

Summary of Monthly Normals
1991-2020

Generated on 05/16/2024

Current Location: Elev: 3305 ft. Lat: 45.3128° N Lon: 107.9383° W
Station: **YELLOWTAIL DAM, MT US USC00249240**

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	38.5	19.6	29.0	5.5	5.4	5.4	0.6	0.2	0.0	0.0	0.0	0.0	805.1	866.7	959.5	1114.5	0.0	0.0	9.3	7.7	24.3	3.9
02	40.0	21.0	30.5	7.4	7.3	7.2	1.9	1.1	0.5	0.0	0.0	0.0	687.5	742.7	826.1	965.8	0.0	0.0	10.0	6.2	21.4	2.9
03	50.3	27.9	39.1	5.7	5.0	5.3	8.7	5.3	2.6	0.4	0.0	0.0	501.8	560.4	650.6	803.4	0.0	0.0	18.9	2.7	18.8	0.9
04	57.9	35.6	46.8	3.3	2.5	2.7	28.3	19.2	10.1	2.3	0.2	0.1	275.7	326.6	407.6	549.8	0.0	0.0	23.7	0.6	9.1	0.0
05	67.9	44.0	55.9	4.1	2.2	3.0	125.2	94.0	56.9	18.4	3.8	1.6	95.8	126.7	182.5	299.0	0.0	0.6	29.3	0.0	1.6	0.0
06	78.4	52.7	65.6	3.6	2.2	2.7	325.4	271.8	196.3	94.5	34.3	20.5	8.9	15.3	29.8	78.1	0.3	5.1	30.0	0.0	0.0	0.0
07	88.8	59.2	74.0	4.9	3.1	3.9	588.7	527.0	435.1	287.7	158.1	115.4	0.1	0.3	1.4	8.9	3.6	18.1	31.0	0.0	0.0	0.0
08	87.4	57.3	72.3	3.6	2.6	2.8	539.9	479.3	390.0	249.9	129.6	91.7	2.3	3.7	7.4	22.1	1.9	16.8	31.0	0.0	0.0	0.0
09	76.1	48.6	62.3	3.3	1.9	2.2	256.3	210.7	149.1	71.4	25.4	15.0	36.0	50.4	78.8	151.0	0.2	4.5	29.3	0.0	0.9	0.0
10	60.5	38.0	49.3	4.7	3.2	3.8	58.4	42.6	25.6	9.1	2.2	1.2	236.6	282.8	358.7	497.3	0.0	0.2	26.0	0.8	6.9	0.1
11	47.5	28.2	37.8	5.7	4.0	4.6	5.3	2.9	1.2	0.2	0.0	0.0	519.7	577.3	665.6	814.7	0.0	0.0	15.7	3.6	18.7	0.5
12	39.4	21.3	30.3	5.3	5.3	5.1	0.3	0.1	0.0	0.0	0.0	0.0	764.1	825.9	918.9	1073.9	0.0	0.0	8.9	7.2	24.1	2.6
Summary	61.1	37.8	49.4	4.8	3.7	4.1	1939	1654	1267	734	354	246	3934	4379	5087	6378	6.0	45.3	263.1	28.8	125.8	10.9

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	0.72	4.9	2.6	0.2	0.0	0.50	0.75	0.87	
02	0.83	4.5	2.6	0.5	0.0	0.33	0.67	1.13	
03	1.21	6.0	3.7	0.5	0.1	0.69	1.01	1.70	
04	1.95	7.6	4.9	1.3	0.2	1.21	1.95	2.61	
05	2.62	8.0	5.2	1.7	0.6	1.33	2.26	3.60	
06	2.27	7.4	4.6	1.3	0.5	1.17	2.22	2.61	
07	1.15	5.0	2.8	0.7	0.2	0.31	0.70	1.30	
08	0.78	3.7	1.9	0.4	0.1	0.26	0.49	1.20	
09	1.67	4.7	3.1	1.2	0.4	0.64	1.27	2.31	
10	1.98	6.0	4.0	1.2	0.5	0.86	2.02	2.47	
11	0.77	4.1	2.6	0.4	0.1	0.40	0.68	1.08	
12	0.72	4.5	2.2	0.1	0.0	0.43	0.60	0.92	
Summary	16.67	66.4	40.2	9.5	2.7	8.13	14.62	21.80	

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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	8.80	2.3	1.7	0.8	0.3	0.0					2.80	9.20	14.80
02	7.40	2.2	1.7	0.8	0.3	0.0					2.40	8.60	10.30
03	8.40	1.4	1.2	0.7	0.3	0.0					3.00	4.80	13.60
04	3.00	0.8	0.5	0.3	0.2	0.0					0.00	0.00	4.30
05	0.20	0.1	0.0	0.0	0.0	0.0					0.00	0.00	0.00
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	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
09	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
10	3.00	0.7	0.6	0.3	0.3	0.0					0.00	0.00	3.00
11	5.80	1.2	1.0	0.6	0.4	0.0					1.60	4.00	9.90
12	7.30	2.4	1.9	0.8	0.3	0.0					4.40	6.60	9.00
Summary	43.9	11.1	8.6	4.3	2.1	0.0	0.0	0.0	0.0	0.0	14.2	33.2	64.9

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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	36.5	41.4	130.7	243.4	498.4	766.5	1053.4	1002.5	671.4	326.7	107.4	39.7
45	12.5	17.1	63.1	140.3	353.9	617.0	898.4	847.5	525.3	208.2	51.8	13.5
50	3.4	6.3	25.1	69.0	226.6	468.7	743.6	693.2	385.3	118.4	19.5	3.4
55	0.6	1.9	8.7	28.3	125.2	325.4	588.7	539.9	256.3	58.4	5.3	0.3
60	0.0	0.5	2.6	10.1	56.9	196.3	435.1	390.0	149.1	25.6	1.2	0.0
Growing Degree Units for Corn (Monthly)												
50/86	17.1	25.5	88.6	151.0	293.0	471.9	668.5	632.8	415.7	197.1	64.8	20.5

Growing Degree Units (Accumulated Monthly)												
40	36	78	209	452	950	1717	2770	3773	4444	4771	4878	4918
45	12	30	93	233	587	1204	2102	2950	3475	3683	3735	3749
50	3	10	35	104	330	799	1543	2236	2621	2740	2759	2762
55	1	2	11	40	165	490	1079	1619	1875	1933	1939	1939
60	0	0	3	13	70	266	702	1092	1241	1266	1267	1267
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	17	43	131	282	575	1047	1716	2348	2764	2961	3026	3046

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