USC00487376

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	34.0	10.0	22.0	5.4	5.2	5.1	0	0	0	0	0	0	1023	1085	1178	1333	0.0	0.0	1.5	11.8	30.5	6.0
02	37.2	12.9	25.0	5.6	5.7	5.5	0	0	0	0	0	0	838	894	978	1118	0.0	0.0	3.1	7.6	27.3	4.4
03	47.3	21.7	34.5	4.6	3.6	3.9	-7777	-7777	-7777	0	0	0	636	698	791	946	0.0	0.0	13.9	3.2	26.8	1.1
04	56.2	29.0	42.6	5.3	2.9	3.8	8	4	1	-7777	0	0	380	436	523	672	0.0	0.0	20.8	1.0	19.0	-7777
05	66.1	37.1	51.6	4.6	2.2	3.1	57	36	15	2	-7777	-7777	162	204	276	418	0.0	0.1	28.1	0.0	7.0	0.0
06	77.8	45.2	61.5	4.9	2.1	3.1	219	172	111	40	9	4	24	37	66	145	0.0	2.8	29.6	0.0	0.2	0.0
07	87.5	52.3	69.9	3.8	2.9	3.1	462	402	312	175	70	41	1	2	6	24	0.5	12.4	31.0	0.0	0.1	0.0
08	86.3	50.4	68.4	3.7	3.3	3.1	418	358	272	142	49	27	4	7	13	38	0.3	9.8	31.0	0.0	0.3	0.0
09	74.2	40.7	57.4	3.4	4.0	3.3	146	112	68	24	5	2	73	98	145	250	0.0	1.5	29.1	-7777	4.0	0.0
10	59.2	29.7	44.5	5.3	2.0	3.3	10	5	1	-7777	0	0	338	394	483	637	0.0	0.0	23.9	0.7	18.7	0.0
11	43.7	18.0	30.8	6.5	5.6	5.9	1	1	-7777	0	0	0	726	785	875	1025	0.0	0.0	10.1	6.3	26.9	2.3
12	31.9	8.0	20.0	7.1	6.2	6.5	0	0	0	0	0	0	1086	1148	1241	1396	0.0	0.0	1.5	14.5	30.2	7.2
Summary	58.5	29.6	44.0	5.0	3.8	4.1	1321	1090	780	383	133	74	5291	5788	6575	8002	0.8	26.6	223.6	45.1	191.0	21.0

-7777: a non-zero value that would round to zero
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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	0.26	2.1	1.1	-7777	0.0	0.08	0.19	0.38	
02	0.38	2.6	1.3	0.2	0.1	0.23	0.38	0.50	
03	0.69	3.4	1.9	0.3	0.1	0.13	0.46	0.91	
04	0.99	4.1	2.5	0.3	0.1	0.49	0.85	1.56	
05	2.05	6.5	4.6	1.0	0.6	0.87	1.93	2.42	
06	1.48	4.7	3.5	0.9	0.2	0.63	1.00	1.92	
07	0.96	3.8	2.3	0.7	0.2	0.29	0.75	1.28	
08	0.68	2.9	1.7	0.4	-7777	0.19	0.59	1.09	
09	1.09	2.9	2.0	0.7	0.2	0.51	1.02	1.29	
10	1.02	3.0	2.1	0.5	0.1	0.59	0.95	1.34	
11	0.54	2.2	1.6	0.3	-7777	0.19	0.34	0.86	
12	0.29	2.1	0.9	0.0	0.0	0.08	0.24	0.39	
Summary	10.43	40.3	25.5	5.3	1.6	4.28	8.70	13.94	

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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	5.1	1.9	1.8	0.8	0.1	-7777					2.0	3.0	7.5
02	6.8	2.3	2.1	1.0	0.5	0.1					3.0	5.0	8.0
03	7.3	2.0	2.0	1.1	0.4	0.1					2.0	6.0	9.0
04	5.2	2.1	2.1	0.8	0.2	0.0					2.0	4.0	7.0
05	1.2	0.5	0.5	0.2	0.1	0.0					0.0	0.0	1.0
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	1.3	0.3	0.3	0.2	0.1	0.0					0.0	0.0	1.5
10	5.9	1.4	1.3	0.8	0.5	0.1					2.0	5.5	8.0
11	5.6	2.1	2.0	0.8	0.3	0.0					3.0	5.0	8.0
12	3.9	1.6	1.6	0.7	0.2	0.0					0.0	3.0	8.0
Summary	42.3	14.2	13.7	6.4	2.4	0.3	0.0	0.0	0.0	0.0	14.0	31.5	58.0

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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	2	5	51	154	370	645	926	878	527	201	43	2
45	0	1	17	77	239	497	771	724	386	108	17	-7777
50	0	-7777	4	29	131	352	617	569	254	43	5	0
55	0	0	-7777	8	57	219	462	418	146	10	1	0
60	0	0	-7777	1	15	111	312	272	68	1	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	2	6	53	129	257	418	581	563	369	174	45	2
Growing Degree Units (Accumulated Monthly)												
40	2	7	58	212	582	1227	2153	3031	3558	3759	3802	3804
45	0	1	18	95	334	831	1602	2326	2712	2820	2837	2837
50	0	0	4	33	164	516	1133	1702	1956	1999	2004	2004
55	0	0	0	8	65	284	746	1164	1310	1320	1321	1321
60	0	0	0	1	16	127	439	711	779	780	780	780
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	2	8	61	190	447	865	1446	2009	2378	2552	2597	2599

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