

Summary of Monthly Normals
1991-2020

Generated on 06/03/2024

Current Location: Elev: 905 ft. Lat: 36.0028° N Lon: 84.2486° W

Station: OAK RIDGE ATDD, TN US USW00003841

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	46.6	29.2	37.9	3.9	4.3	4.0	5.1	2.6	0.6	0.0	0.0	0.0	535.0	594.5	685.5	840.0	0.0	0.0	13.9	2.6	19.9	0.1
02	51.4	32.1	41.7	4.2	3.9	3.9	8.5	5.1	1.9	0.2	0.0	0.0	379.4	432.0	512.9	651.1	0.0	0.0	17.6	0.8	15.7	0.1
03	60.7	38.7	49.7	4.4	3.6	3.8	50.7	34.7	17.7	3.7	0.1	0.0	215.0	261.0	337.0	478.0	0.0	0.0	26.7	0.1	8.9	0.0
04	70.4	46.8	58.6	3.0	3.0	2.8	166.2	128.5	81.0	27.2	4.5	1.6	58.2	80.5	123.0	219.2	0.0	0.1	29.6	0.0	1.7	0.0
05	77.7	56.1	66.9	2.8	3.2	2.9	375.0	317.8	236.9	121.2	39.7	19.5	6.1	10.9	23.1	62.3	0.0	1.1	31.0	0.0	0.0	0.0
06	84.0	64.1	74.1	2.1	1.6	1.5	571.4	511.5	421.7	275.3	139.7	93.5	0.0	0.1	0.3	3.8	0.1	7.3	30.0	0.0	0.0	0.0
07	87.0	68.1	77.5	2.6	1.8	2.0	699.0	637.0	544.0	389.0	235.6	176.6	0.0	0.0	0.0	0.0	0.2	13.7	31.0	0.0	0.0	0.0
08	86.6	67.0	76.8	2.7	2.0	2.2	675.7	613.7	520.7	365.9	214.0	156.8	0.0	0.0	0.0	0.2	0.3	12.4	31.0	0.0	0.0	0.0
09	81.0	60.6	70.8	3.4	2.4	2.5	474.8	415.8	328.9	194.6	85.0	52.9	0.9	1.9	5.0	20.7	0.0	4.6	30.0	0.0	0.0	0.0
10	71.0	48.4	59.7	2.7	2.9	2.3	191.7	149.2	95.3	34.7	8.0	4.0	46.0	65.5	104.7	199.0	0.0	0.2	30.8	0.0	1.0	0.0
11	58.9	37.3	48.1	4.5	3.2	3.6	32.2	21.0	10.4	1.8	0.0	0.0	239.1	287.9	367.3	508.7	0.0	0.0	25.8	0.0	10.5	0.0
12	49.3	32.4	40.9	4.5	3.7	3.9	8.4	5.0	2.1	0.2	0.0	0.0	446.9	505.6	595.7	748.8	0.0	0.0	17.1	0.8	17.1	0.0
Summary	68.7	48.4	58.6	3.4	3.0	2.9	3259	2842	2261	1414	727	505	1927	2240	2754	3732	0.6	39.4	314.5	4.3	74.8	0.2

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	5.50	11.9	8.0	3.8	1.8	4.00	5.40	6.36
02	5.93	11.7	8.2	3.9	1.5	3.72	4.62	7.85
03	5.55	12.3	9.0	4.3	1.4	4.09	5.54	6.49
04	5.58	11.0	8.1	4.0	1.4	3.72	4.41	6.86
05	4.50	12.0	7.8	3.0	1.3	3.03	4.35	5.31
06	4.76	12.3	8.3	2.9	1.3	2.93	4.77	6.81
07	5.90	12.5	8.9	4.0	1.4	4.24	5.88	7.41
08	3.72	10.0	6.8	2.6	0.9	3.11	3.63	4.62
09	4.13	8.2	4.9	2.6	1.3	2.37	3.74	5.17
10	3.29	8.4	5.5	2.3	1.0	1.76	2.74	4.81
11	5.00	9.2	6.8	3.3	1.8	3.03	4.56	6.03
12	5.84	12.2	8.5	4.0	2.1	3.85	5.63	7.71
Summary	59.70	131.7	90.8	40.7	17.2	39.85	55.27	75.43

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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	1.80	1.2	0.8	0.2	0.0	0.0	1.7	0.5	0.0	0.0	0.00	1.00	2.90
02	1.40	1.1	0.8	0.1	0.1	0.0	1.3	0.7	0.6	0.5	0.00	0.00	2.10
03	0.60	0.4	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.00	0.00	0.00
04	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
05	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
06	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
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	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
09	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
10	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
11	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
12	0.60	0.6	0.3	0.1	0.0	0.0	0.4	0.1	0.0	0.0	0.00	0.00	0.40
Summary	4.4	3.3	2.1	0.5	0.2	0.0	3.5	1.3	0.6	0.5	0.0	1.0	5.4

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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	90.7	127.8	322.5	559.2	833.9	1021.4	1164.0	1140.7	923.9	611.4	266.5	122.5
45	40.9	61.8	203.5	414.0	678.9	871.4	1009.0	985.7	773.9	459.9	157.5	58.6
50	15.9	25.3	111.3	279.7	524.5	721.4	854.0	830.7	624.0	316.6	78.6	23.3
55	5.1	8.5	50.7	166.2	375.0	571.4	699.0	675.7	474.8	191.7	32.2	8.4
60	0.6	1.9	17.7	81.0	236.9	421.7	544.0	520.7	328.9	95.3	10.4	2.1
Growing Degree Units for Corn (Monthly)												
50/86	44.6	74.2	192.1	342.1	538.7	703.1	815.2	794.5	616.8	373.4	157.9	59.1
Growing Degree Units (Accumulated Monthly)												
40	91	218	541	1100	1934	2956	4120	5260	6184	6795	7062	7184
45	41	103	306	720	1399	2270	3280	4265	5039	5499	5656	5715
50	16	41	152	432	957	1678	2532	3363	3987	4303	4382	4405
55	5	14	64	230	606	1177	1876	2552	3026	3218	3250	3259
60	1	2	20	101	338	760	1304	1824	2153	2249	2259	2261
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	45	119	311	653	1192	1895	2710	3504	4121	4495	4653	4712

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