

Summary of Monthly Normals
1991-2020

Current Location: Elev: 5865 ft. Lat: 46.0306° N Lon: 110.5056° W
Station: WILLSALL 8 ENE, MT US USC00249023

Generated on 04/28/2024

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	33.5	14.2	23.9	3.4	3.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	965.8	1027.8	1120.8	1275.7	0.0	0.0	1.0	11.8	30.1	4.5
02	34.3	13.5	23.9	4.7	6.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	870.5	926.5	1010.6	1150.7	0.0	0.0	2.2	8.9	26.7	3.0
03	42.1	20.2	31.2	4.3	3.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	739.5	801.5	894.4	1049.4	0.0	0.0	8.8	4.0	27.7	1.6
04	49.2	25.7	37.5	3.9	2.9	3.2	0.6	0.2	0.0	0.0	0.0	0.0	527.0	586.6	676.4	826.5	0.0	0.0	15.2	1.0	24.1	0.1
05	59.2	33.8	46.5	3.3	1.8	2.4	14.5	6.7	1.1	0.1	0.0	0.0	278.1	332.3	419.7	573.6	0.0	0.0	25.9	0.1	12.4	0.0
06	68.0	40.8	54.4	3.5	1.9	2.5	70.8	45.3	19.9	2.8	0.0	0.0	88.8	123.2	187.9	320.8	0.0	0.1	29.2	0.0	2.3	0.0
07	78.6	45.7	62.1	4.5	2.2	3.2	233.0	179.5	107.7	27.6	2.7	0.6	11.5	20.0	41.2	116.0	0.0	1.7	31.0	0.0	0.0	0.0
08	78.8	44.3	61.6	3.5	1.8	2.4	220.7	168.4	99.5	25.0	2.5	0.8	17.8	27.5	51.5	132.0	0.0	1.2	30.9	0.0	0.6	0.0
09	68.3	37.6	53.0	3.6	1.6	2.2	68.3	44.9	20.3	3.4	0.1	0.0	129.9	166.4	231.8	364.9	0.0	0.2	28.7	0.0	5.5	0.0
10	53.6	29.4	41.5	4.4	3.0	3.5	6.0	2.7	0.5	0.0	0.0	0.0	424.4	483.1	574.0	728.5	0.0	0.0	20.9	1.1	18.8	0.2
11	40.7	20.2	30.5	4.5	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	736.5	796.5	886.5	1036.5	0.0	0.0	7.0	6.2	26.2	1.9
12	32.5	13.4	22.9	4.1	4.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	993.3	1055.3	1148.4	1303.5	0.0	0.0	0.8	13.3	30.1	3.7
Summary	53.2	28.2	40.8	4.0	3.1	3.4	614	448	249	59	5	1	5783	6347	7243	8878	0.0	3.2	201.6	46.4	204.5	15.0

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	0.81	5.3	3.4	0.1	0.0	0.47	0.73	1.11	
02	0.71	4.9	2.7	0.0	0.0	0.38	0.62	0.88	
03	1.12	6.7	4.1	0.4	0.1	0.79	1.05	1.44	
04	2.15	9.1	6.7	1.1	0.1	1.50	1.98	2.72	
05	3.01	10.7	7.9	1.6	0.4	2.35	2.89	3.82	
06	3.46	10.8	8.8	2.1	0.5	2.74	3.47	4.29	
07	1.61	7.3	5.2	0.9	0.2	0.68	1.24	2.15	
08	1.56	6.4	4.3	0.9	0.1	0.77	1.31	1.95	
09	1.56	6.3	5.1	1.1	0.2	1.02	1.31	2.07	
10	1.51	6.2	4.5	0.7	0.1	0.89	1.35	2.00	
11	0.99	5.8	3.9	0.3	0.0	0.68	0.93	1.19	
12	0.82	5.5	3.7	0.2	0.0	0.47	0.72	1.09	
Summary	19.31	85.0	60.3	9.4	1.7	12.74	17.60	24.71	

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

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	14.10	5.2	4.7	2.5	0.9	0.0					7.50	13.00	19.50
02	10.60	4.3	3.7	1.7	0.7	0.0					7.00	12.00	14.00
03	14.70	4.8	4.3	2.0	0.9	0.3					9.00	11.50	14.30
04	13.50	3.8	3.5	1.7	0.8	0.3					7.00	14.00	17.00
05	1.60	0.7	0.7	0.5	0.3	0.0					0.00	0.00	3.00
06	0.00	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					0.00	0.00	0.00
08	0.10	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
09	0.60	0.2	0.1	0.1	0.0	0.0					0.00	0.00	0.00
10	3.40	1.5	1.2	0.5	0.2	0.0					0.00	3.00	5.00
11	9.10	2.8	2.6	1.3	0.8	0.1					3.90	9.30	14.70
12	14.00	4.6	4.1	2.0	1.0	0.1					8.40	11.50	18.50
Summary	81.7	27.9	24.9	12.3	5.6	0.8	0.0	0.0	0.0	0.0	42.8	74.3	106.0

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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	1.6	2.3	19.1	62.8	229.0	433.1	686.2	667.8	396.2	139.7	27.5	1.0
45	0.2	0.2	4.0	21.8	122.3	289.6	531.5	514.0	262.3	64.9	7.2	0.1
50	0.0	0.0	0.4	5.4	51.8	163.8	378.1	363.5	149.5	23.7	1.3	0.0
55	0.0	0.0	0.0	0.6	14.5	70.8	233.0	220.7	68.3	6.0	0.0	0.0
60	0.0	0.0	0.0	0.0	1.1	19.9	107.7	99.5	20.3	0.5	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	1.3	2.2	18.3	58.5	161.2	273.5	444.5	445.1	280.9	106.6	21.2	0.5

Growing Degree Units (Accumulated Monthly)												
40	2	4	23	86	315	748	1434	2102	2498	2638	2665	2666
45	0	0	4	26	148	438	970	1484	1746	1811	1818	1818
50	0	0	0	6	58	221	600	963	1112	1136	1138	1138
55	0	0	0	1	15	86	319	540	608	614	614	614
60	0	0	0	0	1	21	129	228	248	249	249	249
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	1	4	22	80	242	515	960	1405	1686	1792	1813	1814

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