

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **PATTONSBURG 2 S, MO US**

GHCND:USC00236563
Elev: 825 ft. Lat: 40.015° N Lon: 94.129° W

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	.25	.50	.75
1	1.02	5.4	3.1	0.5	0.0	0.52	0.98	1.47
2	1.45	6.2	3.7	0.8	0.2	0.55	1.11	2.20
3	2.44	7.8	5.1	1.5	0.5	1.22	1.90	3.85
4	3.37	9.8	6.4	2.6	0.7	1.78	3.53	4.34
5	5.13	11.8	7.7	2.9	1.5	2.73	4.35	5.90
6	4.90	10.0	7.1	3.2	1.5	3.33	4.17	6.58
7	4.38	9.5	6.6	2.7	1.4	2.17	3.90	5.63
8	3.97	8.7	5.4	3.0	1.3	2.17	3.14	5.26
9	3.85	8.0	5.6	2.6	1.4	2.41	3.10	4.48
10	3.08	8.5	5.4	1.9	0.8	1.79	2.89	4.30
11	2.08	6.9	4.2	1.4	0.4	1.45	2.00	3.04
12	1.78	6.5	3.9	1.1	0.4	0.93	1.66	2.35
Summary	37.45	99.1	64.2	24.2	10.1	21.05	32.73	49.40

@ Denotes mean number of days greater than 0 but less than 0.05.

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Station: **PATTONSBURG 2 S, MO US**

GHCND:USC00236563
Elev: 825 ft. Lat: 40.015° N Lon: 94.129° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.4	2.4	1.6	0.6	0.2	0.0	10.8	5.6	2.8	0.1	0.0	3.5	6.1
2	5.1	2.6	1.8	0.7	0.2	0.0	8.8	5.4	2.1	0.3	1.2	4.0	7.5
3	2.5	1.2	0.8	0.4	0.1	0.0	2.1	1.1	0.4	0.0	0.0	1.5	4.5
4	0.3	0.2	0.1	-7777	-7777	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.9	0.7	0.5	0.1	0.0	0.0	0.8	0.1	0.0	0.0	0.0	0.1	1.0
12	5.1	2.8	1.9	0.7	0.3	0.0	8.0	5.3	3.3	0.4	0.5	3.0	9.0
Summary	18.4	9.9	6.7	2.5	0.8	0.0	30.6	17.6	8.6	0.8	1.7	12.1	28.1

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Station: **VAN BUREN RANGER STATION, MO US**

GHCND:USC00238571
Elev: 1000 ft. Lat: 36.975° N Lon: 91.019° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.9	19.9	32.9	4.5	5.8	4.6	2	1	1	0	0	0	686	748	840	995	0.0	0.0	11.0	2.4	26.0	1.6
2	52.5	21.5	37.0	5.0	5.2	4.7	4	3	1	-7777	0	0	508	562	645	784	0.0	0.0	16.7	1.5	22.0	1.4
3	62.1	31.8	46.9	3.2	2.8	2.6	44	31	16	3	1	-7777	294	343	420	563	0.0	0.0	25.4	0.0	15.9	0.0
4	72.7	40.7	56.7	4.1	4.5	3.7	145	112	73	30	7	4	94	121	172	279	0.0	1.3	29.5	0.0	7.0	0.0
5	78.9	51.9	65.4	2.7	5.7	3.7	330	274	198	94	31	17	8	14	31	82	0.0	0.6	31.0	0.0	0.7	0.0
6	86.9	58.1	72.5	2.4	4.3	2.6	525	466	378	237	117	79	-7777	1	3	12	0.3	8.4	30.0	0.0	0.1	0.0
7	90.4	62.9	76.6	2.0	3.9	2.3	671	609	516	362	214	160	0	0	-7777	1	0.4	17.5	31.0	0.0	0.0	0.0
8	90.0	62.7	76.4	3.1	6.2	4.3	662	600	508	355	213	164	-7777	-7777	1	3	1.5	15.5	31.0	0.0	0.2	0.0
9	83.0	55.0	69.0	2.3	5.1	2.9	425	368	288	170	82	57	5	9	18	50	0.4	5.3	30.0	0.0	0.2	0.0
10	72.4	42.7	57.5	4.1	5.1	3.8	154	118	75	28	6	2	75	101	151	259	0.0	0.3	30.7	0.0	6.7	0.0
11	60.8	32.2	46.5	4.3	5.0	3.7	27	17	8	1	-7777	-7777	282	332	412	556	0.0	0.0	25.0	0.0	14.8	0.0
12	48.3	25.3	36.8	4.5	6.8	4.7	5	3	1	0	0	0	569	629	720	874	0.0	0.0	13.8	1.9	21.5	1.1
Summary	70.3	42.1	56.2	3.5	5.0	3.6	2994	2602	2063	1280	671	483	2521	2860	3413	4458	2.6	48.9	305.1	5.8	115.1	4.1

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Station: **VAN BUREN RANGER STATION, MO US**

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Elev: 1000 ft. Lat: 36.975° N Lon: 91.019° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	39	88	263	505	787	975	1136	1126	870	547	242	78
45	14	41	165	368	632	825	981	971	720	400	148	34
50	5	15	91	245	479	675	826	817	571	264	74	14
55	2	4	44	145	330	525	671	662	425	154	27	5
60	1	1	16	73	198	378	516	508	288	75	8	1
Growing Degree Units for Corn (Monthly)												
50/86	43	92	206	355	519	648	750	743	573	375	181	57

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	39	127	390	895	1682	2657	3793	4919	5789	6336	6578	6656
45	14	55	220	588	1220	2045	3026	3997	4717	5117	5265	5299
50	5	20	111	356	835	1510	2336	3153	3724	3988	4062	4076
55	2	6	50	195	525	1050	1721	2383	2808	2962	2989	2994
60	1	2	18	91	289	667	1183	1691	1979	2054	2062	2063
Growing Degree Units for Corn (Monthly)												
50/86	43	135	341	696	1215	1863	2613	3356	3929	4304	4485	4542

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

M indicates the value is missing

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Station: **GALLATIN 1 W, MO US**

GHCND:USC00233102
Elev: 925 ft. Lat: 39.913° N Lon: 93.980° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.9	17.3	26.1	5.1	5.1	5.0	-7777	0	0	0	0	0	896	958	1051	1206	0.0	0.0	4.1	12.2	28.1	3.0
2	40.4	21.0	30.7	6.3	5.5	5.7	2	1	1	-7777	-7777	0	682	737	821	960	0.0	0.0	7.1	7.6	23.7	1.5
3	52.2	31.3	41.7	4.4	3.5	3.7	22	14	8	2	-7777	-7777	432	487	573	723	0.0	0.0	17.5	2.1	16.8	0.1
4	63.3	42.1	52.7	4.6	3.2	3.8	93	71	45	17	4	2	162	200	264	386	0.0	0.1	26.1	0.0	4.4	0.0
5	72.9	52.7	62.8	3.0	3.2	2.9	266	217	152	69	23	13	24	37	65	137	0.0	0.3	30.9	0.0	-7777	0.0
6	82.1	62.2	72.1	3.0	2.4	2.4	515	455	367	226	109	72	-7777	1	2	12	0.0	1.7	30.0	0.0	0.0	0.0
7	86.2	66.9	76.6	2.8	1.8	2.0	668	606	513	359	211	158	-7777	-7777	-7777	1	0.4	8.9	31.0	0.0	0.0	0.0
8	85.1	64.9	75.0	4.6	2.9	3.5	620	558	465	313	177	131	-7777	-7777	-7777	3	0.5	7.5	31.0	0.0	0.0	0.0
9	77.0	55.3	66.1	3.6	2.6	2.7	345	292	218	118	48	31	10	18	34	83	0.0	2.0	30.0	0.0	0.0	0.0
10	65.1	43.4	54.2	3.4	3.0	2.8	105	78	46	16	4	2	128	163	224	349	0.0	0.2	27.9	0.1	2.9	0.0
11	51.2	32.3	41.8	5.5	3.6	4.3	18	11	5	1	0	0	415	469	553	698	0.0	0.0	16.1	2.1	15.0	-7777
12	37.6	20.1	28.9	5.7	6.0	5.7	1	-7777	-7777	0	0	0	811	872	965	1120	0.0	0.0	5.0	10.1	27.6	1.8
Summary	62.3	42.5	52.4	4.3	3.6	3.7	2655	2303	1820	1121	576	409	3560	3942	4552	5678	0.9	20.7	256.7	34.2	118.5	6.4

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Station: **GALLATIN 1 W, MO US**

GHCND:USC00233102
Elev: 925 ft. Lat: 39.913° N Lon: 93.980° W

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	.25	.50	.75
1	1.22	4.1	2.7	0.9	0.3	0.40	1.17	1.63
2	1.98	3.9	3.0	1.0	0.5	1.17	1.70	2.57
3	2.47	6.1	4.5	1.8	0.7	1.31	2.35	3.26
4	3.71	8.5	6.3	2.9	1.1	1.86	3.66	5.48
5	5.30	9.6	7.5	3.4	1.6	3.43	4.56	7.80
6	5.41	8.9	7.1	4.1	1.7	3.92	4.82	6.68
7	4.53	8.5	7.3	3.6	1.5	2.63	3.43	5.20
8	4.04	7.0	5.5	2.9	1.2	1.92	2.86	5.59
9	4.21	6.9	5.4	3.2	1.7	1.98	3.10	5.57
10	3.14	7.5	5.8	2.5	0.7	2.14	2.87	4.18
11	2.55	5.0	3.2	1.3	0.5	1.50	2.33	3.35
12	1.84	4.6	2.9	1.1	0.4	0.84	1.68	2.41
Summary	40.40	80.6	61.2	28.7	11.9	23.10	34.53	53.72

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Station: **GALLATIN 1 W, MO US**

GHCND:USC00233102
Elev: 925 ft. Lat: 39.913° N Lon: 93.980° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.7	2.5	1.4	0.5	0.2	0.0	5.3	2.9	2.0	1.1	0.3	3.6	8.1
2	6.6	1.9	1.7	0.7	0.2	0.0	4.8	4.0	3.1	0.5	0.0	3.8	8.0
3	1.6	0.6	0.5	0.1	-7777	0.0	0.9	0.5	0.3	-7777	0.0	1.0	3.0
4	-7777	-7777	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.8	0.6	0.4	0.1	0.0	0.0	0.3	-7777	0.0	0.0	0.0	0.0	1.0
12	6.0	2.5	1.8	0.6	0.3	0.1	5.3	2.7	1.7	0.5	0.0	1.3	11.3
Summary	19.7	8.1	5.8	2.0	0.7	0.1	16.7	10.1	7.1	2.1	0.3	9.7	31.4

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	39	164	395	707	964	1133	1085	784	448	156	21
45	4	16	92	270	552	814	978	930	635	310	86	8
50	1	6	48	167	402	664	823	775	486	194	41	2
55	-7777	2	22	93	266	515	668	620	345	105	18	1
60	0	1	8	45	152	367	513	465	218	46	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	11	29	105	231	427	653	781	737	494	261	90	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	52	216	611	1318	2282	3415	4500	5284	5732	5888	5909
45	4	20	112	382	934	1748	2726	3656	4291	4601	4687	4695
50	1	7	55	222	624	1288	2111	2886	3372	3566	3607	3609
55	0	2	24	117	383	898	1566	2186	2531	2636	2654	2655
60	0	1	9	54	206	573	1086	1551	1769	1815	1820	1820
Growing Degree Units for Corn (Monthly)												
50/86	11	40	145	376	803	1456	2237	2974	3468	3729	3819	3834

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

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Station: **CONCEPTION, MO US**

GHCND:USC00231822
 Elev: 1108 ft. Lat: 40.239° N Lon: 94.683° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	33.5	16.0	24.8	6.2	5.2	5.5	0	0	0	0	0	0	938	1000	1093	1248	0.0	0.0	3.6	13.3	29.0	4.2
2	38.8	20.0	29.4	6.4	5.6	5.8	1	-7777	-7777	-7777	-7777	0	717	773	857	997	0.0	0.0	6.4	8.9	23.6	2.1
3	50.7	30.6	40.6	4.6	3.5	3.7	18	12	6	1	-7777	-7777	463	519	606	756	0.0	0.0	16.1	2.6	16.8	0.2
4	62.4	41.3	51.8	4.4	3.4	3.6	79	59	36	12	3	1	174	213	280	407	0.0	0.0	25.3	0.0	4.5	0.0
5	72.3	52.5	62.4	3.8	3.1	3.2	255	207	144	65	21	11	26	40	70	146	0.0	0.4	30.9	0.0	0.0	0.0
6	81.6	62.2	71.9	2.9	2.7	2.6	508	448	361	223	108	73	1	1	4	16	0.1	2.0	30.0	0.0	0.0	0.0
7	85.9	66.6	76.3	2.7	2.4	2.3	659	597	504	350	204	152	0	0	-7777	1	0.2	8.2	31.0	0.0	0.0	0.0
8	85.2	64.0	74.6	4.0	3.5	3.5	607	546	453	303	169	125	-7777	-7777	1	5	0.5	7.8	31.0	0.0	0.0	0.0
9	77.2	55.1	66.2	3.2	3.0	2.9	349	296	222	119	48	30	15	22	38	85	0.0	1.6	29.8	0.0	0.1	0.0
10	65.1	43.3	54.2	3.2	2.5	2.6	108	80	49	16	4	2	133	167	229	351	0.0	-7777	28.2	-7777	2.8	0.0
11	50.0	31.5	40.8	5.5	4.3	4.7	14	9	4	1	-7777	0	442	497	581	728	0.0	0.0	15.1	2.3	15.6	0.0
12	36.2	19.6	27.9	6.2	5.9	6.0	-7777	-7777	-7777	0	0	0	840	902	995	1150	0.0	0.0	4.3	11.0	27.6	2.0
Summary	61.6	41.9	51.7	4.4	3.8	3.9	2598	2254	1779	1090	557	394	3749	4134	4754	5890	0.8	20.0	251.7	38.1	120.0	8.5

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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.gov

GHCND:USC00231822

Elev: 1108 ft. Lat: 40.239° N Lon: 94.683° W

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **CONCEPTION, MO US**

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	.25	.50	.75
1	0.77	3.6	2.5	0.3	0.1	0.37	0.70	1.05
2	1.31	4.3	3.5	0.7	0.1	0.58	0.99	1.75
3	2.67	6.1	5.3	2.0	0.6	1.62	2.60	3.92
4	3.49	7.9	6.5	2.7	0.9	1.63	3.55	5.04
5	5.15	8.6	7.6	3.4	1.5	3.53	4.38	5.74
6	4.83	8.1	7.3	3.4	1.8	2.98	4.86	6.20
7	5.40	7.3	6.3	3.2	1.7	2.25	4.81	5.69
8	4.02	6.5	5.7	2.6	1.1	1.61	3.70	5.81
9	3.53	6.2	5.5	2.4	1.1	1.74	2.76	5.19
10	2.73	6.2	5.2	1.9	0.7	1.46	2.69	3.70
11	2.01	5.1	4.2	1.6	0.4	1.25	1.79	2.77
12	1.45	4.5	3.3	0.9	0.3	0.58	1.38	2.05
Summary	37.36	74.4	62.9	25.1	10.3	19.60	34.21	48.91

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Monthly Normals
1981-2010**

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Station: **CONCEPTION, MO US**

GHCND:USC00231822
Elev: 1108 ft. Lat: 40.239° N Lon: 94.683° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.0	2.3	2.1	0.6	0.2	0.0	10.2	5.2	1.7	0.3	1.4	4.0	8.0
2	5.2	2.4	2.1	0.8	0.3	0.0	9.0	5.3	1.8	-7777	0.0	4.2	8.0
3	2.9	1.4	1.2	0.4	0.2	-7777	2.4	1.1	0.5	0.1	0.0	1.7	4.0
4	0.7	0.3	0.2	-7777	-7777	-7777	0.3	0.1	0.1	0.1	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	0.1	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	1.1	0.7	0.5	0.2	0.0	0.0	1.3	0.3	0.0	0.0	0.0	0.5	2.0
12	4.8	2.5	2.2	0.8	0.2	0.0	8.7	4.4	2.5	0.4	0.0	3.5	6.0
Summary	19.8	9.7	8.3	2.8	0.9	0.0	31.9	16.4	6.6	0.9	1.4	13.9	28.0

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Summary of Monthly Normals 1981-2010

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Station: **CONCEPTION, MO US**

GHCND:USC00231822
Elev: 1108 ft. Lat: 40.239° N Lon: 94.683° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	31	147	373	694	957	1124	1073	785	449	143	19
45	2	12	82	250	540	807	969	917	635	314	79	6
50	-7777	3	41	150	391	657	814	762	489	197	37	1
55	0	1	18	79	255	508	659	607	349	108	14	-7777
60	0	-7777	6	36	144	361	504	453	222	49	4	-7777
Growing Degree Units for Corn (Monthly)												
50/86	9	23	92	214	415	645	775	725	500	262	82	12

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	41	188	561	1255	2212	3336	4409	5194	5643	5786	5805
45	2	14	96	346	886	1693	2662	3579	4214	4528	4607	4613
50	0	3	44	194	585	1242	2056	2818	3307	3504	3541	3542
55	0	1	19	98	353	861	1520	2127	2476	2584	2598	2598
60	0	0	6	42	186	547	1051	1504	1726	1775	1779	1779
Growing Degree Units for Corn (Monthly)												
50/86	9	32	124	338	753	1398	2173	2898	3398	3660	3742	3754

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

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Station: JACKSON, MO US

GHCND:USC00234226
 Elev: 440 ft. Lat: 37.378° N Lon: 89.668° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.1	23.0	32.1	5.1	4.4	4.6	2	1	-7777	0	0	0	713	774	867	1021	0.0	0.0	7.3	6.8	24.9	1.0
2	46.5	26.3	36.4	4.4	3.8	4.0	3	2	1	-7777	0	0	524	578	661	801	0.0	0.0	11.6	3.2	19.9	0.4
3	57.5	35.3	46.4	4.0	2.9	3.3	33	23	12	2	-7777	-7777	300	351	433	579	0.0	0.0	22.8	0.5	12.6	0.0
4	68.9	46.0	57.4	3.8	3.4	3.3	152	118	76	29	5	2	78	104	153	255	0.0	-7777	28.9	0.0	2.4	0.0
5	78.0	56.0	67.0	3.1	3.2	2.9	376	319	239	129	51	30	4	9	22	67	0.0	1.0	31.0	0.0	0.0	0.0
6	86.7	64.8	75.7	3.0	2.4	2.3	622	562	473	326	190	142	-7777	-7777	-7777	3	0.1	9.8	30.0	0.0	0.0	0.0
7	90.3	68.8	79.5	2.1	2.0	1.9	761	699	606	451	297	238	0	0	0	-7777	0.4	16.9	31.0	0.0	0.0	0.0
8	89.5	67.1	78.3	3.3	2.5	2.6	722	660	567	413	263	207	0	-7777	-7777	1	1.0	14.3	31.0	0.0	0.0	0.0
9	81.5	57.9	69.7	2.8	2.3	2.3	445	388	306	182	87	58	4	7	15	41	0.0	3.4	30.0	0.0	-7777	0.0
10	70.3	46.3	58.3	2.6	3.2	2.5	168	131	85	33	8	4	66	90	138	240	0.0	0.0	30.5	0.0	2.7	0.0
11	56.3	36.1	46.2	4.2	3.0	3.3	30	20	10	2	-7777	-7777	294	344	424	566	0.0	0.0	20.9	0.1	10.8	0.0
12	43.6	26.4	35.0	4.8	5.1	4.8	2	1	-7777	-7777	0	0	622	683	775	930	0.0	0.0	9.1	4.2	21.5	0.6
Summary	67.5	46.2	56.8	3.6	3.2	3.2	3316	2924	2375	1567	901	681	2605	2940	3488	4504	1.5	45.4	284.1	14.8	94.8	2.0

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Monthly Normals
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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **JACKSON, MO US**

GHCND:USC00234226
Elev: 440 ft. Lat: 37.378° N Lon: 89.668° W

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	.25	.50	.75
1	3.47	9.8	5.9	2.3	0.7	1.71	3.40	4.40
2	3.68	8.9	5.8	2.7	1.1	2.33	3.63	4.27
3	4.74	11.0	6.8	3.2	1.2	3.08	3.70	5.91
4	4.66	10.7	7.2	3.3	1.3	2.68	4.12	5.85
5	5.27	11.8	7.9	3.7	1.4	2.99	4.70	7.33
6	4.11	9.1	6.3	2.6	1.0	2.17	3.48	6.51
7	4.05	8.6	6.3	2.8	1.2	2.62	4.16	5.19
8	3.13	7.1	5.0	2.2	0.8	1.76	2.99	4.24
9	3.35	7.5	5.1	2.2	1.0	2.03	3.16	4.34
10	4.00	8.2	6.1	2.7	1.1	2.22	3.29	5.12
11	4.80	10.0	6.7	3.7	1.4	2.71	4.67	6.13
12	4.30	10.2	6.6	2.8	1.1	2.19	3.41	5.90
Summary	49.56	112.9	75.7	34.2	13.3	28.49	44.71	65.19

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Station: **JACKSON, MO US**

GHCND:USC00234226
 Elev: 440 ft. Lat: 37.378° N Lon: 89.668° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	1.9	1.3	0.7	0.3	0.1	0.0	@	@	@	@	0.0	0.2	3.5
2	2.4	1.2	0.8	0.3	0.1	0.0	@	@	@	@	0.0	1.0	3.6
3	1.2	0.2	0.2	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	2.3	0.7	0.4	0.3	0.2	0.0	@	@	@	@	0.0	0.1	3.3
Summary	8.0	3.5	2.2	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	10.4

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Station: **JACKSON, MO US**

GHCND:USC00234226
Elev: 440 ft. Lat: 37.378° N Lon: 89.668° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	72	246	526	837	1072	1226	1187	891	569	232	62
45	18	32	147	385	682	922	1071	1032	741	419	140	26
50	7	12	77	257	527	772	916	877	592	282	71	9
55	2	3	33	152	376	622	761	722	445	168	30	2
60	-7777	1	12	76	239	473	606	567	306	85	10	-7777
Growing Degree Units for Corn (Monthly)												
50/86	24	46	150	322	542	732	839	809	589	354	131	29

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	114	360	886	1723	2795	4021	5208	6099	6668	6900	6962
45	18	50	197	582	1264	2186	3257	4289	5030	5449	5589	5615
50	7	19	96	353	880	1652	2568	3445	4037	4319	4390	4399
55	2	5	38	190	566	1188	1949	2671	3116	3284	3314	3316
60	0	1	13	89	328	801	1407	1974	2280	2365	2375	2375
Growing Degree Units for Corn (Monthly)												
50/86	24	70	220	542	1084	1816	2655	3464	4053	4407	4538	4567

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

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 151 Patton Avenue
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 www.ncdc.noaa.gov

Station: **GALENA, MO US**

GHCND:USC00233094
 Elev: 1046 ft. Lat: 36.806° N Lon: 93.466° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.3	20.6	33.0	5.3	3.7	4.2	3	1	1	-7777	0	0	686	747	839	994	0.0	0.0	11.4	4.4	26.8	1.2
2	50.0	24.0	37.0	4.9	3.9	4.2	4	2	1	-7777	0	0	508	562	645	784	0.0	0.0	14.1	2.3	22.1	0.5
3	59.2	32.8	46.0	4.1	3.2	3.3	36	25	14	3	-7777	-7777	315	366	448	592	0.0	0.0	23.5	0.6	15.8	0.0
4	69.5	42.2	55.9	3.6	3.2	3.1	130	100	62	21	4	2	105	134	187	296	0.0	0.1	28.6	0.0	5.0	0.0
5	76.1	52.4	64.3	2.7	3.1	2.7	300	246	174	79	21	10	13	22	42	102	0.0	0.1	31.0	0.0	0.1	0.0
6	83.9	61.0	72.5	3.1	2.4	2.4	524	464	376	236	114	74	-7777	1	2	12	0.0	3.8	30.0	0.0	0.0	0.0
7	89.3	65.2	77.2	3.0	2.0	2.1	690	628	535	380	232	177	0	0	-7777	1	0.7	15.2	31.0	0.0	0.0	0.0
8	89.1	64.3	76.7	3.9	3.0	3.2	673	611	518	366	223	171	0	-7777	-7777	3	1.0	14.5	31.0	0.0	0.0	0.0
9	81.3	55.3	68.3	3.8	2.9	2.9	407	352	273	157	70	45	8	13	24	58	0.3	4.3	30.0	0.0	0.2	0.0
10	70.6	43.8	57.2	3.3	2.8	2.5	148	113	68	22	5	2	80	106	155	264	0.0	0.1	30.5	0.0	3.9	0.0
11	58.7	32.8	45.8	4.7	3.3	3.5	31	21	10	2	-7777	-7777	309	358	438	579	0.0	0.0	21.8	0.2	15.1	0.0
12	46.3	23.9	35.1	5.5	5.1	5.0	4	3	1	-7777	0	0	621	681	773	927	0.0	0.0	12.2	3.8	24.8	0.7
Summary	68.3	43.2	55.8	4.0	3.2	3.3	2950	2566	2033	1266	669	481	2645	2990	3553	4612	2.0	38.1	295.1	11.3	113.8	2.4

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GHCND:USC00233094
Elev: 1046 ft. Lat: 36.806° N Lon: 93.466° W

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	.25	.50	.75
1	2.55	6.5	4.0	1.6	0.7	0.96	2.43	3.30
2	2.79	6.9	4.6	1.7	0.8	1.86	2.36	4.32
3	4.15	9.1	6.9	3.1	1.0	2.75	3.57	6.04
4	4.33	9.0	6.5	2.8	1.4	2.67	3.92	5.82
5	5.07	11.0	8.0	3.5	1.1	3.69	4.51	6.36
6	4.90	10.0	7.5	3.4	1.4	3.15	4.76	6.18
7	4.01	7.8	5.6	2.5	1.1	2.47	3.79	4.97
8	2.98	6.8	4.5	1.9	1.0	1.59	2.55	3.74
9	4.51	7.7	5.7	3.1	1.6	1.74	4.55	6.51
10	3.48	8.3	5.4	2.1	0.9	1.85	3.09	4.38
11	4.26	7.6	5.9	3.0	1.5	1.71	4.13	5.83
12	3.24	7.2	5.0	2.1	0.8	1.66	2.68	4.15
Summary	46.27	97.9	69.6	30.8	13.3	26.10	42.34	61.60

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **GALENA, MO US**

GHCND:USC00233094
Elev: 1046 ft. Lat: 36.806° N Lon: 93.466° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.9	1.0	0.7	0.3	0.2	0.0	@	@	@	@	0.0	0.1	5.0
2	2.4	1.2	0.7	0.2	0.1	-7777	@	@	@	@	0.0	1.0	3.5
3	1.1	0.3	0.2	0.1	-7777	-7777	@	@	@	@	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	1.5	0.8	0.7	0.2	0.1	0.0	@	@	@	@	0.0	0.0	3.0
Summary	7.9	3.3	2.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	11.5

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **GALENA, MO US**

GHCND:USC00233094
Elev: 1046 ft. Lat: 36.806° N Lon: 93.466° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	81	242	481	752	973	1155	1138	849	536	228	64
45	21	37	147	345	597	823	1000	982	699	390	139	30
50	8	14	78	226	444	673	845	827	551	257	73	13
55	3	4	36	130	300	524	690	673	407	148	31	4
60	1	1	14	62	174	376	535	518	273	68	10	1
Growing Degree Units for Corn (Monthly)												
50/86	50	76	179	314	478	656	777	758	554	347	164	52

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	130	372	853	1605	2578	3733	4871	5720	6256	6484	6548
45	21	58	205	550	1147	1970	2970	3952	4651	5041	5180	5210
50	8	22	100	326	770	1443	2288	3115	3666	3923	3996	4009
55	3	7	43	173	473	997	1687	2360	2767	2915	2946	2950
60	1	2	16	78	252	628	1163	1681	1954	2022	2032	2033
Growing Degree Units for Corn (Monthly)												
50/86	50	126	305	619	1097	1753	2530	3288	3842	4189	4353	4405

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

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **OREGON, MO US**

GHCND:USC00236357
Elev: 1045 ft. Lat: 39.981° N Lon: 95.146° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	35.3	15.2	25.3	5.7	5.3	5.3	-7777	0	0	0	0	0	922	984	1077	1232	0.0	0.0	4.2	12.3	29.3	4.0
2	40.1	20.7	30.4	6.1	4.9	5.3	2	1	1	-7777	-7777	0	691	746	829	969	0.0	0.0	6.7	7.7	23.1	1.5
3	52.2	30.9	41.6	4.4	3.5	3.7	22	16	8	2	-7777	0	439	495	580	729	0.0	0.0	17.3	1.7	17.3	0.1
4	63.6	42.2	52.9	4.3	3.4	3.6	100	76	48	18	4	2	163	199	261	381	0.0	0.2	25.6	0.1	4.3	0.0
5	73.7	53.0	63.3	3.4	3.2	3.1	283	234	168	80	29	18	24	37	64	131	0.0	1.1	30.9	0.0	0.1	0.0
6	82.8	62.2	72.5	2.6	2.7	2.5	525	466	377	237	120	82	-7777	1	2	13	0.0	3.9	30.0	0.0	0.0	0.0
7	86.7	67.0	76.8	2.8	2.2	2.3	677	615	522	368	222	168	0	-7777	-7777	1	0.6	9.1	31.0	0.0	0.0	0.0
8	85.8	64.9	75.4	3.8	3.1	3.3	631	569	476	325	187	140	-7777	-7777	1	4	0.6	8.5	31.0	0.0	0.0	0.0
9	77.9	55.2	66.6	3.3	2.7	2.7	358	305	230	127	55	37	11	18	34	80	0.0	2.2	30.0	0.0	-7777	0.0
10	65.9	43.4	54.7	3.2	2.5	2.5	120	91	55	20	6	4	131	164	221	341	0.0	0.1	27.9	0.0	3.3	0.0
11	50.9	31.1	41.0	5.9	4.6	5.1	18	12	5	1	-7777	0	438	492	575	721	0.0	0.0	16.1	2.3	15.9	0.0
12	37.5	19.6	28.6	6.1	6.2	6.0	1	-7777	-7777	0	0	0	820	882	975	1130	0.0	0.0	4.8	10.7	28.2	2.0
Summary	62.7	42.1	52.4	4.3	3.7	3.8	2737	2385	1890	1178	623	451	3639	4018	4619	5732	1.2	25.1	255.5	34.8	121.5	7.6

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U.S. Department of Commerce
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National Environmental Satellite, Data, and Information
Service

**Summary of
Monthly Normals
1981-2010**

Station: OREGON, MO US

GHCND:USC00236357
Elev: 1045 ft. Lat: 39.981° N Lon: 95.146° W

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	.25	.50	.75
1	0.35	1.8	0.9	0.1	0.0	0.04	0.23	0.51
2	0.85	3.3	2.4	0.8	0.3	0.43	0.75	0.93
3	2.46	6.2	5.0	1.8	0.7	1.22	2.03	3.64
4	3.45	8.5	6.4	2.4	0.7	1.80	3.31	4.59
5	5.10	9.7	6.9	2.9	1.4	3.47	4.95	5.89
6	4.87	9.8	7.5	3.7	1.8	3.37	4.39	5.87
7	4.64	9.3	7.7	3.5	1.8	2.59	4.12	5.27
8	3.51	6.3	5.4	2.4	1.4	2.46	3.16	4.55
9	3.10	5.9	4.9	2.2	0.8	1.54	2.62	3.44
10	3.17	7.4	5.7	2.6	0.9	1.80	2.81	4.96
11	1.62	3.8	3.0	1.2	0.3	0.76	1.26	2.22
12	1.36	2.9	2.1	0.9	0.2	0.59	1.27	1.91
Summary	34.48	74.9	57.9	24.5	10.3	20.07	30.90	43.78

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Summary of Monthly Normals 1981-2010

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: OREGON, MO US

GHCND:USC00236357
Elev: 1045 ft. Lat: 39.981° N Lon: 95.146° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	42	167	404	724	975	1142	1095	797	464	150	21
45	3	19	97	281	569	825	987	941	647	329	85	7
50	-7777	7	50	177	419	675	832	786	500	212	42	2
55	-7777	2	22	100	283	525	677	631	358	120	18	1
60	0	1	8	48	168	377	522	476	230	55	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	14	31	109	234	439	657	787	743	507	277	89	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	56	223	627	1351	2326	3468	4563	5360	5824	5974	5995
45	3	22	119	400	969	1794	2781	3722	4369	4698	4783	4790
50	0	7	57	234	653	1328	2160	2946	3446	3658	3700	3702
55	0	2	24	124	407	932	1609	2240	2598	2718	2736	2737
60	0	1	9	57	225	602	1124	1600	1830	1885	1890	1890
Growing Degree Units for Corn (Monthly)												
50/86	14	45	154	388	827	1484	2271	3014	3521	3798	3887	3901

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: WINDSOR, MO US

GHCND:USC00239032
 Elev: 840 ft. Lat: 38.532° N Lon: 93.524° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.3	20.3	29.3	5.8	4.7	5.0	1	1	-7777	-7777	0	0	797	859	952	1107	0.0	0.0	5.9	9.0	26.9	1.1
2	44.1	24.6	34.3	5.4	5.1	5.1	3	2	1	-7777	0	0	581	636	719	858	0.0	0.0	9.9	5.3	21.4	0.5
3	54.7	33.6	44.1	4.5	3.7	3.8	30	21	11	3	-7777	-7777	367	420	503	649	0.0	0.0	19.3	1.2	14.8	0.0
4	65.2	43.9	54.5	4.0	3.5	3.6	112	86	55	21	5	2	126	159	218	335	0.0	0.1	26.8	0.0	3.3	0.0
5	74.6	54.6	64.6	3.3	3.3	3.0	310	257	185	90	31	17	13	22	43	102	0.0	0.2	30.9	0.0	0.0	0.0
6	82.9	64.3	73.6	2.5	2.7	2.4	558	499	410	268	143	101	-7777	1	2	10	0.0	3.6	30.0	0.0	0.0	0.0
7	88.0	68.9	78.5	2.5	2.2	2.1	727	665	572	417	266	209	0	0	0	-7777	0.6	12.0	31.0	0.0	0.0	0.0
8	87.2	66.6	76.9	4.1	2.8	3.2	679	617	524	371	229	178	-7777	-7777	-7777	2	1.2	11.2	31.0	0.0	0.0	0.0
9	78.9	57.4	68.2	3.0	3.1	2.8	405	350	272	157	74	51	10	16	27	63	0.1	2.9	29.9	0.0	-7777	0.0
10	67.6	45.4	56.5	2.3	3.1	2.2	135	103	64	22	5	2	89	118	172	286	0.0	0.0	29.7	0.0	2.1	0.0
11	54.3	35.0	44.6	5.0	3.7	4.1	31	21	11	2	-7777	0	341	392	472	613	0.0	0.0	18.5	1.0	11.5	0.0
12	41.0	23.2	32.1	6.0	5.8	5.8	3	2	1	-7777	0	0	713	773	865	1020	0.0	0.0	7.4	7.0	24.7	1.0
Summary	64.7	44.8	54.8	4.0	3.6	3.6	2994	2624	2106	1351	753	560	3037	3396	3973	5045	1.9	30.0	270.3	23.5	104.7	2.6

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WINDSOR, MO US**

GHCND:USC00239032
Elev: 840 ft. Lat: 38.532° N Lon: 93.524° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	28	62	209	444	762	1008	1192	1144	844	516	213	45
45	10	27	124	312	608	858	1037	989	695	370	129	20
50	3	10	66	199	455	708	882	834	547	240	68	9
55	1	3	30	112	310	558	727	679	405	135	31	3
60	-7777	1	11	55	185	410	572	524	272	64	11	1
Growing Degree Units for Corn (Monthly)												
50/86	19	44	133	261	474	692	826	776	548	307	121	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	28	90	299	743	1505	2513	3705	4849	5693	6209	6422	6467
45	10	37	161	473	1081	1939	2976	3965	4660	5030	5159	5179
50	3	13	79	278	733	1441	2323	3157	3704	3944	4012	4021
55	1	4	34	146	456	1014	1741	2420	2825	2960	2991	2994
60	0	1	12	67	252	662	1234	1758	2030	2094	2105	2106
Growing Degree Units for Corn (Monthly)												
50/86	19	63	196	457	931	1623	2449	3225	3773	4080	4201	4228

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

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **VANDALIA, MO US**

GHCND:USC00238577
Elev: 764 ft. Lat: 39.317° N Lon: 91.483° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	36.0	18.4	27.2	5.3	5.3	5.0	1	-7777	-7777	0	0	0	862	924	1017	1172	0.0	0.0	4.3	11.1	27.9	2.3
2	41.1	22.2	31.7	5.8	5.6	5.5	2	1	-7777	-7777	0	0	655	711	794	934	0.0	0.0	7.4	6.9	23.2	1.3
3	52.4	31.5	41.9	4.4	3.1	3.6	22	15	7	2	-7777	-7777	427	481	567	716	0.0	0.0	16.8	1.7	17.2	0.2
4	64.3	42.4	53.3	4.2	3.0	3.5	98	74	46	17	4	1	148	184	246	367	0.0	0.1	26.2	0.0	4.2	0.0
5	73.5	52.7	63.1	3.3	3.5	3.3	270	221	154	71	23	12	19	32	58	130	0.0	0.2	31.0	0.0	0.1	0.0
6	82.3	62.2	72.3	3.0	2.5	2.6	518	458	370	232	116	79	-7777	1	3	15	0.2	3.2	30.0	0.0	0.0	0.0
7	86.5	66.6	76.6	2.5	1.8	2.0	668	606	513	359	211	158	0	0	-7777	1	0.6	9.3	31.0	0.0	0.0	0.0
8	85.5	64.7	75.1	3.6	2.8	3.1	623	561	468	316	178	131	0	-7777	-7777	3	0.5	7.7	31.0	0.0	0.0	0.0
9	78.0	55.2	66.6	3.1	2.7	2.7	359	305	229	123	52	33	11	17	31	75	0.0	1.7	29.9	0.0	0.0	0.0
10	66.5	43.6	55.0	2.9	2.7	2.5	118	89	54	17	4	2	116	149	208	325	0.0	0.0	28.8	0.0	3.2	0.0
11	52.8	33.2	43.0	4.6	3.5	3.8	21	14	7	1	0	0	381	434	517	661	0.0	0.0	17.3	1.1	14.1	-7777
12	39.1	22.0	30.6	5.8	5.8	5.7	1	1	-7777	0	0	0	759	820	913	1068	0.0	0.0	6.2	8.6	26.1	1.3
Summary	63.2	42.9	53.0	4.0	3.5	3.6	2701	2345	1848	1138	588	416	3378	3753	4354	5467	1.3	22.2	259.9	29.4	116.0	5.1

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **VANDALIA, MO US**

GHCND:USC00238577
Elev: 764 ft. Lat: 39.317° N Lon: 91.483° W

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	.25	.50	.75
1	1.82	6.7	4.0	1.1	0.5	0.76	1.73	2.48
2	2.29	6.4	4.0	1.3	0.6	1.15	2.04	3.51
3	2.89	9.0	6.4	2.3	0.5	2.09	3.00	3.73
4	3.79	9.9	6.6	2.1	0.7	1.78	3.59	5.27
5	5.20	12.0	8.4	3.4	1.4	3.01	5.94	7.00
6	4.98	9.8	7.1	3.2	1.5	2.80	4.57	7.04
7	4.71	8.5	6.7	3.3	1.6	1.65	3.18	6.34
8	3.91	7.6	5.7	2.6	1.4	2.12	4.41	5.60
9	3.71	7.3	4.9	1.9	0.9	1.62	2.58	4.72
10	2.97	8.6	6.1	2.0	0.5	2.04	2.44	3.71
11	3.35	7.6	5.4	2.2	0.8	1.87	2.73	4.68
12	2.54	7.7	5.2	1.7	0.7	1.59	1.99	3.49
Summary	42.16	101.1	70.5	27.1	11.1	22.48	38.20	57.57

@ Denotes mean number of days greater than 0 but less than 0.05.

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Station: **VANDALIA, MO US**

GHCND:USC00238577
Elev: 764 ft. Lat: 39.317° N Lon: 91.483° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.9	1.7	1.3	0.4	0.1	0.0	@	@	@	@	0.0	2.0	5.5
2	3.0	1.9	1.3	0.3	0.1	0.0	@	@	@	@	0.0	1.9	6.5
3	1.7	0.9	0.5	0.2	-7777	0.0	@	@	@	@	0.0	0.4	2.3
4	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.5	0.3	0.2	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
12	6.7	2.3	1.6	0.6	0.2	-7777	@	@	@	@	2.2	4.0	10.7
Summary	15.9	7.2	5.0	1.6	0.4	0.0	0.0	0.0	0.0	0.0	2.2	8.3	25.0

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Station: **VANDALIA, MO US**

GHCND:USC00238577
Elev: 764 ft. Lat: 39.317° N Lon: 91.483° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	19	40	167	411	716	968	1133	1088	798	471	173	32
45	6	16	97	284	562	817	978	933	648	331	99	13
50	2	5	49	177	410	667	823	778	500	211	49	4
55	1	2	22	98	270	518	668	623	359	118	21	1
60	-7777	-7777	7	46	154	370	513	468	229	54	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	30	107	242	435	652	781	740	510	281	102	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	19	59	226	637	1353	2321	3454	4542	5340	5811	5984	6016
45	6	22	119	403	965	1782	2760	3693	4341	4672	4771	4784
50	2	7	56	233	643	1310	2133	2911	3411	3622	3671	3675
55	1	3	25	123	393	911	1579	2202	2561	2679	2700	2701
60	0	0	7	53	207	577	1090	1558	1787	1841	1848	1848
Growing Degree Units for Corn (Monthly)												
50/86	15	45	152	394	829	1481	2262	3002	3512	3793	3895	3915

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

M indicates the value is missing

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 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LEXINGTON 3 NE, MO US**

GHCND:USC00234904
 Elev: 825 ft. Lat: 39.183° N Lon: 93.855° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.6	19.5	29.0	5.5	5.0	5.0	-7777	-7777	0	0	0	0	805	866	959	1114	0.0	0.0	5.6	8.6	27.7	1.6
2	43.8	23.6	33.7	5.7	5.2	5.3	3	2	1	-7777	-7777	0	599	654	737	876	0.0	0.0	9.7	5.4	21.2	0.9
3	55.4	32.7	44.1	4.3	3.5	3.6	30	21	11	3	-7777	-7777	370	422	505	652	0.0	0.0	19.7	1.2	14.8	-7777
4	65.9	43.3	54.6	4.2	3.1	3.5	116	90	57	22	6	3	128	162	220	334	0.0	-7777	27.5	0.0	3.6	0.0
5	75.1	53.4	64.3	3.2	3.1	3.0	301	249	177	84	27	15	14	24	46	107	0.0	0.5	30.9	0.0	-7777	0.0
6	84.1	63.0	73.6	2.9	2.4	2.5	557	497	408	266	142	100	-7777	1	2	10	0.1	5.3	30.0	0.0	0.0	0.0
7	88.2	67.5	77.8	2.5	2.0	2.0	708	646	553	399	248	193	0	0	0	-7777	0.5	12.2	31.0	0.0	0.0	0.0
8	87.7	65.6	76.6	4.0	3.1	3.4	671	609	516	363	220	169	0	0	-7777	2	1.0	12.9	31.0	0.0	0.0	0.0
9	80.2	55.9	68.0	2.9	2.8	2.7	400	345	267	154	71	48	9	14	25	63	0.1	3.5	30.0	0.0	-7777	0.0
10	68.2	44.8	56.5	2.9	2.7	2.4	140	108	68	24	6	3	93	123	176	288	0.0	0.1	29.8	0.0	2.6	0.0
11	54.3	33.9	44.1	5.0	3.7	4.1	26	18	9	2	-7777	-7777	353	405	486	629	0.0	0.0	18.2	0.9	12.5	-7777
12	41.2	22.6	31.9	6.4	6.0	6.0	2	1	-7777	-7777	0	0	718	779	871	1026	0.0	0.0	7.7	6.7	25.2	1.2
Summary	65.2	43.8	54.5	4.1	3.6	3.6	2954	2586	2067	1317	720	531	3089	3450	4027	5101	1.7	34.5	271.1	22.8	107.6	3.7

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LEXINGTON 3 NE, MO US**

GHCND:USC00234904
Elev: 825 ft. Lat: 39.183° N Lon: 93.855° W

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	.25	.50	.75
1	1.47	5.2	3.4	0.9	0.3	0.67	1.28	1.95
2	1.71	5.3	3.9	1.1	0.3	1.12	1.42	2.06
3	2.78	7.3	5.3	1.7	0.5	1.75	2.29	3.36
4	3.96	9.3	6.7	2.8	1.0	2.20	4.00	5.30
5	5.27	10.6	8.1	3.4	1.5	3.18	4.62	6.53
6	5.34	9.4	7.4	3.4	1.5	3.44	5.31	7.10
7	4.67	8.0	6.4	3.4	1.5	2.57	3.92	5.75
8	4.29	7.2	5.9	3.1	1.1	2.71	4.32	5.26
9	4.66	7.5	5.8	2.8	1.6	2.92	4.02	5.39
10	3.46	7.6	5.6	2.2	1.0	1.40	3.33	4.92
11	2.73	6.0	4.5	1.9	0.7	1.47	2.33	3.45
12	1.88	5.7	4.3	1.3	0.5	0.98	1.95	2.40
Summary	42.22	89.1	67.3	28.0	11.5	24.41	38.79	53.47

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Station: **LEXINGTON 3 NE, MO US**

GHCND:USC00234904
Elev: 825 ft. Lat: 39.183° N Lon: 93.855° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.0	2.6	1.8	0.7	0.3	0.0	7.1	2.4	0.8	0.0	0.6	3.5	8.1
2	4.3	1.8	1.3	0.6	0.1	-7777	4.6	2.0	0.5	0.1	0.0	3.0	6.2
3	1.1	0.5	0.4	0.1	-7777	0.0	1.0	0.3	0.1	0.0	0.0	0.1	1.2
4	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.7	0.3	0.2	0.1	-7777	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.2
12	4.5	1.9	1.3	0.5	0.2	-7777	5.1	2.3	0.9	-7777	0.3	2.8	7.6
Summary	15.7	7.2	5.1	2.0	0.6	0.0	18.2	7.2	2.3	0.1	0.9	9.4	23.3

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Station: **LEXINGTON 3 NE, MO US**

GHCND:USC00234904
Elev: 825 ft. Lat: 39.183° N Lon: 93.855° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	26	59	207	445	752	1006	1173	1136	841	515	202	41
45	9	25	122	315	597	856	1018	981	692	370	121	17
50	3	9	65	202	444	706	863	826	544	243	62	6
55	-7777	3	30	116	301	557	708	671	400	140	26	2
60	0	1	11	57	177	408	553	516	267	68	9	-7777
Growing Degree Units for Corn (Monthly)												
50/86	20	43	137	266	466	683	807	768	545	311	119	28

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	26	85	292	737	1489	2495	3668	4804	5645	6160	6362	6403
45	9	34	156	471	1068	1924	2942	3923	4615	4985	5106	5123
50	3	12	77	279	723	1429	2292	3118	3662	3905	3967	3973
55	0	3	33	149	450	1007	1715	2386	2786	2926	2952	2954
60	0	1	12	69	246	654	1207	1723	1990	2058	2067	2067
Growing Degree Units for Corn (Monthly)												
50/86	20	63	200	466	932	1615	2422	3190	3735	4046	4165	4193

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

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **COLUMBIA U OF M, MO US**

GHCND:USC00231801
Elev: 720 ft. Lat: 38.942° N Lon: 92.320° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.7	22.4	31.0	5.0	4.3	4.5	1	1	-7777	0	0	0	744	805	898	1052	0.0	0.0	6.5	7.7	24.7	1.1
2	45.0	26.0	35.5	5.3	4.8	4.9	4	2	1	-7777	0	0	550	604	686	826	0.0	0.0	9.3	3.5	20.3	0.0
3	56.0	35.1	45.5	3.9	3.2	3.4	37	26	14	3	-7777	-7777	329	381	462	606	0.0	0.0	21.2	0.6	11.7	0.0
4	66.8	45.7	56.3	4.0	3.2	3.5	138	107	70	29	8	4	100	130	183	291	0.0	0.2	27.5	0.0	2.4	0.0
5	75.2	55.2	65.2	3.4	3.4	3.2	324	270	196	101	39	23	8	16	35	95	0.0	0.6	31.0	0.0	0.0	0.0
6	84.5	64.6	74.5	2.9	2.2	2.4	586	527	438	293	162	117	-7777	-7777	1	7	0.0	6.8	30.0	0.0	0.0	0.0
7	89.6	68.8	79.2	2.9	1.6	2.1	750	688	595	440	288	231	0	0	0	-7777	1.4	15.3	31.0	0.0	0.0	0.0
8	88.3	67.2	77.8	3.4	2.5	2.9	705	643	550	396	249	195	0	0	-7777	1	1.2	12.2	31.0	0.0	0.0	0.0
9	79.9	58.1	69.0	2.8	2.5	2.4	425	368	287	164	75	50	5	8	17	45	0.0	2.6	30.0	0.0	0.0	0.0
10	68.0	46.6	57.3	3.0	3.1	2.6	156	122	80	32	9	5	84	113	164	270	0.0	0.1	29.9	0.0	1.5	0.0
11	54.9	36.7	45.8	5.2	3.2	4.0	34	23	12	2	-7777	-7777	310	359	439	578	0.0	0.0	18.9	0.7	10.1	0.0
12	42.0	25.2	33.6	5.9	5.8	5.8	3	2	1	-7777	0	0	667	727	819	973	0.0	0.0	8.5	6.7	23.2	0.2
Summary	65.8	46.0	55.9	4.0	3.3	3.5	3163	2779	2244	1460	830	625	2797	3143	3704	4744	2.6	37.8	274.8	19.2	93.9	1.3

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Station: **COLUMBIA U OF M, MO US**

GHCND:USC00231801
Elev: 720 ft. Lat: 38.942° N Lon: 92.320° W

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	.25	.50	.75
1	2.21	8.2	4.5	1.3	0.8	1.04	2.15	2.97
2	2.46	7.6	4.3	1.8	1.0	1.21	2.39	3.60
3	3.19	10.1	6.9	2.5	0.6	2.19	2.96	4.01
4	4.48	11.1	7.3	3.3	1.3	2.32	4.15	5.63
5	5.45	12.6	8.1	3.6	1.6	3.23	4.97	6.50
6	5.19	10.9	7.3	3.8	2.0	4.18	5.01	6.28
7	4.51	8.5	6.6	2.9	1.1	2.02	3.99	6.37
8	4.50	8.4	5.3	2.8	1.6	3.16	4.23	5.83
9	4.30	8.4	6.0	2.7	1.4	1.68	2.82	5.98
10	3.34	9.6	6.0	2.8	1.0	1.99	3.18	4.32
11	4.15	7.5	4.9	1.3	0.5	1.59	2.75	5.59
12	2.50	8.5	4.8	1.1	0.4	1.31	1.97	3.52
Summary	46.28	111.4	72.0	29.9	13.3	25.92	40.57	60.60

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 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **COLUMBIA U OF M, MO US**

GHCND:USC00231801
 Elev: 720 ft. Lat: 38.942° N Lon: 92.320° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.8	3.5	1.3	0.3	0.2	0.0	7.1	2.9	1.2	0.0	2.2	4.5	6.5
2	2.8	2.4	1.1	0.2	0.0	0.0	4.2	1.0	0.0	0.0	0.4	2.6	4.9
3	1.3	0.8	0.4	0.2	0.1	0.0	1.1	0.7	0.3	0.0	0.0	0.3	0.6
4	0.3	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.2	0.1	0.1	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
12	5.0	3.5	1.9	0.6	0.1	0.1	6.9	3.7	1.5	0.3	1.2	3.6	9.4
Summary	14.6	10.5	4.9	1.5	0.5	0.1	19.6	8.5	3.0	0.3	3.8	11.0	21.4

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **COLUMBIA U OF M, MO US**

GHCND:USC00231801
Elev: 720 ft. Lat: 38.942° N Lon: 92.320° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	37	66	228	492	781	1036	1215	1170	870	538	229	58
45	13	29	135	355	626	886	1060	1015	720	391	141	26
50	4	11	74	235	472	736	905	860	571	260	74	9
55	1	4	37	138	324	586	750	705	425	156	34	3
60	-7777	1	14	70	196	438	595	550	287	80	12	1
Growing Degree Units for Corn (Monthly)												
50/86	23	43	139	289	485	709	832	795	567	315	124	31

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	37	103	331	823	1604	2640	3855	5025	5895	6433	6662	6720
45	13	42	177	532	1158	2044	3104	4119	4839	5230	5371	5397
50	4	15	89	324	796	1532	2437	3297	3868	4128	4202	4211
55	1	5	42	180	504	1090	1840	2545	2970	3126	3160	3163
60	0	1	15	85	281	719	1314	1864	2151	2231	2243	2244
Growing Degree Units for Corn (Monthly)												
50/86	23	66	205	494	979	1688	2520	3315	3882	4197	4321	4352

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

M indicates the value is missing

-7777: a non-zero value that would round to zero

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
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 Service

Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CARUTHERSVILLE, MO US**

GHCND:USC00231364
 Elev: 265 ft. Lat: 36.126° N Lon: 89.700° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.1	28.0	36.5	4.9	4.7	4.6	6	4	1	-7777	0	0	578	637	728	882	0.0	0.0	10.6	3.5	20.8	0.5
2	49.8	31.5	40.6	4.4	4.0	4.0	9	5	2	-7777	0	0	410	463	544	682	0.0	0.0	14.5	2.3	14.6	0.1
3	59.7	38.5	49.1	3.5	2.7	3.0	52	36	20	6	1	-7777	235	281	358	499	0.0	0.0	24.8	0.4	7.4	0.0
4	70.2	48.2	59.2	3.7	3.3	3.3	187	149	100	43	11	5	61	83	124	217	0.0	0.0	29.0	0.0	1.2	0.0
5	79.0	58.6	68.8	2.8	3.3	2.8	429	370	285	162	70	44	2	4	12	45	0.0	1.4	31.0	0.0	0.0	0.0
6	87.0	66.9	76.9	2.8	2.3	2.3	658	598	509	361	220	169	0	-7777	-7777	2	0.1	10.2	30.0	0.0	0.0	0.0
7	90.1	70.4	80.2	2.4	1.7	1.8	783	721	628	473	319	258	0	-7777	-7777	-7777	0.4	16.6	31.0	0.0	0.0	0.0
8	88.8	68.7	78.7	3.2	2.7	2.7	736	674	581	426	275	218	0	0	-7777	-7777	0.5	13.3	31.0	0.0	0.0	0.0
9	82.3	60.9	71.6	2.8	2.7	2.5	500	441	356	224	115	81	2	3	8	26	0.0	4.1	30.0	0.0	0.0	0.0
10	72.2	49.2	60.7	2.8	3.8	3.0	223	180	123	54	17	10	47	66	102	188	0.0	0.3	30.7	0.0	0.8	0.0
11	59.6	40.4	50.0	3.9	3.4	3.4	60	43	24	7	1	-7777	210	253	324	457	0.0	0.0	23.7	0.1	6.2	0.0
12	47.7	30.9	39.3	4.8	4.4	4.4	9	5	2	1	-7777	0	495	554	644	797	0.0	0.0	13.5	2.6	17.4	0.2
Summary	69.3	49.4	59.3	3.5	3.3	3.2	3652	3226	2631	1757	1029	785	2040	2344	2844	3795	1.0	45.9	299.8	8.9	68.4	0.8

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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **CARUTHERSVILLE, MO US**

GHCND:USC00231364

Elev: 265 ft. Lat: 36.126° N Lon: 89.700° W

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	.25	.50	.75
1	3.70	9.6	5.9	2.7	1.0	2.30	3.27	5.10
2	3.93	8.8	6.3	2.7	1.2	2.45	3.53	4.63
3	4.42	10.6	7.4	3.0	1.0	3.17	4.03	5.23
4	5.30	10.6	7.7	3.6	1.8	3.64	5.24	6.28
5	5.74	10.7	7.5	3.5	1.6	3.24	4.34	6.96
6	4.38	9.0	6.3	2.9	1.0	2.69	3.80	5.90
7	4.08	8.0	5.9	2.4	1.0	1.67	2.98	5.97
8	2.77	5.8	4.0	1.8	0.8	1.00	3.00	4.14
9	3.37	7.2	4.9	2.2	1.0	1.41	2.89	4.85
10	4.37	7.3	5.1	2.9	1.4	2.21	4.16	5.72
11	4.68	9.8	6.9	3.3	1.5	2.60	3.64	7.05
12	4.84	10.4	6.9	3.6	1.3	2.04	4.56	6.93
Summary	51.58	107.8	74.8	34.6	14.6	28.42	45.44	68.76

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CARUTHERSVILLE, MO US**

GHCND:USC00231364
 Elev: 265 ft. Lat: 36.126° N Lon: 89.700° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	0.8	0.3	0.3	0.1	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.6
2	0.9	0.5	0.5	0.2	0.1	0.0	0.5	0.1	-7777	0.0	0.0	0.0	1.0
3	0.2	-7777	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.4	0.2	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Summary	2.3	1.0	0.9	0.3	0.1	0.0	0.8	0.3	0.0	0.0	0.0	0.0	1.6

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CARUTHERSVILLE, MO US**

GHCND:USC00231364
 Elev: 265 ft. Lat: 36.126° N Lon: 89.700° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	79	124	309	577	893	1108	1248	1201	948	643	322	113
45	38	63	194	433	738	958	1092	1046	798	491	211	56
50	16	26	108	300	583	808	938	891	648	348	122	24
55	6	9	52	187	429	658	783	736	500	223	60	9
60	1	2	20	100	285	509	628	581	356	123	24	2
Growing Degree Units for Corn (Monthly)												
50/86	44	70	180	349	582	764	864	829	635	399	178	56

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	79	203	512	1089	1982	3090	4338	5539	6487	7130	7452	7565
45	38	101	295	728	1466	2424	3516	4562	5360	5851	6062	6118
50	16	42	150	450	1033	1841	2779	3670	4318	4666	4788	4812
55	6	15	67	254	683	1341	2124	2860	3360	3583	3643	3652
60	1	3	23	123	408	917	1545	2126	2482	2605	2629	2631
Growing Degree Units for Corn (Monthly)												
50/86	44	114	294	643	1225	1989	2853	3682	4317	4716	4894	4950

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
 -7777: a non-zero value that would round to zero
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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **MORRISVILLE 2 SW, MO US**

GHCND:USC00235784

Elev: 1100 ft. Lat: 37.460° N Lon: 93.443° W

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	.25	.50	.75
1	2.26	@	@	@	@			
2	2.32	@	@	@	@			
3	3.57	@	@	@	@			
4	4.49	@	@	@	@			
5	5.29	@	@	@	@			
6	5.11	@	@	@	@			
7	4.22	@	@	@	@			
8	4.48	@	@	@	@			
9	4.38	@	@	@	@			
10	4.29	@	@	@	@			
11	3.66	@	@	@	@			
12	2.91	@	@	@	@			
Summary	46.98	0.0	0.0	0.0	0.0			

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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **CLIFTON CITY, MO US**

GHCND:USC00231704

Elev: 730 ft. Lat: 38.750° N Lon: 93.017° W

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	.25	.50	.75
1	1.32	4.6	3.1	0.6	0.3	0.80	1.21	1.84
2	1.83	5.4	3.5	1.1	0.3	1.16	1.65	2.26
3	2.76	7.3	5.7	1.9	0.4	1.87	2.58	3.72
4	4.33	9.3	7.3	3.1	0.9	2.86	3.97	5.69
5	4.91	10.9	8.1	3.4	1.6	3.02	4.36	6.45
6	4.49	8.6	6.9	2.8	1.4	2.70	4.31	6.24
7	5.29	7.9	6.8	3.2	1.4	2.61	4.13	6.82
8	3.66	7.8	5.9	3.3	1.0	2.00	3.49	4.61
9	4.48	7.3	5.8	2.5	1.3	1.94	2.91	5.43
10	3.28	7.6	5.3	1.8	0.7	2.29	2.78	4.00
11	3.20	7.1	6.0	3.1	1.6	1.23	2.41	4.07
12	2.52	5.8	4.5	2.1	0.4	1.49	2.29	3.67
Summary	42.07	89.6	68.9	28.9	11.3	23.97	36.09	54.80

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLIFTON CITY, MO US**

GHCND:USC00231704
Elev: 730 ft. Lat: 38.750° N Lon: 93.017° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.2	2.3	1.8	0.8	0.5	0.1	@	@	@	@	0.5	2.8	6.5
2	6.4	2.3	2.1	1.0	0.3	0.0	@	@	@	@	2.0	5.5	11.5
3	1.6	0.8	0.5	0.2	0.1	0.0	@	@	@	@	0.0	0.5	2.0
4	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.4	0.3	0.1	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.5
12	3.2	1.6	1.2	0.7	0.2	0.1	@	@	@	@	0.0	3.0	6.0
Summary	15.9	7.4	5.8	2.8	1.1	0.2	0.0	0.0	0.0	0.0	2.5	11.8	26.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WEST PLAINS MUNICIPAL AIRPORT, MO US**

GHCND:USW00053901
Elev: 1223 ft. Lat: 36.878° N Lon: 91.902° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.6	23.5	34.0	4.1	4.5	4.1	3	1	-7777	0	0	0	652	713	805	959	0.0	0.0	11.1	5.3	24.1	0.7
2	49.2	26.5	37.9	4.6	4.8	4.5	4	2	1	-7777	0	0	484	538	621	760	0.0	0.0	13.2	2.0	20.7	0.1
3	59.5	35.5	47.5	3.5	2.9	3.0	39	27	15	4	-7777	-7777	271	322	402	546	0.0	0.0	25.1	0.2	10.7	0.0
4	69.7	45.1	57.4	3.3	3.4	3.1	144	111	69	24	5	2	72	99	147	252	0.0	0.1	29.1	0.0	2.3	0.0
5	76.7	54.2	65.4	2.8	2.8	2.6	329	272	195	94	29	15	5	10	26	80	0.0	0.1	31.0	0.0	0.0	0.0
6	84.2	63.2	73.7	2.9	2.1	2.3	561	501	411	266	138	96	-7777	-7777	-7777	5	0.0	4.4	30.0	0.0	0.0	0.0
7	89.5	66.6	78.0	2.7	1.8	1.9	714	652	559	405	254	198	0	0	0	-7777	1.2	15.4	31.0	0.0	0.0	0.0
8	89.4	65.0	77.2	3.5	2.9	3.1	688	626	533	379	232	178	0	0	-7777	1	1.7	14.3	31.0	0.0	0.0	0.0
9	80.8	56.9	68.9	2.6	2.8	2.4	419	362	279	156	67	43	3	7	14	41	0.1	2.6	30.0	0.0	0.0	0.0
10	69.6	45.1	57.4	2.8	2.9	2.4	147	113	70	24	5	2	74	102	152	261	0.0	0.0	30.7	0.0	2.6	0.0
11	57.0	36.5	46.8	4.6	3.0	3.2	33	21	9	2	-7777	0	280	329	407	549	0.0	0.0	21.2	0.1	10.5	0.0
12	46.4	26.0	36.2	5.3	5.6	5.3	3	2	1	0	0	0	586	646	738	893	0.0	0.0	11.6	2.8	22.7	0.2
Summary	68.1	45.3	56.7	3.6	3.3	3.2	3084	2690	2142	1354	730	534	2427	2766	3312	4347	3.0	36.9	295.0	10.4	93.6	1.0

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**Summary of
Monthly Normals
1981-2010**

Station: **WEST PLAINS MUNICIPAL AIRPORT, MO US**

GHCND:USW00053901
Elev: 1223 ft. Lat: 36.878° N Lon: 91.902° W

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	.25	.50	.75
1	2.72	@	@	@	@			
2	2.84	@	@	@	@			
3	4.29	@	@	@	@			
4	4.48	@	@	@	@			
5	4.94	@	@	@	@			
6	4.02	@	@	@	@			
7	3.55	@	@	@	@			
8	3.23	@	@	@	@			
9	4.09	@	@	@	@			
10	3.84	@	@	@	@			
11	4.58	@	@	@	@			
12	3.64	@	@	@	@			
Summary	46.22	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

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 Federal Building
 151 Patton Avenue
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Station: WEST PLAINS MUNICIPAL AIRPORT, MO US

GHCND:USW00053901
 Elev: 1223 ft. Lat: 36.878° N Lon: 91.902° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	61	84	268	523	789	1011	1179	1153	865	539	241	71
45	26	39	162	381	634	861	1024	998	715	389	146	31
50	9	15	85	251	479	711	869	843	566	256	77	12
55	3	4	39	144	329	561	714	688	419	147	33	3
60	-7777	1	15	69	195	411	559	533	279	70	9	1
Growing Degree Units for Corn (Monthly)												
50/86	43	63	174	324	502	690	799	772	568	332	139	43

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	61	145	413	936	1725	2736	3915	5068	5933	6472	6713	6784
45	26	65	227	608	1242	2103	3127	4125	4840	5229	5375	5406
50	9	24	109	360	839	1550	2419	3262	3828	4084	4161	4173
55	3	7	46	190	519	1080	1794	2482	2901	3048	3081	3084
60	0	1	16	85	280	691	1250	1783	2062	2132	2141	2142
Growing Degree Units for Corn (Monthly)												
50/86	43	106	280	604	1106	1796	2595	3367	3935	4267	4406	4449

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Station: **LAMAR 2 W, MO US**

GHCND:USC00234705
Elev: 996 ft. Lat: 37.493° N Lon: 94.315° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.4	22.8	33.1	5.0	3.8	4.3	3	2	1	-7777	0	0	682	743	834	989	0.0	0.0	9.8	5.8	25.4	0.9
2	48.7	26.6	37.6	5.3	4.2	4.5	6	4	1	-7777	0	0	492	545	627	766	0.0	0.0	13.0	3.1	19.6	0.6
3	58.4	33.9	46.2	3.9	3.6	3.5	40	28	15	4	-7777	-7777	315	364	444	588	0.0	0.0	22.4	0.7	13.4	-7777
4	68.5	43.6	56.0	3.8	3.5	3.5	134	104	68	27	6	3	103	133	187	295	0.0	0.3	28.2	0.0	3.2	0.0
5	76.3	54.1	65.2	3.0	3.3	2.9	325	270	195	95	33	18	9	16	34	88	0.0	0.4	31.0	0.0	0.0	0.0
6	84.5	63.2	73.9	2.8	2.4	2.5	566	506	417	274	147	104	-7777	1	2	9	0.0	5.4	30.0	0.0	0.0	0.0
7	89.6	68.0	78.8	2.2	2.1	1.9	738	676	583	428	277	219	0	0	0	-7777	0.6	15.7	31.0	0.0	0.0	0.0
8	89.9	66.4	78.1	3.7	2.9	3.2	717	655	563	409	262	208	-7777	-7777	-7777	2	2.2	16.2	31.0	0.0	0.0	0.0
9	81.7	57.1	69.4	3.3	3.0	2.9	439	383	303	185	92	64	7	11	21	53	0.4	5.0	29.9	0.0	0.0	0.0
10	70.8	45.8	58.3	2.9	2.9	2.5	173	135	89	35	8	4	70	95	142	242	0.0	0.2	30.3	0.0	1.9	0.0
11	58.4	36.1	47.2	4.6	3.7	3.8	44	31	17	4	-7777	-7777	277	324	399	537	0.0	0.0	22.0	0.4	11.0	0.0
12	45.7	25.6	35.7	5.4	5.3	5.3	5	3	2	-7777	0	0	605	665	756	910	0.0	0.0	11.5	4.1	23.0	0.8
Summary	68.0	45.3	56.6	3.8	3.4	3.4	3190	2797	2254	1461	825	620	2560	2897	3446	4479	3.2	43.2	290.1	14.1	97.5	2.3

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LAMAR 2 W, MO US**

GHCND:USC00234705
Elev: 996 ft. Lat: 37.493° N Lon: 94.315° W

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	.25	.50	.75
1	2.14	5.2	4.4	1.5	0.4	0.87	2.13	2.92
2	2.42	5.5	4.4	1.8	0.4	1.40	2.37	3.02
3	3.93	8.3	7.3	2.7	1.0	2.68	3.82	4.58
4	4.79	9.1	7.5	3.5	1.4	3.54	4.58	5.73
5	6.45	11.0	9.1	4.8	1.9	3.98	6.06	7.38
6	6.57	11.0	9.3	4.7	2.3	4.46	5.35	7.55
7	4.89	7.8	6.5	3.2	1.7	2.52	4.46	5.60
8	3.56	6.9	5.4	2.3	1.2	1.93	3.09	4.45
9	5.37	7.5	6.3	3.1	1.6	2.75	3.76	6.37
10	4.18	7.8	6.2	2.6	1.2	1.83	3.02	5.25
11	4.10	7.1	5.8	2.9	1.2	2.10	3.37	5.85
12	2.80	6.2	5.1	2.4	0.9	1.31	2.77	4.04
Summary	51.20	93.4	77.3	35.5	15.2	29.37	44.78	62.74

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Station: **LAMAR 2 W, MO US**

GHCND:USC00234705
Elev: 996 ft. Lat: 37.493° N Lon: 94.315° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.3	1.7	1.2	0.3	0.2	0.0	@	@	@	@	0.7	2.0	6.7
2	2.4	1.0	0.5	0.3	0.1	0.0	@	@	@	@	0.0	1.4	3.0
3	1.7	0.3	0.3	0.2	0.1	-7777	@	@	@	@	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.5	0.1	0.1	-7777	-7777	-7777	@	@	@	@	0.0	0.0	0.0
12	1.4	1.1	0.6	0.2	0.1	-7777	@	@	@	@	0.0	0.0	2.0
Summary	10.3	4.2	2.7	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7	3.4	11.7

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Station: **LAMAR 2 W, MO US**

GHCND:USC00234705
Elev: 996 ft. Lat: 37.493° N Lon: 94.315° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	56	96	249	485	781	1016	1203	1182	882	569	265	77
45	23	48	153	350	626	865	1048	1027	732	421	168	35
50	8	20	84	230	472	715	893	872	583	286	94	14
55	3	6	40	134	325	566	738	717	439	173	44	5
60	1	1	15	68	195	417	583	563	303	89	17	2
Growing Degree Units for Corn (Monthly)												
50/86	42	70	170	302	491	690	822	791	575	356	163	52

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	56	152	401	886	1667	2683	3886	5068	5950	6519	6784	6861
45	23	71	224	574	1200	2065	3113	4140	4872	5293	5461	5496
50	8	28	112	342	814	1529	2422	3294	3877	4163	4257	4271
55	3	9	49	183	508	1074	1812	2529	2968	3141	3185	3190
60	1	2	17	85	280	697	1280	1843	2146	2235	2252	2254
Growing Degree Units for Corn (Monthly)												
50/86	42	112	282	584	1075	1765	2587	3378	3953	4309	4472	4524

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

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www.ncdc.noaa.gov

Station: **PRINCETON, MO US**

GHCND:USC00236866
Elev: 980 ft. Lat: 40.399° N Lon: 93.584° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	35.6	16.6	26.1	5.7	6.3	5.8	-7777	-7777	0	0	0	0	896	958	1051	1206	0.0	0.0	4.2	11.6	28.6	3.2
2	40.6	20.0	30.3	6.6	6.2	6.3	1	-7777	-7777	-7777	0	0	693	748	832	971	0.0	0.0	7.1	7.3	23.4	2.3
3	53.1	30.7	41.9	4.8	4.0	4.1	24	16	8	2	-7777	-7777	430	484	569	718	0.0	0.0	17.5	1.7	16.8	0.2
4	64.5	41.6	53.0	4.4	3.4	3.7	94	70	43	16	3	1	152	189	251	374	0.0	0.1	26.7	0.0	4.8	0.0
5	73.7	52.5	63.1	3.6	3.2	3.2	270	219	152	67	21	12	19	30	56	126	0.0	0.3	31.0	0.0	0.1	0.0
6	82.5	62.4	72.5	2.9	2.0	2.2	524	464	376	236	117	79	-7777	1	3	13	0.2	3.4	30.0	0.0	0.0	0.0
7	87.2	67.0	77.1	2.6	2.1	2.0	685	623	530	375	226	172	0	0	0	-7777	0.7	10.1	31.0	0.0	0.0	0.0
8	86.4	64.8	75.6	4.3	3.0	3.4	639	577	484	332	193	145	-7777	-7777	-7777	4	1.6	8.8	31.0	0.0	0.0	0.0
9	78.5	54.6	66.5	3.3	2.4	2.6	358	305	230	127	56	37	12	18	34	81	-7777	3.1	30.0	0.0	0.2	0.0
10	66.6	43.4	55.0	3.2	2.4	2.5	116	87	53	18	4	2	116	149	208	328	0.0	0.1	29.0	0.0	3.6	0.0
11	52.0	31.3	41.6	5.2	4.7	4.7	20	13	6	1	-7777	-7777	420	474	556	701	0.0	0.0	17.1	1.5	15.7	0.1
12	38.1	19.7	28.9	6.5	6.4	6.2	1	-7777	-7777	0	0	0	810	871	964	1119	0.0	0.0	5.3	8.7	26.9	2.3
Summary	63.2	42.1	52.6	4.4	3.8	3.9	2732	2374	1882	1174	620	448	3548	3922	4524	5641	2.5	25.9	259.9	30.8	120.1	8.1

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**Summary of
Monthly Normals
1981-2010**

Station: **PRINCETON, MO US**

GHCND:USC00236866
Elev: 980 ft. Lat: 40.399° N Lon: 93.584° W

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	.25	.50	.75
1	0.87	4.9	2.7	0.3	0.1	0.48	0.69	1.27
2	1.26	5.8	3.3	0.6	0.3	0.70	1.18	1.46
3	2.24	7.5	4.9	1.4	0.3	1.30	2.34	3.05
4	3.93	10.1	6.9	3.0	0.8	2.50	4.26	4.84
5	4.98	12.1	8.2	3.8	1.4	3.48	4.29	5.69
6	4.86	10.5	7.6	3.3	1.4	3.11	4.56	6.04
7	5.22	8.9	6.7	3.0	1.5	2.00	3.98	7.61
8	3.88	8.4	6.1	2.3	1.2	2.39	3.07	5.56
9	3.34	7.5	5.6	2.7	1.0	2.01	3.21	4.46
10	3.18	8.7	5.8	2.2	0.9	1.84	3.08	4.10
11	2.09	6.9	4.5	1.4	0.3	1.13	1.95	2.93
12	1.55	6.4	3.7	1.0	0.2	0.82	1.68	2.09
Summary	37.40	97.7	66.0	25.0	9.4	21.76	34.29	49.10

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Station: **PRINCETON, MO US**

GHCND:USC00236866
Elev: 980 ft. Lat: 40.399° N Lon: 93.584° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	38	170	402	716	973	1150	1103	796	470	159	23
45	4	15	98	276	562	823	995	948	647	330	91	8
50	1	5	52	171	410	673	840	793	499	208	46	2
55	-7777	1	24	94	270	524	685	639	358	116	20	1
60	0	-7777	8	43	152	376	530	484	230	53	6	-7777
Growing Degree Units for Corn (Monthly)												
50/86	12	28	113	242	437	658	789	747	509	284	97	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	53	223	625	1341	2314	3464	4567	5363	5833	5992	6015
45	4	19	117	393	955	1778	2773	3721	4368	4698	4789	4797
50	1	6	58	229	639	1312	2152	2945	3444	3652	3698	3700
55	0	1	25	119	389	913	1598	2237	2595	2711	2731	2732
60	0	0	8	51	203	579	1109	1593	1823	1876	1882	1882
Growing Degree Units for Corn (Monthly)												
50/86	12	40	153	395	832	1490	2279	3026	3535	3819	3916	3932

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

M indicates the value is missing

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U.S. Department of Commerce
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: GRANT CITY, MO US

GHCND:USC00233369
 Elev: 1130 ft. Lat: 40.486° N Lon: 94.414° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	33.4	13.3	23.4	5.9	6.1	5.9	-7777	0	0	0	0	0	981	1043	1136	1291	0.0	0.0	3.2	13.8	30.1	5.5
2	38.7	16.8	27.7	6.5	6.0	6.0	1	-7777	-7777	-7777	0	0	763	819	903	1043	0.0	0.0	6.1	8.5	25.4	3.6
3	50.9	27.8	39.4	4.8	3.5	3.8	13	8	4	1	-7777	0	498	555	644	796	0.0	0.0	16.1	2.2	20.6	0.2
4	62.5	38.8	50.6	4.6	2.9	3.6	66	48	28	9	1	1	197	238	308	439	0.0	0.1	25.7	0.1	7.3	0.0
5	72.1	50.8	61.5	3.2	3.5	3.0	233	187	125	51	13	6	33	49	80	161	0.0	0.2	31.0	0.0	0.7	0.0
6	80.8	60.1	70.4	3.1	2.5	2.6	464	404	318	184	80	51	-7777	1	4	21	0.3	1.8	30.0	0.0	0.0	0.0
7	85.3	64.7	75.0	2.9	1.9	2.2	620	558	465	311	170	122	0	-7777	-7777	1	0.2	6.6	31.0	0.0	0.0	0.0
8	84.7	63.0	73.9	3.9	2.7	3.1	584	522	430	280	150	109	-7777	-7777	-7777	6	0.6	7.3	31.0	0.0	0.0	0.0
9	76.7	52.8	64.7	3.6	2.9	3.1	312	262	194	101	41	26	19	29	51	108	0.0	1.7	29.9	0.0	0.4	0.0
10	64.7	40.8	52.7	3.2	2.8	2.6	85	62	35	11	3	1	155	193	260	391	0.0	0.0	28.3	0.0	6.5	0.0
11	50.0	28.7	39.3	5.6	4.1	4.6	9	5	2	-7777	-7777	0	479	535	622	770	0.0	0.0	15.7	2.4	19.2	0.1
12	35.5	16.6	26.1	6.4	5.8	5.9	-7777	-7777	-7777	0	0	0	897	959	1052	1207	0.0	0.0	4.0	11.6	28.7	3.0
Summary	61.3	39.5	50.4	4.5	3.7	3.9	2387	2056	1601	948	458	316	4022	4421	5060	6234	1.1	17.7	252.0	38.6	138.9	12.4

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**Summary of
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1981-2010**

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **GRANT CITY, MO US**

GHCND:USC00233369
Elev: 1130 ft. Lat: 40.486° N Lon: 94.414° W

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	.25	.50	.75
1	0.77	3.1	2.2	0.4	0.1	0.32	0.70	1.08
2	1.36	4.3	3.0	0.8	0.2	0.67	1.13	1.77
3	2.28	6.4	5.0	1.5	0.6	1.18	2.28	3.19
4	3.26	7.7	6.0	2.4	0.8	1.47	3.17	4.70
5	4.80	10.0	8.6	3.4	1.1	3.26	4.88	5.78
6	5.09	8.7	6.8	3.5	1.3	3.87	4.76	6.32
7	4.90	8.4	7.1	3.3	1.6	2.97	4.47	5.83
8	3.58	7.0	5.6	2.2	0.9	1.63	2.54	4.76
9	3.12	6.2	5.0	2.3	0.8	1.56	2.74	4.13
10	3.19	7.0	5.4	1.9	0.9	2.17	2.84	4.43
11	2.23	5.6	4.4	1.5	0.4	1.53	2.03	2.80
12	1.44	4.7	3.3	1.1	0.3	0.75	1.42	1.81
Summary	36.02	79.1	62.4	24.3	9.0	21.38	32.96	46.60

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 www.ncdc.noaa.gov

Station: **GRANT CITY, MO US**

GHCND:USC00233369
 Elev: 1130 ft. Lat: 40.486° N Lon: 94.414° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.9	1.7	1.6	0.6	0.2	0.0	9.7	6.0	3.1	0.4	0.0	1.0	5.0
2	5.4	2.2	2.1	0.8	0.3	0.0	10.8	6.4	3.1	0.0	0.5	5.0	10.3
3	2.7	1.3	1.1	0.3	0.1	0.0	2.1	1.1	0.2	0.0	0.0	1.0	2.0
4	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	0.1	-7777	-7777	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	1.3	1.0	0.7	0.3	-7777	0.0	1.4	0.5	0.1	0.0	0.0	0.5	1.5
12	4.8	2.0	1.9	0.7	0.2	0.0	6.8	4.0	2.2	0.2	0.0	2.0	9.0
Summary	17.4	8.5	7.6	2.8	0.9	0.0	31.0	18.0	8.7	0.6	0.5	9.5	27.8

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **GRANT CITY, MO US**

GHCND:USC00233369
Elev: 1130 ft. Lat: 40.486° N Lon: 94.414° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	23	128	342	665	913	1085	1049	742	408	123	12
45	1	8	70	225	511	763	930	894	594	276	65	3
50	-7777	2	33	131	364	613	775	739	448	165	28	1
55	-7777	1	13	66	233	464	620	584	312	85	9	-7777
60	0	-7777	4	28	125	318	465	430	194	35	2	-7777
Growing Degree Units for Corn (Monthly)												
50/86	7	22	92	212	401	606	742	706	473	250	79	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	29	157	499	1164	2077	3162	4211	4953	5361	5484	5496
45	1	9	79	304	815	1578	2508	3402	3996	4272	4337	4340
50	0	2	35	166	530	1143	1918	2657	3105	3270	3298	3299
55	0	1	14	80	313	777	1397	1981	2293	2378	2387	2387
60	0	0	4	32	157	475	940	1370	1564	1599	1601	1601
Growing Degree Units for Corn (Monthly)												
50/86	7	29	121	333	734	1340	2082	2788	3261	3511	3590	3600

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

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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **BUNKER, MO US**

GHCND:USC00231101
 Elev: 1200 ft. Lat: 37.514° N Lon: 91.194° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.6	15.1	29.3	4.9	5.0	4.7	1	1	-7777	-7777	0	0	796	857	950	1105	0.0	0.0	9.8	5.8	29.0	3.8
2	48.6	19.6	34.1	4.3	4.9	4.2	3	2	1	-7777	0	0	588	643	726	865	0.0	0.0	13.2	3.2	24.1	1.8
3	58.1	27.6	42.9	4.3	2.2	2.9	23	15	7	1	-7777	0	399	453	539	688	0.0	0.0	23.2	0.6	20.5	0.2
4	68.7	39.1	53.9	3.7	3.3	3.2	103	78	48	16	3	1	136	171	231	349	0.0	0.1	28.6	0.0	8.1	0.0
5	76.1	48.3	62.2	2.4	3.1	2.6	245	196	131	50	10	4	22	35	62	137	0.0	0.1	31.0	0.0	0.9	0.0
6	83.4	56.7	70.0	2.8	2.3	2.4	452	393	307	176	72	42	1	2	5	24	0.0	3.1	30.0	0.0	0.0	0.0
7	87.7	59.5	73.6	2.3	1.8	1.7	577	515	422	271	134	89	0	-7777	-7777	4	0.2	11.4	31.0	0.0	0.0	0.0
8	88.0	59.0	73.5	3.7	3.0	3.2	573	512	419	270	137	95	-7777	-7777	1	6	0.6	11.6	31.0	0.0	0.0	0.0
9	80.0	50.4	65.2	2.6	2.9	2.4	322	271	199	104	38	22	16	25	43	98	0.0	2.4	30.0	0.0	1.1	0.0
10	69.5	39.1	54.3	2.9	2.4	2.2	97	69	38	9	1	-7777	119	153	214	341	0.0	-7777	30.4	0.0	8.2	0.0
11	57.8	29.6	43.7	4.5	3.9	4.0	20	13	6	-7777	-7777	0	359	412	495	639	0.0	0.0	22.0	0.3	17.8	0.1
12	45.0	18.7	31.8	5.4	5.2	5.1	1	-7777	-7777	0	0	0	719	780	872	1028	0.0	0.0	10.7	3.9	27.5	2.2
Summary	67.2	38.6	52.9	3.7	3.3	3.2	2417	2065	1578	897	395	253	3155	3531	4138	5284	0.8	28.7	290.9	13.8	137.2	8.1

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BUNKER, MO US**

GHCND:USC00231101
Elev: 1200 ft. Lat: 37.514° N Lon: 91.194° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	33	60	187	426	688	901	1041	1038	756	449	189	42
45	14	27	107	297	534	751	887	883	607	309	108	18
50	5	9	54	186	383	601	732	728	461	189	51	6
55	1	3	23	103	245	452	577	573	322	97	20	1
60	-7777	1	7	48	131	307	422	419	199	38	6	-7777
Growing Degree Units for Corn (Monthly)												
50/86	39	63	161	296	445	596	684	676	498	314	148	42

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	33	93	280	706	1394	2295	3336	4374	5130	5579	5768	5810
45	14	41	148	445	979	1730	2617	3500	4107	4416	4524	4542
50	5	14	68	254	637	1238	1970	2698	3159	3348	3399	3405
55	1	4	27	130	375	827	1404	1977	2299	2396	2416	2417
60	0	1	8	56	187	494	916	1335	1534	1572	1578	1578
Growing Degree Units for Corn (Monthly)												
50/86	39	102	263	559	1004	1600	2284	2960	3458	3772	3920	3962

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

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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **MILLER 1 E, MO US**

GHCND:USC00235594
 Elev: 1296 ft. Lat: 37.215° N Lon: 93.823° W

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	.25	.50	.75
1	2.48	@	@	@	@			
2	2.14	@	@	@	@			
3	3.72	@	@	@	@			
4	4.25	@	@	@	@			
5	5.45	@	@	@	@			
6	4.98	@	@	@	@			
7	3.95	@	@	@	@			
8	4.52	@	@	@	@			
9	5.07	@	@	@	@			
10	3.68	@	@	@	@			
11	3.89	@	@	@	@			
12	2.82	@	@	@	@			
Summary	46.95	0.0	0.0	0.0	0.0			

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **COLOMA, MO US**

GHCND:USC00231773
Elev: 834 ft. Lat: 39.532° N Lon: 93.529° W

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	.25	.50	.75
1	1.17	4.3	3.1	0.7	0.1	0.49	1.06	1.49
2	1.47	5.0	3.5	0.8	0.3	0.76	1.21	2.11
3	2.57	6.8	5.3	1.7	0.6	1.42	2.60	3.41
4	3.68	8.9	6.9	2.5	0.9	2.37	3.65	4.62
5	5.08	10.3	8.1	3.5	1.5	3.18	4.73	6.63
6	5.10	8.6	6.7	3.4	1.7	2.87	4.52	6.90
7	4.66	7.4	6.6	2.9	1.4	2.20	4.30	5.81
8	4.05	6.9	5.6	2.6	1.4	2.30	3.97	4.85
9	4.45	6.8	5.8	2.8	1.3	2.09	3.43	5.37
10	3.53	6.8	5.8	2.3	0.9	1.45	2.95	4.49
11	2.65	6.2	4.7	2.0	0.7	1.20	2.51	3.49
12	1.84	5.4	4.1	1.2	0.3	0.85	1.86	2.35
Summary	40.25	83.4	66.2	26.4	11.1	21.18	36.79	51.52

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **COLOMA, MO US**

GHCND:USC00231773
Elev: 834 ft. Lat: 39.532° N Lon: 93.529° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.2	1.7	1.5	0.6	0.2	0.0	@	@	@	@	0.3	3.0	7.8
2	4.2	2.1	1.5	0.6	0.2	-7777	@	@	@	@	0.5	3.0	6.3
3	1.5	0.7	0.6	0.2	0.1	0.0	@	@	@	@	0.0	0.0	2.0
4	0.3	0.1	0.1	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.6	0.4	0.3	-7777	0.0	0.0	@	@	@	@	0.0	0.0	1.0
12	4.1	1.9	1.7	0.5	0.1	0.0	@	@	@	@	0.7	4.0	7.2
Summary	14.9	6.9	5.7	1.9	0.6	0.0	0.0	0.0	0.0	0.0	1.5	10.0	24.3

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 National Oceanic & Atmospheric Administration
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 Service

Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **LEES SUMMIT REED WLR, MO US**

GHCND:USC00234850
 Elev: 1000 ft. Lat: 38.880° N Lon: 94.336° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.8	19.8	29.3	5.6	4.5	4.8	-7777	-7777	-7777	0	0	0	797	859	951	1107	0.0	0.0	6.3	9.1	27.1	1.9
2	44.0	23.9	34.0	5.9	5.2	5.3	2	1	-7777	-7777	0	0	591	646	729	869	0.0	0.0	9.9	5.6	20.9	0.9
3	55.3	33.4	44.3	4.5	3.2	3.6	31	21	10	2	-7777	-7777	361	413	495	642	0.0	0.0	20.0	1.2	14.0	0.0
4	65.6	43.8	54.7	4.2	3.3	3.6	115	88	55	19	4	1	124	157	214	328	0.0	0.1	27.2	0.0	3.2	0.0
5	74.3	53.6	64.0	3.1	3.1	2.9	292	240	170	77	24	13	14	25	47	110	0.0	0.1	31.0	0.0	0.1	0.0
6	82.9	62.7	72.8	2.9	2.4	2.4	534	475	386	245	124	84	-7777	1	2	11	0.1	3.2	30.0	0.0	0.0	0.0
7	87.2	66.9	77.1	2.8	1.7	2.0	683	621	528	374	227	174	0	0	-7777	1	0.5	9.8	31.0	0.0	0.0	0.0
8	86.7	65.3	76.0	4.4	2.7	3.4	651	589	496	345	206	157	-7777	-7777	-7777	4	1.0	10.6	31.0	0.0	0.0	0.0
9	78.9	56.3	67.6	3.4	2.8	2.8	388	335	259	148	66	43	10	17	31	70	0.1	2.8	30.0	0.0	0.1	0.0
10	67.6	45.1	56.3	3.1	2.4	2.4	139	106	65	22	5	2	97	126	178	290	0.0	0.1	29.1	-7777	2.7	0.0
11	53.9	34.2	44.1	5.2	3.9	4.3	26	17	7	1	-7777	0	354	405	486	629	0.0	0.0	18.6	1.4	12.6	-7777
12	40.9	22.9	31.9	5.8	5.3	5.4	2	1	-7777	0	0	0	717	779	871	1026	0.0	0.0	7.8	7.0	24.9	1.2
Summary	64.7	44.0	54.3	4.2	3.4	3.6	2863	2494	1976	1233	656	474	3065	3428	4004	5087	1.7	26.7	271.9	24.3	105.6	4.0

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Station: **LEES SUMMIT REED WLR, MO US**

GHCND:USC00234850
Elev: 1000 ft. Lat: 38.880° N Lon: 94.336° W

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	.25	.50	.75
1	1.13	5.4	2.9	0.6	0.2	0.53	0.92	1.67
2	1.77	5.3	3.5	0.9	0.4	1.04	1.60	2.41
3	2.71	8.5	5.7	1.8	0.5	1.81	2.15	3.62
4	4.06	10.2	6.7	2.8	1.2	2.32	4.14	5.31
5	5.56	12.6	8.3	3.9	1.5	2.75	5.28	7.14
6	6.29	10.6	7.6	4.2	2.0	3.65	6.51	8.40
7	4.56	9.7	6.7	3.2	1.5	2.68	4.00	5.62
8	4.35	9.0	6.3	2.9	1.3	1.89	3.56	6.11
9	4.64	8.4	5.7	3.1	1.5	2.45	3.69	6.55
10	3.80	9.1	6.1	2.8	1.0	2.25	3.47	5.26
11	2.63	7.6	4.6	1.8	0.7	1.39	2.04	3.37
12	1.84	6.6	3.8	1.3	0.2	0.90	1.69	2.58
Summary	43.34	103.0	67.9	29.3	12.0	23.66	39.05	58.04

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 Elev: 1000 ft. Lat: 38.880° N Lon: 94.336° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.8	1.7	1.3	0.6	0.3	0.0	6.0	3.3	1.7	0.0	0.0	2.0	6.0
2	4.3	1.8	1.3	0.5	0.3	0.0	4.4	2.6	1.5	0.0	0.0	3.2	6.5
3	1.7	0.5	0.4	0.2	0.1	0.0	0.7	0.4	-7777	0.0	0.0	0.0	3.0
4	0.1	0.1	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.4	0.3	-7777	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
12	3.7	1.6	1.1	0.3	0.1	0.0	4.2	2.3	1.1	0.0	0.0	2.9	6.7
Summary	13.0	6.1	4.4	1.6	0.8	0.0	15.4	8.6	4.3	0.0	0.0	8.1	22.2

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GHCND:USC00234850
Elev: 1000 ft. Lat: 38.880° N Lon: 94.336° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	26	62	214	449	743	984	1148	1116	828	511	202	42
45	8	27	129	317	588	834	993	961	678	368	120	17
50	2	9	69	202	435	684	838	806	531	241	61	6
55	-7777	2	31	115	292	534	683	651	388	139	26	2
60	-7777	-7777	10	55	170	386	528	496	259	65	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	20	43	136	264	457	669	789	755	535	306	115	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	26	88	302	751	1494	2478	3626	4742	5570	6081	6283	6325
45	8	35	164	481	1069	1903	2896	3857	4535	4903	5023	5040
50	2	11	80	282	717	1401	2239	3045	3576	3817	3878	3884
55	0	2	33	148	440	974	1657	2308	2696	2835	2861	2863
60	0	0	10	65	235	621	1149	1645	1904	1969	1976	1976
Growing Degree Units for Corn (Monthly)												
50/86	20	63	199	463	920	1589	2378	3133	3668	3974	4089	4116

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

M indicates the value is missing

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Station: **SUMMERSVILLE, MO US**

GHCND:USC00238184
 Elev: 1227 ft. Lat: 37.140° N Lon: 91.627° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.7	21.4	32.1	5.0	4.8	4.6	3	1	-7777	-7777	0	0	714	775	867	1021	0.0	0.0	9.0	6.2	25.9	1.5
2	47.7	24.9	36.3	4.8	4.8	4.6	3	2	1	-7777	0	0	527	582	664	804	0.0	0.0	12.7	3.2	20.8	0.4
3	57.6	32.7	45.2	3.8	3.1	3.2	30	20	10	2	-7777	-7777	335	388	470	617	0.0	0.0	23.0	0.7	15.5	0.0
4	67.6	42.2	54.9	3.9	3.6	3.4	111	84	52	16	2	1	114	147	205	319	0.0	0.0	28.4	0.0	4.4	0.0
5	75.3	51.9	63.6	3.1	3.8	3.1	280	228	159	71	19	9	13	23	47	115	0.0	0.1	31.0	0.0	0.2	0.0
6	83.3	60.8	72.0	2.9	2.1	2.2	512	452	363	224	105	69	-7777	1	2	12	-7777	2.8	30.0	0.0	0.0	0.0
7	87.8	65.3	76.6	2.7	2.1	2.1	668	606	513	359	212	158	0	0	0	1	0.3	11.5	31.0	0.0	0.0	0.0
8	87.5	63.6	75.5	3.6	2.6	3.0	637	575	482	331	191	143	-7777	-7777	1	4	0.4	11.6	31.0	0.0	0.0	0.0
9	79.5	54.5	67.0	3.1	2.9	2.6	369	315	238	128	52	32	9	15	28	68	-7777	1.7	30.0	0.0	0.2	0.0
10	69.2	43.9	56.5	2.9	2.8	2.4	134	101	61	19	3	1	86	115	168	281	0.0	-7777	30.3	0.0	3.5	0.0
11	56.7	33.9	45.3	4.6	3.2	3.6	26	16	7	1	-7777	-7777	317	367	448	592	0.0	0.0	20.9	0.5	13.3	0.0
12	44.4	24.5	34.4	5.2	5.1	5.0	3	2	1	-7777	0	0	640	701	793	947	0.0	0.0	9.9	4.5	24.3	0.4
Summary	66.6	43.3	55.0	3.8	3.4	3.3	2776	2402	1887	1151	584	413	2755	3114	3693	4781	0.7	27.7	287.2	15.1	108.1	2.3

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Station: **SUMMERSVILLE, MO US**

GHCND:USC00238184
Elev: 1227 ft. Lat: 37.140° N Lon: 91.627° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	77	223	453	732	961	1133	1102	810	515	218	59
45	21	35	131	318	577	811	978	947	660	369	130	27
50	8	13	68	201	423	661	823	792	512	239	65	11
55	3	3	30	111	280	512	668	637	369	134	26	3
60	-7777	1	10	52	159	363	513	482	238	61	7	1
Growing Degree Units for Corn (Monthly)												
50/86	37	59	155	288	461	648	773	739	528	325	138	39

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	126	349	802	1534	2495	3628	4730	5540	6055	6273	6332
45	21	56	187	505	1082	1893	2871	3818	4478	4847	4977	5004
50	8	21	89	290	713	1374	2197	2989	3501	3740	3805	3816
55	3	6	36	147	427	939	1607	2244	2613	2747	2773	2776
60	0	1	11	63	222	585	1098	1580	1818	1879	1886	1887
Growing Degree Units for Corn (Monthly)												
50/86	37	96	251	539	1000	1648	2421	3160	3688	4013	4151	4190

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

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Station: **FARMINGTON, MO US**

GHCND:USC00232809
Elev: 928 ft. Lat: 37.792° N Lon: 90.410° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.2	22.1	31.6	4.9	4.4	4.5	2	1	-7777	-7777	0	0	726	787	879	1034	0.0	0.0	7.7	7.0	25.2	1.1
2	46.4	25.9	36.1	4.5	4.3	4.2	4	2	1	-7777	0	0	531	586	669	808	0.0	0.0	11.1	3.9	19.9	0.6
3	56.7	34.5	45.6	4.0	3.1	3.4	36	25	14	3	-7777	-7777	327	379	460	605	0.0	0.0	21.3	0.6	13.3	0.0
4	67.4	44.1	55.7	3.9	3.3	3.3	128	100	64	24	5	3	106	137	191	302	0.0	0.3	27.8	0.0	3.4	0.0
5	75.0	53.0	64.0	3.1	3.7	3.1	293	241	171	81	24	12	14	24	47	112	0.0	0.1	31.0	0.0	-7777	0.0
6	83.3	62.0	72.7	2.8	2.6	2.4	530	470	382	242	122	83	-7777	1	2	12	-7777	4.2	30.0	0.0	0.0	0.0
7	87.3	66.2	76.7	2.3	1.9	1.8	674	612	519	365	217	162	0	0	-7777	1	0.3	10.6	31.0	0.0	0.0	0.0
8	86.7	64.2	75.4	3.7	3.1	3.1	634	572	479	327	189	140	-7777	-7777	-7777	3	0.6	9.0	31.0	0.0	0.0	0.0
9	78.7	55.4	67.1	2.9	3.0	2.7	371	316	239	129	54	34	9	15	28	68	0.0	1.8	30.0	0.0	0.2	0.0
10	68.1	44.5	56.3	2.7	3.0	2.5	132	99	62	21	4	2	92	121	176	291	0.0	-7777	30.1	0.0	3.4	0.0
11	55.5	35.0	45.2	4.5	3.1	3.6	30	19	9	2	-7777	-7777	322	372	452	594	0.0	0.0	19.6	0.3	12.3	-7777
12	43.2	24.7	33.9	5.1	5.4	5.1	3	1	1	-7777	0	0	655	716	808	962	0.0	0.0	9.2	5.3	23.3	0.5
Summary	65.8	44.3	55.0	3.7	3.4	3.3	2837	2458	1941	1194	615	436	2782	3138	3712	4792	0.9	26.0	279.8	17.1	101.0	2.2

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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	.25	.50	.75
1	2.34	7.2	4.6	1.6	0.6	1.35	2.00	3.11
2	2.75	7.3	4.9	1.8	0.8	1.85	2.68	3.37
3	3.52	10.3	6.8	2.3	0.8	2.49	3.06	4.30
4	4.44	11.6	7.5	2.9	1.2	2.83	3.80	5.25
5	5.09	11.8	8.3	3.2	1.3	3.57	4.64	6.40
6	3.71	9.6	6.1	2.5	1.1	2.19	2.93	5.23
7	3.95	8.9	6.3	2.6	1.3	2.04	3.52	6.05
8	3.95	7.9	5.6	2.8	1.0	2.62	3.93	5.51
9	3.45	7.2	4.6	2.0	0.9	1.56	3.26	4.72
10	3.24	8.6	5.6	2.5	0.9	1.85	2.25	4.39
11	4.68	9.5	6.6	3.1	1.4	2.31	4.26	6.55
12	3.54	9.1	5.6	2.4	1.0	2.01	2.58	4.00
Summary	44.66	109.0	72.5	29.7	12.3	26.67	38.91	58.88

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Elev: 928 ft. Lat: 37.792° N Lon: 90.410° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.0	1.4	0.9	0.4	0.1	0.0	3.3	0.9	0.5	0.0	0.0	2.6	4.0
2	3.2	1.8	1.2	0.4	0.2	-7777	3.9	1.5	0.9	0.7	0.7	1.6	4.3
3	1.0	0.7	0.4	0.2	-7777	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.9
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	-7777	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	-7777	0.1	-7777	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12	3.3	1.3	0.9	0.4	0.1	0.0	2.9	2.0	1.1	-7777	0.0	0.9	3.8
Summary	10.5	5.3	3.4	1.4	0.4	0.0	10.9	4.6	2.5	0.7	0.7	5.1	13.0

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FARMINGTON, MO US**

GHCND:USC00232809
Elev: 928 ft. Lat: 37.792° N Lon: 90.410° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	73	234	476	744	980	1139	1099	811	508	219	55
45	19	33	144	340	589	829	984	944	662	362	133	24
50	8	12	78	222	436	679	829	789	514	234	69	9
55	2	4	36	128	293	530	674	634	371	132	30	3
60	-7777	1	14	64	171	382	519	479	239	62	9	1
Growing Degree Units for Corn (Monthly)												
50/86	29	51	148	292	467	663	783	744	527	312	128	33

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	116	350	826	1570	2550	3689	4788	5599	6107	6326	6381
45	19	52	196	536	1125	1954	2938	3882	4544	4906	5039	5063
50	8	20	98	320	756	1435	2264	3053	3567	3801	3870	3879
55	2	6	42	170	463	993	1667	2301	2672	2804	2834	2837
60	0	1	15	79	250	632	1151	1630	1869	1931	1940	1941
Growing Degree Units for Corn (Monthly)												
50/86	29	80	228	520	987	1650	2433	3177	3704	4016	4144	4177

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

M indicates the value is missing

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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **PLATTSBURG, MO US**

GHCND:USC00236739

Elev: 905 ft. Lat: 39.567° N Lon: 94.454° W

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	.25	.50	.75
1	1.03	3.8	2.7	0.6	0.1	0.53	1.01	1.36
2	1.42	4.8	3.3	0.7	0.2	0.62	1.33	2.27
3	2.39	6.3	4.7	1.6	0.5	1.30	2.47	3.35
4	3.72	8.3	6.5	2.1	0.9	2.37	3.86	4.59
5	5.64	10.0	7.8	3.9	1.6	3.23	5.89	8.13
6	5.17	8.2	7.2	3.5	1.5	2.96	4.89	6.19
7	5.70	6.8	5.6	2.7	1.6	2.51	5.00	6.96
8	3.95	6.8	5.2	2.6	1.3	2.40	3.68	5.43
9	4.52	6.6	5.8	3.1	1.3	2.33	3.71	5.82
10	3.20	7.5	5.9	2.6	0.9	1.65	3.13	4.26
11	1.94	4.9	3.7	1.5	0.4	1.04	1.80	2.39
12	1.64	5.1	3.5	1.1	0.5	0.78	1.56	2.19
Summary	40.32	79.1	61.9	26.0	10.8	21.72	38.33	52.94

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **PLATTSBURG, MO US**

GHCND:USC00236739
Elev: 905 ft. Lat: 39.567° N Lon: 94.454° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.3	1.6	0.9	0.4	0.1	0.0	@	@	@	@	0.0	2.5	5.4
2	4.6	1.9	1.5	0.7	0.2	0.0	@	@	@	@	0.7	4.3	7.9
3	1.8	0.7	0.7	0.1	0.1	0.0	@	@	@	@	0.0	0.0	2.1
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.5	0.4	0.3	0.0	0.0	0.0	@	@	@	@	0.0	0.0	1.0
12	3.1	1.6	1.3	0.3	0.2	0.0	@	@	@	@	0.0	1.2	5.5
Summary	13.3	6.2	4.7	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.7	8.0	21.9

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: ROSEBUD, MO US

GHCND:USC00237300
 Elev: 960 ft. Lat: 38.450° N Lon: 91.376° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.8	17.7	28.7	5.4	4.7	4.8	1	1	-7777	0	0	0	815	876	969	1124	0.0	0.0	7.4	8.9	27.4	2.3
2	44.9	21.4	33.2	4.9	4.8	4.6	3	2	1	-7777	0	0	615	669	752	892	0.0	0.0	10.1	5.1	23.4	1.5
3	55.0	30.1	42.5	4.3	3.5	3.7	26	18	9	2	-7777	-7777	412	466	550	698	0.0	-7777	19.7	1.0	18.4	0.1
4	66.2	39.8	53.0	4.2	3.5	3.6	101	77	48	15	2	1	161	197	258	375	0.0	0.1	26.8	-7777	7.3	0.0
5	74.4	49.9	62.2	3.0	3.8	3.2	247	199	136	56	15	7	25	40	69	145	0.0	1.0	30.9	0.0	0.3	0.0
6	82.6	59.3	70.9	3.1	2.3	2.4	479	420	333	200	92	60	1	2	5	22	0.0	3.6	30.0	0.0	0.0	0.0
7	87.4	63.6	75.5	2.5	2.1	1.8	635	573	480	327	185	136	0	0	-7777	2	0.5	10.3	31.0	0.0	0.0	0.0
8	87.0	61.9	74.5	3.6	3.3	3.2	603	541	449	300	167	123	-7777	-7777	1	7	0.4	10.5	31.0	0.0	0.0	0.0
9	78.7	51.9	65.3	3.0	2.8	2.5	326	275	202	105	41	25	17	26	43	96	-7777	2.2	30.0	0.0	0.4	0.0
10	67.9	41.1	54.5	3.0	2.4	2.2	104	77	45	14	3	1	120	154	216	339	0.0	0.0	29.5	0.0	5.4	0.0
11	55.5	31.5	43.5	4.8	3.5	3.8	23	16	8	2	-7777	-7777	368	421	503	647	0.0	0.0	19.4	1.0	16.4	0.0
12	42.2	20.9	31.6	5.7	5.5	5.5	2	1	-7777	0	0	0	729	790	882	1037	0.0	0.0	8.7	6.4	26.0	1.7
Summary	65.1	40.8	53.0	4.0	3.5	3.4	2550	2200	1711	1021	505	353	3263	3641	4248	5384	0.9	27.7	274.5	22.4	125.0	5.6

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Service

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ROSEBUD, MO US**

GHCND:USC00237300
Elev: 960 ft. Lat: 38.450° N Lon: 91.376° W

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	.25	.50	.75
1	2.70	7.2	4.6	1.5	0.6	1.24	2.71	3.87
2	2.38	7.8	4.7	1.6	0.6	1.31	2.27	3.56
3	3.66	10.3	6.8	2.8	1.0	2.66	3.31	4.52
4	4.33	11.1	7.6	3.1	1.1	2.70	3.60	4.89
5	5.93	12.0	8.0	3.5	1.8	3.86	5.17	6.80
6	4.46	10.4	7.3	3.1	1.2	3.12	3.90	4.97
7	3.89	8.7	6.1	2.7	1.2	2.11	2.86	5.00
8	3.28	7.8	5.2	2.1	0.9	1.95	2.84	3.90
9	4.24	7.9	5.4	2.6	1.5	2.26	3.29	5.44
10	3.77	9.1	6.1	2.7	1.1	2.20	3.18	4.83
11	4.08	9.2	6.6	2.8	1.1	2.63	4.00	5.43
12	3.07	8.9	5.4	1.9	1.0	1.73	2.65	3.67
Summary	45.79	110.4	73.8	30.4	13.1	27.77	39.78	56.88

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: ROSEBUD, MO US

GHCND:USC00237300
 Elev: 960 ft. Lat: 38.450° N Lon: 91.376° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.5	2.5	1.4	0.4	0.1	0.0	6.3	2.7	0.7	-7777	0.6	4.0	6.1
2	3.6	2.3	1.3	0.4	0.2	-7777	4.4	2.1	1.0	0.6	0.3	2.0	4.8
3	1.4	0.6	0.4	0.1	-7777	0.0	1.0	0.4	0.2	0.1	0.0	0.0	1.9
4	-7777	-7777	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.8	0.4	0.3	0.1	-7777	0.0	0.4	0.2	-7777	0.0	0.0	0.0	1.0
12	3.5	2.4	1.1	0.4	0.1	0.0	5.0	3.0	1.6	0.0	0.3	2.0	5.6
Summary	12.8	8.2	4.5	1.4	0.4	0.0	17.1	8.4	3.5	0.7	1.2	8.0	19.4

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: ROSEBUD, MO US

GHCND:USC00237300
 Elev: 960 ft. Lat: 38.450° N Lon: 91.376° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	31	55	178	401	687	928	1100	1068	759	454	189	41
45	13	26	106	278	533	778	945	913	610	315	110	18
50	5	10	56	176	383	628	790	758	465	196	56	7
55	1	3	26	101	247	479	635	603	326	104	23	2
60	-7777	1	9	48	136	333	480	449	202	45	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	28	49	132	263	426	617	741	710	493	296	132	33

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	31	86	264	665	1352	2280	3380	4448	5207	5661	5850	5891
45	13	39	145	423	956	1734	2679	3592	4202	4517	4627	4645
50	5	15	71	247	630	1258	2048	2806	3271	3467	3523	3530
55	1	4	30	131	378	857	1492	2095	2421	2525	2548	2550
60	0	1	10	58	194	527	1007	1456	1658	1703	1711	1711
Growing Degree Units for Corn (Monthly)												
50/86	28	77	209	472	898	1515	2256	2966	3459	3755	3887	3920

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
 -7777: a non-zero value that would round to zero
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BOLIVAR 1 NE, MO US**

GHCND:USC00230789
Elev: 1034 ft. Lat: 37.617° N Lon: 93.391° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.6	21.4	32.0	5.1	4.4	4.5	2	1	-7777	-7777	0	0	715	776	868	1023	0.0	0.0	9.1	6.6	26.0	1.1
2	47.6	25.5	36.6	4.9	4.8	4.7	6	4	1	-7777	-7777	0	523	576	658	797	0.0	0.0	12.1	3.5	20.8	0.9
3	57.6	34.3	45.9	3.9	3.8	3.5	40	28	15	5	-7777	-7777	320	370	451	595	0.0	0.0	21.5	0.6	12.9	0.1
4	67.6	43.5	55.6	3.9	3.3	3.4	130	101	65	26	6	3	113	144	198	309	0.0	0.1	27.8	0.0	3.4	0.0
5	75.8	53.8	64.8	3.2	3.1	3.0	317	263	190	92	31	17	13	21	41	99	0.0	0.2	30.9	0.0	0.2	0.0
6	83.9	62.7	73.3	2.9	2.3	2.4	549	490	401	258	134	93	-7777	1	2	9	0.1	4.4	30.0	0.0	0.0	0.0
7	88.8	66.9	77.9	2.3	2.1	1.8	708	646	553	399	250	194	0	0	-7777	1	0.4	13.8	31.0	0.0	0.0	0.0
8	88.9	65.5	77.2	3.5	2.8	2.9	688	626	533	381	237	184	-7777	-7777	-7777	3	1.0	14.6	31.0	0.0	0.0	0.0
9	80.8	56.0	68.4	3.0	3.2	2.8	412	357	279	165	79	55	10	15	27	63	0.1	3.5	30.0	0.0	0.3	0.0
10	69.7	44.1	56.9	2.8	2.8	2.3	147	112	70	24	6	3	88	116	166	275	0.0	0.1	29.9	0.0	3.6	0.0
11	57.4	34.8	46.1	4.7	3.4	3.5	35	24	12	3	-7777	-7777	302	351	429	570	0.0	0.0	21.3	0.5	12.6	-7777
12	45.0	24.6	34.8	5.5	4.6	4.9	5	3	1	-7777	0	0	631	691	782	936	0.0	0.0	10.8	4.5	24.0	0.6
Summary	67.1	44.4	55.8	3.8	3.4	3.3	3039	2655	2120	1353	743	549	2715	3061	3622	4680	1.6	36.7	285.4	15.7	103.8	2.7

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BOLIVAR 1 NE, MO US**

GHCND:USC00230789
Elev: 1034 ft. Lat: 37.617° N Lon: 93.391° W

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	.25	.50	.75
1	2.24	6.8	4.2	1.4	0.5	1.04	1.95	3.40
2	2.41	7.1	4.3	1.7	0.6	1.61	2.21	2.96
3	3.63	10.2	6.7	2.6	0.7	2.15	3.11	4.67
4	4.45	10.3	7.3	3.0	1.2	2.93	3.94	5.69
5	5.83	12.5	8.5	4.1	1.9	3.84	5.05	7.37
6	5.15	10.9	8.0	3.4	1.5	2.65	4.10	7.31
7	4.43	8.3	5.6	3.1	1.3	2.33	3.84	5.98
8	3.57	7.2	4.9	2.5	1.0	2.59	3.15	4.91
9	4.52	8.2	5.5	2.8	1.3	1.99	3.59	5.27
10	4.11	9.6	6.0	2.5	1.1	1.60	3.31	6.39
11	3.94	8.7	5.9	2.7	1.4	2.00	3.49	5.44
12	2.94	7.7	4.9	2.1	1.0	1.47	2.65	3.52
Summary	47.22	107.5	71.8	31.9	13.5	26.20	40.39	62.91

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
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 Service

**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **BOLIVAR 1 NE, MO US**

GHCND:USC00230789
 Elev: 1034 ft. Lat: 37.617° N Lon: 93.391° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	48	83	244	472	769	999	1173	1153	852	527	238	64
45	20	41	149	338	614	849	1018	998	702	382	146	30
50	8	18	83	222	462	699	863	843	555	253	77	13
55	2	6	40	130	317	549	708	688	412	147	35	5
60	-7777	1	15	65	190	401	553	533	279	70	12	1
Growing Degree Units for Corn (Monthly)												
50/86	39	63	161	294	487	680	801	775	561	336	151	46

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	48	131	375	847	1616	2615	3788	4941	5793	6320	6558	6622
45	20	61	210	548	1162	2011	3029	4027	4729	5111	5257	5287
50	8	26	109	331	793	1492	2355	3198	3753	4006	4083	4096
55	2	8	48	178	495	1044	1752	2440	2852	2999	3034	3039
60	0	1	16	81	271	672	1225	1758	2037	2107	2119	2120
Growing Degree Units for Corn (Monthly)												
50/86	39	102	263	557	1044	1724	2525	3300	3861	4197	4348	4394

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.gov

GHCND:USC00235098

Elev: 512 ft. Lat: 39.451° N Lon: 91.046° W

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **LOUISIANA, MO US**

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	.25	.50	.75
1	1.69	6.9	3.6	0.9	0.3	0.56	1.72	2.54
2	1.83	6.5	4.2	1.2	0.4	1.09	1.84	2.33
3	2.75	9.1	6.1	1.8	0.5	1.84	2.76	3.66
4	3.48	9.4	6.8	2.3	0.7	2.23	3.04	4.64
5	4.07	11.1	7.9	2.4	1.1	2.11	3.97	5.20
6	3.95	9.0	6.6	2.5	1.1	2.39	3.50	5.38
7	4.01	8.5	6.2	2.6	1.3	2.30	3.03	4.93
8	3.27	7.3	5.4	2.3	0.9	1.49	3.19	4.88
9	3.32	7.6	5.3	2.1	0.9	1.65	2.17	3.30
10	2.78	8.7	5.9	1.9	0.5	1.67	2.38	3.36
11	3.48	8.5	6.1	2.6	0.9	1.54	3.35	4.38
12	2.45	8.2	4.8	1.7	0.6	1.57	2.38	3.09
Summary	37.08	100.8	68.9	24.3	9.2	20.44	33.33	47.69

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LOUISIANA, MO US**

GHCND:USC00235098
Elev: 512 ft. Lat: 39.451° N Lon: 91.046° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.9	2.3	1.1	0.5	0.1	0.0	6.9	3.0	1.7	0.5	0.8	2.5	5.5
2	2.1	1.4	0.6	0.2	0.1	0.0	4.1	2.4	0.8	0.0	0.0	1.0	2.3
3	1.0	0.5	0.3	0.1	0.0	0.0	0.8	0.3	-7777	0.0	0.0	0.0	2.0
4	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.2	0.1	-7777	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
12	3.0	2.4	1.4	0.4	0.1	-7777	4.1	2.1	1.0	0.1	0.0	2.7	3.9
Summary	10.3	6.8	3.5	1.2	0.3	0.0	16.2	7.9	3.5	0.6	0.8	6.2	13.7

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ST LOUIS LAMBERT INTERNATIONAL AIRPORT, MO US**

GHCND:USW00013994
 Elev: 531 ft. Lat: 38.752° N Lon: 90.374° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.9	23.7	31.8	5.4	4.7	4.9	2	1	-7777	0	0	0	721	782	874	1029	0.0	0.0	6.8	8.3	24.0	0.8
2	45.0	27.6	36.3	5.1	4.5	4.7	5	3	1	-7777	-7777	0	528	582	665	804	0.0	0.0	9.6	4.7	18.0	0.4
3	55.9	36.6	46.3	4.3	3.0	3.5	45	33	20	7	1	1	316	366	446	588	0.0	0.0	20.1	0.7	10.5	0.0
4	67.4	47.2	57.3	4.0	3.5	3.6	158	126	86	39	13	7	89	117	167	270	0.0	0.3	27.9	0.0	1.1	0.0
5	76.3	57.2	66.8	3.3	3.5	3.3	370	314	236	128	55	35	6	12	27	74	0.0	1.2	31.0	0.0	0.0	0.0
6	85.1	66.8	75.9	2.8	2.3	2.5	628	568	479	334	200	153	-7777	-7777	1	5	0.1	8.4	30.0	0.0	0.0	0.0
7	89.1	71.0	80.0	2.4	1.9	2.0	776	714	621	467	313	254	0	0	0	-7777	0.7	13.9	31.0	0.0	0.0	0.0
8	87.9	69.4	78.6	3.3	3.0	3.1	733	671	578	424	274	219	0	0	-7777	1	1.1	11.4	31.0	0.0	0.0	0.0
9	80.2	60.6	70.4	2.7	2.3	2.4	466	409	326	202	103	74	4	7	15	40	0.1	3.5	30.0	0.0	0.0	0.0
10	68.5	49.0	58.7	3.0	2.6	2.6	182	144	96	41	12	7	65	89	135	235	0.0	0.1	30.1	0.0	0.7	0.0
11	55.5	38.1	46.8	4.7	3.3	3.8	42	29	16	4	1	-7777	288	335	413	550	0.0	0.0	19.2	0.4	8.6	0.0
12	42.5	26.9	34.7	5.7	5.5	5.5	4	3	1	-7777	0	0	633	694	785	939	0.0	0.0	8.4	5.7	21.0	0.5
Summary	66.1	47.8	57.0	3.9	3.3	3.5	3411	3015	2460	1646	972	750	2650	2984	3528	4535	2.0	38.8	275.1	19.8	83.9	1.7

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National Oceanic & Atmospheric Administration
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ST LOUIS LAMBERT INTERNATIONAL AIRPORT, MO US**

GHCND:USW00013994
Elev: 531 ft. Lat: 38.752° N Lon: 90.374° W

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	.25	.50	.75
1	2.40	8.9	4.3	1.5	0.6	1.12	1.98	3.27
2	2.24	8.0	4.6	1.5	0.4	1.37	2.05	3.11
3	3.32	10.3	6.7	2.2	0.5	2.41	3.05	3.67
4	3.69	11.3	7.3	2.5	0.7	2.17	3.22	4.26
5	4.72	11.9	7.6	3.1	1.3	2.81	4.04	5.84
6	4.28	10.0	6.6	3.0	1.3	2.34	3.66	5.82
7	4.11	8.9	5.8	2.6	1.2	2.25	4.10	5.23
8	2.99	8.2	5.3	2.0	0.9	2.22	2.92	3.77
9	3.13	7.4	4.6	1.9	1.1	1.24	2.53	3.73
10	3.33	8.7	5.7	2.3	0.8	1.96	2.60	4.78
11	3.91	9.6	6.1	2.7	1.2	2.37	3.36	5.35
12	2.84	9.4	5.4	1.7	0.7	1.48	2.07	3.69
Summary	40.96	112.6	70.0	27.0	10.7	23.74	35.58	52.52

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1981-2010**

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ST LOUIS LAMBERT INTERNATIONAL AIRPORT, MO US**

GHCND:USW00013994
Elev: 531 ft. Lat: 38.752° N Lon: 90.374° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.6	4.7	1.7	0.5	0.2	0.0	7.2	3.1	1.7	-7777	2.0	4.0	7.0
2	4.3	3.4	1.0	0.4	0.2	0.0	4.7	2.1	1.3	0.6	1.0	2.7	6.9
3	2.3	1.7	0.6	0.2	0.1	0.1	1.5	0.7	0.3	0.1	0.1	0.7	3.1
4	0.4	0.3	0.2	-7777	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.7	0.7	0.3	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	1.6
12	4.4	3.7	1.4	0.4	0.2	0.0	5.1	3.1	1.4	0.0	0.7	3.3	7.8
Summary	17.7	14.5	5.2	1.5	0.7	0.1	19.1	9.1	4.7	0.7	3.8	10.7	26.4

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ST LOUIS LAMBERT INTERNATIONAL AIRPORT, MO US**

GHCND:USW00013994
 Elev: 531 ft. Lat: 38.752° N Lon: 90.374° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	45	80	251	522	829	1078	1241	1198	912	583	253	65
45	19	39	156	383	674	928	1086	1043	762	433	159	30
50	7	16	88	258	520	778	931	888	612	295	88	12
55	2	5	45	158	370	628	776	733	466	182	42	4
60	-7777	1	20	86	236	479	621	578	326	96	16	1
Growing Degree Units for Corn (Monthly)												
50/86	27	48	143	303	526	745	865	830	602	338	133	34

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	45	125	376	898	1727	2805	4046	5244	6156	6739	6992	7057
45	19	58	214	597	1271	2199	3285	4328	5090	5523	5682	5712
50	7	23	111	369	889	1667	2598	3486	4098	4393	4481	4493
55	2	7	52	210	580	1208	1984	2717	3183	3365	3407	3411
60	0	1	21	107	343	822	1443	2021	2347	2443	2459	2460
Growing Degree Units for Corn (Monthly)												
50/86	27	75	218	521	1047	1792	2657	3487	4089	4427	4560	4594

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLARKSVILLE LOCK AND DAM 24, MO US**

GHCND:USC00231640
 Elev: 460 ft. Lat: 39.373° N Lon: 90.905° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	36.5	18.8	27.7	5.3	5.5	5.3	-7777	-7777	0	0	0	0	848	910	1003	1158	0.0	0.0	4.6	11.1	27.6	2.4
2	41.2	23.0	32.1	5.3	4.9	4.9	1	-7777	-7777	0	0	0	642	697	781	921	0.0	0.0	6.7	6.1	23.4	0.7
3	52.6	31.8	42.2	4.5	3.0	3.6	20	13	6	1	-7777	-7777	417	472	558	708	0.0	0.0	17.1	1.4	16.1	0.0
4	65.2	42.9	54.0	4.5	3.5	3.8	101	76	46	15	3	1	129	164	224	344	0.0	0.1	27.3	0.0	2.9	0.0
5	74.2	53.0	63.6	3.4	3.7	3.4	283	232	164	77	27	16	16	27	52	121	0.0	1.1	30.9	0.0	0.2	0.0
6	83.5	62.6	73.1	2.9	2.2	2.4	541	482	393	253	131	91	-7777	-7777	2	12	0.0	5.2	30.0	0.0	0.0	0.0
7	88.1	66.9	77.5	2.7	2.1	1.9	697	635	542	388	237	182	0	-7777	-7777	1	0.9	11.7	31.0	0.0	0.0	0.0
8	87.7	65.5	76.6	2.6	2.9	2.4	669	607	514	361	213	160	0	-7777	-7777	2	0.7	10.8	31.0	0.0	0.0	0.0
9	78.8	56.7	67.7	3.1	2.6	2.6	388	332	253	140	59	37	6	10	21	57	0.0	2.4	30.0	0.0	0.0	0.0
10	67.3	45.0	56.1	3.0	2.4	2.5	124	93	57	19	4	2	89	120	177	294	0.0	0.1	29.4	0.0	1.4	0.0
11	53.4	34.6	44.0	5.0	3.3	3.9	21	14	7	1	-7777	-7777	351	404	487	631	0.0	0.0	17.8	0.8	12.1	0.0
12	39.8	22.9	31.3	6.1	5.6	5.7	1	1	-7777	0	0	0	734	796	888	1043	0.0	0.0	6.4	7.2	25.0	0.6
Summary	64.0	43.6	53.8	4.0	3.5	3.5	2846	2485	1982	1255	674	489	3232	3600	4193	5292	1.6	31.4	262.2	26.6	108.7	3.7

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**Summary of
Monthly Normals
1981-2010**Station: **CLARKSVILLE LOCK AND DAM 24, MO US**

GHCND:USC00231640

Elev: 460 ft. Lat: 39.373° N Lon: 90.905° W

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	.25	.50	.75
1	1.91	8.2	4.7	1.4	0.6	0.39	1.70	2.93
2	1.69	7.3	4.2	1.2	0.3	1.09	1.63	2.06
3	3.07	9.9	6.2	2.1	0.4	2.31	3.05	4.27
4	3.73	10.7	7.2	2.9	0.9	2.69	3.41	4.60
5	4.24	11.8	8.0	2.6	1.0	2.20	3.98	6.37
6	4.32	10.5	7.8	3.1	1.5	2.61	3.84	6.16
7	3.87	8.5	6.4	2.6	0.9	2.14	3.50	4.48
8	3.25	7.3	5.8	3.0	1.2	2.01	2.94	3.87
9	3.52	7.3	4.9	2.4	1.1	1.70	2.36	4.34
10	2.99	8.7	5.6	2.0	0.6	1.90	2.67	3.67
11	3.65	8.5	6.2	2.2	0.9	2.35	3.69	4.57
12	2.43	8.9	4.6	1.1	0.4	1.54	2.10	2.98
Summary	38.67	107.6	71.6	26.6	9.8	22.93	34.87	50.30

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLARKSVILLE LOCK AND DAM 24, MO US**

GHCND:USC00231640
Elev: 460 ft. Lat: 39.373° N Lon: 90.905° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	38	160	428	732	991	1162	1134	832	503	190	33
45	5	15	89	297	577	841	1007	979	682	356	108	12
50	1	4	45	184	425	691	852	824	534	227	51	4
55	-7777	1	20	101	283	541	697	669	388	124	21	1
60	0	-7777	6	46	164	393	542	514	253	57	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	28	103	249	446	668	797	771	534	291	106	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	56	216	644	1376	2367	3529	4663	5495	5998	6188	6221
45	5	20	109	406	983	1824	2831	3810	4492	4848	4956	4968
50	1	5	50	234	659	1350	2202	3026	3560	3787	3838	3842
55	0	1	21	122	405	946	1643	2312	2700	2824	2845	2846
60	0	0	6	52	216	609	1151	1665	1918	1975	1982	1982
Growing Degree Units for Corn (Monthly)												
50/86	15	43	146	395	841	1509	2306	3077	3611	3902	4008	4029

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

M indicates the value is missing

-7777: a non-zero value that would round to zero

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **ALLEY SPRING RANGER STATION, MO US**

GHCND:USC00230088

Elev: 700 ft. Lat: 37.153° N Lon: 91.444° W

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	.25	.50	.75
1	2.86	4.7	3.8	1.6	0.6	1.59	2.69	3.67
2	3.25	4.9	4.0	2.5	1.0	1.67	2.87	4.27
3	4.44	5.4	4.8	2.8	1.3	2.34	3.41	5.25
4	3.28	5.2	4.4	2.2	1.1	2.04	3.15	3.91
5	5.41	7.1	5.7	3.7	1.8	4.16	4.96	7.05
6	3.65	6.0	5.4	3.0	1.2	1.96	3.20	4.78
7	4.42	6.1	5.1	3.6	1.8	2.75	4.05	5.75
8	3.52	4.9	4.2	2.3	1.4	2.28	3.45	4.17
9	3.99	4.7	4.0	2.5	1.4	2.18	2.69	5.43
10	3.88	5.3	4.2	2.6	1.3	2.18	3.35	5.41
11	4.63	5.6	4.7	3.1	1.8	2.13	4.39	7.06
12	3.85	5.6	4.7	2.9	1.6	2.78	3.28	4.80
Summary	47.18	65.5	55.0	32.8	16.3	28.06	41.49	61.55

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ALLEY SPRING RANGER STATION, MO US**

GHCND:USC00230088
 Elev: 700 ft. Lat: 37.153° N Lon: 91.444° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.0	1.1	0.9	0.3	0.1	0.0	@	@	@	@	0.0	1.0	5.0
2	1.4	0.5	0.5	0.2	0.2	0.0	@	@	@	@	0.0	0.0	2.0
3	1.8	0.2	0.2	0.2	0.1	0.1	@	@	@	@	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	0.6	0.5	0.3	0.2	0.1	0.0	@	@	@	@	0.0	0.0	0.2
Summary	6.8	2.3	1.9	0.9	0.5	0.1	0.0	0.0	0.0	0.0	0.0	1.0	8.2

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Summary of Monthly Normals 1981-2010

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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: JEFFERSON CITY MEMORIAL AIRPORT, MO US

GHCND:USW00003963
 Elev: 573 ft. Lat: 38.591° N Lon: 92.156° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.2	21.8	32.0	5.3	4.1	4.3	2	1	1	0	0	0	715	776	868	1023	0.0	0.0	7.9	6.5	25.0	1.2
2	47.2	26.0	36.6	5.1	4.4	4.6	4	3	1	-7777	0	0	519	574	656	795	0.0	0.0	11.3	2.6	20.9	0.1
3	57.3	34.1	45.7	3.7	3.1	3.2	37	27	15	4	-7777	-7777	325	377	459	602	0.0	0.0	21.8	0.4	14.1	0.0
4	68.4	44.2	56.3	4.3	3.2	3.5	135	104	68	26	6	3	96	126	179	287	0.0	0.3	28.2	0.0	3.0	0.0
5	76.3	54.2	65.2	3.3	3.7	3.3	325	270	195	98	36	22	7	14	33	90	0.0	0.9	31.0	0.0	0.0	0.0
6	84.7	63.5	74.1	2.8	2.3	2.3	573	513	424	280	152	109	-7777	-7777	1	7	0.1	6.9	30.0	0.0	0.0	0.0
7	89.0	68.0	78.5	2.7	2.0	1.9	728	666	573	419	267	211	0	0	0	-7777	0.9	14.5	31.0	0.0	0.0	0.0
8	87.6	65.4	76.5	3.5	2.7	2.9	666	604	511	358	214	162	0	0	-7777	2	1.0	10.7	31.0	0.0	0.0	0.0
9	79.9	56.2	68.1	2.5	2.8	2.4	396	340	259	139	58	36	5	8	18	48	0.0	2.2	30.0	0.0	0.0	0.0
10	69.6	45.4	57.5	3.1	3.2	2.7	156	121	78	30	9	4	79	106	156	263	0.0	0.2	30.5	0.0	2.3	0.0
11	56.3	35.0	45.6	5.1	3.0	3.7	30	20	10	2	-7777	-7777	310	361	441	583	0.0	0.0	20.0	0.7	13.0	0.0
12	43.6	25.2	34.4	5.5	4.2	4.8	4	3	1	-7777	0	0	643	703	795	948	0.0	0.0	9.4	5.3	23.6	0.4
Summary	66.8	44.9	55.9	3.9	3.2	3.3	3056	2672	2136	1356	742	547	2699	3045	3606	4648	2.0	35.7	282.1	15.5	101.9	1.7

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **JEFFERSON CITY MEMORIAL AIRPORT, MO US**GHCND:USW00003963
Elev: 573 ft. Lat: 38.591° N Lon: 92.156° W

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	.25	.50	.75
1	2.03	@	@	@	@			
2	2.22	@	@	@	@			
3	3.06	@	@	@	@			
4	4.27	@	@	@	@			
5	4.98	@	@	@	@			
6	4.56	@	@	@	@			
7	4.28	@	@	@	@			
8	4.26	@	@	@	@			
9	4.31	@	@	@	@			
10	3.54	@	@	@	@			
11	3.80	@	@	@	@			
12	2.65	@	@	@	@			
Summary	43.96	0.0	0.0	0.0	0.0			

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: JEFFERSON CITY MEMORIAL AIRPORT, MO US

GHCND:USW00003963
Elev: 573 ft. Lat: 38.591° N Lon: 92.156° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	41	72	226	493	783	1023	1193	1131	841	544	222	61
45	17	33	133	355	628	873	1038	976	692	396	133	28
50	6	14	73	233	473	723	883	821	542	263	68	11
55	2	4	37	135	325	573	728	666	396	156	30	4
60	1	1	15	68	195	424	573	511	259	78	10	1
Growing Degree Units for Corn (Monthly)												
50/86	34	54	152	306	491	694	817	767	548	334	136	37

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	41	113	339	832	1615	2638	3831	4962	5803	6347	6569	6630
45	17	50	183	538	1166	2039	3077	4053	4745	5141	5274	5302
50	6	20	93	326	799	1522	2405	3226	3768	4031	4099	4110
55	2	6	43	178	503	1076	1804	2470	2866	3022	3052	3056
60	1	2	17	85	280	704	1277	1788	2047	2125	2135	2136
Growing Degree Units for Corn (Monthly)												
50/86	34	88	240	546	1037	1731	2548	3315	3863	4197	4333	4370

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

M indicates the value is missing

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **UNION, MO US**

GHCND:USC00238515
Elev: 540 ft. Lat: 38.444° N Lon: 91.004° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.9	22.5	32.7	5.6	4.3	4.6	2	1	-7777	-7777	0	0	693	754	847	1001	0.0	0.0	9.0	5.7	24.8	1.1
2	48.4	26.0	37.2	5.0	4.5	4.5	5	3	2	-7777	-7777	-7777	504	558	640	779	0.0	0.0	12.7	3.2	19.8	0.6
3	58.9	34.7	46.8	4.4	3.3	3.6	45	32	19	6	1	1	299	349	428	570	0.0	0.0	23.1	0.4	13.3	0.0
4	70.4	44.5	57.4	4.1	3.4	3.5	159	126	85	36	10	5	85	112	161	263	0.0	0.5	28.8	0.0	3.4	0.0
5	77.9	53.8	65.9	3.0	3.6	3.0	343	287	210	105	38	21	7	13	28	79	0.0	1.2	31.0	0.0	0.1	0.0
6	85.9	62.8	74.4	2.7	2.3	2.2	580	521	431	287	158	114	-7777	-7777	1	6	0.2	8.2	30.0	0.0	0.0	0.0
7	90.5	67.3	78.9	2.3	1.9	1.8	741	679	586	431	279	221	0	0	0	-7777	1.4	16.8	31.0	0.0	0.0	0.0
8	89.7	65.6	77.7	3.5	2.9	3.1	702	640	547	393	247	194	0	-7777	-7777	1	2.0	15.1	31.0	0.0	0.0	0.0
9	81.6	56.4	69.0	2.9	2.4	2.3	425	369	289	170	81	55	5	9	19	50	0.1	4.7	30.0	0.0	0.1	0.0
10	70.5	45.2	57.8	3.0	2.9	2.4	157	121	76	28	6	3	69	94	143	249	0.0	0.2	30.4	0.0	3.0	0.0
11	57.8	35.6	46.7	4.8	2.7	3.4	38	26	14	3	-7777	-7777	287	335	413	552	0.0	0.0	21.4	0.3	12.2	0.0
12	44.8	25.6	35.2	5.4	5.4	5.2	5	3	1	-7777	0	0	619	679	770	924	0.0	0.0	10.4	4.5	21.7	0.9
Summary	68.3	45.0	56.6	3.9	3.3	3.3	3202	2808	2260	1459	820	614	2568	2903	3450	4474	3.7	46.7	288.8	14.1	98.4	2.6

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1981-2010**

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **UNION, MO US**

GHCND:USC00238515
Elev: 540 ft. Lat: 38.444° N Lon: 91.004° W

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	.25	.50	.75
1	2.50	7.9	4.4	1.5	0.7	1.20	2.06	3.08
2	2.41	7.5	4.7	1.5	0.6	1.42	2.27	3.87
3	3.66	10.1	7.0	2.7	0.7	2.50	3.55	4.45
4	4.25	10.8	7.3	3.1	1.0	2.81	3.83	4.92
5	5.04	11.9	7.5	3.0	1.4	2.80	4.41	6.30
6	4.19	9.7	7.1	2.9	1.3	2.48	3.83	5.20
7	4.20	8.1	6.1	2.7	1.2	2.18	3.35	5.20
8	3.66	8.4	5.7	2.4	1.0	2.50	3.53	5.01
9	3.96	7.6	5.2	2.4	1.3	1.92	2.79	4.33
10	3.48	8.5	6.0	2.4	1.0	2.07	3.01	4.80
11	4.32	9.4	6.8	2.9	1.4	1.87	3.95	6.22
12	3.26	8.9	5.5	2.1	1.1	1.77	3.18	3.79
Summary	44.93	108.8	73.3	29.6	12.7	25.52	39.76	57.17

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Monthly Normals
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www.ncdc.noaa.gov

Station: **UNION, MO US**

GHCND:USC00238515
Elev: 540 ft. Lat: 38.444° N Lon: 91.004° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.8	2.7	1.6	0.5	0.1	-7777	6.2	2.7	1.4	-7777	0.9	3.4	7.1
2	4.7	2.4	1.4	0.6	0.1	-7777	3.8	2.3	1.1	0.7	0.8	2.4	6.7
3	2.0	1.1	0.7	0.3	0.1	0.0	1.1	0.6	0.3	0.0	0.0	0.5	4.2
4	0.3	0.1	0.1	-7777	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.4	0.3	-7777	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	1.0
12	3.8	2.4	1.3	0.5	0.2	0.0	4.7	2.9	2.0	0.0	0.0	3.6	6.5
Summary	16.2	9.1	5.4	1.9	0.5	0.0	16.3	8.6	4.8	0.7	1.7	9.9	25.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **UNION, MO US**

GHCND:USC00238515
Elev: 540 ft. Lat: 38.444° N Lon: 91.004° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	48	84	259	526	801	1030	1206	1167	870	555	246	67
45	19	39	161	386	646	880	1051	1012	720	405	152	31
50	7	15	90	259	492	730	896	857	571	269	83	14
55	2	5	45	159	343	580	741	702	425	157	38	5
60	-7777	2	19	85	210	431	586	547	289	76	14	1
Growing Degree Units for Corn (Monthly)												
50/86	39	67	174	336	516	696	814	780	568	350	155	44

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	48	132	391	917	1718	2748	3954	5121	5991	6546	6792	6859
45	19	58	219	605	1251	2131	3182	4194	4914	5319	5471	5502
50	7	22	112	371	863	1593	2489	3346	3917	4186	4269	4283
55	2	7	52	211	554	1134	1875	2577	3002	3159	3197	3202
60	0	2	21	106	316	747	1333	1880	2169	2245	2259	2260
Growing Degree Units for Corn (Monthly)												
50/86	39	106	280	616	1132	1828	2642	3422	3990	4340	4495	4539

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CARTHAGE 5 S, MO US**

GHCND:USC00231356
Elev: 978 ft. Lat: 37.177° N Lon: 94.305° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.5	23.4	34.0	5.0	3.7	4.2	3	2	1	-7777	0	0	656	716	808	962	0.0	0.0	11.4	5.6	25.0	0.6
2	49.6	27.4	38.5	5.3	4.1	4.4	10	7	3	1	-7777	-7777	472	525	605	742	0.0	0.0	13.5	2.6	19.6	0.3
3	59.5	36.2	47.8	4.4	3.3	3.5	53	37	20	6	-7777	-7777	274	321	397	537	0.0	0.0	23.0	0.5	10.7	0.0
4	69.8	44.7	57.3	3.7	3.5	3.4	157	123	82	35	9	5	89	116	165	267	0.0	0.3	28.6	0.0	2.4	0.0
5	77.3	54.7	66.0	2.7	3.4	2.9	348	292	215	110	41	24	7	13	29	79	0.0	0.6	31.0	0.0	0.1	0.0
6	85.1	63.6	74.3	3.0	2.7	2.6	581	521	432	288	160	115	-7777	-7777	1	8	0.2	5.2	30.0	0.0	0.0	0.0
7	90.8	68.7	79.8	1.9	2.1	1.7	767	705	612	457	305	246	0	0	0	-7777	1.0	19.2	31.0	0.0	0.0	0.0
8	90.7	67.0	78.8	3.6	2.6	3.0	739	677	584	430	282	226	0	-7777	-7777	1	2.3	17.3	31.0	0.0	0.0	0.0
9	82.2	57.6	69.9	3.2	3.0	2.7	454	397	316	194	97	68	7	10	19	47	0.2	5.3	30.0	0.0	0.1	0.0
10	71.3	46.3	58.8	3.3	2.8	2.6	179	142	94	38	9	4	62	86	131	230	0.0	0.1	30.5	0.0	2.0	0.0
11	59.0	37.9	48.4	4.6	3.1	3.5	50	36	19	5	1	-7777	246	292	366	502	0.0	0.0	22.9	0.3	8.5	0.0
12	46.8	25.8	36.3	5.2	5.4	5.1	5	3	1	-7777	0	0	584	644	735	890	0.0	0.0	13.3	3.3	22.9	0.5
Summary	68.9	46.1	57.5	3.8	3.3	3.3	3346	2942	2379	1564	904	688	2397	2723	3256	4265	3.7	48.0	296.2	12.3	91.3	1.4

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CARTHAGE 5 S, MO US**

GHCND:USC00231356
Elev: 978 ft. Lat: 37.177° N Lon: 94.305° W

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	.25	.50	.75
1	2.12	4.1	3.0	1.0	0.4	1.09	2.09	3.36
2	2.62	5.2	3.5	1.5	0.3	0.83	2.19	3.91
3	3.11	7.4	6.0	2.0	0.7	1.79	2.80	4.00
4	4.40	7.6	6.1	2.9	1.4	2.98	4.64	5.46
5	5.42	9.6	7.8	3.8	1.5	3.24	5.58	7.10
6	4.94	9.1	7.0	3.5	2.0	3.71	4.60	5.79
7	3.38	6.5	4.9	2.2	1.1	2.31	3.14	4.25
8	3.56	5.8	4.4	2.1	1.0	1.92	3.29	5.02
9	5.32	6.3	5.1	3.1	1.6	3.04	4.77	5.97
10	4.05	7.2	5.8	2.4	1.2	2.01	3.40	5.87
11	3.54	6.1	4.7	2.2	1.2	1.87	3.55	5.06
12	2.34	4.4	3.5	1.5	0.7	1.21	2.19	3.19
Summary	44.80	79.3	61.8	28.2	13.1	26.00	42.24	58.98

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CARTHAGE 5 S, MO US**

GHCND:USC00231356
 Elev: 978 ft. Lat: 37.177° N Lon: 94.305° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.0	1.4	1.1	0.6	-7777	0.0	@	@	@	@	0.0	2.5	5.2
2	2.0	1.4	0.8	0.2	0.0	0.0	@	@	@	@	0.0	1.5	4.0
3	1.7	0.4	0.3	0.2	0.1	-7777	@	@	@	@	0.0	0.0	1.4
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.3	0.1	0.1	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
12	3.3	1.2	0.9	0.4	0.2	0.1	@	@	@	@	0.0	0.7	4.5
Summary	10.3	4.5	3.2	1.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	4.7	15.1

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CARTHAGE 5 S, MO US**

GHCND:USC00231356
 Elev: 978 ft. Lat: 37.177° N Lon: 94.305° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	65	105	287	521	806	1030	1232	1204	897	584	290	80
45	28	56	182	381	651	880	1077	1049	747	433	187	35
50	10	26	106	258	497	730	922	894	599	296	105	13
55	3	10	53	157	348	581	767	739	454	179	50	5
60	1	3	20	82	215	432	612	584	316	94	19	1
Growing Degree Units for Corn (Monthly)												
50/86	48	76	185	327	515	702	837	805	588	368	173	56

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	65	170	457	978	1784	2814	4046	5250	6147	6731	7021	7101
45	28	84	266	647	1298	2178	3255	4304	5051	5484	5671	5706
50	10	36	142	400	897	1627	2549	3443	4042	4338	4443	4456
55	3	13	66	223	571	1152	1919	2658	3112	3291	3341	3346
60	1	4	24	106	321	753	1365	1949	2265	2359	2378	2379
Growing Degree Units for Corn (Monthly)												
50/86	48	124	309	636	1151	1853	2690	3495	4083	4451	4624	4680

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CHILLICOTHE 22 ENE, MO US**

GHCND:USW00013301
 Elev: 833 ft. Lat: 39.867° N Lon: 93.147° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.8	16.9	25.9				-7777	-7777	0	0	0	0	903	965	1058	1213	0.0	0.0	4.0	12.0	27.2	3.6
2	39.9	20.2	30.1				-7777	-7777	0	0	0	0	698	754	838	978	0.0	0.0	5.8	7.2	23.2	1.0
3	52.2	31.0	41.6				18	12	7	1	0	0	433	489	577	726	0.0	0.0	16.7	1.2	17.7	0.0
4	63.2	41.1	52.2				66	46	27	6	1	0	151	192	262	392	0.0	0.0	26.6	0.0	4.2	0.0
5	72.6	52.1	62.4				243	192	126	48	10	5	16	26	53	130	0.0	0.0	31.0	0.0	0.0	0.0
6	81.2	61.6	71.4				491	432	342	198	82	50	-7777	-7777	-7777	6	0.0	0.9	30.0	0.0	0.0	0.0
7	86.0	66.0	76.0				650	589	496	341	194	140	0	0	0	1	0.3	6.7	31.0	0.0	0.0	0.0
8	84.8	64.3	74.6				605	543	451	298	160	115	-7777	-7777	-7777	3	0.3	6.3	31.0	0.0	0.0	0.0
9	77.0	54.4	65.7				330	276	201	101	36	21	9	15	30	80	0.0	1.5	30.0	0.0	0.2	0.0
10	65.1	43.1	54.1				103	77	48	19	6	3	131	167	231	357	0.0	0.3	29.5	0.0	2.8	0.0
11	51.0	31.0	41.0				5	2	1	-7777	-7777	0	425	482	570	720	0.0	0.0	16.2	1.2	16.8	0.0
12	38.1	20.4	29.3				-7777	-7777	0	0	0	0	797	859	953	1108	0.0	0.0	4.5	9.7	27.5	1.0
Summary	62.2	41.8	52.0				2511	2169	1699	1012	489	334	3563	3949	4572	5714	0.6	15.7	256.3	31.3	119.6	5.6

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Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **CHILLICOTHE 22 ENE, MO US**GHCND:USW00013301
Elev: 833 ft. Lat: 39.867° N Lon: 93.147° W

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	.25	.50	.75
1	1.15	@	@	@	@			
2	1.79	@	@	@	@			
3	2.67	@	@	@	@			
4	3.68	@	@	@	@			
5	5.43	@	@	@	@			
6	5.34	@	@	@	@			
7	4.82	@	@	@	@			
8	4.15	@	@	@	@			
9	4.61	@	@	@	@			
10	3.43	@	@	@	@			
11	2.55	@	@	@	@			
12	1.93	@	@	@	@			
Summary	41.55	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CHILLICOTHE 22 ENE, MO US**

GHCND:USW00013301
Elev: 833 ft. Lat: 39.867° N Lon: 93.147° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	34	145	374	693	942	1116	1070	771	440	127	20
45	4	14	80	248	538	792	961	915	621	300	62	7
50	1	4	41	141	387	641	805	760	473	186	22	2
55	-7777	-7777	18	66	243	491	650	605	330	103	5	-7777
60	0	0	7	27	126	342	496	451	201	48	1	0
Growing Degree Units for Corn (Monthly)												
50/86	11	26	92	214	412	635	774	732	486	256	71	12

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	49	194	568	1261	2203	3319	4389	5160	5600	5727	5747
45	4	18	98	346	884	1676	2637	3552	4173	4473	4535	4542
50	1	5	46	187	574	1215	2020	2780	3253	3439	3461	3463
55	0	0	18	84	327	818	1468	2073	2403	2506	2511	2511
60	0	0	7	34	160	502	998	1449	1650	1698	1699	1699
Growing Degree Units for Corn (Monthly)												
50/86	11	37	129	343	755	1390	2164	2896	3382	3638	3709	3721

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

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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **WAYNESVILLE 2 W, MO US**

GHCND:USC00238777
 Elev: 890 ft. Lat: 37.813° N Lon: 92.232° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.3	19.4	30.8	5.1	4.5	4.5	2	1	-7777	0	0	0	750	811	904	1058	0.0	0.0	9.3	6.9	26.5	2.0
2	46.9	22.5	34.7	5.3	4.4	4.5	3	2	1	-7777	0	0	572	626	709	848	0.0	0.0	11.9	4.3	22.6	1.2
3	57.1	31.6	44.4	4.2	3.1	3.4	32	22	12	3	-7777	-7777	362	415	498	643	0.0	0.0	21.8	0.9	16.5	0.1
4	67.0	41.6	54.3	3.8	3.5	3.3	114	87	56	20	4	2	135	168	227	341	0.0	0.1	27.7	0.0	6.3	0.0
5	74.3	51.0	62.7	3.0	3.2	2.8	258	208	143	62	17	8	21	33	61	135	0.0	-7777	30.9	0.0	0.6	0.0
6	81.5	60.1	70.8	2.6	2.4	2.1	475	415	329	195	86	53	1	2	5	21	0.0	1.5	30.0	0.0	0.0	0.0
7	86.3	64.6	75.4	2.6	2.0	2.0	634	572	479	326	183	133	0	0	-7777	2	0.3	8.2	31.0	0.0	0.0	0.0
8	86.6	63.1	74.8	3.5	2.7	2.9	615	553	461	311	178	132	-7777	-7777	1	6	0.6	9.7	31.0	0.0	0.0	0.0
9	78.3	53.5	65.9	3.1	3.1	2.8	341	289	216	115	49	31	14	22	39	88	0.1	2.0	30.0	0.0	0.3	0.0
10	68.7	42.2	55.4	3.1	3.0	2.5	120	89	52	16	3	2	106	137	193	312	0.0	-7777	29.8	0.0	5.9	0.0
11	56.4	32.6	44.5	4.7	3.0	3.5	29	19	9	2	-7777	-7777	344	394	474	617	0.0	0.0	20.4	0.7	15.6	0.0
12	44.2	22.4	33.3	5.7	5.3	5.3	4	2	1	-7777	0	0	676	737	828	982	0.0	0.0	10.4	5.1	25.0	1.4
Summary	65.8	42.1	53.9	3.9	3.4	3.3	2627	2259	1759	1050	520	361	2981	3345	3939	5053	1.0	21.5	284.2	17.9	119.3	4.7

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U.S. Department of Commerce
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WAYNESVILLE 2 W, MO US**

GHCND:USC00238777
Elev: 890 ft. Lat: 37.813° N Lon: 92.232° W

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	.25	.50	.75
1	2.66	6.5	4.4	1.5	0.7	1.67	2.13	3.51
2	2.69	6.8	4.9	1.5	0.6	1.25	2.31	3.65
3	3.83	8.6	7.1	2.9	0.8	2.53	3.12	5.04
4	4.14	9.6	7.5	2.6	1.0	3.00	3.61	4.95
5	5.26	10.9	8.4	3.7	1.3	3.62	4.82	6.26
6	4.87	9.2	7.1	3.2	1.5	3.18	4.09	6.45
7	3.93	7.6	5.9	2.7	1.1	2.04	3.39	5.80
8	3.54	7.2	5.5	2.3	0.9	1.79	3.16	4.98
9	4.35	6.8	5.5	2.8	1.6	1.87	3.31	6.21
10	3.75	8.0	6.3	2.5	1.1	2.14	3.42	4.61
11	4.36	8.0	6.2	2.9	1.5	2.34	3.46	5.69
12	3.14	7.0	4.9	2.0	0.9	1.61	2.67	3.53
Summary	46.52	96.2	73.7	30.6	13.0	27.04	39.49	60.68

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National Climatic Data Center
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 Asheville, North Carolina 28801
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Station: **WAYNESVILLE 2 W, MO US**

GHCND:USC00238777
 Elev: 890 ft. Lat: 37.813° N Lon: 92.232° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	67	210	436	702	924	1099	1080	777	483	206	55
45	18	31	126	307	548	774	944	925	628	340	124	26
50	7	12	68	198	397	624	789	770	481	217	65	11
55	2	3	32	114	258	475	634	615	341	120	29	4
60	-7777	1	12	56	143	329	479	461	216	52	9	1
Growing Degree Units for Corn (Monthly)												
50/86	38	61	155	282	442	620	750	724	504	313	141	42

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	109	319	755	1457	2381	3480	4560	5337	5820	6026	6081
45	18	49	175	482	1030	1804	2748	3673	4301	4641	4765	4791
50	7	19	87	285	682	1306	2095	2865	3346	3563	3628	3639
55	2	5	37	151	409	884	1518	2133	2474	2594	2623	2627
60	0	1	13	69	212	541	1020	1481	1697	1749	1758	1759
Growing Degree Units for Corn (Monthly)												
50/86	38	99	254	536	978	1598	2348	3072	3576	3889	4030	4072

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **GENTRYVILLE, MO US**

GHCND:USC00233162
 Elev: 1100 ft. Lat: 36.866° N Lon: 92.360° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.6	21.7	32.7				3	2	1	-7777	0	0	696	757	849	1003	0.0	0.0	10.8	7.2	25.6	0.6
2	48.6	25.3	36.9				5	3	2	-7777	0	0	510	564	647	785	0.0	0.0	12.9	2.6	21.2	0.0
3	58.5	33.6	46.1				34	23	11	2	-7777	-7777	311	363	444	590	0.0	0.0	23.2	0.5	14.9	0.0
4	68.5	43.3	55.9				129	98	59	19	3	1	102	131	183	292	0.0	0.1	28.2	0.0	3.8	0.0
5	76.2	53.5	64.9				314	258	184	86	22	11	8	15	34	91	0.0	0.1	31.0	0.0	0.1	0.0
6	83.8	61.8	72.8				534	474	386	241	115	77	-7777	-7777	2	7	0.0	4.6	30.0	0.0	0.0	0.0
7	88.7	66.4	77.6				699	637	544	389	239	184	0	0	-7777	-7777	0.3	12.7	31.0	0.0	0.0	0.0
8	89.0	65.0	77.0				682	620	527	374	230	178	0	0	-7777	2	1.5	13.8	31.0	0.0	0.0	0.0
9	80.6	56.2	68.4				406	349	267	147	62	39	4	7	15	45	0.0	3.5	30.0	0.0	0.0	0.0
10	69.7	44.6	57.2				140	107	66	22	5	2	73	102	155	266	0.0	0.0	30.8	0.0	1.7	0.0
11	57.7	34.6	46.2				25	16	6	1	-7777	-7777	291	341	422	567	0.0	0.0	21.1	0.3	11.9	0.0
12	44.7	24.6	34.7				2	2	1	-7777	0	0	632	694	786	941	0.0	0.0	9.5	3.4	24.7	0.0
Summary	67.5	44.2	55.9				2973	2589	2054	1281	676	492	2627	2974	3537	4589	1.8	34.8	289.5	14.0	103.9	0.6

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 www.ncdc.noaa.gov

Station: **GENTRYVILLE, MO US**

GHCND:USC00233162
 Elev: 1100 ft. Lat: 36.866° N Lon: 92.360° W

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	.25	.50	.75
1	2.71	@	@	@	@			
2	2.27	@	@	@	@			
3	4.08	@	@	@	@			
4	4.49	@	@	@	@			
5	4.90	@	@	@	@			
6	3.95	@	@	@	@			
7	3.49	@	@	@	@			
8	3.22	@	@	@	@			
9	4.32	@	@	@	@			
10	3.82	@	@	@	@			
11	4.74	@	@	@	@			
12	3.33	@	@	@	@			
Summary	45.32	0.0	0.0	0.0	0.0			

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Station: **GENTRYVILLE, MO US**

GHCND:USC00233162
Elev: 1100 ft. Lat: 36.866° N Lon: 92.360° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	54	83	237	482	770	984	1164	1146	852	533	225	51
45	25	39	140	346	615	834	1009	992	702	384	131	22
50	10	16	75	226	462	684	854	837	552	249	66	8
55	3	5	34	129	314	534	699	682	406	140	25	2
60	1	2	11	59	184	386	544	527	267	66	6	1
Growing Degree Units for Corn (Monthly)												
50/86	44	67	164	299	487	666	793	768	553	328	143	34

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	54	137	374	856	1626	2610	3774	4920	5772	6305	6530	6581
45	25	64	204	550	1165	1999	3008	4000	4702	5086	5217	5239
50	10	26	101	327	789	1473	2327	3164	3716	3965	4031	4039
55	3	8	42	171	485	1019	1718	2400	2806	2946	2971	2973
60	1	3	14	73	257	643	1187	1714	1981	2047	2053	2054
Growing Degree Units for Corn (Monthly)												
50/86	44	111	275	574	1061	1727	2520	3288	3841	4169	4312	4346

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

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National Climatic Data Center
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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **STANBERRY, MO US**

GHCND:USC00238003

Elev: 890 ft. Lat: 40.220° N Lon: 94.544° W

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	.25	.50	.75
1	0.56	@	@	@	@			
2	0.80	@	@	@	@			
3	2.16	@	@	@	@			
4	3.64	@	@	@	@			
5	5.10	@	@	@	@			
6	4.89	@	@	@	@			
7	4.81	@	@	@	@			
8	4.18	@	@	@	@			
9	3.63	@	@	@	@			
10	3.01	@	@	@	@			
11	1.91	@	@	@	@			
12	1.17	@	@	@	@			
Summary	35.86	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CARROLLTON, MO US**

GHCND:USC00231340
 Elev: 705 ft. Lat: 39.359° N Lon: 93.489° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.2	17.7	27.5	5.5	5.1	5.1	-7777	-7777	0	0	0	0	854	916	1009	1164	0.0	0.0	4.8	10.0	28.1	2.4
2	42.7	21.4	32.1	5.8	5.3	5.3	1	1	-7777	-7777	0	0	644	699	783	923	0.0	0.0	8.7	6.2	23.3	1.4
3	54.9	31.3	43.1	4.4	3.3	3.5	25	17	8	1	-7777	-7777	393	448	532	680	0.0	0.0	19.8	1.1	17.2	-7777
4	66.3	41.8	54.0	4.4	3.1	3.6	105	80	50	18	4	2	134	169	229	346	0.0	0.1	27.4	0.0	4.7	0.0
5	76.0	53.0	64.5	3.4	3.3	3.1	307	255	182	86	28	16	13	22	42	101	0.0	0.8	31.0	0.0	0.1	0.0
6	84.7	62.6	73.7	2.7	2.4	2.3	560	500	411	268	142	100	-7777	-7777	1	8	0.3	6.1	30.0	0.0	0.0	0.0
7	88.8	67.2	78.0	2.7	1.9	1.9	713	651	558	403	253	196	0	0	0	-7777	0.9	13.2	31.0	0.0	0.0	0.0
8	87.7	65.2	76.5	3.7	2.8	3.0	665	603	510	357	215	165	0	-7777	-7777	2	1.1	12.3	31.0	0.0	0.0	0.0
9	79.7	55.3	67.5	3.0	2.7	2.6	384	330	252	141	63	42	9	15	27	66	0.1	2.9	30.0	0.0	0.1	0.0
10	67.7	43.7	55.7	3.0	2.5	2.3	124	93	56	18	4	2	103	134	190	306	0.0	0.1	29.5	0.0	3.1	0.0
11	53.3	32.3	42.8	5.2	3.6	4.1	19	12	5	1	-7777	-7777	385	438	521	667	0.0	0.0	18.0	1.0	15.2	-7777
12	40.0	21.4	30.7	6.0	5.7	5.7	1	-7777	-7777	0	0	0	754	815	908	1063	0.0	0.0	6.3	7.2	26.0	1.6
Summary	64.9	42.7	53.8	4.2	3.5	3.5	2904	2542	2032	1293	709	523	3289	3656	4242	5326	2.4	35.5	267.5	25.5	117.8	5.4

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**Summary of
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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CARROLLTON, MO US**

GHCND:USC00231340
Elev: 705 ft. Lat: 39.359° N Lon: 93.489° W

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	.25	.50	.75
1	1.39	5.4	3.3	0.8	0.2	0.62	1.18	2.19
2	1.81	6.0	3.6	1.1	0.3	1.04	1.43	2.47
3	2.66	8.7	5.8	1.6	0.5	1.90	2.56	3.34
4	3.86	10.4	6.6	2.7	0.9	1.88	3.96	5.24
5	5.37	12.0	8.4	3.4	1.5	3.52	4.45	6.67
6	5.47	10.5	6.9	3.5	1.6	3.31	5.02	6.98
7	4.41	8.6	6.0	2.9	1.4	2.52	3.74	5.61
8	4.25	8.4	5.4	2.3	1.5	1.84	3.53	6.48
9	4.61	8.0	5.8	2.8	1.4	2.15	3.59	6.06
10	3.67	8.7	5.6	2.3	0.9	1.57	3.86	4.66
11	2.68	7.5	4.4	1.8	0.7	1.47	2.30	3.54
12	2.05	6.6	4.0	1.5	0.3	0.81	1.82	2.69
Summary	42.23	100.8	65.8	26.7	11.2	22.63	37.44	55.93

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Asheville, North Carolina 28801
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Station: **CARROLLTON, MO US**

GHCND:USC00231340
Elev: 705 ft. Lat: 39.359° N Lon: 93.489° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.3	2.8	1.7	0.7	0.3	0.0	7.9	5.3	2.5	0.0	1.0	3.1	8.4
2	4.6	2.9	1.7	0.4	0.1	-7777	5.8	3.3	1.6	0.5	1.0	3.4	7.0
3	1.7	0.8	0.6	0.1	0.1	0.0	0.9	0.4	0.2	0.0	0.0	0.5	2.0
4	0.3	0.2	0.1	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.2	-7777	-7777	-7777	-7777	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	0.9	0.7	0.4	0.1	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0	1.0
12	3.4	2.5	1.4	0.5	0.2	0.0	4.7	2.5	1.5	0.1	0.7	2.0	4.0
Summary	16.4	9.9	5.9	1.8	0.7	0.0	19.9	11.6	5.8	0.6	2.7	9.0	22.4

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Station: **CARROLLTON, MO US**

GHCND:USC00231340
Elev: 705 ft. Lat: 39.359° N Lon: 93.489° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	41	184	429	759	1010	1178	1130	825	491	171	29
45	4	16	105	299	605	859	1023	975	675	348	96	10
50	1	5	55	187	452	709	868	820	527	223	47	4
55	-7777	1	25	105	307	560	713	665	384	124	19	1
60	0	-7777	8	50	182	411	558	510	252	56	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	14	35	128	267	475	683	805	762	534	300	106	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	55	239	668	1427	2437	3615	4745	5570	6061	6232	6261
45	4	20	125	424	1029	1888	2911	3886	4561	4909	5005	5015
50	1	6	61	248	700	1409	2277	3097	3624	3847	3894	3898
55	0	1	26	131	438	998	1711	2376	2760	2884	2903	2904
60	0	0	8	58	240	651	1209	1719	1971	2027	2032	2032
Growing Degree Units for Corn (Monthly)												
50/86	14	49	177	444	919	1602	2407	3169	3703	4003	4109	4129

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

M indicates the value is missing

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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **CAMERON, MO US**

GHCND:USC00231216

Elev: 1010 ft. Lat: 39.747° N Lon: 94.253° W

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	.25	.50	.75
1	1.08	@	@	@	@			
2	1.39	@	@	@	@			
3	2.39	@	@	@	@			
4	3.72	@	@	@	@			
5	5.24	@	@	@	@			
6	5.22	@	@	@	@			
7	4.77	@	@	@	@			
8	3.84	@	@	@	@			
9	4.27	@	@	@	@			
10	2.94	@	@	@	@			
11	2.17	@	@	@	@			
12	1.70	@	@	@	@			
Summary	38.73	0.0	0.0	0.0	0.0			

@ Denotes mean number of days greater than 0 but less than 0.05.

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: OSCEOLA, MO US

GHCND:USC00236402
 Elev: 712 ft. Lat: 38.049° N Lon: 93.704° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.7	20.8	31.8	5.2	4.1	4.5	1	1	-7777	-7777	0	0	722	783	876	1031	0.0	0.0	8.9	6.2	26.1	1.3
2	47.9	24.7	36.3	5.2	4.5	4.7	5	3	1	-7777	-7777	0	528	582	665	804	0.0	0.0	12.3	3.2	21.1	0.7
3	58.6	35.1	46.8	4.1	3.3	3.4	49	35	20	6	1	-7777	301	350	428	568	0.0	0.0	23.0	0.5	12.8	-7777
4	68.1	44.9	56.5	3.8	3.3	3.4	142	111	73	31	8	4	97	126	178	286	0.0	0.1	28.3	0.0	3.2	0.0
5	77.3	54.9	66.1	3.1	3.1	2.9	351	295	218	113	44	26	7	13	29	79	0.0	1.4	31.0	0.0	0.2	0.0
6	85.7	63.8	74.8	2.7	2.3	2.3	592	533	443	298	166	121	-7777	-7777	1	6	0.2	7.7	30.0	0.0	0.0	0.0
7	90.8	68.5	79.7	2.7	2.2	2.1	764	702	609	454	302	243	0	0	0	-7777	1.9	17.3	31.0	0.0	0.0	0.0
8	90.6	67.1	78.9	4.1	2.8	3.2	739	677	584	430	282	226	0	-7777	-7777	1	3.2	16.7	31.0	0.0	0.0	0.0
9	81.3	57.6	69.4	3.2	2.9	2.8	439	383	302	183	90	63	5	10	19	49	0.2	4.4	30.0	0.0	0.1	0.0
10	70.4	46.6	58.5	2.9	2.7	2.4	175	138	90	35	8	4	67	91	136	236	0.0	0.1	30.3	0.0	2.3	0.0
11	57.4	35.2	46.3	4.9	3.5	3.9	39	27	15	4	-7777	-7777	300	348	426	565	0.0	0.0	21.3	0.4	12.4	-7777
12	45.0	24.1	34.5	5.6	5.0	5.2	4	2	1	-7777	0	0	638	698	790	944	0.0	0.0	11.0	4.1	23.9	0.9
Summary	68.0	45.3	56.6	4.0	3.3	3.4	3300	2907	2356	1554	901	687	2665	3001	3548	4569	5.5	47.7	288.1	14.4	102.1	2.9

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **OSCEOLA, MO US**

GHCND:USC00236402
Elev: 712 ft. Lat: 38.049° N Lon: 93.704° W

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	.25	.50	.75
1	1.65	5.1	3.2	1.0	0.4	0.56	1.39	2.71
2	2.20	5.4	3.8	1.2	0.6	0.74	2.06	2.91
3	2.81	6.6	5.0	2.1	0.7	1.45	2.33	4.06
4	4.51	8.5	6.5	3.0	1.6	3.00	3.82	5.44
5	5.31	10.0	7.4	3.5	1.7	3.79	4.85	6.98
6	5.51	8.6	6.8	3.7	1.9	3.01	4.30	7.24
7	4.01	7.2	5.8	3.0	1.1	1.67	3.26	4.96
8	3.92	6.6	4.8	2.6	1.3	2.24	4.00	5.65
9	4.11	7.4	5.4	2.9	1.4	2.04	3.02	5.30
10	3.88	7.9	5.7	2.3	1.1	1.64	3.04	5.17
11	3.29	6.5	4.5	2.4	1.0	1.44	2.63	4.12
12	2.35	5.5	4.3	1.8	0.7	0.95	2.20	3.38
Summary	43.55	85.3	63.2	29.5	13.5	22.53	36.90	57.92

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1981-2010**

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **OSCEOLA, MO US**

GHCND:USC00236402
Elev: 712 ft. Lat: 38.049° N Lon: 93.704° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.5	2.4	1.7	0.5	0.2	0.0	5.2	2.3	0.7	0.0	1.7	3.3	7.0
2	2.9	1.4	1.1	0.5	-7777	0.0	2.3	0.9	0.1	0.0	0.0	2.0	6.0
3	1.1	0.6	0.4	0.1	0.1	0.0	0.5	0.2	0.1	0.0	0.0	0.0	1.3
4	0.1	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.3	0.3	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.2
12	3.6	1.4	1.0	0.5	0.3	0.1	3.5	2.2	1.4	-7777	0.0	2.0	6.0
Summary	12.5	6.2	4.5	1.6	0.6	0.1	11.5	5.6	2.3	0.0	1.7	7.3	20.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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www.ncdc.noaa.gov

Station: OSCEOLA, MO US

GHCND:USC00236402
Elev: 712 ft. Lat: 38.049° N Lon: 93.704° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	78	264	499	809	1042	1229	1204	884	575	242	64
45	17	38	166	361	654	892	1074	1049	734	427	151	29
50	6	15	96	239	500	742	919	894	585	289	83	12
55	1	5	49	142	351	592	764	739	439	175	39	4
60	-7777	1	20	73	218	443	609	584	302	90	15	1
Growing Degree Units for Corn (Monthly)												
50/86	35	62	173	307	518	708	832	804	579	357	150	45

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	121	385	884	1693	2735	3964	5168	6052	6627	6869	6933
45	17	55	221	582	1236	2128	3202	4251	4985	5412	5563	5592
50	6	21	117	356	856	1598	2517	3411	3996	4285	4368	4380
55	1	6	55	197	548	1140	1904	2643	3082	3257	3296	3300
60	0	1	21	94	312	755	1364	1948	2250	2340	2355	2356
Growing Degree Units for Corn (Monthly)												
50/86	35	97	270	577	1095	1803	2635	3439	4018	4375	4525	4570

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BETHANY, MO US**

GHCND:USC00230608
Elev: 949 ft. Lat: 40.258° N Lon: 94.027° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	33.9	14.5	24.2	5.4	5.6	5.3	0	0	0	0	0	0	955	1017	1110	1265	0.0	0.0	3.4	13.4	29.6	4.6
2	38.8	18.4	28.6	6.3	6.1	6.1	1	-7777	-7777	0	0	0	739	795	879	1019	0.0	0.0	6.0	8.9	24.9	2.4
3	51.1	28.2	39.7	4.5	3.4	3.6	14	9	4	1	0	0	490	547	635	786	0.0	0.0	16.2	2.2	20.8	0.2
4	62.3	39.9	51.1	4.6	3.3	3.8	74	55	34	11	2	1	191	232	301	428	0.0	0.0	25.3	-7777	6.4	0.0
5	72.4	50.6	61.5	3.1	3.0	2.8	232	185	124	51	14	7	31	46	77	159	0.0	0.1	30.9	0.0	0.1	0.0
6	81.7	60.8	71.3	2.7	2.5	2.3	488	429	342	206	95	62	1	2	4	18	-7777	2.3	30.0	0.0	0.0	0.0
7	86.5	65.5	76.0	2.7	1.9	2.0	651	589	496	342	197	145	-7777	-7777	-7777	1	0.2	9.0	31.0	0.0	0.0	0.0
8	85.3	63.4	74.4	3.9	3.0	3.3	600	538	446	296	162	118	-7777	-7777	1	6	0.8	7.8	31.0	0.0	0.0	0.0
9	77.1	53.4	65.2	3.3	3.1	3.0	324	274	204	107	43	28	17	26	46	100	0.0	1.6	29.9	0.0	0.2	0.0
10	65.0	41.5	53.3	3.1	3.0	2.7	91	67	39	12	3	2	145	183	249	377	0.0	-7777	28.0	-7777	4.7	0.0
11	50.3	29.8	40.1	5.1	4.5	4.6	12	7	3	-7777	-7777	0	461	516	601	749	0.0	0.0	15.9	2.3	18.2	0.1
12	36.4	18.3	27.4	5.8	5.9	5.7	-7777	-7777	-7777	0	0	0	857	919	1012	1167	0.0	0.0	4.4	10.9	28.2	2.9
Summary	61.7	40.4	51.1	4.2	3.8	3.8	2487	2153	1692	1026	516	363	3887	4283	4915	6075	1.0	20.8	252.0	37.7	133.1	10.2

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BETHANY, MO US**

GHCND:USC00230608
Elev: 949 ft. Lat: 40.258° N Lon: 94.027° W

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	.25	.50	.75
1	0.96	3.8	2.8	0.3	0.1	0.57	1.03	1.27
2	1.48	5.0	3.6	1.0	0.2	0.68	1.28	2.18
3	2.29	6.7	4.9	1.6	0.5	1.28	2.03	3.10
4	3.73	9.9	7.5	3.1	0.9	2.16	3.89	4.72
5	5.05	11.2	7.9	3.4	1.4	3.16	4.91	6.00
6	5.07	10.0	8.0	3.6	1.6	2.56	4.86	7.43
7	5.34	8.8	6.4	3.4	2.0	2.68	4.82	6.33
8	4.06	8.2	6.5	2.7	1.1	1.69	3.49	5.93
9	3.65	6.8	5.4	2.5	1.2	2.03	3.07	4.00
10	2.89	7.3	5.3	1.7	0.8	1.87	2.64	3.77
11	2.06	6.3	4.6	1.2	0.5	1.31	1.78	2.80
12	1.63	5.1	3.6	1.1	0.3	0.94	1.44	1.91
Summary	38.21	89.1	66.5	25.6	10.6	20.93	35.24	49.44

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1981-2010**

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Station: **BETHANY, MO US**

GHCND:USC00230608
Elev: 949 ft. Lat: 40.258° N Lon: 94.027° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.0	2.5	2.0	0.8	0.3	0.0	6.4	3.4	1.8	0.6	2.0	3.3	5.0
2	6.1	2.6	1.9	0.8	0.3	0.0	8.9	5.8	3.0	0.2	0.0	2.5	10.3
3	3.2	1.0	0.8	0.3	0.1	-7777	1.0	0.5	0.2	0.0	0.0	2.0	5.3
4	0.1	0.2	0.2	0.1	-7777	-7777	0.2	0.1	-7777	-7777	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.1	0.5	0.4	0.1	-7777	0.0	0.9	0.3	0.1	0.0	0.0	0.0	1.2
12	6.7	2.6	2.1	0.8	0.3	0.0	4.8	2.6	1.3	0.4	0.4	6.0	10.2
Summary	22.2	9.4	7.4	2.9	1.0	0.0	22.2	12.7	6.4	1.2	2.4	13.8	32.0

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Station: **BETHANY, MO US**

GHCND:USC00230608
 Elev: 949 ft. Lat: 40.258° N Lon: 94.027° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	26	127	352	666	937	1116	1064	758	420	131	16
45	2	10	68	234	512	787	961	910	608	286	71	5
50	-7777	3	34	140	364	637	806	755	462	174	32	1
55	0	1	14	74	232	488	651	600	324	91	12	-7777
60	0	-7777	4	34	124	342	496	446	204	39	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	8	22	93	211	400	626	763	717	482	255	82	12

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	34	161	513	1179	2116	3232	4296	5054	5474	5605	5621
45	2	12	80	314	826	1613	2574	3484	4092	4378	4449	4454
50	0	3	37	177	541	1178	1984	2739	3201	3375	3407	3408
55	0	1	15	89	321	809	1460	2060	2384	2475	2487	2487
60	0	0	4	38	162	504	1000	1446	1650	1689	1692	1692
Growing Degree Units for Corn (Monthly)												
50/86	8	30	123	334	734	1360	2123	2840	3322	3577	3659	3671

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SPRINGFIELD REGIONAL AIRPORT, MO US**

GHCND:USW00013995
Elev: 1259 ft. Lat: 37.240° N Lon: 93.390° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.9	22.4	32.6	5.0	4.6	4.6	2	1	-7777	-7777	0	0	695	756	848	1003	0.0	0.0	9.0	6.2	25.0	1.3
2	48.2	26.1	37.2	4.9	4.1	4.3	5	3	1	-7777	0	0	505	559	641	780	0.0	0.0	12.7	2.9	20.2	0.5
3	57.5	35.2	46.3	3.8	3.2	3.3	40	27	14	3	-7777	-7777	308	358	437	581	0.0	0.0	22.3	0.5	12.2	-7777
4	67.2	44.3	55.8	3.4	3.2	3.1	127	98	62	22	4	1	105	135	190	300	0.0	0.1	28.3	0.0	2.9	0.0
5	75.3	54.4	64.8	2.8	3.2	2.8	315	261	188	90	28	14	10	18	37	95	0.0	0.2	31.0	0.0	0.1	0.0
6	83.8	63.1	73.4	2.6	2.2	2.2	554	494	405	263	136	94	-7777	-7777	2	9	0.0	3.9	30.0	0.0	0.0	0.0
7	88.8	67.6	78.2	2.4	1.8	1.8	719	657	564	410	259	202	0	0	0	-7777	0.5	13.1	31.0	0.0	0.0	0.0
8	89.0	66.6	77.8	3.5	2.9	3.0	707	645	552	398	252	198	0	-7777	-7777	2	1.0	14.3	31.0	0.0	0.0	0.0
9	80.3	57.7	69.0	2.9	2.6	2.5	426	371	291	173	83	56	6	11	21	53	0.1	3.0	30.0	0.0	-7777	0.0
10	69.0	46.5	57.8	2.9	2.8	2.5	161	124	79	28	6	3	76	101	149	253	0.0	-7777	30.3	0.0	2.0	0.0
11	56.7	35.4	46.1	4.5	3.2	3.6	34	22	11	2	-7777	-7777	302	351	429	571	0.0	0.0	21.1	0.5	11.8	0.0
12	44.9	25.0	35.0	5.3	5.1	5.1	4	2	1	-7777	0	0	626	686	777	931	0.0	0.0	10.6	4.4	23.2	0.7
Summary	67.0	45.4	56.2	3.7	3.2	3.2	3094	2705	2168	1389	768	568	2633	2975	3531	4578	1.6	34.6	287.3	14.5	97.4	2.5

@ Denotes mean number of days greater than 0 but less than 0.05.

-7777: a non-zero value that would round to zero

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SPRINGFIELD REGIONAL AIRPORT, MO US**

GHCND:USW00013995
Elev: 1259 ft. Lat: 37.240° N Lon: 93.390° W

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	.25	.50	.75
1	2.47	8.2	4.2	1.5	0.6	1.31	1.91	3.71
2	2.52	7.8	4.8	1.8	0.5	1.45	2.19	3.73
3	3.62	10.5	6.5	2.3	1.0	2.24	2.97	4.95
4	4.32	10.5	7.2	2.9	1.2	2.63	3.88	5.15
5	5.10	12.0	7.9	3.5	1.1	3.75	4.87	6.20
6	4.85	10.6	7.5	3.5	1.2	3.16	4.20	6.60
7	3.68	8.4	5.8	2.6	1.1	2.46	3.32	4.81
8	3.55	7.9	5.3	2.5	1.0	1.92	4.01	4.81
9	4.61	7.6	5.3	2.6	1.6	2.26	3.62	5.81
10	3.59	9.5	5.9	2.3	1.1	1.88	3.34	5.02
11	4.22	9.4	5.9	2.6	1.3	1.97	3.76	5.98
12	3.04	8.9	4.9	1.8	1.0	1.36	2.54	3.72
Summary	45.57	111.3	71.2	29.9	12.7	26.39	40.61	60.49

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Station: **SPRINGFIELD REGIONAL AIRPORT, MO US**

GHCND:USW00013995
Elev: 1259 ft. Lat: 37.240° N Lon: 93.390° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.4	3.5	1.6	0.6	0.2	0.0	7.0	3.5	1.5	0.1	2.6	3.8	6.9
2	3.6	2.9	0.9	0.4	0.2	-7777	3.9	1.6	0.7	0.1	0.9	2.0	5.3
3	2.4	1.4	0.5	0.3	0.2	0.0	0.9	0.5	0.4	0.2	0.0	0.3	3.1
4	-7777	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	0.1	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	0.7	0.7	0.2	0.1	-7777	0.0	0.3	-7777	-7777	0.0	0.0	0.0	0.5
12	4.9	2.8	1.2	0.6	0.3	-7777	4.8	2.8	1.9	0.1	0.1	3.5	7.2
Summary	17.0	11.5	4.4	2.0	0.9	0.0	16.9	8.4	4.5	0.5	3.6	9.6	23.0

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Station: **SPRINGFIELD REGIONAL AIRPORT, MO US**

GHCND:USW00013995
Elev: 1259 ft. Lat: 37.240° N Lon: 93.390° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	52	89	250	476	770	1003	1184	1172	870	552	236	66
45	23	43	153	339	615	853	1029	1017	720	405	145	30
50	8	18	84	220	461	703	874	862	571	271	77	12
55	2	5	40	127	315	554	719	707	426	161	34	4
60	-7777	1	14	62	188	405	564	552	291	79	11	1
Growing Degree Units for Corn (Monthly)												
50/86	38	64	157	288	484	684	812	792	570	333	140	44

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	52	141	391	867	1637	2640	3824	4996	5866	6418	6654	6720
45	23	66	219	558	1173	2026	3055	4072	4792	5197	5342	5372
50	8	26	110	330	791	1494	2368	3230	3801	4072	4149	4161
55	2	7	47	174	489	1043	1762	2469	2895	3056	3090	3094
60	0	1	15	77	265	670	1234	1786	2077	2156	2167	2168
Growing Degree Units for Corn (Monthly)												
50/86	38	102	259	547	1031	1715	2527	3319	3889	4222	4362	4406

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

M indicates the value is missing

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 151 Patton Avenue
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Station: **LEES SUMMIT MUNICIPAL AIRPORT, MO US**

GHCND:USW00053879
 Elev: 997 ft. Lat: 38.960° N Lon: 94.371° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.5	19.9	29.2				-7777	-7777	-7777	0	0	0	800	861	955	1110	0.0	0.0	6.6	9.7	27.0	1.3
2	44.1	23.7	33.9				3	2	-7777	0	0	0	593	648	731	871	0.0	0.0	9.6	5.7	21.4	0.0
3	55.0	32.9	44.0				26	17	7	-7777	0	0	368	421	504	653	0.0	0.0	20.9	1.1	15.2	0.0
4	64.9	43.6	54.3				103	76	43	11	2	1	125	159	216	333	0.0	0.1	27.0	0.0	4.1	0.0
5	74.4	54.6	64.5				303	248	174	81	23	11	8	15	35	96	0.0	0.0	31.0	0.0	0.0	0.0
6	83.1	63.7	73.4				552	492	403	258	128	87	-7777	-7777	1	6	0.0	3.5	30.0	0.0	0.0	0.0
7	88.2	68.7	78.5				727	665	572	417	267	210	0	0	0	-7777	0.6	12.4	31.0	0.0	0.0	0.0
8	87.5	66.6	77.1				683	621	528	375	233	182	0	0	-7777	2	1.6	11.4	31.0	0.0	0.0	0.0
9	78.9	57.5	68.2				400	343	262	146	64	42	4	7	16	50	0.0	2.0	30.0	0.0	0.0	0.0
10	67.2	46.2	56.7				139	108	68	26	8	5	86	117	171	283	0.0	0.2	30.2	0.0	1.2	0.0
11	53.7	34.4	44.1				17	10	4	-7777	-7777	-7777	345	398	482	629	0.0	0.0	19.2	0.8	12.7	0.0
12	41.3	23.3	32.3				-7777	-7777	0	0	0	0	704	765	858	1013	0.0	0.0	6.9	6.6	25.2	0.3
Summary	64.7	44.6	54.7				2953	2582	2061	1314	725	538	3033	3391	3969	5046	2.2	29.6	273.4	23.9	106.8	1.6

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **LEES SUMMIT MUNICIPAL AIRPORT, MO US**

GHCND:USW00053879

Elev: 997 ft. Lat: 38.960° N Lon: 94.371° W

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	.25	.50	.75
1	1.20	@	@	@	@			
2	1.68	@	@	@	@			
3	2.32	@	@	@	@			
4	4.02	@	@	@	@			
5	5.69	@	@	@	@			
6	6.23	@	@	@	@			
7	4.43	@	@	@	@			
8	4.50	@	@	@	@			
9	4.40	@	@	@	@			
10	3.53	@	@	@	@			
11	2.46	@	@	@	@			
12	1.72	@	@	@	@			
Summary	42.18	0.0	0.0	0.0	0.0			

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Station: **LEES SUMMIT MUNICIPAL AIRPORT, MO US**

GHCND:USW00053879
Elev: 997 ft. Lat: 38.960° N Lon: 94.371° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	29	57	194	436	759	1002	1192	1148	846	519	183	38
45	11	26	110	307	605	852	1037	993	696	371	103	13
50	3	10	58	192	451	702	882	838	547	240	48	3
55	-7777	3	26	103	303	552	727	683	400	139	17	-7777
60	-7777	-7777	7	43	174	403	572	528	262	68	4	0
Growing Degree Units for Corn (Monthly)												
50/86	22	40	124	251	465	687	826	779	545	297	101	22

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	29	86	280	716	1475	2477	3669	4817	5663	6182	6365	6403
45	11	37	147	454	1059	1911	2948	3941	4637	5008	5111	5124
50	3	13	71	263	714	1416	2298	3136	3683	3923	3971	3974
55	0	3	29	132	435	987	1714	2397	2797	2936	2953	2953
60	0	0	7	50	224	627	1199	1727	1989	2057	2061	2061
Growing Degree Units for Corn (Monthly)												
50/86	22	62	186	437	902	1589	2415	3194	3739	4036	4137	4159

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

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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **RICH FOUNTAIN 3 E, MO US**

GHCND:USC00237105
Elev: 598 ft. Lat: 38.389° N Lon: 91.821° W

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	.25	.50	.75
1	2.16	7.8	4.6	1.4	0.6	0.86	2.01	2.74
2	2.15	7.9	4.2	1.2	0.5	1.13	2.03	3.17
3	3.00	9.9	6.7	2.0	0.3	2.16	2.58	3.53
4	3.76	10.1	6.8	2.5	1.0	2.43	3.42	4.73
5	5.11	11.6	8.4	3.8	1.6	3.08	4.80	6.66
6	4.07	9.4	6.8	3.0	1.1	2.41	4.07	5.08
7	4.04	9.7	6.6	2.1	1.1	1.98	3.04	5.01
8	4.00	7.8	5.5	2.9	1.2	1.80	3.71	5.66
9	4.33	7.6	5.5	2.6	1.0	1.98	3.42	5.65
10	3.35	7.6	5.4	2.3	0.9	2.23	2.75	4.33
11	3.78	8.5	6.1	2.4	1.1	1.87	3.91	5.04
12	2.75	8.4	4.9	1.6	0.6	1.45	2.67	3.64
Summary	42.50	106.3	71.5	27.8	11.0	23.38	38.41	55.24

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Station: **RICH FOUNTAIN 3 E, MO US**

GHCND:USC00237105
 Elev: 598 ft. Lat: 38.389° N Lon: 91.821° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.1	2.7	1.3	0.5	0.1	0.0	7.2	3.5	1.2	0.1	0.7	3.1	6.5
2	3.0	2.4	0.8	0.2	0.1	0.0	3.3	1.3	0.3	0.0	0.6	1.5	4.9
3	1.6	0.7	0.3	0.2	0.1	0.0	0.9	0.7	0.3	0.0	0.0	0.1	2.6
4	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.3	0.2	-7777	0.0	0.0	0.6	-7777	0.0	0.0	0.0	0.0	0.0
12	3.0	2.0	1.1	0.4	0.2	0.0	4.0	2.4	1.0	0.0	0.0	2.0	5.9
Summary	12.1	8.1	3.7	1.3	0.5	0.0	16.0	7.9	2.8	0.1	1.3	6.7	19.9

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www.ncdc.noaa.gov

Station: **ELDON, MO US**

GHCND:USC00232503
 Elev: 930 ft. Lat: 38.349° N Lon: 92.581° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.4	21.1	30.7	5.3	5.0	5.0	2	1	-7777	-7777	0	0	753	815	907	1062	0.0	0.0	7.3	7.9	26.0	1.3
2	45.8	24.9	35.3	5.3	4.7	4.8	4	2	1	-7777	-7777	0	554	608	691	830	0.0	0.0	10.6	4.3	20.6	0.7
3	55.7	34.2	45.0	4.1	3.8	3.8	37	27	15	4	-7777	-7777	349	400	481	626	0.0	0.0	20.5	0.9	13.4	0.0
4	66.9	44.6	55.8	4.5	3.7	3.9	139	109	73	30	9	4	116	147	200	308	0.0	0.3	27.2	-7777	2.6	0.0
5	75.6	54.7	65.2	3.3	2.8	2.8	325	270	195	94	33	19	10	18	36	90	0.0	0.6	30.9	0.0	-7777	0.0
6	83.9	63.8	73.8	2.8	2.6	2.4	566	507	418	275	149	106	1	1	3	10	0.1	5.3	30.0	0.0	-7777	0.0
7	88.8	68.9	78.9	2.9	1.8	2.2	739	677	584	430	278	221	0	0	-7777	-7777	0.7	14.5	31.0	0.0	0.0	0.0
8	88.6	66.9	77.8	4.1	3.1	3.4	705	643	550	397	252	199	-7777	-7777	-7777	2	1.5	13.8	31.0	0.0	0.0	0.0
9	79.7	57.9	68.8	3.1	2.6	2.5	421	366	287	169	82	57	7	12	23	55	0.1	3.3	30.0	0.0	0.0	0.0
10	68.9	46.3	57.6	2.9	2.6	2.4	160	124	79	29	7	3	79	105	153	258	0.0	-7777	29.8	0.0	1.5	0.0
11	55.6	35.9	45.7	5.0	4.0	4.3	37	26	14	3	-7777	-7777	315	364	442	581	0.0	0.0	19.2	0.8	10.7	0.0
12	43.5	24.7	34.1	5.4	5.8	5.4	4	2	1	-7777	0	0	652	712	803	958	0.0	0.0	9.8	5.7	23.3	0.7
Summary	66.1	45.3	55.7	4.1	3.5	3.6	3139	2754	2217	1431	810	609	2836	3182	3739	4780	2.4	37.8	277.3	19.6	98.1	2.7

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GHCND:USC00232503

Elev: 930 ft. Lat: 38.349° N Lon: 92.581° W

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **ELDON, MO US**

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	.25	.50	.75
1	2.06	5.5	3.8	1.1	0.6	0.59	1.59	3.13
2	2.13	5.7	3.9	1.6	0.6	0.75	2.20	3.51
3	2.93	8.3	6.4	1.8	0.8	1.54	2.54	4.69
4	4.51	9.3	6.6	3.2	1.4	2.44	4.03	5.64
5	5.64	10.8	7.7	3.8	1.7	3.96	5.21	6.93
6	4.24	9.1	6.7	3.0	1.2	1.98	3.07	5.94
7	4.34	7.2	5.7	2.6	1.3	1.97	3.64	6.19
8	3.81	6.8	5.2	2.5	1.4	2.64	3.27	4.20
9	4.50	7.3	5.1	2.8	1.5	1.53	4.38	5.00
10	3.57	7.6	5.5	2.5	1.0	1.65	3.05	4.47
11	3.64	7.9	5.9	2.8	1.0	1.87	3.27	4.37
12	2.42	6.2	4.3	2.0	0.7	1.15	2.17	2.95
Summary	43.79	91.7	66.8	29.7	13.2	22.07	38.42	57.02

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ELDON, MO US**

GHCND:USC00232503
Elev: 930 ft. Lat: 38.349° N Lon: 92.581° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	40	74	226	479	780	1015	1204	1170	864	548	236	64
45	16	34	138	347	625	865	1049	1015	714	401	148	30
50	6	13	76	231	471	715	894	860	565	268	80	12
55	2	4	37	139	325	566	739	705	421	160	37	4
60	-7777	1	15	73	195	418	584	550	287	79	14	1
Growing Degree Units for Corn (Monthly)												
50/86	29	53	143	287	485	692	829	790	562	327	135	40

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	40	114	340	819	1599	2614	3818	4988	5852	6400	6636	6700
45	16	50	188	535	1160	2025	3074	4089	4803	5204	5352	5382
50	6	19	95	326	797	1512	2406	3266	3831	4099	4179	4191
55	2	6	43	182	507	1073	1812	2517	2938	3098	3135	3139
60	0	1	16	89	284	702	1286	1836	2123	2202	2216	2217
Growing Degree Units for Corn (Monthly)												
50/86	29	82	225	512	997	1689	2518	3308	3870	4197	4332	4372

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **POLO, MO US**

GHCND:USC00236775
Elev: 997 ft. Lat: 39.536° N Lon: 94.041° W

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	.25	.50	.75
1	1.28	4.7	3.2	0.8	0.1	0.59	1.21	2.01
2	1.56	5.7	4.2	0.7	0.3	0.87	1.30	1.99
3	2.48	8.2	5.9	1.5	0.6	1.36	2.42	3.11
4	3.74	9.1	6.7	2.7	1.0	2.34	3.51	4.84
5	5.53	10.5	7.7	3.3	1.5	3.38	5.02	7.24
6	5.05	9.6	7.3	3.7	1.5	3.33	4.42	6.53
7	4.55	8.8	6.7	2.9	1.4	2.92	4.25	6.13
8	3.88	7.4	5.4	2.6	1.3	2.43	3.52	4.62
9	4.71	7.8	6.2	2.9	1.5	2.78	3.89	6.74
10	3.35	8.4	5.9	2.1	0.7	1.54	3.17	4.56
11	2.65	6.5	4.4	1.8	0.9	1.70	2.54	3.72
12	1.87	6.1	4.3	1.4	0.4	0.88	1.89	2.33
Summary	40.65	92.8	67.9	26.4	11.2	24.12	37.14	53.82

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **POLO, MO US**

GHCND:USC00236775
Elev: 997 ft. Lat: 39.536° N Lon: 94.041° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.2	2.3	1.6	0.4	0.1	0.0	@	@	@	@	0.6	2.4	7.0
2	5.2	2.7	2.0	0.8	0.2	0.0	@	@	@	@	2.4	5.5	8.0
3	2.1	1.0	0.8	0.2	0.1	0.0	@	@	@	@	0.0	0.9	2.5
4	0.4	0.2	0.2	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	1.3	0.6	0.5	0.2	0.1	-7777	@	@	@	@	0.0	0.0	1.5
12	4.6	2.5	1.8	0.5	0.1	0.0	@	@	@	@	1.0	2.7	7.0
Summary	17.8	9.3	6.9	2.2	0.6	0.0	0.0	0.0	0.0	0.0	4.0	11.5	26.0

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Summary of Monthly Normals 1981-2010

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Station: SIKESTON POWER STATN, MO US

GHCND:USC00237772
 Elev: 310 ft. Lat: 36.878° N Lon: 89.623° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.8	27.4	35.6	4.6	4.8	4.5	5	3	1	0	0	0	606	666	757	911	0.0	0.0	9.6	4.9	20.9	0.3
2	48.4	31.2	39.8	4.2	3.6	3.8	7	4	2	-7777	-7777	0	433	486	567	706	0.0	0.0	12.5	2.5	14.6	0.1
3	59.3	39.4	49.4	3.8	3.0	3.2	60	44	25	7	1	-7777	235	281	355	492	0.0	0.0	23.9	0.3	6.4	0.0
4	70.3	48.9	59.6	3.5	3.3	3.2	195	156	106	48	15	7	57	78	118	210	0.0	0.2	29.1	0.0	0.6	0.0
5	80.0	59.3	69.6	3.3	3.0	2.9	456	396	311	185	91	63	2	4	11	41	0.0	3.4	31.0	0.0	0.0	0.0
6	88.4	68.0	78.2	2.7	2.1	2.2	696	636	546	398	255	202	-7777	-7777	-7777	2	0.8	13.4	30.0	0.0	0.0	0.0
7	91.5	71.2	81.4	2.4	1.8	2.0	817	755	662	507	352	292	0	0	0	-7777	1.5	19.7	31.0	0.0	0.0	0.0
8	90.6	68.9	79.7	3.0	2.6	2.7	767	705	612	457	306	247	0	0	-7777	-7777	1.8	17.3	31.0	0.0	0.0	0.0
9	83.4	60.3	71.9	3.0	2.6	2.5	507	449	364	232	123	89	2	4	9	26	-7777	6.0	30.0	0.0	0.0	0.0
10	72.0	48.7	60.3	3.0	2.8	2.6	213	171	115	51	16	9	47	67	105	195	0.0	0.4	30.7	0.0	0.5	0.0
11	58.7	39.9	49.3	4.1	2.9	3.3	54	38	21	5	1	-7777	225	269	342	476	0.0	0.0	22.9	0.0	6.1	0.0
12	46.0	30.6	38.3	4.9	5.2	4.9	5	3	1	-7777	0	0	522	582	674	828	0.0	0.0	11.3	3.1	16.7	0.2
Summary	69.4	49.5	59.4	3.5	3.1	3.2	3782	3360	2766	1890	1160	909	2129	2437	2938	3887	4.1	60.4	293.0	10.8	65.8	0.6

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **SIKESTON POWER STATN, MO US**

GHCND:USC00237772

Elev: 310 ft. Lat: 36.878° N Lon: 89.623° W

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	.25	.50	.75
1	3.58	7.9	6.1	2.8	1.2	1.81	3.35	4.98
2	4.09	7.6	6.1	2.9	1.3	2.74	3.84	4.67
3	4.20	9.8	7.2	3.2	1.1	2.69	3.65	5.10
4	4.78	9.5	7.1	3.2	1.4	3.11	4.84	5.93
5	5.10	10.4	8.4	3.6	1.4	2.71	5.14	7.26
6	4.30	8.4	7.1	3.0	1.3	2.84	3.81	5.55
7	4.52	7.0	5.8	2.8	1.0	2.20	4.05	7.15
8	2.51	5.2	4.0	1.8	0.9	1.69	2.21	3.22
9	3.50	6.4	5.2	2.4	1.2	1.66	3.20	5.09
10	3.53	6.3	5.0	2.3	0.9	1.82	3.23	4.29
11	4.49	7.8	6.3	3.6	1.2	2.66	4.87	6.17
12	4.68	9.0	7.0	3.1	1.4	2.13	3.62	6.56
Summary	49.28	95.3	75.3	34.7	14.3	28.06	45.81	65.97

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Summary of Monthly Normals 1981-2010

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Station: SIKESTON POWER STATN, MO US

GHCND:USC00237772
 Elev: 310 ft. Lat: 36.878° N Lon: 89.623° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	1.0	0.3	0.3	0.1	-7777	0.0	0.3	0.1	-7777	0.0	0.0	0.0	1.5
2	1.3	0.9	0.7	0.2	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.6	2.0
3	0.6	0.1	0.1	-7777	-7777	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.4	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Summary	3.4	1.8	1.3	0.4	0.0	0.0	0.6	0.2	0.0	0.0	0.0	0.6	3.5

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Summary of Monthly Normals 1981-2010

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Station: **SIKESTON POWER STATN, MO US**

GHCND:USC00237772
 Elev: 310 ft. Lat: 36.878° N Lon: 89.623° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	72	110	319	589	919	1146	1282	1232	955	632	305	97
45	33	55	205	444	764	996	1127	1077	805	480	195	44
50	13	22	118	311	609	846	972	922	656	336	111	17
55	5	7	60	195	456	696	817	767	507	213	54	5
60	1	2	25	106	311	546	662	612	364	115	21	1
Growing Degree Units for Corn (Monthly)												
50/86	39	58	180	354	600	784	878	839	634	388	165	45

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	72	182	501	1090	2009	3155	4437	5669	6624	7256	7561	7658
45	33	88	293	737	1501	2497	3624	4701	5506	5986	6181	6225
50	13	35	153	464	1073	1919	2891	3813	4469	4805	4916	4933
55	5	12	72	267	723	1419	2236	3003	3510	3723	3777	3782
60	1	3	28	134	445	991	1653	2265	2629	2744	2765	2766
Growing Degree Units for Corn (Monthly)												
50/86	39	97	277	631	1231	2015	2893	3732	4366	4754	4919	4964

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **COLUMBIA REGIONAL AIRPORT, MO US**

GHCND:USW00003945
 Elev: 893 ft. Lat: 38.817° N Lon: 92.218° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.5	20.9	29.7	5.5	4.6	4.9	1	1	-7777	-7777	0	0	785	847	939	1094	0.0	0.0	6.0	9.4	25.9	1.5
2	43.9	24.9	34.4	5.3	4.9	5.0	3	2	1	-7777	0	0	580	634	717	857	0.0	0.0	9.3	5.5	20.7	0.5
3	55.2	34.0	44.6	4.2	3.1	3.4	35	25	13	3	-7777	-7777	357	409	491	636	0.0	0.0	19.7	0.8	13.8	0.1
4	66.1	44.0	55.0	4.0	3.2	3.4	120	93	59	22	4	2	119	151	208	321	0.0	-7777	27.0	0.0	2.7	0.0
5	74.5	53.5	64.0	3.3	3.3	3.2	292	240	169	78	26	14	13	23	45	109	0.0	0.3	31.0	0.0	0.0	0.0
6	83.0	62.8	72.9	2.7	2.2	2.3	537	478	389	248	126	86	-7777	1	2	11	0.1	3.8	30.0	0.0	0.0	0.0
7	87.6	67.0	77.3	2.7	2.0	2.0	691	629	536	382	232	178	0	0	-7777	-7777	0.5	11.2	31.0	0.0	0.0	0.0
8	87.0	65.4	76.2	3.9	3.0	3.2	657	595	502	350	209	159	-7777	-7777	-7777	2	0.9	10.9	31.0	0.0	0.0	0.0
9	78.8	56.4	67.6	2.9	2.7	2.6	387	332	255	144	65	43	9	14	27	66	0.0	2.5	30.0	0.0	-7777	0.0
10	67.1	45.0	56.0	3.0	3.0	2.7	130	98	60	20	4	2	97	127	183	297	0.0	0.1	29.3	0.0	2.1	0.0
11	53.9	34.9	44.4	4.9	3.5	3.9	27	18	8	2	-7777	0	345	396	477	620	0.0	0.0	18.5	1.0	12.2	0.0
12	41.1	23.7	32.4	5.6	5.6	5.5	3	1	-7777	-7777	0	0	703	764	856	1010	0.0	0.0	7.5	6.9	24.2	1.1
Summary	64.7	44.4	54.5	4.0	3.4	3.5	2883	2512	1992	1249	666	484	3008	3366	3945	5023	1.5	28.8	270.3	23.6	101.6	3.2

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **COLUMBIA REGIONAL AIRPORT, MO US**

GHCND:USW00003945
Elev: 893 ft. Lat: 38.817° N Lon: 92.218° W

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	.25	.50	.75
1	1.92	7.7	4.0	1.3	0.4	0.88	1.94	2.58
2	2.25	8.0	4.3	1.4	0.7	1.10	2.01	3.39
3	2.91	10.6	6.3	1.7	0.5	1.82	2.62	3.67
4	4.49	10.8	7.2	3.1	1.1	2.70	4.31	5.55
5	4.98	12.5	7.9	3.5	1.1	2.89	4.89	5.78
6	4.47	9.7	6.3	3.0	1.4	2.87	4.19	5.58
7	4.37	8.8	5.9	2.5	1.3	1.97	3.74	5.58
8	4.36	8.6	5.7	2.9	1.5	2.58	3.90	6.15
9	3.87	8.1	5.6	2.6	1.3	1.60	2.97	5.59
10	3.31	9.5	6.1	2.2	0.8	1.75	3.04	4.04
11	3.25	9.7	5.5	2.1	0.8	1.61	2.53	4.20
12	2.44	8.4	4.5	1.6	0.7	1.22	2.18	3.38
Summary	42.62	112.4	69.3	27.9	11.6	22.99	38.32	55.49

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Station: **COLUMBIA REGIONAL AIRPORT, MO US**

GHCND:USW00003945
Elev: 893 ft. Lat: 38.817° N Lon: 92.218° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	6.1	3.6	1.7	0.5	0.3	-7777	8.2	3.0	1.3	0.3	1.4	4.0	8.0
2	4.7	3.3	1.4	0.5	0.1	0.0	4.9	2.1	1.2	0.1	1.3	2.7	8.5
3	1.7	1.3	0.6	0.2	0.0	0.0	1.1	0.5	0.2	0.0	0.0	0.0	2.2
4	0.2	0.2	0.1	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.9	1.0	0.3	0.1	0.0	0.0	0.3	0.1	-7777	0.0	0.0	0.2	1.1
12	4.4	2.5	1.3	0.5	0.2	-7777	4.9	2.7	1.1	0.2	0.8	2.1	7.0
Summary	18.0	11.9	5.4	1.8	0.6	0.0	19.4	8.4	3.8	0.6	3.5	9.0	26.8

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Summary of Monthly Normals 1981-2010

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **COLUMBIA REGIONAL AIRPORT, MO US**

GHCND:USW00003945
Elev: 893 ft. Lat: 38.817° N Lon: 92.218° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	31	63	215	457	744	987	1156	1122	828	501	203	47
45	12	29	129	324	589	837	1001	967	678	356	121	20
50	4	11	71	208	436	687	846	812	530	229	62	8
55	1	3	35	120	292	537	691	657	387	130	27	3
60	-7777	1	13	59	169	389	536	502	255	60	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	22	44	134	269	458	670	795	759	534	294	113	28

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	31	94	309	766	1510	2497	3653	4775	5603	6104	6307	6354
45	12	41	170	494	1083	1920	2921	3888	4566	4922	5043	5063
50	4	15	86	294	730	1417	2263	3075	3605	3834	3896	3904
55	1	4	39	159	451	988	1679	2336	2723	2853	2880	2883
60	0	1	14	73	242	631	1167	1669	1924	1984	1992	1992
Growing Degree Units for Corn (Monthly)												
50/86	22	66	200	469	927	1597	2392	3151	3685	3979	4092	4120

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

M indicates the value is missing

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**Summary of
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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **STOCKTON DAM, MO US**

GHCND:USC00238082
Elev: 873 ft. Lat: 37.697° N Lon: 93.772° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.8	21.7	31.3	4.9	4.2	4.3	1	1	-7777	0	0	0	737	799	891	1046	0.0	0.0	7.2	7.2	26.2	1.0
2	45.9	25.3	35.6	5.0	4.3	4.5	2	1	-7777	0	0	0	545	600	683	823	0.0	0.0	11.1	4.2	20.7	0.5
3	56.0	33.4	44.7	3.8	3.3	3.3	25	15	6	1	-7777	-7777	345	397	481	630	0.0	0.0	21.2	0.7	13.8	0.0
4	66.3	43.4	54.8	3.9	3.1	3.3	112	84	51	16	2	1	116	149	205	321	0.0	-7777	27.6	0.0	3.0	0.0
5	74.9	54.7	64.8	3.2	3.4	3.2	316	263	191	93	31	18	12	21	42	100	0.0	0.2	30.9	0.0	0.0	0.0
6	83.3	64.1	73.7	3.3	2.4	2.7	561	502	413	271	145	103	-7777	1	2	10	0.1	3.8	30.0	0.0	0.0	0.0
7	88.3	68.9	78.6	2.6	2.2	2.1	732	670	577	422	272	215	0	0	0	1	0.4	12.2	31.0	0.0	0.0	0.0
8	88.8	67.3	78.1	3.5	2.9	3.0	714	652	560	407	261	207	-7777	-7777	-7777	2	1.1	14.3	31.0	0.0	0.0	0.0
9	80.1	57.8	68.9	3.5	2.9	2.9	427	372	293	177	88	61	9	13	24	59	0.1	3.5	29.9	0.0	0.1	0.0
10	68.9	46.1	57.5	2.9	2.6	2.4	160	124	80	29	6	3	82	109	157	261	0.0	0.0	29.7	0.0	2.3	0.0
11	56.4	36.1	46.3	4.5	3.6	3.7	34	23	11	2	-7777	-7777	297	345	424	565	0.0	0.0	21.1	0.3	10.8	0.0
12	44.0	25.4	34.7	5.4	5.4	5.3	3	2	1	0	0	0	632	693	785	939	0.0	0.0	10.2	4.7	22.2	0.8
Summary	66.1	45.4	55.8	3.9	3.4	3.4	3087	2709	2183	1418	805	608	2775	3127	3694	4757	1.7	34.0	280.9	17.1	99.1	2.3

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **STOCKTON DAM, MO US**

GHCND:USC00238082
Elev: 873 ft. Lat: 37.697° N Lon: 93.772° W

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	.25	.50	.75
1	1.97	6.0	3.8	1.1	0.4	0.95	1.85	2.85
2	2.29	5.9	4.1	1.6	0.5	0.94	2.17	3.07
3	3.20	8.4	5.9	2.0	1.0	1.93	2.61	4.46
4	4.19	10.1	6.9	2.9	1.3	2.90	3.63	5.49
5	5.53	11.8	8.7	3.7	1.6	3.72	5.37	6.94
6	5.57	11.3	8.1	3.9	1.8	3.51	4.69	7.88
7	4.34	8.4	5.6	2.5	1.4	2.50	4.00	5.24
8	4.06	7.0	5.2	2.4	1.0	1.71	3.63	5.59
9	4.33	7.6	5.4	2.7	1.4	1.96	3.35	5.50
10	4.15	9.2	6.0	2.5	1.1	1.91	3.36	5.65
11	3.54	7.7	4.9	2.5	1.2	1.83	2.75	4.17
12	2.76	6.2	4.2	2.0	0.7	1.44	2.48	3.93
Summary	45.93	99.6	68.8	29.8	13.4	25.30	39.89	60.77

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Station: **STOCKTON DAM, MO US**

GHCND:USC00238082
 Elev: 873 ft. Lat: 37.697° N Lon: 93.772° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.7	1.3	1.0	0.5	0.2	0.0	@	@	@	@	0.0	0.3	9.0
2	1.2	0.8	0.5	0.1	0.0	0.0	@	@	@	@	0.0	0.0	1.0
3	1.2	0.2	0.2	0.1	0.1	-7777	@	@	@	@	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	-7777	0.1	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	1.0	1.2	0.8	0.3	0.3	0.0	@	@	@	@	0.0	0.0	1.0
Summary	7.1	3.6	2.5	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	11.0

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Station: **STOCKTON DAM, MO US**

GHCND:USC00238082
Elev: 873 ft. Lat: 37.697° N Lon: 93.772° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	36	70	214	452	769	1011	1196	1179	868	545	240	67
45	12	30	124	319	614	861	1041	1024	719	399	148	28
50	3	10	63	204	461	711	886	869	571	268	78	10
55	1	2	25	112	316	561	732	714	427	160	34	3
60	-7777	-7777	6	51	191	413	577	560	293	80	11	1
Growing Degree Units for Corn (Monthly)												
50/86	27	50	138	270	480	692	828	799	567	331	137	39

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	36	106	320	772	1541	2552	3748	4927	5795	6340	6580	6647
45	12	42	166	485	1099	1960	3001	4025	4744	5143	5291	5319
50	3	13	76	280	741	1452	2338	3207	3778	4046	4124	4134
55	1	3	28	140	456	1017	1749	2463	2890	3050	3084	3087
60	0	0	6	57	248	661	1238	1798	2091	2171	2182	2183
Growing Degree Units for Corn (Monthly)												
50/86	27	77	215	485	965	1657	2485	3284	3851	4182	4319	4358

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **HANNIBAL WATER WORKS, MO US**

GHCND:USC00233601
 Elev: 712 ft. Lat: 39.723° N Lon: 91.372° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.6	17.7	26.2	5.8	5.6	5.6	1	-7777	-7777	0	0	0	895	956	1049	1204	0.0	0.0	3.7	13.2	28.1	2.9
2	39.7	21.5	30.6	5.8	5.8	5.7	2	1	-7777	-7777	-7777	0	685	740	823	963	0.0	0.0	6.4	8.1	23.3	1.5
3	51.4	31.9	41.6	4.4	3.7	3.9	26	18	10	3	-7777	-7777	439	494	579	727	0.0	0.0	16.2	2.2	16.1	-7777
4	63.7	43.0	53.4	4.3	3.2	3.6	103	79	49	18	5	2	153	188	248	368	0.0	0.1	25.8	-7777	3.3	0.0
5	73.0	53.4	63.2	3.4	3.2	3.2	275	225	158	73	24	13	21	33	58	129	0.0	0.3	30.8	0.0	0.1	0.0
6	81.8	62.9	72.3	2.6	2.0	2.2	521	461	374	235	119	82	-7777	1	3	15	-7777	3.2	30.0	0.0	0.0	0.0
7	85.8	66.9	76.4	2.8	2.1	2.3	662	600	507	353	207	155	-7777	-7777	-7777	1	0.3	8.2	31.0	0.0	0.0	0.0
8	84.6	65.0	74.8	3.5	3.4	3.3	614	552	459	309	172	126	-7777	-7777	1	5	0.4	6.9	31.0	0.0	0.0	0.0
9	77.2	56.2	66.7	3.1	2.6	2.6	362	308	232	128	55	35	11	17	31	77	0.0	1.7	30.0	0.0	-7777	0.0
10	65.5	44.5	55.0	2.9	2.3	2.4	117	89	54	18	4	2	117	151	209	328	0.0	0.1	28.5	0.0	1.8	0.0
11	51.5	33.7	42.6	5.2	3.8	4.3	24	16	8	1	-7777	0	396	448	530	673	0.0	0.0	16.0	1.7	13.1	0.0
12	37.5	21.7	29.6	5.8	6.0	5.8	1	1	-7777	0	0	0	789	850	942	1097	0.0	0.0	4.9	9.9	25.4	1.7
Summary	62.2	43.2	52.7	4.1	3.6	3.7	2708	2350	1851	1138	586	415	3506	3878	4473	5587	0.7	20.5	254.3	35.1	111.2	6.1

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HANNIBAL WATER WORKS, MO US**

GHCND:USC00233601
Elev: 712 ft. Lat: 39.723° N Lon: 91.372° W

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	.25	.50	.75
1	1.85	8.4	4.0	0.9	0.4	0.83	1.71	2.77
2	2.26	7.9	4.3	1.3	0.6	1.28	1.80	3.06
3	2.74	9.7	6.2	1.7	0.5	1.71	2.91	3.39
4	4.15	10.8	7.0	2.9	1.1	2.37	4.25	5.59
5	4.82	12.3	7.8	3.1	1.1	3.69	4.41	5.48
6	3.92	10.2	6.4	2.8	1.1	2.21	3.76	5.22
7	4.83	9.1	6.4	3.0	1.6	2.37	3.66	5.78
8	4.15	8.2	5.8	2.7	1.4	2.62	3.67	5.72
9	3.53	8.3	5.8	2.1	0.8	1.84	2.60	3.59
10	3.33	9.3	5.8	2.3	0.9	2.10	2.89	4.61
11	3.31	8.9	5.8	2.6	0.8	1.72	2.86	3.95
12	2.50	9.2	5.1	1.6	0.5	1.25	2.19	3.54
Summary	41.39	112.3	70.4	27.0	10.8	23.99	36.71	52.70

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Station: **HANNIBAL WATER WORKS, MO US**

GHCND:USC00233601
 Elev: 712 ft. Lat: 39.723° N Lon: 91.372° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	38	165	412	719	970	1127	1078	801	470	175	32
45	5	16	96	287	565	820	972	924	651	330	103	13
50	1	5	52	182	414	670	817	769	504	209	52	5
55	1	2	26	103	275	521	662	614	362	117	24	1
60	-7777	-7777	10	49	158	374	507	459	232	54	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	12	26	100	236	433	656	779	736	510	269	95	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	55	220	632	1351	2321	3448	4526	5327	5797	5972	6004
45	5	21	117	404	969	1789	2761	3685	4336	4666	4769	4782
50	1	6	58	240	654	1324	2141	2910	3414	3623	3675	3680
55	1	3	29	132	407	928	1590	2204	2566	2683	2707	2708
60	0	0	10	59	217	591	1098	1557	1789	1843	1851	1851
Growing Degree Units for Corn (Monthly)												
50/86	12	38	138	374	807	1463	2242	2978	3488	3757	3852	3870

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**

GHCND:USC00232318

Elev: 870 ft. Lat: 40.491° N Lon: 92.370° W

Station: **DOWNING, MO US**

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	.25	.50	.75
1	1.23	7.6	3.8	0.8	0.2	0.68	1.14	1.89
2	1.60	7.2	3.9	1.1	0.4	0.93	1.44	1.89
3	2.68	8.1	5.0	1.6	0.5	1.46	2.29	3.69
4	3.99	10.2	7.8	3.0	1.0	3.04	4.47	4.96
5	5.48	11.5	8.5	4.3	2.0	2.76	5.23	6.83
6	5.25	11.0	7.8	4.0	1.6	2.91	4.50	6.36
7	4.71	9.4	6.9	2.9	1.6	2.72	4.09	5.41
8	4.17	7.9	6.4	2.9	1.4	2.42	3.98	5.04
9	4.07	7.3	5.3	2.7	1.3	2.44	3.19	4.35
10	3.38	7.9	5.2	2.0	0.7	1.39	2.50	4.94
11	2.81	6.8	4.6	1.5	0.5	1.48	2.18	3.87
12	1.90	7.5	3.8	1.2	0.3	0.86	1.55	2.48
Summary	41.27	102.4	69.0	28.0	11.5	23.09	36.56	51.71

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Station: **DOWNING, MO US**

GHCND:USC00232318
Elev: 870 ft. Lat: 40.491° N Lon: 92.370° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.9	4.4	2.2	0.4	0.1	0.0	10.9	5.9	2.9	0.5	3.5	5.2	8.2
2	5.4	3.7	2.0	0.6	0.2	0.0	8.3	4.6	2.8	0.5	1.9	3.4	7.8
3	3.0	1.8	0.9	0.4	0.1	0.0	2.8	1.3	0.3	0.0	0.4	3.1	5.5
4	1.1	0.3	0.2	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.6	0.2	0.1	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.8
12	6.2	3.8	2.2	0.6	0.1	0.0	8.6	5.1	1.5	0.7	1.1	5.2	9.7
Summary	22.3	14.7	7.8	2.2	0.7	0.1	31.2	17.3	7.7	1.8	6.9	16.9	32.0

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CANTON LOCK AND DAM 20, MO US**

GHCND:USC00231275
 Elev: 490 ft. Lat: 40.143° N Lon: 91.516° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.2	17.6	25.9	5.6	5.9	5.6	-7777	-7777	0	0	0	0	902	964	1057	1212	0.0	0.0	3.6	13.0	28.2	2.7
2	38.8	20.8	29.8	5.8	6.1	5.8	-7777	-7777	-7777	-7777	0	0	706	762	845	985	0.0	0.0	5.2	8.5	23.3	1.6
3	50.8	30.7	40.7	4.6	3.5	3.9	18	12	7	2	-7777	-7777	460	516	603	754	0.0	0.0	15.5	2.2	17.5	0.1
4	63.3	42.5	52.9	4.8	3.4	3.8	92	70	44	17	4	2	155	193	257	380	0.0	0.1	26.0	0.0	3.6	0.0
5	72.7	52.9	62.8	3.4	3.7	3.3	264	214	149	68	22	13	22	35	62	136	0.0	0.6	30.9	0.0	0.1	0.0
6	81.9	62.8	72.4	2.6	2.2	2.2	521	461	373	235	119	84	-7777	1	3	15	0.2	3.9	30.0	0.0	0.0	0.0
7	86.1	66.8	76.5	2.8	2.4	2.3	665	603	510	356	210	158	0	-7777	-7777	1	0.5	8.2	31.0	0.0	0.0	0.0
8	84.7	64.9	74.8	3.4	3.2	3.2	614	552	459	308	172	127	-7777	-7777	-7777	4	0.5	6.7	31.0	0.0	0.0	0.0
9	77.4	55.7	66.5	3.0	2.5	2.5	358	304	229	125	54	35	11	18	33	78	0.1	1.6	30.0	0.0	-7777	0.0
10	65.9	43.7	54.8	2.9	2.8	2.4	110	82	50	17	5	3	116	151	211	333	0.0	0.2	28.5	0.0	3.1	0.0
11	51.7	33.0	42.4	4.9	3.7	4.1	18	11	5	1	-7777	0	397	451	535	680	0.0	0.0	16.4	1.5	14.4	0.1
12	37.7	21.6	29.7	5.5	5.4	5.3	-7777	-7777	-7777	0	0	0	786	848	941	1096	0.0	0.0	4.4	9.1	25.3	1.6
Summary	62.1	42.8	52.4	4.1	3.7	3.7	2660	2309	1826	1129	586	422	3555	3939	4547	5674	1.3	21.3	252.5	34.3	115.5	6.1

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CANTON LOCK AND DAM 20, MO US**

GHCND:USC00231275
Elev: 490 ft. Lat: 40.143° N Lon: 91.516° W

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	.25	.50	.75
1	1.46	6.7	3.2	0.8	0.3	0.62	1.43	2.19
2	1.75	6.9	4.0	1.0	0.3	1.06	1.60	2.48
3	2.67	8.9	5.4	1.6	0.4	1.33	2.13	3.35
4	3.75	10.5	7.3	2.4	0.9	2.58	3.82	5.02
5	5.14	11.7	8.4	3.3	1.4	3.13	4.90	6.96
6	4.16	9.7	6.6	2.9	1.1	2.67	3.85	4.37
7	4.45	8.9	6.4	3.0	1.1	2.20	3.44	6.31
8	3.86	8.4	5.7	2.5	1.0	1.70	3.63	5.01
9	3.93	7.3	5.3	2.6	1.2	2.20	2.94	4.72
10	3.06	7.9	5.5	2.1	0.9	1.89	2.52	3.93
11	3.06	8.6	5.4	2.4	0.8	1.30	3.17	4.08
12	2.16	7.5	4.3	1.4	0.3	1.15	2.18	2.83
Summary	39.45	103.0	67.5	26.0	9.7	21.83	35.61	51.25

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Station: **CANTON LOCK AND DAM 20, MO US**

GHCND:USC00231275
Elev: 490 ft. Lat: 40.143° N Lon: 91.516° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	30	143	397	707	970	1130	1079	796	463	163	26
45	4	11	79	272	553	820	975	924	647	323	92	9
50	1	3	40	168	401	670	820	769	499	201	44	3
55	-7777	-7777	18	92	264	521	665	614	358	110	18	-7777
60	0	-7777	7	44	149	373	510	459	229	50	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	10	21	92	229	423	653	780	736	509	272	91	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	44	187	584	1291	2261	3391	4470	5266	5729	5892	5918
45	4	15	94	366	919	1739	2714	3638	4285	4608	4700	4709
50	1	4	44	212	613	1283	2103	2872	3371	3572	3616	3619
55	0	0	18	110	374	895	1560	2174	2532	2642	2660	2660
60	0	0	7	51	200	573	1083	1542	1771	1821	1826	1826
Growing Degree Units for Corn (Monthly)												
50/86	10	31	123	352	775	1428	2208	2944	3453	3725	3816	3830

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

M indicates the value is missing

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www.ncdc.noaa.gov

Station: **POPLAR BLUFF MUNICIPAL AIRPORT, MO US**

GHCND:USW00003975
 Elev: 327 ft. Lat: 36.772° N Lon: 90.325° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.8	26.7	35.2	5.0	3.9	4.2	3	1	-7777	0	0	0	615	675	767	922	0.0	0.0	9.9	5.1	23.1	0.1
2	49.3	30.3	39.8	4.4	3.8	3.9	6	3	1	-7777	0	0	431	485	567	706	0.0	0.0	13.8	1.7	17.4	0.0
3	59.0	37.7	48.4	3.5	2.8	3.0	41	28	15	4	-7777	-7777	247	296	376	520	0.0	0.0	24.8	0.2	7.9	0.0
4	69.6	46.6	58.1	3.3	3.4	3.2	156	120	76	26	4	1	63	87	133	233	0.0	0.1	29.5	0.0	1.2	0.0
5	78.5	56.8	67.6	2.6	3.1	2.5	394	335	251	134	52	31	2	5	14	52	0.0	1.1	31.0	0.0	0.0	0.0
6	86.5	65.8	76.2	2.7	2.0	2.1	634	574	484	336	195	145	0	-7777	-7777	2	0.0	8.7	30.0	0.0	0.0	0.0
7	89.7	69.3	79.5	2.4	1.6	1.7	759	697	604	449	295	235	0	0	0	0	0.2	15.6	31.0	0.0	0.0	0.0
8	88.8	66.9	77.9	3.1	2.6	2.5	708	646	553	399	248	191	0	0	0	-7777	0.4	12.9	31.0	0.0	0.0	0.0
9	81.9	58.1	70.0	2.7	2.7	2.3	452	393	309	179	77	48	2	4	9	29	0.0	3.2	30.0	0.0	0.0	0.0
10	71.2	46.5	58.9	3.1	3.2	2.7	175	136	87	34	9	4	56	78	122	224	0.0	0.2	30.8	0.0	1.9	0.0
11	57.4	37.4	47.4	4.1	3.1	3.1	30	19	8	1	-7777	-7777	258	307	386	529	0.0	0.0	22.6	0.0	8.9	0.0
12	46.2	28.4	37.3	5.1	4.8	4.8	4	2	1	-7777	0	0	553	613	704	859	0.0	0.0	11.6	2.9	21.3	0.1
Summary	68.5	47.5	58.0	3.5	3.1	3.0	3362	2954	2389	1562	880	655	2227	2550	3078	4076	0.6	41.8	296.0	9.9	81.7	0.2

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Station: **POPLAR BLUFF MUNICIPAL AIRPORT, MO US**

GHCND:USW00003975
Elev: 327 ft. Lat: 36.772° N Lon: 90.325° W

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	.25	.50	.75
1	3.65	@	@	@	@			
2	3.38	@	@	@	@			
3	4.35	@	@	@	@			
4	4.66	@	@	@	@			
5	4.19	@	@	@	@			
6	3.63	@	@	@	@			
7	3.93	@	@	@	@			
8	3.49	@	@	@	@			
9	3.25	@	@	@	@			
10	4.68	@	@	@	@			
11	4.96	@	@	@	@			
12	4.60	@	@	@	@			
Summary	48.77	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **POPLAR BLUFF MUNICIPAL AIRPORT, MO US**

GHCND:USW00003975
Elev: 327 ft. Lat: 36.772° N Lon: 90.325° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	63	102	282	544	857	1084	1224	1173	900	585	248	78
45	27	48	171	399	702	934	1069	1018	750	433	146	35
50	10	19	90	266	547	784	914	863	600	292	73	13
55	3	6	41	156	394	634	759	708	452	175	30	4
60	-7777	1	15	76	251	484	604	553	309	87	8	1
Growing Degree Units for Corn (Monthly)												
50/86	34	61	165	328	552	747	846	804	596	360	137	40

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	63	165	447	991	1848	2932	4156	5329	6229	6814	7062	7140
45	27	75	246	645	1347	2281	3350	4368	5118	5551	5697	5732
50	10	29	119	385	932	1716	2630	3493	4093	4385	4458	4471
55	3	9	50	206	600	1234	1993	2701	3153	3328	3358	3362
60	0	1	16	92	343	827	1431	1984	2293	2380	2388	2389
Growing Degree Units for Corn (Monthly)												
50/86	34	95	260	588	1140	1887	2733	3537	4133	4493	4630	4670

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MOUNTAIN GROVE 2 N, MO US**

GHCND:USC00235834
 Elev: 1450 ft. Lat: 37.154° N Lon: 92.262° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.9	21.4	31.2	5.0	4.6	4.6	1	1	-7777	0	0	0	741	802	894	1049	0.0	0.0	7.5	7.3	25.7	1.4
2	45.9	25.4	35.7	4.9	4.6	4.6	3	2	-7777	-7777	0	0	545	600	682	822	0.0	0.0	11.5	4.2	20.8	0.5
3	55.4	33.7	44.5	3.8	3.5	3.5	30	20	10	2	-7777	-7777	354	406	489	636	0.0	0.0	21.0	1.0	14.1	0.0
4	65.7	43.5	54.6	4.0	3.5	3.5	114	86	53	17	3	1	126	158	215	329	0.0	0.0	27.1	-7777	3.5	0.0
5	73.9	53.1	63.5	2.9	3.3	2.9	278	227	158	69	18	9	15	26	49	116	0.0	0.0	31.0	0.0	-7777	0.0
6	82.0	62.0	72.0	2.8	2.3	2.3	511	451	363	225	107	69	1	1	3	15	0.0	2.1	30.0	0.0	0.0	0.0
7	86.8	66.3	76.6	2.3	1.8	1.8	668	606	513	359	212	158	0	0	-7777	1	0.1	8.7	31.0	0.0	0.0	0.0
8	87.3	64.9	76.1	4.0	3.3	3.5	654	592	500	349	208	158	-7777	-7777	1	5	0.4	11.7	31.0	0.0	0.0	0.0
9	78.8	56.1	67.5	3.0	3.1	2.8	384	330	254	143	61	39	11	17	31	69	0.1	1.7	29.9	0.0	0.2	0.0
10	67.6	45.2	56.4	3.3	3.0	2.8	138	104	63	20	4	1	94	123	175	287	0.0	0.0	29.8	0.0	2.5	0.0
11	55.4	35.2	45.3	4.9	3.8	4.1	29	19	9	1	-7777	0	320	370	450	592	0.0	0.0	19.8	0.8	11.8	0.0
12	42.9	24.4	33.7	5.3	5.3	5.2	3	1	-7777	0	0	0	664	725	817	972	0.0	0.0	8.8	5.5	24.2	1.0
Summary	65.2	44.3	54.8	3.9	3.5	3.5	2813	2439	1923	1185	613	435	2871	3228	3806	4893	0.6	24.2	278.4	18.8	102.8	2.9

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National Climatic Data Center
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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **MOUNTAIN GROVE 2 N, MO US**

GHCND:USC00235834

Elev: 1450 ft. Lat: 37.154° N Lon: 92.262° W

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	.25	.50	.75
1	2.50	6.8	4.9	1.6	0.7	1.16	2.21	3.41
2	2.90	7.8	4.8	2.1	0.9	1.82	2.46	4.03
3	3.99	9.3	7.0	2.7	0.9	2.40	3.58	5.29
4	4.45	9.8	7.1	3.4	1.4	3.07	4.41	6.04
5	5.09	10.7	8.1	3.5	1.6	3.49	4.70	6.19
6	3.80	8.7	6.7	2.6	1.2	2.26	3.82	5.02
7	4.20	7.7	6.0	3.0	1.3	2.62	3.78	5.06
8	2.98	7.0	5.5	2.4	0.6	1.62	2.50	3.86
9	4.41	7.1	5.5	2.8	1.4	3.04	3.83	5.24
10	3.65	7.8	5.8	2.8	1.1	2.48	3.04	5.88
11	4.53	8.1	6.3	3.2	1.5	2.02	4.26	6.69
12	3.48	7.8	5.5	2.6	1.1	1.80	2.68	4.06
Summary	45.98	98.6	73.2	32.7	13.7	27.78	41.27	60.77

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**Summary of
Monthly Normals
1981-2010**

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Asheville, North Carolina 28801
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Station: **MOUNTAIN GROVE 2 N, MO US**

GHCND:USC00235834
Elev: 1450 ft. Lat: 37.154° N Lon: 92.262° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.9	2.4	1.5	0.5	0.1	0.0	6.2	3.4	1.4	0.1	1.3	2.8	6.5
2	2.8	2.1	1.1	0.3	0.1	0.0	4.4	2.3	1.0	0.1	0.8	1.5	3.3
3	1.9	0.9	0.5	0.2	0.1	-7777	1.3	0.5	0.2	-7777	0.0	0.5	3.0
4	-7777	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	-7777	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
11	0.2	0.3	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12	3.1	1.7	0.9	0.3	0.1	0.0	3.8	1.9	1.1	0.1	0.0	2.5	4.3
Summary	11.9	7.4	4.1	1.3	0.4	0.0	15.9	8.1	3.7	0.3	2.1	7.3	17.1

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Summary of Monthly Normals 1981-2010

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www.ncdc.noaa.gov

Station: **MOUNTAIN GROVE 2 N, MO US**

GHCND:USC00235834
Elev: 1450 ft. Lat: 37.154° N Lon: 92.262° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	74	217	446	728	960	1133	1119	823	512	223	56
45	17	33	129	316	574	810	978	964	674	367	136	24
50	6	12	68	202	421	660	823	809	527	240	69	9
55	1	3	30	114	278	511	668	654	384	138	29	3
60	-7777	-7777	10	53	158	363	513	500	254	63	9	-7777
Growing Degree Units for Corn (Monthly)												
50/86	29	50	134	265	450	651	783	758	535	306	128	33

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	116	333	779	1507	2467	3600	4719	5542	6054	6277	6333
45	17	50	179	495	1069	1879	2857	3821	4495	4862	4998	5022
50	6	18	86	288	709	1369	2192	3001	3528	3768	3837	3846
55	1	4	34	148	426	937	1605	2259	2643	2781	2810	2813
60	0	0	10	63	221	584	1097	1597	1851	1914	1923	1923
Growing Degree Units for Corn (Monthly)												
50/86	29	79	213	478	928	1579	2362	3120	3655	3961	4089	4122

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: SALEM, MO US

GHCND:USC00237506
 Elev: 1200 ft. Lat: 37.633° N Lon: 91.536° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.5	23.4	33.9	4.8	4.7	4.5	3	2	1	-7777	0	0	656	716	808	963	0.0	0.0	10.5	4.9	24.0	1.2
2	49.6	27.3	38.5	4.3	4.5	4.2	8	5	2	-7777	-7777	0	471	524	605	744	0.0	0.0	13.8	2.4	18.6	0.4
3	59.6	36.3	48.0	4.0	3.3	3.5	54	39	22	7	1	-7777	273	319	396	535	0.0	0.0	24.3	0.4	11.5	-7777
4	70.0	46.1	58.0	3.8	3.5	3.4	172	137	93	40	10	5	81	105	152	249	0.0	0.3	28.9	0.0	2.7	0.0
5	77.6	55.0	66.3	3.0	3.3	2.9	357	301	223	117	43	24	6	12	28	77	0.0	0.8	31.0	0.0	0.1	0.0
6	85.2	63.1	74.2	2.6	2.0	2.1	575	515	426	282	153	109	-7777	-7777	1	8	0.2	5.6	30.0	0.0	0.0	0.0
7	89.6	67.6	78.6	2.5	2.1	2.1	732	670	577	422	271	213	0	0	-7777	-7777	0.6	16.1	31.0	0.0	0.0	0.0
8	89.6	66.2	77.9	3.6	2.7	3.0	710	648	555	401	254	200	0	-7777	-7777	2	1.4	14.9	31.0	0.0	0.0	0.0
9	81.2	57.6	69.4	2.8	2.8	2.6	438	381	301	179	85	57	6	9	19	47	0.1	3.1	30.0	0.0	0.1	0.0
10	70.7	47.1	58.9	3.0	2.7	2.5	184	145	95	37	9	4	63	86	129	226	0.0	0.1	30.5	0.0	2.1	0.0
11	58.6	37.3	47.9	5.2	3.8	4.2	51	36	19	5	1	-7777	263	308	381	516	0.0	0.0	22.4	0.3	10.0	0.0
12	46.1	26.5	36.3	5.3	5.6	5.2	6	3	1	-7777	0	0	585	645	736	890	0.0	0.0	12.0	3.6	21.2	0.8
Summary	68.5	46.1	57.3	3.7	3.4	3.4	3290	2882	2315	1490	827	612	2404	2724	3255	4257	2.3	40.9	295.4	11.6	90.3	2.4

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SALEM, MO US**

GHCND:USC00237506
Elev: 1200 ft. Lat: 37.633° N Lon: 91.536° W

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	.25	.50	.75
1	2.54	8.4	4.5	1.4	0.7	1.41	2.45	3.21
2	2.64	8.2	4.9	1.8	0.6	1.52	2.48	3.72
3	4.00	10.0	7.0	2.5	0.8	2.68	3.55	5.21
4	4.47	10.8	7.3	3.0	1.3	2.15	4.28	5.63
5	5.39	11.9	7.9	3.9	1.7	3.49	4.68	7.20
6	4.20	10.3	6.7	2.9	1.0	2.60	3.54	5.95
7	3.55	9.2	5.7	2.7	0.8	2.29	3.37	4.62
8	4.01	7.8	5.4	2.8	1.1	2.07	3.51	4.97
9	4.42	7.5	5.2	3.0	1.4	1.90	3.62	5.82
10	3.87	9.0	5.9	2.6	1.2	2.43	3.32	5.66
11	4.54	10.2	6.4	3.1	1.3	2.36	4.56	6.20
12	3.54	9.7	5.8	2.4	0.8	1.73	2.86	4.10
Summary	47.17	113.0	72.7	32.1	12.7	26.63	42.22	62.29

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 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: SALEM, MO US

GHCND:USC00237506
 Elev: 1200 ft. Lat: 37.633° N Lon: 91.536° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	0.2	0.3	0.3	0.2	0.1	-7777	@	@	@	@	0.0	0.0	0.0
2	0.5	0.2	0.2	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
3	0.4	0.1	-7777	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
Summary	1.2	0.6	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Station: SALEM, MO US

GHCND:USC00237506
 Elev: 1200 ft. Lat: 37.633° N Lon: 91.536° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	63	104	294	545	815	1024	1197	1175	882	588	283	83
45	28	53	189	405	660	874	1041	1020	732	439	183	40
50	12	23	109	278	506	724	887	865	583	301	105	17
55	3	8	54	172	357	575	732	710	438	184	51	6
60	1	2	22	93	223	426	577	555	301	95	19	1
Growing Degree Units for Corn (Monthly)												
50/86	43	70	185	340	527	698	817	792	583	366	167	49

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	63	167	461	1006	1821	2845	4042	5217	6099	6687	6970	7053
45	28	81	270	675	1335	2209	3250	4270	5002	5441	5624	5664
50	12	35	144	422	928	1652	2539	3404	3987	4288	4393	4410
55	3	11	65	237	594	1169	1901	2611	3049	3233	3284	3290
60	1	3	25	118	341	767	1344	1899	2200	2295	2314	2315
Growing Degree Units for Corn (Monthly)												
50/86	43	113	298	638	1165	1863	2680	3472	4055	4421	4588	4637

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CONCORDIA, MO US**

GHCND:USC00231837
Elev: 765 ft. Lat: 38.978° N Lon: 93.570° W

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	.25	.50	.75
1	1.45	6.2	3.5	0.8	0.2	0.80	1.61	1.85
2	1.94	5.8	3.7	1.0	0.4	1.02	1.61	2.39
3	2.89	8.3	5.6	1.8	0.7	1.94	2.79	3.94
4	4.18	9.7	6.8	2.8	1.4	2.47	3.91	5.66
5	5.37	11.0	7.7	3.5	1.5	2.57	4.89	6.72
6	5.26	9.4	7.2	3.3	1.8	3.75	4.90	6.74
7	4.51	7.6	5.8	2.8	1.6	2.17	3.95	6.52
8	3.98	7.1	5.1	2.7	1.3	2.57	3.55	5.39
9	4.61	7.8	5.6	2.8	1.4	2.23	3.38	6.06
10	3.60	8.1	5.9	2.4	1.1	1.72	3.57	5.30
11	2.97	7.3	4.6	2.0	0.8	1.64	2.43	3.75
12	2.22	6.8	4.3	1.6	0.5	1.12	2.19	2.98
Summary	42.98	95.1	65.8	27.5	12.7	24.00	38.78	57.30

@ Denotes mean number of days greater than 0 but less than 0.05.

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CONCORDIA, MO US**

GHCND:USC00231837
 Elev: 765 ft. Lat: 38.978° N Lon: 93.570° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.8	3.0	1.7	0.7	0.2	0.0	7.6	4.0	2.0	0.1	1.0	3.3	8.0
2	4.0	2.4	1.7	0.4	0.1	0.0	5.2	2.2	1.3	0.2	1.2	3.0	6.5
3	1.4	0.8	0.6	0.2	0.1	0.0	1.0	0.3	0.1	0.0	0.0	0.1	2.5
4	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	0.1	0.1	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.4	0.3	-7777	0.0	0.0	0.5	0.1	-7777	0.0	0.0	0.0	0.5
12	3.7	2.3	1.5	0.5	0.1	-7777	5.2	3.0	1.8	0.3	0.5	2.4	6.8
Summary	14.8	9.1	6.0	1.8	0.5	0.0	19.6	9.6	5.2	0.6	2.7	8.8	24.3

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LONG BRANCH RESERVOIR, MO US**

GHCND:USC00235050
Elev: 820 ft. Lat: 39.750° N Lon: 92.506° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.8	17.4	26.1	5.1	5.6	5.2	-7777	-7777	0	0	0	0	896	958	1051	1206	0.0	0.0	3.6	12.6	28.4	2.4
2	40.0	21.5	30.8	5.5	5.7	5.5	1	1	-7777	-7777	0	0	680	735	819	959	0.0	0.0	6.1	7.4	23.5	1.1
3	52.3	31.7	42.0	4.7	3.2	3.7	25	17	9	2	-7777	-7777	428	482	567	715	0.0	0.0	17.0	1.5	16.5	0.1
4	64.0	42.1	53.0	4.2	3.1	3.6	92	69	42	16	3	1	151	188	251	374	0.0	0.0	26.4	-7777	3.9	0.0
5	73.5	52.6	63.1	3.4	3.3	3.2	269	219	153	72	25	14	20	31	58	133	0.0	0.3	31.0	0.0	0.0	0.0
6	82.8	61.9	72.4	2.2	2.1	2.0	521	461	373	234	116	78	-7777	1	3	14	0.0	4.1	30.0	0.0	0.0	0.0
7	87.4	66.7	77.0	2.5	2.0	2.0	683	621	528	374	225	171	0	-7777	-7777	1	0.6	10.9	31.0	0.0	0.0	0.0
8	86.4	64.3	75.3	3.8	3.1	3.3	631	569	476	324	183	136	-7777	-7777	-7777	3	0.3	9.7	31.0	0.0	0.0	0.0
9	78.4	54.9	66.6	3.4	2.7	2.8	360	306	230	125	53	34	11	17	31	76	0.0	2.0	30.0	0.0	0.0	0.0
10	66.4	43.1	54.7	2.9	2.4	2.4	115	87	52	17	5	3	123	156	215	335	0.0	0.1	28.4	0.0	2.8	0.0
11	51.5	32.0	41.8	5.4	4.2	4.5	20	13	6	1	-7777	-7777	418	471	554	698	0.0	0.0	16.4	1.6	16.0	0.0
12	38.0	21.4	29.7	5.5	5.1	5.2	1	-7777	-7777	0	0	0	785	846	939	1094	0.0	0.0	5.1	9.4	26.4	1.5
Summary	63.0	42.5	52.7	4.1	3.5	3.6	2718	2363	1869	1165	610	437	3512	3885	4488	5608	0.9	27.1	256.0	32.5	117.5	5.1

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LONG BRANCH RESERVOR, MO US**

GHCND:USC00235050
Elev: 820 ft. Lat: 39.750° N Lon: 92.506° W

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	.25	.50	.75
1	1.42	6.8	3.6	0.9	0.2	0.64	1.35	2.13
2	1.96	6.5	3.7	1.2	0.5	1.15	1.91	2.35
3	2.73	8.9	5.7	1.6	0.5	1.93	2.73	3.39
4	3.87	11.1	7.6	3.0	1.0	2.28	3.99	5.00
5	5.61	12.6	8.0	3.4	1.7	4.27	4.79	6.72
6	5.02	11.8	7.6	3.5	1.9	1.96	4.03	8.21
7	4.64	10.1	7.0	3.1	1.3	2.50	3.48	5.91
8	3.63	8.9	5.4	2.8	1.2	1.95	3.14	4.85
9	4.53	7.6	5.3	2.9	1.3	2.52	3.43	6.07
10	3.46	8.4	5.5	2.2	1.0	2.07	3.29	4.38
11	3.13	7.6	5.1	1.9	0.8	1.95	2.77	3.97
12	2.05	7.5	4.2	1.0	0.3	1.15	2.03	2.56
Summary	42.05	107.8	68.7	27.5	11.7	24.37	36.94	55.54

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
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Asheville, North Carolina 28801
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Station: **LONG BRANCH RESERVOR, MO US**

GHCND:USC00235050
Elev: 820 ft. Lat: 39.750° N Lon: 92.506° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	33	167	402	714	970	1148	1096	800	463	156	29
45	5	13	96	275	560	820	993	941	650	324	89	11
50	1	4	52	169	408	670	838	786	502	205	45	3
55	-7777	1	25	92	269	521	683	631	360	115	20	1
60	0	-7777	9	42	153	373	528	476	230	52	6	-7777
Growing Degree Units for Corn (Monthly)												
50/86	10	23	107	238	435	654	788	741	511	277	92	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	48	215	617	1331	2301	3449	4545	5345	5808	5964	5993
45	5	18	114	389	949	1769	2762	3703	4353	4677	4766	4777
50	1	5	57	226	634	1304	2142	2928	3430	3635	3680	3683
55	0	1	26	118	387	908	1591	2222	2582	2697	2717	2718
60	0	0	9	51	204	577	1105	1581	1811	1863	1869	1869
Growing Degree Units for Corn (Monthly)												
50/86	10	33	140	378	813	1467	2255	2996	3507	3784	3876	3892

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

M indicates the value is missing

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BROOKFIELD, MO US**

GHCND:USC00230980
Elev: 767 ft. Lat: 39.765° N Lon: 93.059° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	35.0	16.5	25.8	5.6	5.7	5.5	-7777	-7777	0	0	0	0	907	969	1062	1217	0.0	0.0	3.6	12.2	28.4	3.2
2	40.9	20.3	30.6	6.0	6.0	5.9	1	1	-7777	-7777	0	0	684	740	823	963	0.0	0.0	7.6	7.1	24.0	2.1
3	53.0	30.4	41.7	4.5	3.8	3.9	22	15	7	1	-7777	0	434	489	575	723	0.0	0.0	18.0	1.8	17.7	0.1
4	64.3	41.1	52.7	4.5	3.3	3.7	92	69	42	15	3	1	161	198	261	383	0.0	0.0	26.5	0.0	5.5	0.0
5	73.5	52.5	63.0	3.5	3.6	3.4	269	219	152	68	21	11	21	33	59	130	0.0	0.2	30.9	0.0	0.1	0.0
6	82.2	62.1	72.2	2.8	2.1	2.3	515	455	367	229	112	75	-7777	1	3	14	0.1	2.4	30.0	0.0	0.0	0.0
7	86.6	66.5	76.6	2.4	2.0	2.0	668	606	513	359	211	158	0	0	-7777	1	0.1	9.1	31.0	0.0	0.0	0.0
8	85.6	64.7	75.2	3.6	2.8	3.0	625	563	470	318	180	134	-7777	-7777	-7777	3	0.5	8.3	31.0	0.0	0.0	0.0
9	77.9	55.2	66.5	3.0	2.6	2.7	358	305	230	126	54	35	12	19	34	79	0.0	1.8	30.0	0.0	0.2	0.0
10	66.3	43.7	55.0	2.7	2.3	2.3	118	89	54	18	4	2	118	151	209	328	0.0	0.1	28.8	0.1	3.2	0.0
11	51.7	31.6	41.7	5.5	4.1	4.6	17	11	5	-7777	-7777	-7777	418	471	555	701	0.0	0.0	16.5	1.6	16.1	-7777
12	38.2	20.2	29.2	5.6	5.9	5.6	1	-7777	-7777	0	0	0	800	862	955	1110	0.0	0.0	5.3	8.8	26.4	2.3
Summary	62.9	42.1	52.5	4.1	3.7	3.7	2686	2333	1840	1134	585	416	3555	3933	4536	5652	0.7	21.9	259.2	31.6	121.6	7.7

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**Summary of
Monthly Normals
1981-2010**

Station: **BROOKFIELD, MO US**

GHCND:USC00230980
Elev: 767 ft. Lat: 39.765° N Lon: 93.059° W

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	.25	.50	.75
1	1.46	6.7	3.3	0.8	0.3	0.79	1.39	2.17
2	1.69	7.3	3.9	0.9	0.3	0.93	1.39	2.18
3	2.78	9.3	6.1	1.8	0.7	1.40	2.77	3.45
4	3.69	10.7	7.5	2.5	0.8	2.12	3.59	4.75
5	5.22	12.5	8.7	3.2	1.5	3.30	4.29	6.29
6	5.23	11.2	7.7	3.6	1.7	3.06	5.04	6.88
7	5.22	10.0	6.8	3.6	1.7	2.40	3.98	6.65
8	4.44	8.9	5.6	2.7	1.6	2.40	3.94	6.30
9	4.26	8.6	6.0	2.5	1.1	2.32	3.42	5.49
10	3.61	9.2	5.7	2.1	0.9	1.31	3.14	5.54
11	2.79	8.4	5.0	2.0	0.6	1.17	2.35	3.98
12	2.03	7.8	4.5	1.4	0.3	1.11	2.03	2.56
Summary	42.42	110.6	70.8	27.1	11.5	22.31	37.33	56.24

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1981-2010**

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www.ncdc.noaa.gov

Station: **BROOKFIELD, MO US**

GHCND:USC00230980
Elev: 767 ft. Lat: 39.765° N Lon: 93.059° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.6	2.5	1.5	0.3	0.2	0.0	12.0	6.3	3.2	0.6	0.6	2.7	4.2
2	4.1	2.1	1.4	0.4	0.1	0.0	8.5	4.3	2.3	0.4	0.3	1.5	5.6
3	1.5	0.9	0.5	0.1	-7777	0.0	1.6	0.7	0.2	0.0	0.0	0.4	2.1
4	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	1.1	0.8	0.4	0.2	-7777	0.0	0.8	0.4	0.1	0.0	0.0	0.3	1.1
12	4.2	2.6	2.0	0.4	-7777	0.0	8.5	3.6	1.5	0.0	0.2	1.5	7.0
Summary	14.7	9.0	5.9	1.4	0.3	0.0	31.5	15.3	7.3	1.0	1.1	6.4	20.0

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Summary of Monthly Normals 1981-2010

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www.ncdc.noaa.gov

Station: **BROOKFIELD, MO US**

GHCND:USC00230980
Elev: 767 ft. Lat: 39.765° N Lon: 93.059° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	37	165	394	713	964	1133	1089	797	471	158	27
45	4	15	94	269	559	814	978	934	647	331	89	10
50	1	5	49	166	408	664	823	779	500	211	43	4
55	-7777	1	22	92	269	515	668	625	358	118	17	1
60	0	-7777	7	42	152	367	513	470	230	54	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	10	29	112	240	436	651	782	740	511	281	93	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	50	215	609	1322	2286	3419	4508	5305	5776	5934	5961
45	4	19	113	382	941	1755	2733	3667	4314	4645	4734	4744
50	1	6	55	221	629	1293	2116	2895	3395	3606	3649	3653
55	0	1	23	115	384	899	1567	2192	2550	2668	2685	2686
60	0	0	7	49	201	568	1081	1551	1781	1835	1840	1840
Growing Degree Units for Corn (Monthly)												
50/86	10	39	151	391	827	1478	2260	3000	3511	3792	3885	3901

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

M indicates the value is missing

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Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CAPLINGER MILLS, MO US**

GHCND:USC00231304
Elev: 827 ft. Lat: 37.795° N Lon: 93.802° W

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	.25	.50	.75
1	1.66	4.6	3.6	0.8	0.5	0.69	1.55	2.50
2	2.29	4.7	3.7	1.3	0.5	1.10	1.85	3.13
3	3.31	6.9	5.8	1.9	0.9	2.06	2.95	4.70
4	4.26	7.9	6.7	3.1	1.1	2.66	3.82	4.88
5	5.75	9.9	8.7	3.9	1.8	4.41	5.37	7.39
6	5.34	8.7	7.5	3.9	2.1	2.89	4.66	7.00
7	4.05	6.2	5.5	2.8	1.1	2.32	3.14	4.68
8	3.65	5.3	4.9	2.5	1.2	1.49	3.65	5.23
9	4.25	5.8	4.8	2.5	1.1	1.73	3.00	5.56
10	4.01	6.5	5.6	2.4	0.9	1.71	3.10	5.38
11	3.63	6.7	5.3	2.5	1.2	1.50	3.38	5.07
12	2.65	5.3	4.0	1.9	0.6	1.15	2.01	3.90
Summary	44.85	78.5	66.1	29.5	13.0	23.71	38.48	59.42

@ Denotes mean number of days greater than 0 but less than 0.05.

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Station: **CAPLINGER MILLS, MO US**

GHCND:USC00231304
Elev: 827 ft. Lat: 37.795° N Lon: 93.802° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.2	1.5	1.0	0.4	0.1	0.0	0.3	0.1	0.1	0.0	0.0	1.0	5.0
2	1.8	0.9	0.7	0.1	-7777	0.0	0.4	0.1	-7777	0.0	0.0	0.0	3.0
3	1.3	0.5	0.4	0.1	0.1	0.0	0.2	-7777	-7777	-7777	0.0	0.0	1.5
4	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2.5	0.9	0.7	0.3	0.2	-7777	0.4	0.0	0.0	0.0	0.0	0.0	3.8
Summary	9.2	3.9	2.9	1.0	0.4	0.0	1.3	0.2	0.1	0.0	0.0	1.0	13.3

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **EMINENCE 1 N, MO US**

GHCND:USC00232619
 Elev: 640 ft. Lat: 37.156° N Lon: 91.359° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.8	19.2	32.0				2	1	0	0	0	0	715	775	868	1022	0.0	0.0	10.3	4.3	26.7	1.0
2	50.5	22.6	36.6				3	2	1	-7777	0	0	519	574	657	796	0.0	0.0	14.7	0.7	23.7	0.3
3	60.1	33.6	46.9				34	24	12	2	-7777	-7777	287	338	420	565	0.0	0.0	24.5	0.5	14.6	0.0
4	70.8	42.6	56.7				127	95	57	20	6	3	76	104	156	270	0.3	1.0	29.5	0.0	2.9	0.0
5	78.8	53.0	65.9				342	284	201	89	21	10	4	8	18	61	0.0	1.3	31.0	0.0	0.0	0.0
6	86.8	60.9	73.9				565	505	416	268	135	92	-7777	-7777	-7777	2	0.0	9.5	30.0	0.0	0.0	0.0
7	91.6	65.9	78.8				736	674	581	426	273	214	0	0	0	-7777	1.5	21.3	31.0	0.0	0.0	0.0
8	91.4	64.0	77.7				703	641	548	393	246	193	0	0	0	-7777	3.0	18.5	31.0	0.0	0.0	0.0
9	83.1	55.2	69.2				425	366	280	152	63	41	1	2	6	28	0.3	3.3	30.0	0.0	0.0	0.0
10	71.7	43.0	57.4				136	104	66	24	6	3	63	93	148	261	0.0	0.0	31.0	0.0	3.5	0.0
11	60.6	31.1	45.9				10	5	1	-7777	-7777	0	285	339	426	575	0.0	0.0	25.3	0.0	16.4	0.0
12	46.9	23.7	35.3				-7777	-7777	-7777	0	0	0	610	672	765	920	0.0	0.0	11.5	2.3	26.5	0.0
Summary	69.8	42.9	56.4				3083	2701	2163	1374	750	556	2560	2905	3464	4500	5.1	54.9	299.8	7.8	114.3	1.3

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Station: **EMINENCE 1 N, MO US**

GHCND:USC00232619
Elev: 640 ft. Lat: 37.156° N Lon: 91.359° W

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	.25	.50	.75
1	2.31	5.1	4.2	1.9	0.7	0.82	2.39	3.45
2	2.85	5.2	3.9	1.8	0.7	1.63	2.75	4.11
3	4.16	7.4	6.3	2.7	1.2	2.47	3.31	5.06
4	4.12	7.4	5.9	3.0	1.2	2.33	3.85	5.48
5	4.91	8.4	6.9	3.4	2.0	3.27	4.40	5.60
6	3.59	6.7	5.8	2.9	1.2	2.41	3.24	4.76
7	3.85	7.5	5.8	3.2	1.5	2.59	3.68	4.91
8	3.61	6.0	4.6	2.2	0.8	2.32	3.16	4.34
9	4.21	5.8	4.7	2.4	1.6	2.37	3.64	5.81
10	3.54	5.6	4.5	2.1	0.8	1.70	3.09	4.67
11	4.39	6.5	5.1	2.6	1.3	1.75	3.70	6.91
12	3.73	5.7	4.6	2.2	0.7	1.88	2.75	4.78
Summary	45.27	77.3	62.3	30.4	13.7	25.54	39.96	59.88

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Station: **EMINENCE 1 N, MO US**

GHCND:USC00232619
 Elev: 640 ft. Lat: 37.156° N Lon: 91.359° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.6	0.8	0.8	0.4	0.3	0.0	0.4	0.1	0.1	0.0	0.0	0.0	5.5
2	2.1	1.1	0.7	0.3	0.1	0.0	0.8	0.4	0.1	0.0	0.0	0.0	2.7
3	1.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Summary	6.5	2.6	2.0	0.9	0.6	0.1	1.3	0.5	0.2	0.0	0.0	0.0	9.2

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Station: **EMINENCE 1 N, MO US**

GHCND:USC00232619
Elev: 640 ft. Lat: 37.156° N Lon: 91.359° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	55	62	250	501	803	1015	1201	1167	874	538	206	36
45	26	27	146	357	648	865	1046	1013	724	386	111	10
50	10	9	76	230	493	715	891	858	574	245	45	2
55	2	3	34	127	342	565	736	703	425	136	10	-7777
60	0	1	12	57	201	416	581	548	280	66	1	-7777
Growing Degree Units for Corn (Monthly)												
50/86	47	71	184	320	511	677	796	761	566	354	172	37

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	55	117	367	868	1671	2686	3887	5054	5928	6466	6672	6708
45	26	53	199	556	1204	2069	3115	4128	4852	5238	5349	5359
50	10	19	95	325	818	1533	2424	3282	3856	4101	4146	4148
55	2	5	39	166	508	1073	1809	2512	2937	3073	3083	3083
60	0	1	13	70	271	687	1268	1816	2096	2162	2163	2163
Growing Degree Units for Corn (Monthly)												
50/86	47	118	302	622	1133	1810	2606	3367	3933	4287	4459	4496

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

M indicates the value is missing

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Station: **CHILLICOTHE 2 S, MO US**

GHCND:USC00231580
 Elev: 780 ft. Lat: 39.775° N Lon: 93.536° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	36.6	17.5	27.1	5.3	5.3	5.1	-7777	0	0	0	0	0	866	928	1021	1176	0.0	0.0	4.8	10.5	28.4	2.9
2	41.8	21.9	31.9	6.1	6.0	5.9	2	1	-7777	-7777	0	0	650	705	788	928	0.0	0.0	8.0	6.4	22.6	1.7
3	54.0	32.2	43.1	4.6	3.4	3.8	27	19	10	2	-7777	-7777	396	450	534	681	0.0	0.0	18.7	1.5	15.8	0.1
4	65.3	42.8	54.0	4.4	3.2	3.6	108	84	54	21	5	2	137	172	233	350	0.0	0.2	26.8	-7777	3.7	0.0
5	74.9	54.0	64.5	3.5	3.4	3.3	309	257	186	91	33	20	16	26	48	108	0.0	0.7	30.9	0.0	0.0	0.0
6	84.3	63.7	74.0	2.6	2.7	2.5	570	511	422	279	154	112	-7777	1	2	9	0.2	6.4	30.0	0.0	0.0	0.0
7	88.8	68.4	78.6	2.3	2.1	2.0	731	669	576	422	270	213	0	0	-7777	-7777	0.9	13.2	31.0	0.0	0.0	0.0
8	87.5	66.0	76.7	3.8	3.0	3.2	674	612	519	366	224	173	0	-7777	-7777	2	1.5	11.6	31.0	0.0	0.0	0.0
9	79.3	55.9	67.6	3.2	3.0	2.8	387	333	255	145	66	45	10	15	27	67	-7777	2.9	30.0	0.0	0.1	0.0
10	67.9	44.0	55.9	3.1	2.9	2.6	134	103	65	24	7	4	105	136	191	305	0.0	0.2	29.2	0.0	3.2	0.0
11	53.3	33.0	43.1	5.1	3.9	4.2	23	16	8	2	-7777	-7777	379	431	513	657	0.0	0.0	17.4	1.0	14.1	0.1
12	39.8	21.7	30.8	5.6	5.9	5.6	1	1	-7777	0	0	0	753	814	907	1062	0.0	0.0	6.4	7.2	25.9	1.6
Summary	64.5	43.4	53.9	4.1	3.7	3.7	2966	2606	2095	1352	759	569	3312	3678	4264	5345	2.6	35.2	264.2	26.6	113.8	6.4

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Station: **CHILLICOTHE 2 S, MO US**

GHCND:USC00231580
Elev: 780 ft. Lat: 39.775° N Lon: 93.536° W

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	.25	.50	.75
1	1.26	5.9	3.3	0.6	0.1	0.58	0.98	1.72
2	1.65	7.1	4.1	0.7	0.2	0.91	1.37	2.04
3	2.86	8.7	5.4	1.8	0.8	1.69	2.79	3.61
4	3.64	10.6	6.9	2.3	0.9	2.18	3.69	4.90
5	5.22	12.8	8.5	3.3	1.5	3.35	4.51	6.30
6	4.94	10.7	7.3	3.4	1.6	3.20	4.58	6.56
7	4.74	9.6	6.9	3.2	1.5	2.51	4.65	5.75
8	4.41	9.2	5.9	2.7	1.4	2.67	4.15	5.86
9	4.45	8.9	6.2	2.8	1.4	2.47	3.40	5.83
10	3.36	9.5	5.9	2.1	0.8	1.67	3.01	4.59
11	2.51	7.8	4.6	1.7	0.6	1.29	2.16	3.33
12	1.84	7.0	4.0	1.1	0.4	0.98	1.93	2.46
Summary	40.88	107.8	69.0	25.7	11.2	23.50	37.22	52.95

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Station: **CHILLICOTHE 2 S, MO US**

GHCND:USC00231580
 Elev: 780 ft. Lat: 39.775° N Lon: 93.536° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.7	2.6	1.7	0.6	0.1	0.0	@	@	@	@	1.2	2.2	5.8
2	4.7	2.2	1.4	0.5	0.1	0.0	@	@	@	@	0.0	3.0	7.0
3	1.8	0.8	0.6	0.2	0.0	0.0	@	@	@	@	0.0	0.2	2.8
4	0.2	0.1	0.1	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.5	0.4	0.2	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.5
12	4.3	2.4	1.7	0.3	0.1	0.0	@	@	@	@	0.2	2.5	6.0
Summary	15.2	8.5	5.7	1.8	0.3	0.0	0.0	0.0	0.0	0.0	1.4	7.9	22.1

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

**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CHILLICOTHE 2 S, MO US**

GHCND:USC00231580
 Elev: 780 ft. Lat: 39.775° N Lon: 93.536° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	43	187	430	758	1020	1196	1139	828	498	179	31
45	4	18	108	300	603	870	1041	984	678	357	103	11
50	1	6	57	190	451	720	886	829	530	232	52	3
55	-7777	2	27	108	309	570	731	674	387	134	23	1
60	0	-7777	10	54	186	422	576	519	255	65	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	14	32	122	258	469	692	822	772	534	304	109	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	57	244	674	1432	2452	3648	4787	5615	6113	6292	6323
45	4	22	130	430	1033	1903	2944	3928	4606	4963	5066	5077
50	1	7	64	254	705	1425	2311	3140	3670	3902	3954	3957
55	0	2	29	137	446	1016	1747	2421	2808	2942	2965	2966
60	0	0	10	64	250	672	1248	1767	2022	2087	2095	2095
Growing Degree Units for Corn (Monthly)												
50/86	14	46	168	426	895	1587	2409	3181	3715	4019	4128	4149

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: OZARK BEACH, MO US

GHCND:USC00236460
 Elev: 700 ft. Lat: 36.660° N Lon: 93.126° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.2	23.3	33.7	4.7	4.1	3.9	1	1	-7777	0	0	0	660	721	814	969	0.0	0.0	10.2	4.9	25.3	0.5
2	49.2	26.7	38.0	4.7	3.8	3.9	3	1	-7777	0	0	0	480	534	618	757	0.0	0.0	13.4	2.4	20.5	0.2
3	58.5	34.7	46.6	3.6	2.6	2.8	29	18	8	1	-7777	-7777	289	341	423	571	0.0	0.0	23.2	0.5	12.3	0.0
4	68.6	43.2	55.9	3.9	3.1	3.3	121	90	53	16	3	1	94	123	176	289	0.0	0.2	28.2	0.0	3.0	0.0
5	76.3	53.1	64.7	3.1	2.8	2.7	309	254	179	80	23	12	8	15	33	90	0.0	0.6	31.0	0.0	0.0	0.0
6	84.3	62.3	73.3	2.9	2.3	2.4	549	489	400	257	132	90	-7777	-7777	1	9	-7777	4.8	30.0	0.0	0.0	0.0
7	88.9	66.1	77.5	2.2	1.8	1.5	697	635	542	388	236	179	0	0	-7777	-7777	0.3	13.9	31.0	0.0	0.0	0.0
8	88.9	64.7	76.8	3.5	2.6	2.8	676	614	521	367	220	167	0	-7777	-7777	2	0.9	14.3	31.0	0.0	0.0	0.0
9	81.0	56.7	68.8	2.9	2.4	2.3	420	363	282	161	68	42	4	8	17	45	0.3	3.3	30.0	0.0	0.0	0.0
10	70.1	45.2	57.6	3.0	2.8	2.2	149	113	69	21	4	1	67	93	141	249	0.0	0.1	30.3	0.0	2.2	0.0
11	58.2	35.5	46.9	4.5	3.0	3.2	27	17	7	1	-7777	-7777	272	321	402	546	0.0	0.0	22.5	0.3	11.4	0.0
12	46.1	26.5	36.3	5.3	4.6	4.8	3	2	-7777	0	0	0	582	643	735	890	0.0	0.0	11.8	3.2	23.1	0.5
Summary	67.9	44.8	56.3	3.7	3.0	3.0	2984	2597	2061	1292	686	492	2456	2799	3360	4417	1.5	37.2	292.6	11.3	97.8	1.2

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **OZARK BEACH, MO US**

GHCND:USC00236460
Elev: 700 ft. Lat: 36.660° N Lon: 93.126° W

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	.25	.50	.75
1	2.48	5.5	4.0	1.7	0.8	0.88	2.25	3.85
2	2.61	5.8	4.5	1.9	0.6	1.35	2.31	3.76
3	3.90	7.5	6.2	2.9	1.1	2.07	3.23	5.69
4	3.95	7.9	6.0	3.1	1.1	2.42	3.20	5.79
5	4.60	9.8	7.8	3.2	1.1	3.24	3.94	5.64
6	4.52	8.7	6.7	2.9	1.3	2.42	3.80	6.19
7	3.93	7.0	5.5	2.8	1.4	2.40	3.23	5.21
8	2.90	6.9	4.9	2.0	0.9	1.57	2.55	3.77
9	4.27	7.2	5.6	2.9	1.4	2.08	3.82	5.59
10	3.34	7.4	5.3	2.3	1.0	1.74	3.15	4.21
11	4.06	6.6	5.3	2.8	1.4	1.62	4.14	5.93
12	3.13	6.7	4.9	2.1	0.8	1.28	2.58	4.12
Summary	43.69	87.0	66.7	30.6	12.9	23.07	38.20	59.75

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **OZARK BEACH, MO US**

GHCND:USC00236460
Elev: 700 ft. Lat: 36.660° N Lon: 93.126° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.6	1.1	1.0	0.4	0.1	0.0	2.8	1.3	0.2	0.0	0.0	1.9	4.0
2	2.5	1.3	1.2	0.2	-7777	0.0	2.5	0.6	0.1	0.0	0.0	2.0	3.6
3	1.0	0.2	0.2	0.1	-7777	-7777	0.4	0.2	0.1	0.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2.1	0.8	0.7	0.3	0.2	0.0	2.2	0.9	0.4	0.1	0.0	0.0	2.5
Summary	8.2	3.4	3.1	1.0	0.3	0.0	7.9	3.0	0.8	0.2	0.0	3.9	10.1

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **OZARK BEACH, MO US**

GHCND:USC00236460
Elev: 700 ft. Lat: 36.660° N Lon: 93.126° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	81	246	480	766	999	1162	1140	865	548	243	67
45	18	34	143	341	611	849	1007	986	715	399	143	28
50	6	12	71	218	457	699	852	831	566	261	70	11
55	1	3	29	121	309	549	697	676	420	149	27	3
60	-7777	-7777	8	53	179	400	542	521	282	69	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	42	69	164	298	480	676	790	763	565	341	154	49

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	128	374	854	1620	2619	3781	4921	5786	6334	6577	6644
45	18	52	195	536	1147	1996	3003	3989	4704	5103	5246	5274
50	6	18	89	307	764	1463	2315	3146	3712	3973	4043	4054
55	1	4	33	154	463	1012	1709	2385	2805	2954	2981	2984
60	0	0	8	61	240	640	1182	1703	1985	2054	2061	2061
Growing Degree Units for Corn (Monthly)												
50/86	42	111	275	573	1053	1729	2519	3282	3847	4188	4342	4391

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

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WASHINGTON, MO US**

GHCND:USC00238746
Elev: 487 ft. Lat: 38.542° N Lon: 90.975° W

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	.25	.50	.75
1	2.45	8.3	4.6	1.7	0.9	1.20	2.11	3.11
2	2.36	7.8	4.4	1.5	0.6	1.46	2.14	3.78
3	3.41	10.1	6.6	2.4	0.6	2.34	3.36	4.26
4	3.65	11.1	7.2	3.0	1.0	2.33	3.22	4.41
5	4.95	12.9	8.2	3.3	1.5	2.83	4.32	5.63
6	4.09	10.3	6.9	3.1	1.1	3.24	3.89	4.67
7	4.12	8.5	5.6	2.8	1.1	2.29	3.90	4.91
8	3.28	7.6	5.5	2.4	0.8	1.99	3.01	4.30
9	3.93	7.5	5.0	2.5	1.1	2.05	3.23	5.27
10	3.90	8.8	5.6	2.6	1.2	2.46	3.07	5.22
11	4.22	8.4	5.8	2.8	0.9	1.89	3.87	5.94
12	3.11	8.2	4.6	1.3	0.6	1.85	3.12	3.52
Summary	43.47	109.5	70.0	29.4	11.4	25.93	39.24	55.02

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Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WASHINGTON, MO US**

GHCND:USC00238746
Elev: 487 ft. Lat: 38.542° N Lon: 90.975° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.9	1.7	1.2	0.3	0.1	0.0	@	@	@	@	0.3	2.7	4.6
2	1.4	1.4	0.6	0.2	0.0	0.0	@	@	@	@	0.0	0.0	2.5
3	0.7	0.4	0.2	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.1
4	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.3	0.2	0.2	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	2.9	1.6	0.9	0.4	0.2	0.0	@	@	@	@	0.0	2.1	5.4
Summary	8.3	5.4	3.2	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.3	4.8	12.6

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**Summary of
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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BUFFALO, MO US**

GHCND:USC00231087
Elev: 1086 ft. Lat: 37.667° N Lon: 93.107° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.1	19.6	30.3	5.4	4.6	4.8	1	1	-7777	-7777	0	0	765	827	919	1074	0.0	0.0	8.4	7.5	26.4	1.8
2	46.7	23.6	35.1	5.2	4.4	4.6	3	2	1	-7777	0	0	559	613	696	836	0.0	0.0	11.8	4.1	21.2	1.0
3	56.6	32.8	44.7	4.2	3.0	3.4	31	21	10	2	-7777	-7777	350	402	485	631	0.0	0.0	21.6	0.8	15.4	0.0
4	66.5	42.3	54.4	3.8	3.2	3.4	109	83	51	16	2	1	127	161	219	334	0.0	0.0	27.8	0.0	5.1	0.0
5	74.2	52.0	63.1	3.1	3.2	3.0	269	218	150	65	17	8	18	29	54	124	0.0	0.0	30.9	0.0	0.4	0.0
6	81.8	60.4	71.1	3.2	2.4	2.5	483	424	337	200	88	55	-7777	1	4	17	0.0	1.8	30.0	0.0	0.0	0.0
7	87.0	64.9	75.9	2.9	2.2	2.2	649	587	494	341	196	145	0	-7777	-7777	2	0.6	9.8	31.0	0.0	0.0	0.0
8	87.2	63.6	75.4	3.6	2.7	3.0	632	570	478	328	191	143	-7777	-7777	1	6	0.6	10.4	31.0	0.0	0.0	0.0
9	78.7	54.3	66.5	2.8	3.2	2.7	359	305	231	126	54	34	14	20	36	81	0.0	1.6	30.0	0.0	0.5	0.0
10	68.1	43.7	55.9	3.3	2.7	2.6	128	97	58	19	4	2	100	131	185	301	0.0	0.0	29.9	-7777	4.1	0.0
11	55.7	33.5	44.6	5.3	3.9	4.3	27	18	8	1	-7777	-7777	339	390	470	613	0.0	0.0	20.7	0.6	13.9	0.0
12	43.4	22.6	33.0	5.3	5.3	5.2	3	1	-7777	-7777	0	0	684	745	837	992	0.0	0.0	9.4	5.4	24.5	1.2
Summary	65.6	42.8	54.2	4.0	3.4	3.5	2694	2327	1818	1098	552	388	2956	3319	3906	5011	1.2	23.6	282.5	18.4	111.5	4.0

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BUFFALO, MO US**

GHCND:USC00231087
Elev: 1086 ft. Lat: 37.667° N Lon: 93.107° W

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	.25	.50	.75
1	2.12	6.2	4.1	1.2	0.5	1.05	1.90	2.90
2	2.26	6.9	4.4	1.6	0.3	1.51	2.14	3.00
3	3.57	9.3	6.6	2.8	0.8	1.87	3.08	4.56
4	4.42	9.4	6.6	3.0	1.5	2.62	3.91	5.51
5	5.17	11.2	8.4	3.4	1.3	3.43	4.82	6.42
6	4.53	9.8	7.5	3.4	0.9	2.63	4.67	5.95
7	3.62	7.9	5.6	2.5	0.9	1.83	3.85	5.15
8	4.03	7.5	5.8	2.8	1.4	2.37	3.91	5.57
9	4.25	7.5	5.3	2.6	1.4	1.82	2.99	5.03
10	3.75	8.4	6.1	2.4	1.0	1.74	3.49	5.42
11	4.27	8.9	6.6	3.1	1.3	2.36	3.51	5.59
12	2.76	6.6	5.0	1.9	0.8	1.37	2.59	3.38
Summary	44.75	99.6	72.0	30.7	12.1	24.60	40.86	58.48

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BUFFALO, MO US**

GHCND:USC00231087
Elev: 1086 ft. Lat: 37.667° N Lon: 93.107° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.3	2.0	1.5	0.7	0.1	-7777	7.2	4.1	1.2	0.2	2.3	4.5	6.5
2	3.1	2.3	1.3	0.4	0.1	-7777	4.0	2.0	0.8	0.1	0.5	1.8	3.8
3	1.5	0.7	0.6	0.2	0.1	-7777	0.9	0.4	0.2	0.1	0.0	0.0	1.9
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.3	0.3	-7777	-7777	0.0	0.5	0.1	0.1	0.0	0.0	0.0	0.8
12	3.2	1.5	1.2	0.3	0.2	0.0	4.3	2.5	1.3	0.0	0.0	2.0	6.4
Summary	13.7	6.8	4.9	1.6	0.5	0.0	16.9	9.1	3.6	0.4	2.8	8.3	19.4

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BUFFALO, MO US**

GHCND:USC00231087
Elev: 1086 ft. Lat: 37.667° N Lon: 93.107° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	76	219	439	716	933	1114	1097	795	498	209	53
45	18	37	133	308	562	783	959	942	645	354	123	24
50	6	15	71	195	410	633	804	787	498	228	63	10
55	1	3	31	109	269	483	649	632	359	128	27	3
60	-7777	1	10	51	150	337	494	478	231	58	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	32	57	147	274	446	627	760	737	519	309	129	36

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	119	338	777	1493	2426	3540	4637	5432	5930	6139	6192
45	18	55	188	496	1058	1841	2800	3742	4387	4741	4864	4888
50	6	21	92	287	697	1330	2134	2921	3419	3647	3710	3720
55	1	4	35	144	413	896	1545	2177	2536	2664	2691	2694
60	0	1	11	62	212	549	1043	1521	1752	1810	1818	1818
Growing Degree Units for Corn (Monthly)												
50/86	32	89	236	510	956	1583	2343	3080	3599	3908	4037	4073

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLEARWATER DAM, MO US**

GHCND:USC00231674
 Elev: 660 ft. Lat: 37.132° N Lon: 90.776° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.8	22.7	33.2	4.6	4.3	4.1	3	2	1	-7777	0	0	677	738	830	984	0.0	0.0	10.2	5.1	25.5	0.9
2	49.5	26.3	37.9	4.8	4.4	4.2	5	3	2	-7777	0	0	483	537	620	759	0.0	0.0	13.8	2.4	20.2	0.4
3	59.6	34.2	46.9	4.4	2.9	3.3	40	28	16	4	-7777	-7777	291	341	422	565	0.0	0.0	23.5	0.2	14.0	0.0
4	70.5	44.5	57.5	4.2	3.1	3.4	154	121	80	33	9	4	79	106	155	258	0.0	0.6	28.9	0.0	2.5	0.0
5	78.4	54.1	66.2	2.9	3.3	2.8	354	297	218	111	40	22	5	10	25	72	0.0	1.4	31.0	0.0	0.0	0.0
6	86.5	63.1	74.8	2.5	2.2	2.1	594	534	445	299	168	122	-7777	-7777	1	5	0.1	9.3	30.0	0.0	0.0	0.0
7	90.7	67.4	79.1	2.4	2.3	2.1	745	683	590	436	284	225	0	0	0	-7777	1.1	18.4	31.0	0.0	0.0	0.0
8	89.9	65.6	77.7	3.5	2.9	3.0	705	643	550	397	248	193	0	-7777	-7777	2	1.6	15.1	31.0	0.0	0.0	0.0
9	81.5	56.5	69.0	2.7	2.7	2.3	425	368	286	166	77	52	5	8	17	47	0.1	3.8	30.0	0.0	0.0	0.0
10	69.7	44.7	57.2	2.5	2.8	2.2	142	107	66	23	4	2	74	101	153	265	0.0	0.1	30.6	0.0	2.3	0.0
11	58.5	35.4	46.9	4.5	2.5	3.2	33	22	11	2	-7777	-7777	275	323	402	544	0.0	0.0	22.9	0.1	11.5	0.0
12	45.3	25.3	35.3	5.4	5.3	5.1	4	2	1	-7777	0	0	614	675	766	921	0.0	0.0	11.0	3.6	23.1	0.5
Summary	68.7	45.0	56.8	3.7	3.2	3.2	3204	2810	2266	1471	830	620	2503	2839	3391	4422	2.9	48.7	293.9	11.4	99.1	1.8

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**Summary of
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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLEARWATER DAM, MO US**

GHCND:USC00231674
Elev: 660 ft. Lat: 37.132° N Lon: 90.776° W

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	.25	.50	.75
1	2.98	7.3	4.8	1.7	0.8	1.22	2.64	4.00
2	3.35	7.5	5.4	2.3	1.1	2.03	3.05	4.02
3	4.28	9.9	7.0	2.9	1.1	2.57	3.36	5.32
4	4.60	9.1	6.8	2.8	1.3	2.83	3.99	6.40
5	5.10	10.2	7.5	3.3	1.3	3.48	4.25	6.72
6	3.79	8.6	5.4	2.4	0.9	1.96	3.60	4.77
7	4.00	8.3	6.3	2.7	1.2	2.28	3.48	5.08
8	3.32	7.0	4.9	2.4	0.8	1.81	2.75	4.29
9	3.67	6.5	4.4	2.1	1.0	1.89	2.68	4.56
10	3.75	8.1	5.8	2.7	1.0	1.98	2.93	4.50
11	4.59	8.5	6.3	3.4	1.5	2.17	4.55	6.68
12	4.12	7.8	5.8	2.7	1.0	2.20	2.73	5.33
Summary	47.55	98.8	70.4	31.4	13.0	26.42	40.01	61.67

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLEARWATER DAM, MO US**

GHCND:USC00231674
Elev: 660 ft. Lat: 37.132° N Lon: 90.776° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	50	89	258	527	814	1044	1210	1170	870	535	246	65
45	22	41	158	386	659	894	1055	1015	720	385	149	29
50	8	16	86	259	504	744	900	860	571	250	77	12
55	3	5	40	154	354	594	745	705	425	142	33	4
60	1	2	16	80	218	445	590	550	286	66	11	1
Growing Degree Units for Corn (Monthly)												
50/86	41	69	178	333	522	703	816	783	567	333	156	44

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	50	139	397	924	1738	2782	3992	5162	6032	6567	6813	6878
45	22	63	221	607	1266	2160	3215	4230	4950	5335	5484	5513
50	8	24	110	369	873	1617	2517	3377	3948	4198	4275	4287
55	3	8	48	202	556	1150	1895	2600	3025	3167	3200	3204
60	1	3	19	99	317	762	1352	1902	2188	2254	2265	2266
Growing Degree Units for Corn (Monthly)												
50/86	41	110	288	621	1143	1846	2662	3445	4012	4345	4501	4545

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

M indicates the value is missing

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 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **DADEVILLE, MO US**

GHCND:USC00232071
 Elev: 1050 ft. Lat: 37.448° N Lon: 93.678° W

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	.25	.50	.75
1	2.05	@	@	@	@			
2	2.37	@	@	@	@			
3	3.37	@	@	@	@			
4	4.58	@	@	@	@			
5	5.33	@	@	@	@			
6	5.05	@	@	@	@			
7	4.11	@	@	@	@			
8	4.66	@	@	@	@			
9	4.62	@	@	@	@			
10	3.86	@	@	@	@			
11	4.06	@	@	@	@			
12	2.66	@	@	@	@			
Summary	46.72	0.0	0.0	0.0	0.0			

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**Summary of
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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CENTERVILLE 5 NE, MO US**

GHCND:USC00231467
Elev: 778 ft. Lat: 37.504° N Lon: 90.922° W

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	.25	.50	.75
1	2.93	7.5	6.2	1.9	0.6	1.45	2.88	3.90
2	2.64	7.4	6.4	2.3	0.7	1.26	2.55	3.50
3	4.40	10.1	8.6	3.6	1.1	3.05	3.63	5.56
4	4.87	9.8	8.4	3.3	1.5	3.38	4.27	5.66
5	5.57	10.6	9.1	4.1	1.6	3.26	5.20	7.08
6	4.28	9.0	7.3	3.6	2.0	2.62	3.86	5.55
7	4.45	6.9	6.1	3.1	1.5	2.35	4.17	5.92
8	3.84	6.7	5.8	2.8	1.3	2.44	3.44	4.85
9	4.26	6.5	5.8	2.7	1.2	2.65	3.99	5.22
10	4.51	8.3	7.1	4.1	1.1	3.00	4.00	5.35
11	6.17	9.5	8.4	4.5	2.7	2.90	6.06	8.36
12	4.34	8.5	6.8	3.2	1.4	2.38	3.28	6.54
Summary	52.26	100.8	86.0	39.2	16.7	30.74	47.33	67.49

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Station: **CENTERVILLE 5 NE, MO US**

GHCND:USC00231467
 Elev: 778 ft. Lat: 37.504° N Lon: 90.922° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.7	2.1	1.8	0.8	0.2	0.0	@	@	@	@	0.0	2.5	7.0
2	4.8	2.2	1.7	0.5	0.3	0.0	@	@	@	@	0.7	2.7	7.8
3	1.5	0.6	0.4	0.3	0.1	0.0	@	@	@	@	0.0	0.0	3.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.2	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	3.1	1.2	1.1	0.4	0.1	0.1	@	@	@	@	0.0	2.3	4.5
Summary	14.4	6.3	5.2	2.0	0.7	0.1	0.0	0.0	0.0	0.0	0.7	7.5	22.3

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National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ZALMA 4 E, MO US**

GHCND:USC00239178
 Elev: 420 ft. Lat: 37.156° N Lon: 90.010° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.8	21.4	32.1				1	-7777	0	0	0	0	710	771	865	1020	0.0	0.0	7.7	5.3	26.3	0.7
2	47.4	24.8	36.1				3	1	-7777	0	0	0	531	585	669	808	0.0	0.0	11.7	1.3	22.7	0.0
3	57.6	34.7	46.2				14	9	4	-7777	-7777	0	289	346	433	585	0.0	0.0	25.9	0.3	11.5	0.0
4	67.9	43.2	55.6				99	73	42	13	1	-7777	82	116	175	296	0.0	0.0	29.3	0.0	3.0	0.0
5	77.3	53.6	65.5				328	270	190	82	20	10	5	9	21	68	0.0	0.7	31.0	0.0	0.0	0.0
6	85.9	62.3	74.1				572	512	423	276	142	100	-7777	-7777	-7777	3	0.0	7.4	30.0	0.0	0.0	0.0
7	89.6	66.2	77.9				709	647	554	399	246	188	0	0	0	-7777	0.4	13.7	31.0	0.0	0.0	0.0
8	88.5	64.9	76.7				672	610	517	363	213	159	0	0	0	1	0.3	12.3	31.0	0.0	0.0	0.0
9	81.2	55.6	68.4				402	344	257	131	48	28	1	2	6	30	0.0	2.3	30.0	0.0	0.0	0.0
10	70.7	43.7	57.2				130	99	60	20	5	2	61	92	147	262	0.0	0.3	31.0	0.0	1.3	0.0
11	57.6	35.1	46.4				11	5	1	-7777	0	0	271	325	411	560	0.0	0.0	23.4	0.0	10.1	0.0
12	45.0	24.9	35.0				-7777	-7777	-7777	0	0	0	620	682	776	931	0.0	0.0	8.3	2.0	26.0	0.0
Summary	67.6	44.2	55.9				2941	2570	2048	1284	675	487	2570	2928	3503	4564	0.7	36.7	290.3	8.9	100.9	0.7

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: ZALMA 4 E, MO US

GHCND:USC00239178
Elev: 420 ft. Lat: 37.156° N Lon: 90.010° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	59	230	467	789	1022	1174	1136	851	534	217	35
45	20	25	121	322	634	873	1019	982	702	380	115	7
50	7	9	50	194	480	723	865	827	552	237	46	1
55	1	3	14	99	328	572	709	672	402	130	11	-7777
60	0	-7777	4	42	190	423	554	517	257	60	1	-7777
Growing Degree Units for Corn (Monthly)												
50/86	30	47	141	281	497	696	799	772	550	338	131	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	106	336	803	1592	2614	3788	4924	5775	6309	6526	6561
45	20	45	166	488	1122	1995	3014	3996	4698	5078	5193	5200
50	7	16	66	260	740	1463	2328	3155	3707	3944	3990	3991
55	1	4	18	117	445	1017	1726	2398	2800	2930	2941	2941
60	0	0	4	46	236	659	1213	1730	1987	2047	2048	2048
Growing Degree Units for Corn (Monthly)												
50/86	30	77	218	499	996	1692	2491	3263	3813	4151	4282	4306

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **AVA 12 SW, MO US**

GHCND:USC00230368
 Elev: 1129 ft. Lat: 36.875° N Lon: 92.851° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.2	20.8	32.0				3	2	1	-7777	0	0	716	777	869	1023	0.0	0.0	10.7	7.2	25.7	0.9
2	48.0	24.1	36.1				4	2	1	-7777	0	0	534	588	671	810	0.0	0.0	11.8	2.4	22.7	0.1
3	58.0	33.1	45.6				29	19	9	2	-7777	0	322	374	457	605	0.0	0.0	23.3	0.6	15.9	0.0
4	68.1	42.5	55.3				114	84	49	13	1	1	105	135	190	304	0.0	0.0	28.1	0.0	4.2	0.0
5	74.9	52.8	63.9				285	231	160	67	16	7	11	18	41	102	0.0	0.0	31.0	0.0	0.1	0.0
6	82.8	60.7	71.8				503	443	354	211	94	59	-7777	-7777	1	9	0.0	2.8	30.0	0.0	0.0	0.0
7	87.9	65.4	76.7				671	609	516	361	212	157	0	0	0	-7777	0.2	11.3	31.0	0.0	0.0	0.0
8	88.6	64.1	76.4				661	600	507	354	211	160	0	0	-7777	3	0.8	12.2	31.0	0.0	0.0	0.0
9	80.0	55.6	67.8				389	333	252	136	54	33	5	9	19	52	0.0	2.4	30.0	0.0	0.0	0.0
10	69.2	43.9	56.6				127	96	58	19	4	1	79	109	165	280	0.0	0.0	30.7	0.0	2.5	0.0
11	57.5	33.6	45.6				24	15	6	1	-7777	-7777	308	359	439	585	0.0	0.0	22.0	0.0	13.6	0.0
12	45.0	23.7	34.4				1	-7777	-7777	-7777	0	0	641	702	795	950	0.0	0.0	9.8	3.4	25.5	0.1
Summary	66.9	43.4	55.2				2811	2434	1913	1164	592	418	2721	3071	3647	4723	1.0	28.7	289.4	13.6	110.2	1.1

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Station: **AVA 12 SW, MO US**

GHCND:USC00230368
Elev: 1129 ft. Lat: 36.875° N Lon: 92.851° W

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	.25	.50	.75
1	2.51	@	@	@	@			
2	2.64	@	@	@	@			
3	3.90	@	@	@	@			
4	4.20	@	@	@	@			
5	4.87	@	@	@	@			
6	4.21	@	@	@	@			
7	3.21	@	@	@	@			
8	2.99	@	@	@	@			
9	4.31	@	@	@	@			
10	3.72	@	@	@	@			
11	4.49	@	@	@	@			
12	3.27	@	@	@	@			
Summary	44.32	0.0	0.0	0.0	0.0			

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Station: **AVA 12 SW, MO US**

GHCND:USC00230368
Elev: 1129 ft. Lat: 36.875° N Lon: 92.851° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	71	223	464	739	952	1136	1126	834	514	214	48
45	20	33	131	329	584	802	981	972	684	366	123	19
50	8	13	67	209	432	652	826	817	534	232	60	6
55	3	4	29	114	285	503	671	661	389	127	24	1
60	1	1	9	49	160	354	516	507	252	58	6	-7777
Growing Degree Units for Corn (Monthly)												
50/86	40	62	157	291	459	640	776	753	540	318	139	34

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	120	343	807	1546	2498	3634	4760	5594	6108	6322	6370
45	20	53	184	513	1097	1899	2880	3852	4536	4902	5025	5044
50	8	21	88	297	729	1381	2207	3024	3558	3790	3850	3856
55	3	7	36	150	435	938	1609	2270	2659	2786	2810	2811
60	1	2	11	60	220	574	1090	1597	1849	1907	1913	1913
Growing Degree Units for Corn (Monthly)												
50/86	40	102	259	550	1009	1649	2425	3178	3718	4036	4175	4209

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

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 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: SMITHVILLE LAKE, MO US

GHCND:USC00237862
 Elev: 904 ft. Lat: 39.390° N Lon: 94.555° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	36.5	17.6	27.1	5.5	5.2	5.1	0	0	0	0	0	0	866	928	1021	1176	0.0	0.0	5.2	11.2	29.0	2.4
2	41.6	22.0	31.8	6.3	5.3	5.6	2	1	1	-7777	0	0	651	707	790	930	0.0	0.0	8.2	7.0	23.5	1.0
3	52.8	31.7	42.2	4.2	3.5	3.6	23	17	9	2	-7777	-7777	419	474	560	708	0.0	0.0	17.6	1.9	16.3	-7777
4	63.8	42.2	53.0	3.6	2.7	3.0	96	74	47	18	5	2	156	194	257	378	0.0	0.1	26.4	0.0	4.7	0.0
5	72.8	53.6	63.2	3.8	3.7	3.6	278	229	162	77	26	15	24	36	63	133	0.0	0.1	30.9	0.0	0.2	0.0
6	82.1	63.3	72.7	3.0	2.5	2.6	531	472	383	244	125	86	-7777	1	3	13	0.2	3.1	30.0	0.0	0.0	0.0
7	87.4	68.2	77.8	2.8	2.2	2.2	707	645	552	398	249	194	0	0	-7777	1	0.9	10.9	31.0	0.0	0.0	0.0
8	86.4	66.4	76.4	4.2	2.8	3.2	663	601	509	357	216	167	-7777	-7777	-7777	4	1.0	10.2	31.0	0.0	0.0	0.0
9	77.7	56.3	67.0	3.6	2.8	2.8	371	317	242	137	63	42	11	17	32	77	0.1	2.3	30.0	0.0	-7777	0.0
10	66.6	44.4	55.5	3.2	2.9	2.8	129	98	61	22	7	4	113	145	200	317	0.0	0.1	28.7	0.0	3.2	0.0
11	53.0	32.9	42.9	5.3	3.5	4.1	21	14	7	1	-7777	-7777	382	436	519	663	0.0	0.0	18.4	1.4	14.1	0.1
12	40.7	21.8	31.3	6.0	6.0	5.8	1	-7777	-7777	0	0	0	737	798	891	1046	0.0	0.0	8.0	7.5	25.4	1.6
Summary	63.5	43.4	53.4	4.3	3.6	3.7	2822	2468	1973	1256	691	510	3359	3736	4336	5446	2.2	26.8	265.4	29.0	116.4	5.1

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www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **SMITHVILLE LAKE, MO US**

GHCND:USC00237862

Elev: 904 ft. Lat: 39.390° N Lon: 94.555° W

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	.25	.50	.75
1	1.11	@	@	@	@			
2	1.39	@	@	@	@			
3	2.39	@	@	@	@			
4	3.68	@	@	@	@			
5	5.36	@	@	@	@			
6	5.26	@	@	@	@			
7	4.86	@	@	@	@			
8	4.07	@	@	@	@			
9	4.72	@	@	@	@			
10	3.27	@	@	@	@			
11	2.23	@	@	@	@			
12	1.63	@	@	@	@			
Summary	39.97	0.0	0.0	0.0	0.0			

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 1981-2010**

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Station: **SMITHVILLE LAKE, MO US**

GHCND:USC00237862
 Elev: 904 ft. Lat: 39.390° N Lon: 94.555° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	40	175	402	719	981	1172	1128	810	486	175	35
45	2	16	100	277	565	831	1017	973	660	347	100	13
50	-7777	5	52	171	415	681	862	818	513	226	50	3
55	0	2	23	96	278	531	707	663	371	129	21	1
60	0	1	9	47	162	383	552	509	242	61	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	34	114	236	437	665	808	767	519	289	107	25

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	53	228	630	1349	2330	3502	4630	5440	5926	6101	6136
45	2	18	118	395	960	1791	2808	3781	4441	4788	4888	4901
50	0	5	57	228	643	1324	2186	3004	3517	3743	3793	3796
55	0	2	25	121	399	930	1637	2300	2671	2800	2821	2822
60	0	1	10	57	219	602	1154	1663	1905	1966	1973	1973
Growing Degree Units for Corn (Monthly)												
50/86	15	49	163	399	836	1501	2309	3076	3595	3884	3991	4016

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CALIFORNIA, MO US**

GHCND:USC00231189
Elev: 879 ft. Lat: 38.628° N Lon: 92.554° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.3	20.0	29.6	5.5	4.8	5.0	1	1	-7777	0	0	0	787	848	941	1096	0.0	0.0	6.3	8.9	26.5	2.0
2	44.8	23.9	34.3	5.6	4.8	5.0	3	2	1	-7777	0	0	581	636	719	858	0.0	0.0	10.5	5.2	21.5	0.7
3	55.2	33.5	44.4	4.3	3.3	3.6	34	24	12	3	1	-7777	364	416	497	644	0.0	0.0	19.6	1.2	14.5	0.1
4	65.6	43.6	54.6	4.3	3.4	3.7	118	91	59	22	5	2	130	163	221	334	0.0	-7777	26.7	0.0	3.2	0.0
5	74.2	54.0	64.1	3.1	3.4	3.1	297	245	174	81	25	13	15	25	47	109	0.0	0.1	30.9	0.0	0.0	0.0
6	82.5	63.2	72.9	2.8	2.1	2.3	536	476	388	247	124	84	-7777	1	2	11	0.1	2.6	30.0	0.0	0.0	0.0
7	87.2	67.8	77.5	2.6	1.8	2.0	697	635	542	388	238	183	0	0	0	1	0.5	10.5	31.0	0.0	0.0	0.0
8	87.1	66.3	76.7	3.8	2.8	3.2	672	611	518	364	221	170	0	-7777	-7777	2	1.0	10.7	31.0	0.0	0.0	0.0
9	79.1	57.0	68.1	2.8	2.6	2.5	400	345	266	153	70	47	9	14	25	61	-7777	2.4	30.0	0.0	-7777	0.0
10	67.8	45.4	56.6	2.9	2.5	2.4	142	110	69	24	6	3	93	122	174	284	0.0	0.1	29.4	0.0	2.4	0.0
11	54.6	34.6	44.6	5.0	3.6	4.1	30	20	10	2	-7777	-7777	342	392	472	614	0.0	0.0	19.1	1.1	12.5	0.1
12	41.7	23.5	32.6	5.4	5.3	5.2	3	1	-7777	0	0	0	697	758	850	1004	0.0	0.0	8.1	6.6	24.0	1.1
Summary	64.9	44.4	54.7	4.0	3.4	3.5	2933	2561	2039	1284	690	502	3018	3375	3948	5018	1.6	26.4	272.6	23.0	104.6	4.0

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Station: **CALIFORNIA, MO US**

GHCND:USC00231189
Elev: 879 ft. Lat: 38.628° N Lon: 92.554° W

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	.25	.50	.75
1	1.95	5.8	4.0	1.2	0.5	0.93	1.80	2.81
2	2.26	6.2	4.2	1.5	0.5	1.16	2.13	3.86
3	3.03	8.8	6.7	1.9	0.5	2.01	3.02	3.80
4	4.62	10.3	7.4	3.1	1.4	2.62	4.35	5.98
5	5.38	11.7	8.2	3.7	1.5	3.77	5.20	6.24
6	4.53	9.3	6.9	3.0	1.5	2.47	4.12	6.60
7	4.62	7.9	5.8	2.9	1.7	1.96	4.60	5.84
8	3.95	7.4	5.6	2.7	1.3	2.33	3.40	4.75
9	4.09	7.3	5.5	2.6	1.4	1.49	2.32	5.76
10	3.46	8.6	6.1	2.6	0.8	1.63	3.30	4.33
11	3.49	7.9	5.7	2.2	1.0	2.07	2.72	4.07
12	2.32	6.5	4.6	1.4	0.6	0.86	2.19	3.24
Summary	43.70	97.7	70.7	28.8	12.7	23.30	39.15	57.28

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Station: **CALIFORNIA, MO US**

GHCND:USC00231189
Elev: 879 ft. Lat: 38.628° N Lon: 92.554° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.8	1.8	1.2	0.4	0.1	0.0	3.3	1.2	0.6	-7777	0.0	2.5	5.5
2	2.9	1.3	1.0	0.5	-7777	0.0	2.6	0.8	0.3	0.0	0.0	1.7	4.3
3	0.7	0.3	0.3	0.1	-7777	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.2	0.2	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
12	3.6	1.5	1.3	0.4	0.1	-7777	3.2	1.9	0.5	0.1	0.0	2.0	6.0
Summary	11.4	5.1	4.0	1.4	0.2	0.0	9.2	3.9	1.4	0.1	0.0	6.2	15.8

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

Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: CALIFORNIA, MO US

GHCND:USC00231189
Elev: 879 ft. Lat: 38.628° N Lon: 92.554° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	35	69	215	446	747	985	1162	1137	841	518	212	51
45	14	31	130	316	593	835	1007	982	692	374	128	23
50	4	12	72	204	440	685	852	827	543	246	67	9
55	1	3	34	118	297	536	697	672	400	142	30	3
60	-7777	1	12	59	174	388	542	518	266	69	10	-7777
Growing Degree Units for Corn (Monthly)												
50/86	25	50	137	266	462	672	806	776	546	310	123	30

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	35	104	319	765	1512	2497	3659	4796	5637	6155	6367	6418
45	14	45	175	491	1084	1919	2926	3908	4600	4974	5102	5125
50	4	16	88	292	732	1417	2269	3096	3639	3885	3952	3961
55	1	4	38	156	453	989	1686	2358	2758	2900	2930	2933
60	0	1	13	72	246	634	1176	1694	1960	2029	2039	2039
Growing Degree Units for Corn (Monthly)												
50/86	25	75	212	478	940	1612	2418	3194	3740	4050	4173	4203

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **TRENTON, MO US**

GHCND:USC00238444
Elev: 837 ft. Lat: 40.082° N Lon: 93.609° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.9	15.9	25.4	5.7	5.4	5.4	-7777	0	0	0	0	0	917	979	1072	1227	0.0	0.0	3.3	11.4	29.0	3.5
2	40.9	19.8	30.4	6.1	6.0	5.9	1	-7777	-7777	-7777	0	0	691	747	830	970	0.0	0.0	6.8	6.8	24.2	2.0
3	52.2	29.7	40.9	4.6	3.8	3.9	16	10	5	1	-7777	0	452	508	596	746	0.0	0.0	17.2	1.7	19.1	0.1
4	63.8	40.0	51.9	4.1	3.7	3.6	80	59	36	11	1	-7777	173	212	279	404	0.0	0.0	25.8	0.1	6.4	0.0
5	73.6	51.9	62.8	3.5	3.0	3.1	263	214	148	66	22	13	23	35	62	136	0.0	0.6	30.9	0.0	0.3	0.0
6	83.4	61.6	72.5	2.9	2.1	2.3	525	466	378	239	121	85	-7777	1	3	14	0.2	6.0	30.0	0.0	0.0	0.0
7	88.0	66.2	77.1	2.6	2.0	2.0	685	623	530	375	227	173	0	0	0	-7777	0.7	11.7	31.0	0.0	0.0	0.0
8	86.7	64.1	75.4	4.0	2.8	3.3	632	570	478	327	190	143	-7777	-7777	-7777	4	1.5	10.0	31.0	0.0	0.0	0.0
9	78.5	54.0	66.3	2.8	2.3	2.3	352	300	226	120	49	32	15	22	39	83	0.0	2.3	29.9	0.0	0.2	0.0
10	66.0	42.6	54.3	3.0	2.4	2.5	104	77	46	15	4	2	125	161	223	346	0.0	0.1	29.0	0.0	4.0	0.0
11	51.4	30.9	41.2	5.2	3.6	4.2	11	6	2	-7777	-7777	0	427	482	568	716	0.0	0.0	16.8	2.0	17.4	0.0
12	37.7	19.6	28.6	6.0	5.9	5.8	1	-7777	-7777	0	0	0	818	879	972	1127	0.0	0.0	5.2	10.1	26.9	2.4
Summary	63.1	41.4	52.2	4.2	3.6	3.7	2670	2325	1849	1154	614	448	3641	4026	4644	5773	2.4	30.7	256.9	32.1	127.5	8.0

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **TRENTON, MO US**

GHCND:USC00238444
Elev: 837 ft. Lat: 40.082° N Lon: 93.609° W

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	.25	.50	.75
1	1.03	4.6	2.4	0.6	0.3	0.61	1.03	1.44
2	1.70	6.8	4.0	1.0	0.3	0.80	1.25	2.34
3	2.66	8.3	5.7	1.7	0.6	1.38	2.51	3.44
4	3.93	10.1	6.6	2.3	0.9	2.51	3.87	5.35
5	5.88	12.0	8.3	4.3	2.1	3.66	4.88	7.00
6	5.03	10.4	7.2	3.7	1.8	3.44	4.51	7.31
7	4.34	8.6	6.0	2.7	1.5	1.82	3.40	6.72
8	4.01	8.3	5.8	2.6	1.6	2.33	3.71	5.61
9	4.04	7.0	5.4	2.8	1.3	2.01	2.83	5.65
10	3.18	8.9	5.8	2.5	0.8	1.77	2.96	4.10
11	2.31	6.5	3.7	1.5	0.6	1.20	2.22	3.09
12	1.78	6.8	4.1	1.4	0.3	1.11	1.60	2.40
Summary	39.89	98.3	65.0	27.1	12.1	22.64	34.77	54.45

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National Climatic Data Center
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151 Patton Avenue

Asheville, North Carolina 28801
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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **TRENTON, MO US**GHCND:USC00238444
Elev: 837 ft. Lat: 40.082° N Lon: 93.609° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.6	2.2	1.3	0.4	0.0	0.0	@	@	@	@	1.0	3.0	4.0
2	5.5	2.7	1.7	0.9	0.2	0.0	@	@	@	@	1.0	4.7	8.0
3	3.1	1.3	1.1	0.4	0.2	0.0	@	@	@	@	0.0	0.5	3.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.6	0.5	0.2	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.5
12	5.1	3.8	2.8	1.0	0.2	0.0	@	@	@	@	0.2	4.0	10.0
Summary	16.9	10.5	7.1	2.8	0.7	0.0	0.0	0.0	0.0	0.0	2.2	12.2	25.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **TRENTON, MO US**

GHCND:USC00238444
Elev: 837 ft. Lat: 40.082° N Lon: 93.609° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	30	144	373	705	975	1150	1097	787	449	142	26
45	2	12	78	253	551	825	995	942	638	311	77	9
50	-7777	4	39	152	401	675	840	787	492	194	35	3
55	-7777	1	16	80	263	525	685	632	352	104	11	1
60	0	-7777	5	36	148	378	530	478	226	46	2	-7777
Growing Degree Units for Corn (Monthly)												
50/86	9	25	100	231	428	651	783	735	504	270	87	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	39	183	556	1261	2236	3386	4483	5270	5719	5861	5887
45	2	14	92	345	896	1721	2716	3658	4296	4607	4684	4693
50	0	4	43	195	596	1271	2111	2898	3390	3584	3619	3622
55	0	1	17	97	360	885	1570	2202	2554	2658	2669	2670
60	0	0	5	41	189	567	1097	1575	1801	1847	1849	1849
Growing Degree Units for Corn (Monthly)												
50/86	9	34	134	365	793	1444	2227	2962	3466	3736	3823	3840

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **AVA 6 W, MO US**

GHCND:USC00230360
 Elev: 1253 ft. Lat: 37.009° N Lon: 92.756° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.9	22.3	33.1				-7777	-7777	-7777	0	0	0	679	740	833	988	0.0	0.0	9.3	4.8	26.1	0.0
2	50.0	25.8	37.9				4	2	-7777	0	0	0	482	536	619	758	0.0	0.0	13.8	1.2	20.5	0.0
3	59.5	33.8	46.7				33	22	9	2	-7777	-7777	292	343	423	570	0.0	0.0	24.7	0.0	15.4	0.0
4	68.6	43.6	56.1				114	84	50	17	3	1	81	112	168	284	0.0	0.6	28.8	0.0	2.1	0.0
5	75.8	52.9	64.4				296	241	163	63	15	8	7	13	29	83	0.0	0.0	31.0	0.0	0.0	0.0
6	83.3	60.6	72.0				508	448	360	215	95	59	-7777	-7777	1	7	0.0	2.8	30.0	0.0	0.0	0.0
7	88.5	64.8	76.7				671	609	516	361	209	154	0	0	0	-7777	0.0	13.2	31.0	0.0	0.0	0.0
8	89.0	63.0	76.0				650	588	495	341	195	146	-7777	0	0	1	1.8	11.6	31.0	0.0	0.0	0.0
9	81.2	55.3	68.3				401	345	262	141	49	28	4	8	15	44	0.0	1.8	30.0	0.0	0.0	0.0
10	70.2	42.6	56.4				121	90	55	20	5	3	78	109	166	286	0.0	0.7	30.6	0.0	4.0	0.0
11	57.4	32.0	44.7				17	10	3	-7777	0	0	326	378	462	609	0.0	0.0	22.3	0.0	16.7	0.0
12	45.9	24.6	35.3				3	2	1	0	0	0	615	675	767	922	0.0	0.0	10.9	3.5	23.9	0.0
Summary	67.8	43.4	55.6				2818	2441	1914	1160	571	399	2564	2914	3483	4552	1.8	30.7	293.4	9.5	108.7	0

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **AVA 6 W, MO US**

GHCND:USC00230360
Elev: 1253 ft. Lat: 37.009° N Lon: 92.756° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	32	84	251	487	755	959	1136	1115	847	509	192	55
45	12	38	151	346	600	808	981	960	697	360	106	22
50	2	14	80	217	445	658	826	805	548	225	47	9
55	-7777	4	33	114	296	508	671	650	401	121	17	3
60	-7777	-7777	9	50	163	360	516	495	262	55	3	1
Growing Degree Units for Corn (Monthly)												
50/86	28	69	173	294	470	646	773	741	551	329	137	38

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	32	116	367	854	1609	2568	3704	4819	5666	6175	6367	6422
45	12	50	201	547	1147	1955	2936	3896	4593	4953	5059	5081
50	2	16	96	313	758	1416	2242	3047	3595	3820	3867	3876
55	0	4	37	151	447	955	1626	2276	2677	2798	2815	2818
60	0	0	9	59	222	582	1098	1593	1855	1910	1913	1914
Growing Degree Units for Corn (Monthly)												
50/86	28	97	270	564	1034	1680	2453	3194	3745	4074	4211	4249

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

M indicates the value is missing

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEW MADRID, MO US**

GHCND:USC00236045
Elev: 302 ft. Lat: 36.587° N Lon: 89.532° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.0	26.8	34.9	4.6	4.7	4.5	3	1	-7777	0	0	0	626	686	778	933	0.0	0.0	8.7	4.8	21.3	0.5
2	48.3	30.5	39.4	4.1	3.9	3.8	5	3	1	-7777	0	0	442	495	578	717	0.0	0.0	13.0	2.3	15.6	0.1
3	58.2	38.9	48.6	3.8	3.1	3.3	49	34	18	5	1	-7777	249	296	373	515	0.0	0.0	23.8	0.3	8.2	0.0
4	69.1	48.7	58.9	3.7	3.2	3.3	179	142	94	39	10	4	62	85	127	222	0.0	0.1	29.0	0.0	0.9	0.0
5	78.4	58.8	68.6	3.3	3.6	3.3	425	366	282	161	71	46	3	6	16	49	0.0	1.2	31.0	0.0	0.0	0.0
6	87.1	67.2	77.2	2.5	2.3	2.2	664	604	515	367	226	175	-7777	-7777	-7777	3	0.2	10.8	30.0	0.0	0.0	0.0
7	90.6	71.0	80.8	2.2	1.9	1.9	800	738	645	490	336	276	0	0	0	-7777	0.5	17.9	31.0	0.0	0.0	0.0
8	89.9	68.9	79.4	3.3	2.7	2.9	756	694	601	447	296	239	0	-7777	-7777	1	1.3	15.3	31.0	0.0	0.0	0.0
9	82.7	60.3	71.5	2.7	3.0	2.6	497	439	355	225	119	85	2	4	10	30	0.0	5.0	30.0	0.0	0.0	0.0
10	71.3	48.7	60.0	2.7	3.2	2.5	206	164	110	48	15	8	51	71	110	203	0.0	0.1	30.7	0.0	0.9	0.0
11	58.4	39.5	48.9	4.3	3.3	3.6	47	33	17	4	-7777	-7777	229	274	349	486	0.0	0.0	22.6	0.1	6.7	0.0
12	46.0	29.7	37.8	4.7	4.9	4.7	5	3	1	-7777	0	0	537	596	687	842	0.0	0.0	12.1	3.3	18.4	0.3
Summary	68.6	49.1	58.8	3.5	3.3	3.2	3636	3221	2639	1786	1074	833	2201	2513	3028	4001	2.0	50.4	292.9	10.8	72.0	0.9

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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEW MADRID, MO US**

GHCND:USC00236045
Elev: 302 ft. Lat: 36.587° N Lon: 89.532° W

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	.25	.50	.75
1	3.59	8.9	5.7	2.4	1.0	2.19	3.71	4.89
2	3.72	8.7	6.1	2.5	1.1	2.41	3.24	4.52
3	4.15	9.9	6.9	2.7	1.1	3.04	3.81	4.67
4	4.69	9.7	7.5	3.4	1.4	3.51	4.53	5.57
5	5.20	10.9	7.5	3.5	1.5	2.71	5.36	6.54
6	3.95	8.2	5.8	3.0	1.3	2.41	4.07	5.05
7	4.08	7.9	5.6	2.8	1.2	2.05	4.05	5.14
8	2.32	5.6	3.8	1.6	0.8	0.92	1.83	3.87
9	3.75	6.2	4.4	2.0	1.2	1.87	3.50	4.96
10	4.26	7.7	5.3	2.6	1.3	1.98	3.62	4.52
11	4.56	9.0	6.7	3.3	1.6	2.63	4.10	7.01
12	4.90	9.6	6.7	3.4	1.4	2.43	4.39	6.02
Summary	49.17	102.3	72.0	33.2	14.9	28.15	46.21	62.76

@ Denotes mean number of days greater than 0 but less than 0.05.

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEW MADRID, MO US**

GHCND:USC00236045
Elev: 302 ft. Lat: 36.587° N Lon: 89.532° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	0.6	0.2	0.2	0.2	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1.1	0.5	0.5	0.2	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0
3	0.3	0.1	0.1	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Summary	2.4	1.0	1.0	0.4	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEW MADRID, MO US**

GHCND:USC00236045
Elev: 302 ft. Lat: 36.587° N Lon: 89.532° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	63	105	295	568	887	1114	1265	1221	945	621	295	96
45	27	49	185	424	732	964	1110	1066	795	470	186	44
50	10	17	102	292	577	814	955	911	645	327	103	17
55	3	5	49	179	425	664	800	756	497	206	47	5
60	-7777	1	18	94	282	515	645	601	355	110	17	1
Growing Degree Units for Corn (Monthly)												
50/86	31	56	162	336	579	769	874	836	631	381	159	45

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	63	168	463	1031	1918	3032	4297	5518	6463	7084	7379	7475
45	27	76	261	685	1417	2381	3491	4557	5352	5822	6008	6052
50	10	27	129	421	998	1812	2767	3678	4323	4650	4753	4770
55	3	8	57	236	661	1325	2125	2881	3378	3584	3631	3636
60	0	1	19	113	395	910	1555	2156	2511	2621	2638	2639
Growing Degree Units for Corn (Monthly)												
50/86	31	87	249	585	1164	1933	2807	3643	4274	4655	4814	4859

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WILLOW SPRGS RD KUKU, MO US**

GHCND:USC00238995
Elev: 1310 ft. Lat: 36.981° N Lon: 91.991° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.5	24.0	33.8	5.1	3.8	4.3	2	1	-7777	0	0	0	660	721	814	969	0.0	0.0	9.3	5.1	24.4	0.9
2	49.3	27.9	38.6	4.5	3.8	4.0	5	3	1	-7777	0	0	464	518	600	739	0.0	0.0	14.1	2.6	17.8	0.3
3	58.8	35.6	47.2	3.9	3.3	3.4	44	30	15	4	1	-7777	286	334	412	555	0.0	0.0	24.0	0.4	11.8	0.0
4	69.2	44.7	57.0	4.1	3.4	3.6	140	107	67	23	4	1	82	109	158	265	0.0	0.1	28.9	0.0	2.9	0.0
5	76.0	53.2	64.6	3.1	3.3	3.0	305	250	175	76	20	9	8	15	32	88	0.0	0.2	31.0	0.0	0.0	0.0
6	83.4	61.4	72.4	2.5	1.8	1.9	522	462	373	232	110	71	-7777	1	1	10	0.1	2.7	30.0	0.0	0.0	0.0
7	88.3	66.1	77.2	2.4	1.8	1.9	688	626	533	379	228	171	0	0	-7777	-7777	0.2	11.3	31.0	0.0	0.0	0.0
8	88.7	64.7	76.7	3.7	2.1	2.8	672	610	517	364	219	167	0	0	-7777	1	0.3	13.6	31.0	0.0	0.0	0.0
9	80.1	56.9	68.5	3.0	2.8	2.7	411	356	276	160	73	49	6	11	21	55	0.2	2.6	29.9	0.0	0.1	0.0
10	69.0	45.1	57.1	2.8	2.9	2.3	140	105	64	20	4	2	76	104	156	267	0.0	0.0	30.4	0.0	2.8	0.0
11	56.8	36.1	46.4	4.9	3.3	3.9	34	23	11	2	-7777	-7777	290	339	418	558	0.0	0.0	21.2	0.4	11.0	0.0
12	45.1	26.1	35.6	5.4	4.8	4.9	5	3	1	0	0	0	606	666	757	911	0.0	0.0	10.6	4.1	22.0	0.7
Summary	67.4	45.2	56.3	3.8	3.1	3.2	2968	2576	2033	1260	659	470	2478	2818	3369	4418	0.8	30.5	291.4	12.6	92.8	1.9

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Station: **WILLOW SPRGS RD KUKU, MO US**

GHCND:USC00238995
 Elev: 1310 ft. Lat: 36.981° N Lon: 91.991° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	56	101	267	511	763	972	1153	1137	855	531	241	68
45	24	48	165	371	608	822	998	982	705	384	148	31
50	8	17	92	245	453	672	843	827	556	251	79	14
55	2	5	44	140	305	522	688	672	411	140	34	5
60	-7777	1	15	67	175	373	533	517	276	64	11	1
Growing Degree Units for Corn (Monthly)												
50/86	36	66	168	315	480	657	790	764	558	328	139	41

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	56	157	424	935	1698	2670	3823	4960	5815	6346	6587	6655
45	24	72	237	608	1216	2038	3036	4018	4723	5107	5255	5286
50	8	25	117	362	815	1487	2330	3157	3713	3964	4043	4057
55	2	7	51	191	496	1018	1706	2378	2789	2929	2963	2968
60	0	1	16	83	258	631	1164	1681	1957	2021	2032	2033
Growing Degree Units for Corn (Monthly)												
50/86	36	102	270	585	1065	1722	2512	3276	3834	4162	4301	4342

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **NEOSHO, MO US**

GHCND:USC00235976
 Elev: 1011 ft. Lat: 36.864° N Lon: 94.360° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.0	22.0	33.0	4.8	4.1	4.2	3	2	1	-7777	0	0	685	746	838	992	0.0	0.0	10.1	5.3	25.9	1.1
2	49.2	25.8	37.5	4.8	4.3	4.4	7	4	2	-7777	-7777	0	497	550	632	770	0.0	0.0	14.1	2.7	20.8	0.4
3	58.5	34.9	46.7	3.8	3.3	3.3	43	31	17	5	1	-7777	301	350	429	572	0.0	0.0	22.9	0.6	13.0	0.1
4	68.3	44.0	56.2	3.6	3.5	3.4	140	110	73	30	8	4	106	136	188	295	0.0	0.1	28.2	0.0	3.8	0.0
5	76.0	54.0	65.0	2.9	3.0	2.7	320	266	192	92	30	16	10	18	37	92	0.0	0.1	31.0	0.0	0.1	0.0
6	83.4	62.5	73.0	2.9	2.6	2.5	539	479	391	250	126	85	-7777	1	2	11	0.0	3.3	30.0	0.0	0.0	0.0
7	88.2	67.0	77.6	2.3	2.1	1.7	701	639	546	391	241	185	0	0	0	1	0.2	12.1	31.0	0.0	0.0	0.0
8	88.8	65.5	77.2	3.6	2.9	2.9	687	625	532	379	235	182	-7777	-7777	-7777	3	0.3	14.4	31.0	0.0	0.0	0.0
9	80.6	56.3	68.4	3.7	2.9	2.9	412	357	279	164	76	51	9	14	25	60	0.1	3.6	30.0	0.0	0.1	0.0
10	70.0	44.9	57.4	2.7	2.9	2.4	156	121	77	28	6	3	80	107	156	262	0.0	0.1	30.3	0.0	3.5	0.0
11	57.7	35.0	46.4	4.6	3.4	3.7	38	26	14	3	-7777	-7777	298	346	423	563	0.0	0.0	21.5	0.4	12.6	0.0
12	46.2	24.4	35.3	5.1	5.1	4.9	5	3	2	-7777	0	0	616	676	767	921	0.0	0.0	12.8	4.1	24.1	0.6
Summary	67.6	44.7	56.1	3.7	3.3	3.3	3051	2663	2126	1342	723	526	2602	2944	3497	4542	0.6	33.7	292.9	13.1	103.9	2.2

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Monthly Normals
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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEOSHO, MO US**

GHCND:USC00235976
Elev: 1011 ft. Lat: 36.864° N Lon: 94.360° W

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	.25	.50	.75
1	2.24	5.6	3.7	1.6	0.6	1.10	2.05	3.11
2	2.43	6.2	4.5	1.6	0.5	1.15	2.22	3.31
3	3.75	8.1	6.3	2.8	0.9	1.94	3.18	5.19
4	4.65	8.6	6.9	3.1	1.3	3.04	4.27	5.83
5	5.98	10.5	8.2	4.3	2.1	3.98	5.40	7.75
6	5.57	9.2	6.9	3.6	1.8	3.61	5.11	6.38
7	3.68	6.2	4.9	2.5	1.2	1.97	3.28	4.47
8	3.29	6.4	4.7	2.1	1.0	2.12	2.85	4.67
9	5.12	7.2	5.5	3.0	1.6	2.76	4.20	6.59
10	4.05	7.9	5.8	2.8	1.2	1.66	3.13	6.65
11	4.06	7.0	5.2	2.6	1.2	2.27	3.52	5.64
12	2.91	6.1	4.6	2.3	0.9	1.19	2.82	4.10
Summary	47.73	89.0	67.2	32.3	14.3	26.79	42.03	63.69

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Station: **NEOSHO, MO US**

GHCND:USC00235976
 Elev: 1011 ft. Lat: 36.864° N Lon: 94.360° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.3	1.3	1.0	0.4	0.1	0.0	@	@	@	@	0.0	4.0	6.5
2	1.7	1.2	0.8	0.3	0.1	0.0	@	@	@	@	0.0	1.2	3.3
3	2.1	0.6	0.4	0.2	0.1	0.1	@	@	@	@	0.0	0.0	2.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	3.2	1.2	1.0	0.5	0.1	-7777	@	@	@	@	0.0	0.3	5.5
Summary	10.4	4.4	3.3	1.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	5.5	17.3

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Station: **NEOSHO, MO US**

GHCND:USC00235976
Elev: 1011 ft. Lat: 36.864° N Lon: 94.360° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	54	93	262	490	775	989	1166	1151	853	544	246	70
45	23	46	162	355	620	838	1010	996	704	397	154	33
50	9	19	91	236	467	688	855	841	555	264	83	14
55	3	7	43	140	320	539	701	687	412	156	38	5
60	1	2	17	73	192	391	546	532	279	77	14	2
Growing Degree Units for Corn (Monthly)												
50/86	43	72	174	309	493	674	802	775	560	345	156	53

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	54	147	409	899	1674	2663	3829	4980	5833	6377	6623	6693
45	23	69	231	586	1206	2044	3054	4050	4754	5151	5305	5338
50	9	28	119	355	822	1510	2365	3206	3761	4025	4108	4122
55	3	10	53	193	513	1052	1753	2440	2852	3008	3046	3051
60	1	3	20	93	285	676	1222	1754	2033	2110	2124	2126
Growing Degree Units for Corn (Monthly)												
50/86	43	115	289	598	1091	1765	2567	3342	3902	4247	4403	4456

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

M indicates the value is missing

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KIRKSVILLE REGIONAL AIRPORT, MO US**

GHCND:USW00014938
Elev: 966 ft. Lat: 40.097° N Lon: 92.543° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	35.3	17.0	26.1	5.7	5.5	5.5	-7777	-7777	0	0	0	0	894	956	1049	1204	0.0	0.0	3.9	11.1	28.2	2.7
2	39.0	20.6	29.8	5.7	6.0	5.7	1	-7777	-7777	0	0	0	706	762	845	986	0.0	0.0	5.4	8.2	23.6	1.4
3	50.9	30.5	40.7	4.0	3.5	3.6	15	10	4	-7777	-7777	0	458	515	602	754	0.0	0.0	16.2	1.5	18.7	0.0
4	62.8	40.8	51.8	4.3	3.4	3.7	71	51	29	7	1	-7777	167	207	275	403	0.0	0.0	26.5	0.1	5.1	0.0
5	72.3	51.6	62.0	3.1	2.9	2.9	240	192	130	55	15	8	25	38	69	150	0.0	0.2	30.9	0.0	0.5	0.0
6	81.0	60.7	70.8	2.7	2.1	2.3	476	416	328	192	82	51	-7777	1	3	16	0.0	1.7	30.0	0.0	0.0	0.0
7	85.3	64.8	75.1	3.0	2.1	2.3	621	559	466	313	171	123	0	0	-7777	1	0.2	7.2	31.0	0.0	0.0	0.0
8	84.4	63.1	73.7	3.9	3.0	3.3	581	519	427	277	143	101	-7777	-7777	1	6	0.2	6.0	31.0	0.0	0.0	0.0
9	75.8	53.1	64.5	3.5	2.6	2.8	299	248	176	83	29	16	16	24	43	100	0.0	0.7	29.9	0.0	0.0	0.0
10	63.9	42.2	53.1	2.8	2.4	2.4	90	66	38	12	4	3	151	188	254	382	0.0	0.2	27.5	0.0	4.7	0.0
11	50.3	30.9	40.6	5.1	4.3	4.5	12	6	2	-7777	0	0	444	498	584	732	0.0	0.0	15.3	1.9	17.0	0.0
12	37.2	20.4	28.8	5.6	5.5	5.4	1	1	-7777	0	0	0	813	875	967	1122	0.0	0.0	4.6	11.1	26.8	1.3
Summary	61.5	41.3	51.4	4.1	3.6	3.7	2407	2068	1600	939	445	302	3674	4064	4692	5856	0.4	16.0	252.2	33.9	124.6	5.4

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**Summary of
Monthly Normals
1981-2010**

Station: **KIRKSVILLE REGIONAL AIRPORT, MO US**

GHCND:USW00014938
Elev: 966 ft. Lat: 40.097° N Lon: 92.543° W

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	.25	.50	.75
1	1.27	@	@	@	@			
2	1.53	@	@	@	@			
3	2.55	@	@	@	@			
4	3.84	@	@	@	@			
5	4.96	@	@	@	@			
6	4.78	@	@	@	@			
7	4.66	@	@	@	@			
8	3.82	@	@	@	@			
9	4.11	@	@	@	@			
10	3.32	@	@	@	@			
11	2.72	@	@	@	@			
12	1.75	@	@	@	@			
Summary	39.31	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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151 Patton Avenue
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Station: **KIRKSVILLE REGIONAL AIRPORT, MO US**

GHCND:USW00014938
Elev: 966 ft. Lat: 40.097° N Lon: 92.543° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	31	135	368	680	925	1086	1046	733	412	136	26
45	4	12	73	245	527	775	931	891	584	278	73	10
50	1	4	36	143	377	625	776	736	437	170	35	4
55	-7777	1	15	71	240	476	621	581	299	90	12	1
60	0	-7777	4	29	130	328	466	427	176	38	2	-7777
Growing Degree Units for Corn (Monthly)												
50/86	10	20	87	215	408	618	746	708	458	239	77	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	44	179	547	1227	2152	3238	4284	5017	5429	5565	5591
45	4	16	89	334	861	1636	2567	3458	4042	4320	4393	4403
50	1	5	41	184	561	1186	1962	2698	3135	3305	3340	3344
55	0	1	16	87	327	803	1424	2005	2304	2394	2406	2407
60	0	0	4	33	163	491	957	1384	1560	1598	1600	1600
Growing Degree Units for Corn (Monthly)												
50/86	10	30	117	332	740	1358	2104	2812	3270	3509	3586	3600

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

M indicates the value is missing

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**

GHCND:USC00238524

Elev: 942 ft. Lat: 38.948° N Lon: 94.397° W

Station: **UNITY VILLAGE, MO US**

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	.25	.50	.75
1	1.48	4.9	3.5	0.9	0.3	0.69	1.31	2.16
2	1.79	4.9	3.7	1.2	0.4	1.19	1.65	2.42
3	2.87	6.8	5.2	2.0	0.7	1.93	2.38	3.43
4	3.99	8.5	6.1	3.0	1.4	2.11	3.76	5.31
5	5.80	9.9	7.5	3.8	2.0	2.97	5.91	7.24
6	6.12	9.0	7.5	4.0	2.0	3.65	6.42	7.65
7	4.23	8.0	6.3	2.6	1.3	1.89	3.66	6.19
8	4.41	7.1	5.4	2.2	1.0	1.93	3.77	5.82
9	4.90	6.7	5.2	3.0	1.5	2.16	4.15	6.16
10	3.89	6.9	5.5	2.5	1.5	1.94	3.84	5.62
11	2.53	5.8	4.0	1.8	0.8	1.27	2.05	3.81
12	1.90	5.0	3.6	1.4	0.5	0.99	1.68	2.65
Summary	43.91	83.5	63.5	28.4	13.4	22.72	40.58	58.46

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**Summary of
 Monthly Normals
 1981-2010**

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 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **UNITY VILLAGE, MO US**

GHCND:USC00238524
 Elev: 942 ft. Lat: 38.948° N Lon: 94.397° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.3	2.0	1.3	0.5	-7777	0.0	@	@	@	@	0.1	2.3	5.0
2	2.8	1.4	1.1	0.4	0.1	0.0	@	@	@	@	0.0	2.0	4.2
3	1.3	0.7	0.3	0.2	0.1	0.0	@	@	@	@	0.0	0.1	1.5
4	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.2	0.1	0.1	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
11	0.8	0.3	0.2	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.1
12	3.7	1.7	0.9	0.4	0.1	-7777	@	@	@	@	0.0	1.4	6.6
Summary	12.2	6.3	4.0	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.1	5.8	17.4

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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Station: **BOONVILLE, MO US**

GHCND:USC00230817
 Elev: 744 ft. Lat: 38.971° N Lon: 92.760° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.3	20.1	29.2	5.2	4.5	4.7	1	1	-7777	0	0	0	801	862	955	1110	0.0	0.0	5.4	9.3	26.9	1.4
2	43.9	23.7	33.8	5.3	5.0	5.0	3	2	1	-7777	-7777	0	596	651	734	874	0.0	0.0	9.7	5.2	21.4	1.0
3	55.0	33.5	44.3	4.3	3.3	3.6	32	23	12	3	-7777	-7777	366	418	501	647	0.0	0.0	19.1	1.2	13.1	0.0
4	66.7	44.0	55.4	4.3	3.3	3.6	130	102	68	28	8	4	120	152	207	318	0.0	0.3	26.9	0.0	2.6	0.0
5	75.9	54.4	65.1	3.4	3.4	3.2	327	274	200	100	37	22	12	21	40	96	0.0	1.0	30.9	0.0	0.0	0.0
6	84.8	64.0	74.4	2.8	2.3	2.4	582	522	434	291	163	120	-7777	-7777	2	9	0.1	6.7	30.0	0.0	0.0	0.0
7	89.5	68.3	78.9	2.6	2.1	2.1	741	679	586	431	280	223	0	0	0	-7777	1.2	15.0	31.0	0.0	0.0	0.0
8	88.4	66.1	77.3	3.9	3.0	3.3	690	628	535	382	238	187	-7777	-7777	-7777	2	1.9	13.4	31.0	0.0	0.0	0.0
9	80.1	56.7	68.4	3.2	2.6	2.7	411	357	279	164	79	56	9	15	27	62	0.1	3.9	30.0	0.0	-7777	0.0
10	68.4	44.7	56.5	2.9	2.9	2.6	142	110	70	26	6	3	94	124	177	288	0.0	0.1	29.5	0.0	2.5	0.0
11	54.6	34.4	44.5	5.3	3.6	4.2	29	20	11	2	-7777	-7777	344	395	476	617	0.0	0.0	18.4	0.9	11.9	0.0
12	41.2	23.2	32.2	5.4	5.6	5.4	2	1	1	0	0	0	709	770	862	1017	0.0	0.0	7.1	6.3	24.7	1.3
Summary	65.6	44.4	55.0	4.1	3.5	3.6	3090	2719	2197	1427	811	615	3051	3408	3981	5040	3.3	40.4	269.0	22.9	103.1	3.7

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**Summary of
Monthly Normals
1981-2010**

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BOONVILLE, MO US**

GHCND:USC00230817
Elev: 744 ft. Lat: 38.971° N Lon: 92.760° W

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	.25	.50	.75
1	1.74	7.0	3.3	1.0	0.4	0.70	1.68	2.33
2	2.07	7.3	3.7	1.1	0.5	0.98	1.73	2.79
3	2.92	9.2	5.8	1.7	0.6	1.61	2.52	3.58
4	4.36	10.6	6.7	2.7	1.1	2.24	3.67	5.95
5	5.41	12.2	7.8	3.5	1.4	2.40	4.70	7.29
6	5.42	9.9	6.1	3.2	1.8	3.07	4.69	7.82
7	4.20	8.7	6.0	2.9	1.2	2.35	3.94	5.81
8	4.65	8.2	5.8	3.3	1.6	2.52	4.11	6.20
9	4.18	8.3	5.3	2.3	1.2	1.77	3.44	5.99
10	3.50	9.2	5.7	2.3	0.8	1.75	2.77	3.96
11	3.78	8.9	5.7	2.5	1.2	1.88	2.53	4.36
12	2.47	7.5	4.4	1.4	0.5	1.11	2.12	2.81
Summary	44.70	107.0	66.3	27.9	12.3	22.38	37.90	58.89

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Station: **BOONVILLE, MO US**

GHCND:USC00230817
Elev: 744 ft. Lat: 38.971° N Lon: 92.760° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.8	2.8	2.3	0.7	0.3	0.0	8.0	3.2	1.9	0.1	1.0	4.0	11.0
2	4.4	1.9	1.7	0.6	0.2	0.0	5.2	1.8	0.5	0.1	0.0	3.7	7.0
3	1.5	0.6	0.6	0.2	0.1	0.0	0.8	0.3	0.1	0.0	0.0	0.0	2.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.5	0.3	0.3	0.1	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
12	4.0	2.1	1.7	0.6	0.1	0.1	4.2	2.3	0.5	0.1	0.5	2.5	6.8
Summary	16.2	7.7	6.6	2.2	0.7	0.1	18.3	7.6	3.0	0.3	1.5	10.2	26.8

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Station: **BOONVILLE, MO US**

GHCND:USC00230817
Elev: 744 ft. Lat: 38.971° N Lon: 92.760° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	27	60	210	467	780	1032	1206	1155	852	516	208	46
45	10	26	125	335	625	882	1051	1000	702	372	125	20
50	3	9	67	220	472	732	896	845	554	244	64	8
55	1	3	32	130	327	582	741	690	411	142	29	2
60	-7777	1	12	68	200	434	586	535	279	70	11	1
Growing Degree Units for Corn (Monthly)												
50/86	20	43	134	279	485	701	822	776	550	314	123	28

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	27	87	297	764	1544	2576	3782	4937	5789	6305	6513	6559
45	10	36	161	496	1121	2003	3054	4054	4756	5128	5253	5273
50	3	12	79	299	771	1503	2399	3244	3798	4042	4106	4114
55	1	4	36	166	493	1075	1816	2506	2917	3059	3088	3090
60	0	1	13	81	281	715	1301	1836	2115	2185	2196	2197
Growing Degree Units for Corn (Monthly)												
50/86	20	63	197	476	961	1662	2484	3260	3810	4124	4247	4275

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ST CHARLES 7 SSW, MO US**

GHCND:USC00237398
 Elev: 450 ft. Lat: 38.686° N Lon: 90.523° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.7	21.5	30.6	5.3	4.9	4.9	2	1	-7777	-7777	0	0	758	819	912	1066	0.0	0.0	6.8	8.4	25.9	1.4
2	44.9	25.2	35.0	5.0	4.4	4.6	4	3	1	-7777	-7777	-7777	563	617	700	839	0.0	0.0	9.4	4.4	20.5	0.5
3	55.0	34.5	44.8	4.3	3.3	3.7	37	27	16	6	1	-7777	355	407	489	634	0.0	0.0	19.3	0.9	13.6	0.0
4	66.9	45.4	56.1	3.9	3.1	3.4	142	113	77	35	11	6	108	138	192	300	0.0	0.3	27.8	0.0	2.3	0.0
5	75.8	55.7	65.8	3.4	3.0	3.1	343	289	214	111	44	28	10	17	35	88	0.0	0.8	31.0	0.0	-7777	0.0
6	84.5	64.9	74.7	2.8	2.0	2.2	591	531	443	300	171	127	-7777	-7777	2	9	-7777	6.9	30.0	0.0	0.0	0.0
7	88.5	68.9	78.7	2.4	2.1	2.1	735	673	580	425	273	217	0	-7777	-7777	-7777	0.7	13.2	31.0	0.0	0.0	0.0
8	87.3	66.7	77.0	3.2	3.1	3.0	682	620	527	374	230	178	-7777	-7777	-7777	2	0.5	11.2	31.0	0.0	0.0	0.0
9	80.0	57.5	68.8	2.6	2.5	2.4	420	365	285	169	81	56	8	12	23	56	-7777	3.2	30.0	0.0	-7777	0.0
10	68.5	45.5	57.0	3.0	2.8	2.5	149	115	74	28	7	4	87	115	167	276	0.0	0.2	29.9	0.0	2.4	0.0
11	56.2	36.1	46.2	4.7	3.3	3.8	39	28	15	4	1	-7777	305	353	430	569	0.0	0.0	19.4	0.5	10.9	0.0
12	42.7	24.9	33.8	5.7	5.5	5.4	4	3	1	-7777	0	0	661	722	813	967	0.0	0.0	8.7	5.6	23.2	0.7
Summary	65.8	45.6	55.7	3.9	3.3	3.4	3148	2768	2233	1452	819	616	2855	3200	3763	4806	1.2	35.8	274.3	19.8	98.8	2.6

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ST CHARLES 7 SSW, MO US**

GHCND:USC00237398
Elev: 450 ft. Lat: 38.686° N Lon: 90.523° W

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	.25	.50	.75
1	2.03	5.8	4.0	1.3	0.5	1.19	1.74	3.18
2	2.32	6.8	4.8	1.6	0.5	1.22	1.94	3.51
3	3.27	9.5	6.7	2.3	0.5	2.50	3.15	4.14
4	3.67	9.9	7.1	2.6	0.8	2.22	3.12	4.96
5	4.98	11.0	8.1	3.2	1.5	3.25	4.13	7.02
6	4.03	8.8	6.3	2.7	1.2	2.22	3.85	5.31
7	4.05	7.3	5.4	2.5	1.3	2.33	3.56	5.20
8	3.22	7.3	5.5	2.1	0.9	2.30	3.00	3.80
9	3.37	6.7	4.8	2.2	1.2	1.23	2.69	4.31
10	3.33	8.0	6.0	2.5	0.9	1.62	2.86	4.36
11	3.90	8.6	6.4	2.8	1.0	2.15	3.62	5.82
12	2.97	7.6	5.1	2.0	1.0	1.88	2.66	3.48
Summary	41.14	97.3	70.2	27.8	11.3	24.11	36.32	55.09

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ST CHARLES 7 SSW, MO US**

GHCND:USC00237398
 Elev: 450 ft. Lat: 38.686° N Lon: 90.523° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.1	1.0	0.7	0.3	0.1	-7777	@	@	@	@	0.0	2.0	3.0
2	2.4	1.2	0.6	0.3	0.1	-7777	@	@	@	@	0.0	0.1	4.2
3	0.2	0.2	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.1
4	0.1	-7777	-7777	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.3	0.3	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.2
12	2.3	1.2	0.8	0.3	0.2	0.0	@	@	@	@	0.0	0.1	4.6
Summary	8.4	3.9	2.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.2	12.1

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Station: **ST CHARLES 7 SSW, MO US**

GHCND:USC00237398
Elev: 450 ft. Lat: 38.686° N Lon: 90.523° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	40	68	221	489	798	1041	1199	1146	862	529	240	59
45	16	33	135	355	643	891	1044	992	712	383	150	28
50	6	13	75	236	490	741	889	837	564	253	82	12
55	2	4	37	142	343	591	735	682	420	149	39	4
60	-7777	1	16	77	214	443	580	527	285	74	15	1
Growing Degree Units for Corn (Monthly)												
50/86	27	47	134	290	503	711	829	784	564	319	139	36

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	40	108	329	818	1616	2657	3856	5002	5864	6393	6633	6692
45	16	49	184	539	1182	2073	3117	4109	4821	5204	5354	5382
50	6	19	94	330	820	1561	2450	3287	3851	4104	4186	4198
55	2	6	43	185	528	1119	1854	2536	2956	3105	3144	3148
60	0	1	17	94	308	751	1331	1858	2143	2217	2232	2233
Growing Degree Units for Corn (Monthly)												
50/86	27	74	208	498	1001	1712	2541	3325	3889	4208	4347	4383

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

M indicates the value is missing

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 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **INDEPENDENCE, MO US**

GHCND:USC00234154
 Elev: 985 ft. Lat: 39.065° N Lon: 94.386° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.1	19.7	28.9	5.7	4.7	5.1	-7777	-7777	-7777	0	0	0	809	871	964	1119	0.0	0.0	6.0	10.0	27.3	1.5
2	43.9	23.8	33.8	5.9	5.3	5.4	3	2	1	-7777	-7777	0	595	650	733	872	0.0	0.0	10.2	5.4	22.4	0.4
3	54.9	32.5	43.7	4.5	3.6	3.8	29	20	10	2	-7777	0	380	432	515	663	0.0	0.0	19.6	1.5	16.0	0.1
4	65.2	43.1	54.1	3.9	2.7	3.2	104	79	49	17	3	1	130	165	225	342	0.0	0.1	26.9	0.0	3.8	0.0
5	74.8	53.6	64.2	3.2	3.6	3.2	298	245	175	83	29	17	13	22	44	107	0.0	0.5	30.9	0.0	0.0	0.0
6	83.2	62.6	72.9	3.0	2.4	2.6	537	477	389	247	124	83	-7777	-7777	2	10	0.1	3.6	30.0	0.0	0.0	0.0
7	87.9	68.0	78.0	2.3	2.0	1.8	711	649	556	402	253	198	0	0	0	-7777	0.8	12.0	31.0	0.0	0.0	0.0
8	87.5	65.9	76.7	4.1	3.1	3.5	672	611	518	365	222	172	0	-7777	-7777	2	1.0	12.2	31.0	0.0	0.0	0.0
9	78.9	56.6	67.7	3.2	2.7	2.8	390	335	256	144	65	43	8	12	24	62	0.1	2.6	30.0	0.0	0.0	0.0
10	67.1	45.2	56.2	2.7	2.0	2.1	133	102	64	22	5	3	97	128	183	296	0.0	0.1	29.3	0.1	2.1	0.0
11	53.9	34.4	44.2	5.2	3.4	4.1	28	19	9	1	-7777	-7777	353	404	485	627	0.0	0.0	18.2	1.2	12.6	0.0
12	40.8	23.0	31.9	5.8	5.5	5.5	1	1	-7777	0	0	0	717	779	871	1026	0.0	0.0	7.5	7.0	25.5	0.4
Summary	64.7	44.0	54.4	4.1	3.4	3.6	2906	2540	2027	1283	701	517	3102	3463	4046	5126	2.0	31.1	270.6	25.2	109.7	2.4

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **INDEPENDENCE, MO US**

GHCND:USC00234154
Elev: 985 ft. Lat: 39.065° N Lon: 94.386° W

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	.25	.50	.75
1	1.45	6.7	4.0	0.8	0.2	0.63	1.22	1.97
2	1.79	6.1	3.9	1.4	0.4	1.09	1.62	2.26
3	2.93	9.6	5.7	1.8	0.6	1.67	2.73	3.82
4	4.14	10.9	7.0	3.1	1.5	2.15	3.95	5.80
5	5.19	13.0	8.3	4.1	1.6	2.78	4.23	6.17
6	5.75	11.3	8.2	4.0	2.0	4.09	5.71	7.16
7	4.84	10.7	7.2	3.5	1.6	1.99	4.66	6.06
8	4.29	8.9	5.7	2.7	1.3	2.28	3.30	5.57
9	5.25	9.0	6.2	3.2	1.4	2.18	4.23	7.52
10	3.47	9.3	5.5	2.1	0.9	2.04	3.30	4.40
11	2.57	7.1	4.5	1.8	0.7	1.35	2.32	3.65
12	2.00	7.0	4.4	1.2	0.2	1.20	1.85	3.06
Summary	43.67	109.6	70.6	29.7	12.4	23.45	39.12	57.44

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Station: **INDEPENDENCE, MO US**

GHCND:USC00234154
Elev: 985 ft. Lat: 39.065° N Lon: 94.386° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.8	3.2	1.5	0.5	0.2	0.0	7.2	3.7	1.4	0.2	1.7	3.1	6.7
2	2.3	2.2	1.2	0.2	0.1	0.0	3.6	1.2	0.4	0.0	0.1	2.5	3.4
3	2.3	1.0	0.5	0.2	0.2	0.0	1.4	0.6	0.3	0.0	0.0	0.3	4.1
4	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.4	-7777	-7777	-7777	-7777	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
11	1.6	0.6	0.4	0.2	0.1	0.0	0.8	0.4	0.1	0.0	0.0	0.0	2.7
12	4.4	3.2	1.9	0.4	0.2	0.0	6.0	3.4	1.7	0.1	1.1	3.0	5.9
Summary	15.0	10.4	5.6	1.5	0.8	0.0	19.2	9.5	4.0	0.3	2.9	8.9	22.8

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **INDEPENDENCE, MO US**

GHCND:USC00234154
Elev: 985 ft. Lat: 39.065° N Lon: 94.386° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	25	57	201	433	750	987	1176	1137	832	504	200	39
45	9	25	119	302	595	837	1021	982	683	360	120	15
50	3	9	64	189	442	687	866	827	534	233	62	5
55	-7777	3	29	104	298	537	711	672	390	133	28	1
60	-7777	1	10	49	175	389	556	518	256	64	9	-7777
Growing Degree Units for Corn (Monthly)												
50/86	19	42	134	255	460	670	811	769	534	295	116	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	25	82	283	716	1466	2453	3629	4766	5598	6102	6302	6341
45	9	34	153	455	1050	1887	2908	3890	4573	4933	5053	5068
50	3	12	76	265	707	1394	2260	3087	3621	3854	3916	3921
55	0	3	32	136	434	971	1682	2354	2744	2877	2905	2906
60	0	1	11	60	235	624	1180	1698	1954	2018	2027	2027
Growing Degree Units for Corn (Monthly)												
50/86	19	61	195	450	910	1580	2391	3160	3694	3989	4105	4129

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

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CHILLICOTHE AGRI SCIENCE CENTER, MO US**

GHCND:USW00053916
Elev: 769 ft. Lat: 39.823° N Lon: 93.579° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	36.6	17.7	27.1	5.5	5.2	5.1	-7777	0	0	0	0	0	863	925	1018	1173	0.0	0.0	4.7	10.2	28.2	2.4
2	41.9	21.0	31.5	5.7	5.7	5.5	1	-7777	-7777	0	0	0	661	716	799	939	0.0	0.0	7.8	6.0	23.8	1.3
3	54.1	31.2	42.7	4.1	3.5	3.6	23	16	7	2	-7777	0	406	460	545	694	0.0	0.0	19.2	0.8	16.8	0.0
4	65.1	42.4	53.7	3.8	3.0	3.3	94	70	42	12	2	-7777	132	168	230	350	0.0	0.0	26.9	0.0	4.9	0.0
5	73.6	52.5	63.0	3.0	3.2	3.0	266	215	148	65	19	10	17	28	54	125	0.0	0.2	31.0	0.0	0.2	0.0
6	82.9	61.8	72.4	2.7	2.4	2.3	521	461	373	233	113	75	-7777	-7777	2	13	0.0	3.9	30.0	0.0	0.0	0.0
7	87.4	66.4	76.9	2.6	2.3	2.1	679	617	524	369	222	167	0	0	-7777	-7777	0.4	11.2	31.0	0.0	0.0	0.0
8	85.9	64.5	75.2	4.0	3.6	3.6	626	564	471	320	180	133	0	-7777	-7777	4	1.1	8.3	31.0	0.0	0.0	0.0
9	77.3	54.3	65.8	2.9	2.7	2.5	335	281	207	104	40	24	11	17	33	80	0.0	1.0	30.0	0.0	0.0	0.0
10	66.3	43.4	54.9	2.9	2.4	2.2	114	86	52	18	6	4	118	153	212	333	0.0	0.2	29.3	0.0	3.7	0.0
11	51.8	31.3	41.6	5.5	4.1	4.5	13	8	3	-7777	-7777	0	417	471	557	704	0.0	0.0	16.8	1.4	16.9	0.0
12	38.9	20.5	29.7	6.1	6.1	5.9	1	-7777	-7777	0	0	0	785	846	939	1094	0.0	0.0	5.8	9.5	26.5	1.6
Summary	63.5	42.3	52.9	4.1	3.7	3.6	2673	2318	1827	1123	582	413	3410	3784	4389	5509	1.5	24.8	263.5	27.9	121.0	5.3

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 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CHILLICOTHE AGRI SCIENCE CENTER, MO US**

GHCND:USW00053916
 Elev: 769 ft. Lat: 39.823° N Lon: 93.579° W

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	.25	.50	.75
1	1.10	@	@	@	@			
2	1.44	@	@	@	@			
3	2.70	@	@	@	@			
4	3.57	@	@	@	@			
5	5.12	@	@	@	@			
6	5.10	@	@	@	@			
7	3.86	@	@	@	@			
8	4.21	@	@	@	@			
9	3.91	@	@	@	@			
10	3.28	@	@	@	@			
11	2.59	@	@	@	@			
12	1.70	@	@	@	@			
Summary	38.58	0.0	0.0	0.0	0.0			

@ Denotes mean number of days greater than 0 but less than 0.05.
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U.S. Department of Commerce
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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: CHILLICOTHE AGRI SCIENCE CENTER, MO US

GHCND:USW00053916
 Elev: 769 ft. Lat: 39.823° N Lon: 93.579° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	37	166	420	715	970	1143	1091	774	464	147	28
45	5	16	93	290	560	820	989	936	624	324	80	10
50	1	5	48	178	408	670	834	781	476	204	37	3
55	-7777	1	23	94	266	521	679	626	335	114	13	1
60	0	-7777	7	42	148	373	524	471	207	52	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	13	31	114	253	436	655	785	739	494	278	89	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	53	219	639	1354	2324	3467	4558	5332	5796	5943	5971
45	5	21	114	404	964	1784	2773	3709	4333	4657	4737	4747
50	1	6	54	232	640	1310	2144	2925	3401	3605	3642	3645
55	0	1	24	118	384	905	1584	2210	2545	2659	2672	2673
60	0	0	7	49	197	570	1094	1565	1772	1824	1827	1827
Growing Degree Units for Corn (Monthly)												
50/86	13	44	158	411	847	1502	2287	3026	3520	3798	3887	3905

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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National Climatic Data Center
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www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **URICH 2 SW, MO US**

GHCND:USC00238542

Elev: 900 ft. Lat: 38.431° N Lon: 94.025° W

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	.25	.50	.75
1	1.41	@	@	@	@			
2	2.13	@	@	@	@			
3	2.93	@	@	@	@			
4	3.74	@	@	@	@			
5	5.43	@	@	@	@			
6	5.59	@	@	@	@			
7	4.53	@	@	@	@			
8	3.06	@	@	@	@			
9	4.21	@	@	@	@			
10	3.71	@	@	@	@			
11	2.39	@	@	@	@			
12	2.12	@	@	@	@			
Summary	41.25	0.0	0.0	0.0	0.0			

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **STEELVILLE 2 N, MO US**

GHCND:USC00238043
Elev: 700 ft. Lat: 38.005° N Lon: 91.370° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.8	18.1	30.0	4.8	4.4	4.1	1	-7777	-7777	-7777	0	0	777	839	931	1086	0.0	0.0	8.3	6.8	27.1	2.3
2	47.7	21.6	34.6	4.7	4.5	4.4	4	2	1	-7777	0	0	573	628	711	850	0.0	0.0	12.3	3.9	23.2	1.4
3	57.5	29.8	43.7	4.2	2.9	3.1	28	20	11	3	1	-7777	380	434	518	665	0.0	0.0	21.6	0.6	18.5	0.1
4	68.9	38.9	53.9	4.3	3.7	3.6	109	84	55	22	6	3	142	177	238	355	0.0	0.7	27.8	0.0	8.7	0.0
5	76.9	48.6	62.7	3.1	4.4	3.4	264	215	150	68	20	11	23	37	65	138	0.0	1.1	31.0	0.0	1.1	0.0
6	84.1	58.0	71.0	2.8	2.2	2.1	482	423	337	204	93	59	1	2	6	22	0.1	4.8	30.0	0.0	0.0	0.0
7	88.5	62.7	75.6	2.3	2.4	2.0	638	576	484	330	188	137	-7777	-7777	-7777	2	0.5	13.7	31.0	0.0	0.0	0.0
8	87.8	60.7	74.3	3.5	3.0	3.0	597	535	443	294	161	117	-7777	-7777	1	7	0.9	11.7	31.0	0.0	0.0	0.0
9	79.7	51.6	65.6	2.7	2.7	2.4	335	283	211	113	48	31	15	23	41	94	0.0	3.0	30.0	0.0	0.4	0.0
10	69.7	40.2	54.9	3.2	3.5	2.7	119	89	53	16	3	1	121	153	209	328	0.0	0.1	29.9	0.0	7.8	0.0
11	56.8	30.3	43.5	4.7	3.3	3.4	26	17	8	1	-7777	-7777	370	421	502	645	0.0	0.0	19.6	0.6	18.3	0.0
12	44.2	20.6	32.4	5.9	5.5	5.4	3	2	1	-7777	0	0	703	764	856	1010	0.0	0.0	10.3	5.4	25.7	1.9
Summary	67.0	40.1	53.5	3.9	3.5	3.3	2606	2246	1754	1051	520	359	3105	3478	4078	5202	1.5	35.1	282.8	17.3	130.8	5.7

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Summary of Monthly Normals 1981-2010

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Station: STEELVILLE 2 N, MO US

GHCND:USC00238043
 Elev: 700 ft. Lat: 38.005° N Lon: 91.370° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	34	61	198	427	705	931	1103	1061	770	469	190	48
45	14	27	116	299	551	781	948	906	620	331	113	21
50	5	10	60	190	401	631	793	751	474	212	59	9
55	1	4	28	109	264	482	638	597	335	119	26	3
60	-7777	1	11	55	150	337	484	443	211	53	8	1
Growing Degree Units for Corn (Monthly)												
50/86	35	64	159	298	461	616	735	699	504	327	146	45

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	34	95	293	720	1425	2356	3459	4520	5290	5759	5949	5997
45	14	41	157	456	1007	1788	2736	3642	4262	4593	4706	4727
50	5	15	75	265	666	1297	2090	2841	3315	3527	3586	3595
55	1	5	33	142	406	888	1526	2123	2458	2577	2603	2606
60	0	1	12	67	217	554	1038	1481	1692	1745	1753	1754
Growing Degree Units for Corn (Monthly)												
50/86	35	99	258	556	1017	1633	2368	3067	3571	3898	4044	4089

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **TECUMSEH, MO US**

GHCND:USC00238313
Elev: 600 ft. Lat: 36.597° N Lon: 92.262° W

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	.25	.50	.75
1	2.92	5.4	4.5	2.1	0.8	1.47	2.68	3.89
2	2.94	5.5	4.6	2.2	0.8	1.75	2.79	3.70
3	4.16	8.6	6.7	3.0	1.3	2.33	3.54	4.67
4	4.08	7.6	6.2	2.8	1.3	2.73	3.61	5.12
5	4.60	9.5	7.5	3.1	1.2	3.43	4.20	5.29
6	3.43	7.8	6.5	2.5	0.9	2.23	3.43	4.39
7	3.18	6.8	5.4	2.2	0.6	1.83	3.32	4.13
8	3.29	6.3	4.8	2.0	1.0	1.59	3.18	4.24
9	4.09	6.0	4.5	2.5	1.3	1.89	2.89	5.67
10	3.68	6.8	5.5	2.2	1.1	1.87	2.76	4.91
11	4.59	7.0	6.0	3.2	1.3	1.84	4.15	6.35
12	3.39	6.4	5.2	2.7	0.9	1.64	3.08	4.39
Summary	44.35	83.7	67.4	30.5	12.5	24.60	39.63	56.75

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **TECUMSEH, MO US**

GHCND:USC00238313
 Elev: 600 ft. Lat: 36.597° N Lon: 92.262° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	1.6	0.6	0.6	0.4	0.1	0.0	@	@	@	@	0.0	0.0	3.2
2	3.7	0.8	0.7	0.4	0.2	0.1	@	@	@	@	0.0	0.0	4.3
3	1.5	0.3	0.2	0.2	0.1	-7777	@	@	@	@	0.0	0.0	0.1
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	-7777	-7777	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	0.8	0.3	0.2	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
Summary	7.6	2.0	1.7	1.1	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.6

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **POWELL, MO US**

GHCND:USC00236834

Elev: 1016 ft. Lat: 36.613° N Lon: 94.184° W

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	.25	.50	.75
1	1.90	@	@	@	@			
2	2.53	@	@	@	@			
3	4.24	@	@	@	@			
4	4.02	@	@	@	@			
5	5.28	@	@	@	@			
6	4.91	@	@	@	@			
7	3.66	@	@	@	@			
8	3.41	@	@	@	@			
9	4.84	@	@	@	@			
10	3.96	@	@	@	@			
11	4.10	@	@	@	@			
12	3.17	@	@	@	@			
Summary	46.02	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CLINTON, MO US**

GHCND:USC00231711
 Elev: 770 ft. Lat: 38.395° N Lon: 93.771° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.0	19.4	29.7	5.5	4.4	4.7	1	-7777	-7777	-7777	0	0	785	847	939	1094	0.0	0.0	7.4	7.5	27.3	1.5
2	45.6	23.4	34.5	5.5	5.1	5.1	4	2	1	-7777	0	0	578	632	715	854	0.0	0.0	10.8	4.5	21.7	1.2
3	56.3	32.7	44.5	4.3	3.4	3.6	31	22	12	3	-7777	-7777	357	409	492	638	0.0	0.0	20.5	0.9	15.4	0.0
4	66.2	42.7	54.5	4.1	3.4	3.5	110	85	54	20	5	2	127	161	220	337	0.0	0.1	27.2	0.0	3.7	0.0
5	75.3	53.6	64.4	3.7	3.9	3.6	308	256	185	91	32	19	15	25	47	108	0.0	0.5	30.9	0.0	0.3	0.0
6	83.9	63.3	73.6	2.6	2.1	2.2	558	499	410	268	143	102	-7777	1	2	10	-7777	4.3	30.0	0.0	0.0	0.0
7	89.1	67.8	78.5	2.4	2.3	2.1	727	665	572	417	267	210	0	0	0	-7777	0.9	13.9	31.0	0.0	0.0	0.0
8	88.8	66.0	77.4	4.4	2.6	3.3	694	632	540	386	243	191	-7777	-7777	-7777	2	1.9	14.1	31.0	0.0	0.0	0.0
9	80.2	56.1	68.1	3.2	3.1	2.9	403	349	272	160	78	54	9	15	27	66	0.1	3.8	30.0	0.0	0.1	0.0
10	69.0	44.3	56.6	3.2	3.3	2.6	142	109	69	25	6	3	91	120	173	284	0.0	0.0	29.7	0.0	3.5	0.0
11	55.7	34.3	45.0	4.7	3.7	3.8	31	21	10	2	-7777	-7777	331	381	461	602	0.0	0.0	19.8	0.4	13.2	-7777
12	42.7	22.8	32.8	5.8	5.8	5.6	3	2	1	-7777	0	0	693	753	845	1000	0.0	0.0	9.4	5.9	25.0	1.4
Summary	66.1	43.9	55.0	4.1	3.6	3.6	3012	2642	2126	1372	774	581	2986	3344	3921	4995	2.9	36.7	277.7	19.2	110.2	4.1

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1981-2010**

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLINTON, MO US**

GHCND:USC00231711
Elev: 770 ft. Lat: 38.395° N Lon: 93.771° W

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	.25	.50	.75
1	1.62	6.0	3.8	0.8	0.3	0.83	1.35	2.27
2	2.11	5.9	3.8	1.3	0.5	1.29	1.79	2.63
3	2.94	8.9	6.3	2.1	0.6	1.98	3.00	3.64
4	4.34	10.5	7.2	2.9	1.3	2.92	3.84	4.82
5	5.72	11.3	8.2	3.8	1.9	4.17	5.90	7.28
6	6.01	10.2	7.3	3.9	2.2	3.79	4.99	7.37
7	4.21	7.5	5.7	2.7	1.6	2.01	3.61	5.42
8	4.12	6.9	5.6	2.5	1.3	1.89	3.53	5.61
9	4.42	7.5	5.5	2.9	1.6	2.10	3.38	5.02
10	3.73	8.7	6.1	2.4	1.1	2.15	2.96	5.02
11	3.41	7.3	5.1	2.3	1.1	1.58	2.82	4.16
12	2.38	6.6	4.5	1.7	0.4	1.05	2.41	3.09
Summary	45.01	97.3	69.1	29.3	13.9	25.76	39.58	56.33

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLINTON, MO US**

GHCND:USC00231711
Elev: 770 ft. Lat: 38.395° N Lon: 93.771° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.5	2.5	1.6	0.4	0.1	0.0	4.9	2.9	1.5	0.0	0.9	3.2	5.6
2	2.9	1.6	0.9	0.4	0.2	0.0	2.2	1.3	0.4	0.0	0.0	1.4	5.0
3	1.8	1.0	0.5	0.2	0.1	0.0	1.1	0.4	0.2	0.0	0.0	0.0	4.3
4	0.1	0.2	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.3	0.1	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.5
12	2.2	1.6	1.1	0.3	0.1	0.0	2.7	1.9	0.9	-7777	0.0	0.8	4.3
Summary	12.1	7.2	4.2	1.4	0.5	0.0	11.1	6.6	3.0	0.0	0.9	5.4	19.7

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLINTON, MO US**

GHCND:USC00231711
Elev: 770 ft. Lat: 38.395° N Lon: 93.771° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	27	65	211	440	758	1008	1192	1159	844	519	216	48
45	10	29	125	308	603	858	1037	1004	695	375	132	22
50	3	11	67	196	451	708	882	849	546	246	70	9
55	1	4	31	110	308	558	727	694	403	142	31	3
60	-7777	1	12	54	185	410	572	540	272	69	10	1
Growing Degree Units for Corn (Monthly)												
50/86	25	53	146	269	477	687	815	778	549	326	133	36

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	27	92	303	743	1501	2509	3701	4860	5704	6223	6439	6487
45	10	39	164	472	1075	1933	2970	3974	4669	5044	5176	5198
50	3	14	81	277	728	1436	2318	3167	3713	3959	4029	4038
55	1	5	36	146	454	1012	1739	2433	2836	2978	3009	3012
60	0	1	13	67	252	662	1234	1774	2046	2115	2125	2126
Growing Degree Units for Corn (Monthly)												
50/86	25	78	224	493	970	1657	2472	3250	3799	4125	4258	4294

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

M indicates the value is missing

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U.S. Department of Commerce
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: PORTAGEVILLE, MO US

GHCND:USC00236804
 Elev: 280 ft. Lat: 36.414° N Lon: 89.700° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.3	27.3	35.3	4.4	4.5	4.3	4	2	1	-7777	0	0	614	675	766	921	0.0	0.0	8.6	4.8	21.2	0.4
2	48.4	31.4	39.9	4.5	4.0	4.1	8	5	2	-7777	0	0	430	483	565	703	0.0	0.0	13.4	2.9	14.7	-7777
3	58.3	40.0	49.1	3.6	2.8	3.1	57	41	23	6	1	-7777	239	284	359	498	0.0	0.0	23.1	0.3	6.6	0.0
4	69.0	49.3	59.1	3.7	3.2	3.3	184	145	96	40	11	4	60	81	122	216	0.0	0.1	29.1	0.0	0.6	0.0
5	78.2	59.1	68.7	3.0	3.1	2.8	425	366	282	161	71	46	2	5	14	48	0.0	1.2	31.0	0.0	0.0	0.0
6	86.7	67.3	77.0	2.7	2.0	2.1	660	600	510	362	221	170	0	-7777	-7777	2	0.1	10.0	30.0	0.0	0.0	0.0
7	89.5	70.6	80.0	2.4	1.7	1.8	776	714	621	466	313	253	0	0	0	-7777	0.2	15.7	31.0	0.0	0.0	0.0
8	88.5	68.5	78.5	3.1	2.5	2.6	728	666	573	419	269	212	0	0	-7777	-7777	0.3	12.7	31.0	0.0	0.0	0.0
9	82.0	60.6	71.3	2.8	2.5	2.5	491	433	348	217	109	76	2	4	10	28	-7777	4.4	30.0	0.0	0.0	0.0
10	71.6	49.4	60.5	2.9	3.1	2.5	215	172	116	50	15	8	45	63	101	189	0.0	0.2	30.8	0.0	0.7	0.0
11	58.6	40.5	49.6	4.0	3.0	3.3	55	39	21	5	1	-7777	218	262	335	469	0.0	0.0	22.5	-7777	5.5	0.0
12	46.4	30.5	38.4	4.9	5.1	4.9	7	4	2	-7777	0	0	520	579	670	823	0.0	0.0	11.6	3.1	17.9	0.2
Summary	68.4	49.5	59.0	3.5	3.1	3.1	3610	3187	2595	1726	1011	769	2130	2436	2942	3897	0.6	44.3	292.1	11.1	67.2	0.6

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **PORTAGEVILLE, MO US**

GHCND:USC00236804
Elev: 280 ft. Lat: 36.414° N Lon: 89.700° W

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	.25	.50	.75
1	3.22	9.5	5.7	2.5	0.8	1.83	2.94	4.65
2	3.77	8.8	5.7	2.4	1.1	2.52	3.29	4.48
3	4.00	10.5	7.1	2.7	1.1	2.87	3.76	4.76
4	4.77	10.5	7.8	3.5	1.3	3.73	4.65	5.53
5	4.82	11.9	7.4	3.1	1.4	3.07	4.82	6.39
6	4.04	9.0	6.0	3.1	1.3	2.85	4.44	5.17
7	3.44	8.1	5.2	2.5	1.0	1.85	3.09	4.80
8	2.26	6.5	4.3	1.5	0.5	1.61	2.11	3.03
9	3.32	7.1	4.9	2.2	0.9	1.71	2.63	4.49
10	4.25	8.5	5.7	2.5	1.1	2.15	3.42	5.52
11	4.46	9.7	6.3	2.8	1.1	2.36	3.53	6.61
12	4.49	10.2	6.8	3.3	1.3	2.74	4.32	5.19
Summary	46.84	110.3	72.9	32.1	12.9	29.29	43.00	60.62

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **PORTAGEVILLE, MO US**

GHCND:USC00236804
Elev: 280 ft. Lat: 36.414° N Lon: 89.700° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.6	1.1	1.0	0.3	0.3	-7777	2.6	1.4	0.8	0.0	0.0	1.1	5.5
2	2.7	1.4	1.3	0.3	0.1	0.0	2.2	0.7	0.1	0.0	0.0	1.2	3.7
3	0.7	0.3	0.3	0.1	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.5	0.9	0.9	0.1	-7777	0.0	1.9	0.5	0.2	0.0	0.0	0.1	3.3
Summary	7.6	3.7	3.5	0.8	0.5	0.0	6.9	2.7	1.1	0.0	0.0	2.4	13.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **PORTAGEVILLE, MO US**

GHCND:USC00236804
Elev: 280 ft. Lat: 36.414° N Lon: 89.700° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	66	114	313	576	888	1110	1241	1193	939	636	309	102
45	29	57	201	432	733	960	1086	1038	789	484	199	49
50	11	23	114	299	578	810	931	883	639	341	113	20
55	4	8	57	184	425	660	776	728	491	215	55	7
60	1	2	23	96	282	510	621	573	348	116	21	2
Growing Degree Units for Corn (Monthly)												
50/86	35	61	169	336	577	768	863	825	627	386	164	50

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	66	180	493	1069	1957	3067	4308	5501	6440	7076	7385	7487
45	29	86	287	719	1452	2412	3498	4536	5325	5809	6008	6057
50	11	34	148	447	1025	1835	2766	3649	4288	4629	4742	4762
55	4	12	69	253	678	1338	2114	2842	3333	3548	3603	3610
60	1	3	26	122	404	914	1535	2108	2456	2572	2593	2595
Growing Degree Units for Corn (Monthly)												
50/86	35	96	265	601	1178	1946	2809	3634	4261	4647	4811	4861

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

M indicates the value is missing

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: LAKE WAPPAPELLO STATE PARK, MO US

GHCND:USC00234660
 Elev: 582 ft. Lat: 36.938° N Lon: 90.322° W

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	.25	.50	.75
1	3.35	@	@	@	@			
2	3.01	@	@	@	@			
3	5.57	@	@	@	@			
4	4.55	@	@	@	@			
5	4.64	@	@	@	@			
6	3.59	@	@	@	@			
7	3.62	@	@	@	@			
8	2.83	@	@	@	@			
9	3.40	@	@	@	@			
10	4.13	@	@	@	@			
11	4.82	@	@	@	@			
12	4.44	@	@	@	@			
Summary	47.95	0.0	0.0	0.0	0.0			

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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ELSBERRY 1 S, MO US**

GHCND:USC00232591
 Elev: 450 ft. Lat: 39.151° N Lon: 90.785° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.2	20.6	30.4	5.8	5.2	5.2	1	-7777	-7777	0	0	0	763	825	918	1072	0.0	0.0	7.1	8.1	25.7	2.0
2	45.8	24.9	35.4	5.6	4.6	4.9	3	2	1	-7777	0	0	553	608	691	830	0.0	0.0	10.1	4.1	20.5	0.8
3	57.2	33.2	45.2	4.6	3.2	3.6	39	28	16	5	1	-7777	343	394	475	618	0.0	0.0	21.4	0.7	14.5	0.0
4	69.4	43.3	56.3	3.9	3.3	3.4	141	111	74	31	9	5	101	131	184	291	0.0	0.4	28.6	0.0	4.3	0.0
5	77.5	53.0	65.2	3.3	3.7	3.2	328	274	200	102	38	22	10	18	37	94	0.0	0.9	31.0	0.0	0.2	0.0
6	85.9	62.4	74.1	2.5	2.3	2.1	574	515	426	282	154	112	-7777	-7777	1	7	0.1	8.1	30.0	0.0	0.0	0.0
7	89.4	66.3	77.8	2.7	2.3	2.1	708	646	553	398	248	192	0	0	-7777	-7777	0.9	14.5	31.0	0.0	0.0	0.0
8	87.9	64.5	76.2	3.3	3.2	2.9	657	595	502	349	207	157	-7777	-7777	-7777	2	0.9	11.3	31.0	0.0	0.0	0.0
9	80.6	55.9	68.2	3.2	2.7	2.5	405	349	269	153	70	47	7	12	22	56	0.1	3.5	30.0	0.0	0.2	0.0
10	69.2	44.8	57.0	3.2	2.7	2.5	146	112	71	26	6	3	84	112	164	274	0.0	0.1	30.2	0.0	3.2	0.0
11	56.4	35.2	45.8	5.3	3.3	3.9	35	24	12	2	-7777	-7777	311	360	438	578	0.0	0.0	20.2	0.5	11.6	-7777
12	42.1	24.0	33.1	6.1	5.8	5.7	3	2	1	-7777	0	0	683	744	836	990	0.0	0.0	7.9	6.2	23.1	1.2
Summary	66.8	44.0	55.4	4.1	3.5	3.5	3040	2658	2125	1348	733	538	2855	3204	3766	4812	2.0	38.8	278.5	19.6	103.3	4.0

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ELSBERRY 1 S, MO US**

GHCND:USC00232591
Elev: 450 ft. Lat: 39.151° N Lon: 90.785° W

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	.25	.50	.75
1	2.24	7.8	4.5	1.3	0.6	0.80	2.09	3.09
2	2.18	8.2	4.6	1.4	0.5	1.24	1.98	2.82
3	3.24	9.7	6.3	2.2	0.8	2.66	3.03	4.05
4	3.80	10.5	7.0	2.7	1.0	2.34	3.34	4.98
5	4.73	12.1	8.2	3.1	1.2	2.58	3.69	6.04
6	3.89	9.4	6.7	2.5	1.0	2.02	3.58	4.68
7	3.97	8.2	6.2	2.7	1.2	1.69	3.78	5.61
8	3.23	7.5	4.8	2.3	1.1	1.55	3.32	4.50
9	3.43	7.6	5.4	2.1	0.9	1.62	2.57	4.36
10	3.21	8.6	6.0	2.2	0.7	2.19	2.70	3.94
11	3.79	8.4	6.0	2.8	1.1	2.35	3.81	4.87
12	3.06	8.8	5.6	2.1	0.8	1.83	2.63	3.78
Summary	40.77	106.8	71.3	27.4	10.9	22.87	36.52	52.72

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ELSBERRY 1 S, MO US**

GHCND:USC00232591
Elev: 450 ft. Lat: 39.151° N Lon: 90.785° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.6	3.3	1.8	0.6	0.1	0.0	4.6	2.5	1.0	0.5	0.5	3.9	5.9
2	3.9	3.1	1.5	0.6	0.2	0.0	2.6	0.8	0.2	0.0	1.1	2.7	7.0
3	2.7	1.3	0.8	0.3	0.1	-7777	0.4	0.2	0.1	0.0	0.0	0.3	5.7
4	0.4	0.3	0.2	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.7	0.4	0.3	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.5
12	4.3	2.6	1.4	0.6	0.3	0.0	2.9	1.9	1.2	0.0	0.3	3.1	7.8
Summary	16.6	11.0	6.0	2.2	0.7	0.0	10.7	5.5	2.5	0.5	1.9	10.0	26.9

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ELSBERRY 1 S, MO US**

GHCND:USC00232591
Elev: 450 ft. Lat: 39.151° N Lon: 90.785° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	36	69	227	494	783	1024	1173	1122	847	529	230	52
45	14	32	138	358	628	874	1018	967	698	382	142	23
50	5	12	78	237	474	724	863	812	549	251	77	9
55	1	3	39	141	328	574	708	657	405	146	35	3
60	-7777	1	16	74	200	426	553	502	269	71	12	1
Growing Degree Units for Corn (Monthly)												
50/86	27	52	154	317	502	690	795	758	553	327	139	32

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	36	105	332	826	1609	2633	3806	4928	5775	6304	6534	6586
45	14	46	184	542	1170	2044	3062	4029	4727	5109	5251	5274
50	5	17	95	332	806	1530	2393	3205	3754	4005	4082	4091
55	1	4	43	184	512	1086	1794	2451	2856	3002	3037	3040
60	0	1	17	91	291	717	1270	1772	2041	2112	2124	2125
Growing Degree Units for Corn (Monthly)												
50/86	27	79	233	550	1052	1742	2537	3295	3848	4175	4314	4346

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SELIGMAN, MO US**

GHCND:USC00237645
Elev: 1530 ft. Lat: 36.542° N Lon: 93.937° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.3	22.0	33.1	4.7	4.0	4.1	3	2	1	-7777	-7777	0	681	741	833	987	0.0	0.0	11.0	5.4	26.1	1.1
2	49.2	25.7	37.4	4.9	4.4	4.5	7	4	2	-7777	-7777	0	498	551	633	772	0.0	0.0	14.2	2.8	20.6	0.4
3	57.8	32.7	45.2	4.4	3.4	3.7	28	18	8	1	-7777	-7777	330	383	466	613	0.0	0.0	23.0	0.8	15.5	-7777
4	67.5	41.6	54.6	3.4	3.7	3.4	110	84	52	18	3	1	124	157	215	331	0.0	-7777	28.4	0.0	4.9	0.0
5	75.2	51.3	63.2	2.5	3.4	2.7	271	220	151	64	14	6	15	26	51	119	0.0	-7777	31.0	0.0	0.1	0.0
6	82.5	59.3	70.9	2.7	2.6	2.3	477	418	330	195	81	47	-7777	1	4	18	0.0	1.9	30.0	0.0	0.0	0.0
7	87.4	63.9	75.7	2.3	2.3	1.9	640	578	485	332	188	136	0	0	-7777	2	0.2	9.9	31.0	0.0	0.0	0.0
8	88.1	62.8	75.5	3.6	3.0	3.1	634	572	479	327	187	138	0	-7777	-7777	3	0.6	12.0	31.0	0.0	0.0	0.0
9	80.4	54.3	67.3	3.2	3.0	2.7	382	327	249	136	57	36	11	17	28	66	0.1	2.9	30.0	0.0	0.2	0.0
10	69.6	43.5	56.6	2.4	2.3	2.0	138	104	63	20	4	2	90	118	170	282	0.0	0.0	30.0	0.0	3.9	0.0
11	57.6	33.6	45.6	4.4	3.6	3.7	28	19	9	1	-7777	0	310	361	441	583	0.0	0.0	21.7	0.3	14.5	0.0
12	46.1	23.6	34.8	5.0	5.4	5.0	3	2	-7777	-7777	0	0	628	688	780	934	0.0	0.0	12.6	3.9	24.5	0.7
Summary	67.1	42.9	55.0	3.6	3.4	3.3	2721	2348	1829	1094	534	366	2687	3043	3621	4710	0.9	26.7	293.9	13.2	110.3	2.2

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SELIGMAN, MO US**

GHCND:USC00237645
Elev: 1530 ft. Lat: 36.542° N Lon: 93.937° W

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	.25	.50	.75
1	2.56	4.9	4.3	1.9	0.8	1.25	2.47	3.51
2	2.67	6.6	5.2	1.9	0.6	1.40	2.35	3.81
3	4.03	8.3	6.5	3.1	1.3	2.43	3.77	5.52
4	4.20	8.5	6.1	3.0	1.3	2.48	3.81	5.64
5	5.47	10.6	7.6	4.2	1.6	4.07	5.08	6.26
6	5.00	9.7	6.9	3.5	1.7	3.11	4.12	5.88
7	3.26	7.5	5.8	2.6	0.9	2.29	3.00	4.52
8	3.59	6.9	5.2	2.4	1.0	1.67	2.91	4.41
9	5.06	7.0	5.2	2.5	1.3	2.76	4.41	6.68
10	4.03	8.6	6.0	2.8	1.1	2.54	3.60	4.87
11	4.14	7.7	6.0	2.9	1.3	2.11	4.13	5.29
12	3.36	5.7	4.5	2.2	1.0	1.80	2.59	4.97
Summary	47.37	92.0	69.3	33.0	13.9	27.91	42.24	61.36

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1981-2010**

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SELIGMAN, MO US**

GHCND:USC00237645
Elev: 1530 ft. Lat: 36.542° N Lon: 93.937° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.9	1.6	1.2	0.3	0.2	0.0	3.2	1.8	0.7	0.0	0.0	1.1	6.4
2	3.5	1.9	1.4	0.5	0.1	0.0	3.3	2.1	1.3	0.0	0.0	4.0	8.0
3	1.2	0.4	0.4	0.2	-7777	-7777	0.8	0.4	0.2	0.1	0.0	0.0	1.5
4	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
12	2.9	1.2	0.8	0.4	0.2	0.0	1.7	0.8	0.5	0.1	0.0	0.0	5.0
Summary	10.9	5.3	4.0	1.4	0.5	0.0	9.2	5.1	2.7	0.2	0.0	5.1	20.9

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SELIGMAN, MO US**

GHCND:USC00237645
Elev: 1530 ft. Lat: 36.542° N Lon: 93.937° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	61	93	227	445	721	927	1105	1098	820	517	227	67
45	28	48	133	312	566	777	950	944	671	373	137	30
50	11	20	68	199	414	627	795	789	524	244	69	11
55	3	7	28	110	271	477	640	634	382	138	28	3
60	1	2	8	52	151	330	485	479	249	63	9	-7777
Growing Degree Units for Corn (Monthly)												
50/86	47	72	158	286	453	620	751	733	535	330	151	51

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	61	154	381	826	1547	2474	3579	4677	5497	6014	6241	6308
45	28	76	209	521	1087	1864	2814	3758	4429	4802	4939	4969
50	11	31	99	298	712	1339	2134	2923	3447	3691	3760	3771
55	3	10	38	148	419	896	1536	2170	2552	2690	2718	2721
60	1	3	11	63	214	544	1029	1508	1757	1820	1829	1829
Growing Degree Units for Corn (Monthly)												
50/86	47	119	277	563	1016	1636	2387	3120	3655	3985	4136	4187

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **VERSAILLES, MO US**

GHCND:USC00238603
 Elev: 1005 ft. Lat: 38.432° N Lon: 92.840° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.3	18.1	29.2	5.5	4.7	4.8	1	-7777	-7777	0	0	0	800	862	955	1110	0.0	0.0	7.5	8.2	27.8	2.2
2	45.8	21.7	33.8	5.4	5.0	5.0	3	2	1	-7777	0	0	598	652	735	875	0.0	0.0	10.8	4.5	23.5	1.3
3	56.6	31.3	44.0	4.4	3.2	3.5	29	19	10	2	-7777	-7777	372	424	507	655	0.0	0.0	21.4	0.8	17.2	-7777
4	66.8	41.9	54.4	4.0	3.2	3.5	109	84	53	19	4	2	129	163	222	339	0.0	-7777	27.7	0.0	5.1	0.0
5	74.9	52.0	63.5	2.8	3.4	2.9	276	224	154	67	19	9	14	24	47	116	0.0	0.1	31.0	0.0	0.3	0.0
6	82.1	61.3	71.7	2.8	2.6	2.5	501	442	353	216	100	64	-7777	1	2	15	0.0	2.0	30.0	0.0	0.0	0.0
7	87.0	66.0	76.5	2.6	2.3	2.2	666	604	511	357	210	156	0	0	-7777	1	0.5	9.0	31.0	0.0	0.0	0.0
8	86.6	64.3	75.4	3.9	3.0	3.3	634	572	479	327	189	142	-7777	-7777	-7777	3	0.9	9.8	31.0	0.0	0.0	0.0
9	78.6	54.8	66.7	3.0	2.9	2.6	362	309	233	126	53	34	11	18	32	75	-7777	1.8	29.9	0.0	0.1	0.0
10	67.9	43.4	55.7	3.2	2.5	2.6	123	92	54	17	3	1	103	134	189	307	0.0	-7777	29.7	0.0	3.8	0.0
11	55.4	32.2	43.8	4.8	3.8	3.9	24	16	8	1	-7777	-7777	360	412	494	637	0.0	0.0	20.1	0.8	15.7	-7777
12	42.7	21.3	32.0	5.7	5.2	5.2	2	1	-7777	0	0	0	714	776	868	1023	0.0	0.0	9.0	6.1	26.3	1.7
Summary	65.4	42.4	53.9	4.0	3.5	3.5	2730	2365	1856	1132	578	408	3101	3466	4051	5156	1.4	22.7	279.1	20.4	119.8	5.2

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **VERSAILLES, MO US**

GHCND:USC00238603
Elev: 1005 ft. Lat: 38.432° N Lon: 92.840° W

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	.25	.50	.75
1	1.93	4.6	3.7	1.1	0.5	0.76	1.69	2.71
2	2.39	5.2	4.1	1.3	0.6	1.09	2.07	3.32
3	3.18	7.8	6.2	2.2	0.7	1.70	2.80	3.92
4	4.28	8.6	6.8	2.8	1.1	3.18	3.81	4.83
5	5.48	10.2	7.8	3.8	1.6	3.43	4.90	6.52
6	4.89	9.1	7.4	3.1	1.3	3.03	4.28	6.08
7	4.47	7.0	5.8	3.0	1.4	1.93	3.51	5.98
8	3.59	6.6	5.3	2.4	1.2	1.88	2.85	5.24
9	4.30	7.3	5.7	2.9	1.3	2.14	3.29	5.46
10	4.13	8.1	6.0	2.7	1.2	1.98	3.07	5.54
11	3.64	7.7	6.0	2.5	1.1	2.18	2.60	4.66
12	2.44	5.2	4.2	2.0	0.8	1.03	2.14	3.10
Summary	44.72	87.4	69.0	29.8	12.8	24.33	37.01	57.36

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **VERSAILLES, MO US**

GHCND:USC00238603
Elev: 1005 ft. Lat: 38.432° N Lon: 92.840° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	29	59	203	440	727	951	1131	1098	801	490	191	42
45	10	25	121	309	572	801	976	944	651	347	111	17
50	3	10	65	195	420	651	821	789	504	223	56	6
55	1	3	29	109	276	501	666	634	362	123	24	2
60	-7777	1	10	53	154	353	511	479	233	54	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	27	53	148	278	455	642	779	741	518	301	125	34

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	29	88	291	731	1458	2409	3540	4638	5439	5929	6120	6162
45	10	35	156	465	1037	1838	2814	3758	4409	4756	4867	4884
50	3	13	78	273	693	1344	2165	2954	3458	3681	3737	3743
55	1	4	33	142	418	919	1585	2219	2581	2704	2728	2730
60	0	1	11	64	218	571	1082	1561	1794	1848	1856	1856
Growing Degree Units for Corn (Monthly)												
50/86	27	80	228	506	961	1603	2382	3123	3641	3942	4067	4101

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

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **AMITY 4 NE, MO US**

GHCND:USC00230143
Elev: 974 ft. Lat: 39.891° N Lon: 94.360° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.9	16.4	25.6	5.5	5.4	5.3	-7777	0	0	0	0	0	910	972	1065	1220	0.0	0.0	3.9	12.1	28.5	3.4
2	40.2	20.2	30.2	6.3	5.6	5.8	1	1	-7777	-7777	0	0	696	751	835	974	0.0	0.0	7.1	7.8	23.4	2.0
3	52.3	30.4	41.3	4.7	3.5	3.9	20	14	7	2	-7777	-7777	444	499	585	735	0.0	0.0	17.9	1.9	17.5	0.1
4	63.5	41.3	52.4	4.3	3.1	3.6	89	67	42	15	3	1	167	205	270	393	0.0	-7777	25.9	0.0	5.0	0.0
5	73.0	52.4	62.7	3.0	3.3	3.0	263	214	147	65	20	11	24	37	64	136	0.0	0.3	30.9	0.0	0.2	0.0
6	82.1	62.0	72.1	2.8	2.3	2.4	512	452	364	226	111	76	-7777	1	3	15	0.0	2.9	30.0	0.0	0.0	0.0
7	86.5	66.6	76.5	2.7	2.0	2.1	668	606	513	359	213	161	0	-7777	-7777	1	0.3	8.9	31.0	0.0	0.0	0.0
8	85.5	64.5	75.0	4.0	2.9	3.3	620	558	466	315	181	136	-7777	-7777	1	5	0.7	9.2	31.0	0.0	0.0	0.0
9	77.4	54.9	66.1	3.3	2.6	2.7	349	297	224	122	53	35	15	22	39	88	0.0	2.0	29.9	0.0	0.2	0.0
10	65.5	43.3	54.4	3.0	2.7	2.5	107	80	48	16	4	2	126	160	221	345	0.0	-7777	28.4	-7777	3.6	0.0
11	51.4	31.6	41.5	5.4	4.1	4.5	17	11	5	-7777	0	0	422	476	560	706	0.0	0.0	16.5	1.8	15.5	0.1
12	37.5	20.0	28.7	6.4	6.1	6.1	1	-7777	-7777	0	0	0	814	876	969	1124	0.0	0.0	4.8	9.8	27.3	1.9
Summary	62.5	42.0	52.2	4.3	3.6	3.8	2647	2300	1816	1120	585	422	3618	3999	4612	5742	1.0	23.3	257.3	33.4	121.2	7.5

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**Summary of
Monthly Normals
1981-2010**

GHCND:USC00230143

Elev: 974 ft. Lat: 39.891° N Lon: 94.360° W

Station: **AMITY 4 NE, MO US**

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	.25	.50	.75
1	0.83	4.0	2.8	0.4	-7777	0.34	0.82	1.22
2	1.28	4.9	3.5	0.6	0.2	0.43	0.91	1.65
3	2.32	6.7	5.0	1.5	0.4	1.20	2.01	3.56
4	3.57	8.8	6.8	2.5	0.9	2.05	3.75	4.89
5	5.28	10.0	7.9	3.2	1.6	3.28	3.91	7.56
6	5.19	9.4	7.4	3.6	1.7	3.55	4.85	6.03
7	4.55	8.1	6.3	3.2	1.5	2.45	3.79	5.50
8	4.31	7.0	5.7	2.7	1.5	2.57	3.37	6.14
9	4.19	6.7	5.4	2.7	1.5	2.35	3.63	4.63
10	3.17	7.3	5.6	2.3	0.8	1.74	3.14	4.43
11	1.87	5.6	3.8	1.5	0.4	1.38	1.79	2.38
12	1.56	4.7	3.5	1.1	0.3	0.65	1.46	2.13
Summary	38.12	83.2	63.7	25.3	10.8	21.99	33.43	50.12

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **AMITY 4 NE, MO US**

GHCND:USC00230143
Elev: 974 ft. Lat: 39.891° N Lon: 94.360° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.7	2.4	1.9	0.6	0.2	0.0	@	@	@	@	0.6	3.9	7.2
2	5.5	2.7	2.2	0.8	0.2	0.0	@	@	@	@	1.0	3.5	9.0
3	1.7	1.2	0.9	0.3	0.1	-7777	@	@	@	@	0.0	1.5	3.5
4	0.2	0.2	0.2	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	-7777	-7777	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.9	0.6	0.4	0.1	0.0	0.0	@	@	@	@	0.0	0.0	1.0
12	6.0	2.5	2.1	0.7	0.2	0.0	@	@	@	@	0.0	4.5	8.0
Summary	19.1	9.6	7.7	2.6	0.7	0.0	0.0	0.0	0.0	0.0	1.6	13.4	28.7

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **AMITY 4 NE, MO US**

GHCND:USC00230143
 Elev: 974 ft. Lat: 39.891° N Lon: 94.360° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	35	159	387	704	961	1133	1085	785	454	155	23
45	4	14	90	263	549	811	978	930	635	317	88	8
50	1	5	46	161	399	661	823	775	488	199	42	3
55	-7777	1	20	89	263	512	668	620	349	107	17	1
60	0	-7777	7	42	147	364	513	466	224	48	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	11	28	107	231	426	648	779	733	502	268	91	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	48	207	594	1298	2259	3392	4477	5262	5716	5871	5894
45	4	18	108	371	920	1731	2709	3639	4274	4591	4679	4687
50	1	6	52	213	612	1273	2096	2871	3359	3558	3600	3603
55	0	1	21	110	373	885	1553	2173	2522	2629	2646	2647
60	0	0	7	49	196	560	1073	1539	1763	1811	1816	1816
Growing Degree Units for Corn (Monthly)												
50/86	11	39	146	377	803	1451	2230	2963	3465	3733	3824	3839

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
 -7777: a non-zero value that would round to zero
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MARBLE HILL, MO US**

GHCND:USC00235253
Elev: 390 ft. Lat: 37.304° N Lon: 89.966° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.9	23.8	33.8	4.7	4.4	4.3	3	2	-7777	-7777	0	0	658	719	811	966	0.0	0.0	9.3	4.6	23.8	0.8
2	49.4	27.6	38.5	4.5	4.1	4.0	6	3	1	-7777	0	0	467	521	603	742	0.0	0.0	13.8	2.0	18.6	0.4
3	59.7	35.5	47.6	3.9	3.0	3.2	42	30	16	4	-7777	-7777	271	321	401	544	0.0	0.0	24.6	0.2	12.3	0.0
4	69.9	44.9	57.4	3.5	3.2	3.1	148	114	73	27	5	2	76	102	151	255	0.0	0.0	29.2	0.0	3.5	0.0
5	77.3	53.9	65.6	2.5	3.4	2.6	335	279	202	100	31	16	6	12	29	81	0.0	0.1	31.0	0.0	0.2	0.0
6	85.1	62.5	73.8	2.6	2.5	2.3	564	504	415	271	143	100	-7777	-7777	1	7	0.1	5.6	30.0	0.0	0.0	0.0
7	88.4	66.4	77.4	2.3	2.0	1.9	694	632	539	384	233	177	0	0	-7777	-7777	0.2	12.2	31.0	0.0	0.0	0.0
8	88.2	64.8	76.5	3.3	2.6	2.8	666	604	512	358	213	161	-7777	-7777	-7777	2	0.5	11.4	31.0	0.0	0.0	0.0
9	81.3	56.3	68.8	3.1	2.5	2.5	419	362	281	161	72	46	5	8	17	47	0.0	3.2	30.0	0.0	0.1	0.0
10	71.2	44.9	58.0	2.8	3.2	2.4	161	124	78	29	7	3	67	91	139	244	0.0	0.1	30.7	0.0	3.7	0.0
11	58.2	36.2	47.2	4.4	2.9	3.2	36	24	12	2	-7777	-7777	270	318	396	536	0.0	0.0	22.7	0.1	11.6	0.0
12	46.1	26.7	36.4	5.0	5.0	4.9	6	4	1	-7777	0	0	582	642	733	887	0.0	0.0	11.9	3.2	21.0	0.5
Summary	68.2	45.3	56.8	3.6	3.2	3.1	3080	2682	2130	1336	704	505	2402	2734	3281	4311	0.8	32.6	295.2	10.1	94.8	1.7

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MARBLE HILL, MO US**

GHCND:USC00235253
Elev: 390 ft. Lat: 37.304° N Lon: 89.966° W

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	.25	.50	.75
1	3.24	7.0	5.2	2.0	1.0	1.55	3.08	4.29
2	3.44	7.4	5.7	2.6	1.0	2.02	3.04	4.13
3	4.75	9.2	7.0	2.9	1.3	2.83	3.70	6.15
4	4.72	9.0	7.3	3.1	1.4	2.65	3.93	5.85
5	5.20	10.0	8.2	3.4	1.6	3.36	4.76	6.87
6	4.10	7.7	6.6	2.8	1.2	2.45	3.94	6.00
7	4.33	7.1	5.7	3.1	1.5	2.43	3.56	5.76
8	3.64	6.6	5.4	2.7	1.0	2.38	3.42	4.96
9	3.51	6.0	4.9	2.2	1.2	2.04	2.83	4.96
10	4.19	7.5	6.1	3.0	1.2	2.60	3.76	4.83
11	4.87	8.7	6.8	3.2	1.5	2.39	4.69	6.10
12	4.42	8.7	6.6	3.0	1.1	2.52	3.51	6.17
Summary	50.41	94.9	75.5	34.0	15.0	29.22	44.22	66.07

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 Monthly Normals
 1981-2010**

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **MARBLE HILL, MO US**

GHCND:USC00235253
 Elev: 390 ft. Lat: 37.304° N Lon: 89.966° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.1	1.6	1.2	0.5	0.3	0.0	@	@	@	@	0.2	3.0	4.5
2	5.1	1.7	1.3	0.4	0.2	-7777	@	@	@	@	0.1	2.9	6.0
3	0.8	0.3	0.3	0.1	0.1	-7777	@	@	@	@	0.0	0.0	0.7
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	1.9	0.9	0.8	0.4	0.2	0.0	@	@	@	@	0.0	0.0	1.5
Summary	12.1	4.6	3.7	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.3	5.9	12.7

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National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MARBLE HILL, MO US**

GHCND:USC00235253
Elev: 390 ft. Lat: 37.304° N Lon: 89.966° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	54	94	275	524	794	1014	1159	1131	864	561	254	79
45	24	44	169	382	639	864	1004	976	714	412	157	37
50	10	18	90	254	484	714	849	821	565	275	83	16
55	3	6	42	148	335	564	694	666	419	161	36	6
60	-7777	1	16	73	202	415	539	512	281	78	12	1
Growing Degree Units for Corn (Monthly)												
50/86	35	64	180	335	515	691	797	768	570	363	155	44

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	54	148	423	947	1741	2755	3914	5045	5909	6470	6724	6803
45	24	68	237	619	1258	2122	3126	4102	4816	5228	5385	5422
50	10	28	118	372	856	1570	2419	3240	3805	4080	4163	4179
55	3	9	51	199	534	1098	1792	2458	2877	3038	3074	3080
60	0	1	17	90	292	707	1246	1758	2039	2117	2129	2130
Growing Degree Units for Corn (Monthly)												
50/86	35	99	279	614	1129	1820	2617	3385	3955	4318	4473	4517

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SHELBINA, MO US**

GHCND:USC00237720
Elev: 747 ft. Lat: 39.683° N Lon: 92.047° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	35.1	16.7	25.9	5.6	5.0	5.2	-7777	-7777	0	0	0	0	902	964	1057	1212	0.0	0.0	3.8	12.4	28.4	3.4
2	40.3	19.8	30.0	5.7	5.6	5.6	1	1	-7777	0	0	0	700	755	838	978	0.0	0.0	6.8	8.3	24.6	2.0
3	51.7	30.1	40.9	4.5	3.6	3.8	19	13	6	1	0	0	456	512	598	748	0.0	0.0	17.0	1.8	18.6	-7777
4	63.7	40.6	52.1	4.4	2.7	3.3	79	58	35	11	2	1	165	204	270	397	0.0	0.0	26.2	0.0	6.3	0.0
5	72.8	52.0	62.4	3.6	3.8	3.5	255	206	143	65	21	12	25	39	68	145	0.0	0.3	31.0	0.0	0.2	0.0
6	81.9	61.4	71.7	2.6	2.3	2.3	500	441	354	218	105	70	1	1	4	19	-7777	2.3	30.0	0.0	0.0	0.0
7	86.2	66.1	76.1	2.6	2.4	2.3	655	593	500	346	201	150	0	-7777	-7777	1	0.1	7.7	31.0	0.0	0.0	0.0
8	85.3	63.3	74.3	3.3	2.9	2.9	598	536	444	294	162	119	-7777	-7777	1	6	0.4	7.6	31.0	0.0	0.0	0.0
9	77.3	53.7	65.5	3.4	2.4	2.5	330	278	205	106	44	27	15	23	40	91	0.0	1.2	30.0	0.0	0.2	0.0
10	65.9	42.1	54.0	2.9	2.3	2.2	102	75	44	13	3	2	133	168	230	354	0.0	-7777	28.5	0.0	5.1	0.0
11	51.9	31.3	41.6	5.6	3.7	4.2	16	10	4	-7777	-7777	0	418	472	556	702	0.0	0.0	16.6	1.6	16.8	-7777
12	38.1	20.6	29.4	5.9	5.9	5.8	1	-7777	-7777	0	0	0	796	857	950	1105	0.0	0.0	5.4	9.5	25.6	2.4
Summary	62.5	41.5	52.0	4.2	3.6	3.6	2556	2211	1735	1054	538	381	3611	3995	4612	5758	0.5	19.1	257.3	33.6	125.8	7.8

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SHELBINA, MO US**

GHCND:USC00237720
Elev: 747 ft. Lat: 39.683° N Lon: 92.047° W

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	.25	.50	.75
1	1.91	5.0	3.3	1.0	0.4	0.63	1.77	2.51
2	2.20	5.4	3.4	1.3	0.5	1.21	2.04	2.73
3	2.74	8.8	6.1	1.7	0.6	1.76	2.56	3.41
4	3.87	9.1	7.0	2.9	1.0	2.10	3.67	5.40
5	5.28	10.8	8.3	3.4	1.5	3.31	4.52	6.00
6	4.53	8.8	6.9	2.9	1.3	2.47	4.45	6.34
7	4.43	8.0	6.4	2.7	1.3	1.83	4.07	5.63
8	3.98	7.5	6.3	2.7	1.2	2.16	3.59	5.53
9	4.08	6.8	5.5	2.7	1.2	1.82	2.74	4.52
10	3.08	7.2	5.5	2.2	1.0	1.61	2.77	4.15
11	3.29	7.4	5.9	2.5	1.0	1.65	3.32	4.50
12	2.26	6.8	4.6	1.6	0.5	1.19	2.27	2.78
Summary	41.65	91.6	69.2	27.6	11.5	21.74	37.77	53.50

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Monthly Normals
1981-2010**

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www.ncdc.noaa.gov

Station: **SHELBINA, MO US**

GHCND:USC00237720
Elev: 747 ft. Lat: 39.683° N Lon: 92.047° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.2	2.6	1.6	0.7	0.3	0.0	7.8	3.1	1.7	0.4	0.0	1.0	6.7
2	3.5	2.6	1.6	0.5	0.1	0.0	7.0	3.6	1.6	0.3	0.0	1.5	6.4
3	1.5	0.8	0.5	0.1	0.1	0.0	1.1	0.6	0.2	-7777	0.0	0.2	2.0
4	0.2	0.1	0.1	-7777	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.4	0.3	0.1	-7777	0.0	0.4	0.1	0.1	0.0	0.0	0.0	0.3
12	4.2	2.4	1.3	0.4	0.2	0.0	6.9	3.2	1.7	-7777	0.8	2.5	7.8
Summary	14.2	8.9	5.4	1.8	0.7	0.0	23.3	10.6	5.3	0.7	0.8	5.2	23.2

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National Oceanic & Atmospheric Administration
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SHELBINA, MO US**

GHCND:USC00237720
Elev: 747 ft. Lat: 39.683° N Lon: 92.047° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	35	148	376	694	949	1120	1063	765	440	152	30
45	4	15	85	251	540	799	965	908	616	303	85	11
50	1	5	44	151	391	649	810	753	470	188	40	3
55	-7777	1	19	79	255	500	655	598	330	102	16	1
60	0	-7777	6	35	143	354	500	444	205	44	4	-7777
Growing Degree Units for Corn (Monthly)												
50/86	11	28	98	229	423	639	774	718	489	269	93	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	49	197	573	1267	2216	3336	4399	5164	5604	5756	5786
45	4	19	104	355	895	1694	2659	3567	4183	4486	4571	4582
50	1	6	50	201	592	1241	2051	2804	3274	3462	3502	3505
55	0	1	20	99	354	854	1509	2107	2437	2539	2555	2556
60	0	0	6	41	184	538	1038	1482	1687	1731	1735	1735
Growing Degree Units for Corn (Monthly)												
50/86	11	39	137	366	789	1428	2202	2920	3409	3678	3771	3788

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

M indicates the value is missing

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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **BELLEVIEW 4 SE, MO US**

GHCND:USC00230542

Elev: 1283 ft. Lat: 37.646° N Lon: 90.694° W

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	.25	.50	.75
1	2.53	@	@	@	@			
2	3.28	@	@	@	@			
3	3.98	@	@	@	@			
4	4.30	@	@	@	@			
5	5.46	@	@	@	@			
6	3.71	@	@	@	@			
7	2.92	@	@	@	@			
8	3.34	@	@	@	@			
9	4.35	@	@	@	@			
10	3.41	@	@	@	@			
11	4.44	@	@	@	@			
12	3.55	@	@	@	@			
Summary	45.27	0.0	0.0	0.0	0.0			

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FREDERICKTOWN, MO US**

GHCND:USC00233038
Elev: 719 ft. Lat: 37.574° N Lon: 90.309° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.9	21.0	31.5	4.6	4.6	4.4	3	2	1	-7777	0	0	733	794	885	1040	0.0	0.0	8.2	6.4	26.0	1.5
2	47.2	24.1	35.7	4.6	4.6	4.4	4	3	1	-7777	0	0	546	600	683	822	0.0	0.0	11.4	3.3	21.5	0.8
3	57.2	33.0	45.1	4.0	3.1	3.3	34	25	14	4	-7777	-7777	341	393	476	621	0.0	0.0	21.6	0.5	15.2	0.0
4	68.3	42.3	55.3	4.0	3.0	3.3	126	98	62	23	5	2	117	149	203	314	0.0	0.2	28.3	0.0	5.2	0.0
5	76.3	51.8	64.1	2.9	3.3	2.8	296	244	174	82	24	12	15	25	49	112	0.0	0.3	31.0	0.0	0.5	0.0
6	84.5	60.4	72.5	2.9	2.5	2.4	524	465	377	238	122	84	-7777	1	3	15	-7777	6.1	30.0	0.0	0.0	0.0
7	88.6	64.7	76.7	2.3	2.0	1.8	671	609	516	362	216	163	0	-7777	-7777	1	0.3	13.6	31.0	0.0	0.0	0.0
8	87.9	62.8	75.3	3.4	2.9	2.9	631	569	476	325	187	139	-7777	-7777	1	4	0.9	11.1	31.0	0.0	0.0	0.0
9	80.3	53.8	67.0	2.7	2.7	2.4	373	319	242	135	58	37	11	17	31	73	0.0	2.8	30.0	0.0	0.2	0.0
10	69.0	42.0	55.5	2.8	3.6	2.5	122	91	55	18	4	2	107	138	194	312	0.0	0.1	30.1	0.0	6.2	0.0
11	57.1	34.2	45.6	4.5	3.0	3.4	31	20	9	1	-7777	-7777	311	361	440	582	0.0	0.0	21.2	0.1	13.5	0.0
12	44.3	23.9	34.1	5.2	5.1	4.9	4	2	1	-7777	0	0	652	712	803	958	0.0	0.0	9.9	4.5	23.5	0.8
Summary	66.9	42.8	54.9	3.7	3.4	3.2	2819	2447	1928	1188	616	439	2833	3190	3768	4854	1.2	34.2	283.7	14.8	111.8	3.1

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FREDERICKTOWN, MO US**

GHCND:USC00233038
Elev: 719 ft. Lat: 37.574° N Lon: 90.309° W

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	.25	.50	.75
1	2.75	7.1	5.0	1.8	0.7	1.13	2.49	3.70
2	2.76	7.4	5.2	1.9	0.7	1.75	2.61	3.61
3	3.68	8.8	6.7	2.6	0.9	2.45	3.31	4.48
4	4.41	9.3	7.1	2.9	1.3	2.52	3.40	4.98
5	5.50	10.6	7.9	3.8	1.5	3.61	4.63	6.71
6	3.65	7.5	5.5	2.6	1.1	2.38	3.21	4.54
7	3.82	8.0	5.8	2.9	1.2	2.48	3.46	5.22
8	3.49	6.5	5.2	2.4	1.0	1.73	2.88	4.35
9	3.55	6.3	4.8	2.2	1.1	1.79	3.48	5.08
10	3.62	7.7	5.6	2.4	0.9	2.10	3.05	4.49
11	4.71	8.2	6.1	3.1	1.5	2.05	3.83	6.94
12	3.83	8.8	5.8	2.7	0.8	2.46	2.97	4.41
Summary	45.77	96.2	70.7	31.3	12.7	26.45	39.32	58.51

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **FREDERICKTOWN, MO US**

GHCND:USC00233038
 Elev: 719 ft. Lat: 37.574° N Lon: 90.309° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.9	1.6	1.3	0.5	0.2	0.0	6.2	3.4	1.1	0.0	0.2	3.0	6.0
2	3.9	2.0	1.7	0.3	0.2	0.0	4.8	2.2	1.3	0.3	1.0	2.0	4.5
3	1.2	0.6	0.5	0.1	0.1	-7777	0.8	0.3	0.1	0.1	0.0	0.0	1.3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
11	0.2	0.1	0.1	-7777	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
12	2.6	1.4	1.1	0.4	0.1	0.0	3.6	1.9	0.4	-7777	0.0	1.0	4.0
Summary	11.9	5.7	4.7	1.3	0.6	0.0	15.5	7.8	2.9	0.4	1.2	6.0	15.8

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Summary of Monthly Normals 1981-2010

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FREDERICKTOWN, MO US**

GHCND:USC00233038
Elev: 719 ft. Lat: 37.574° N Lon: 90.309° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	41	70	224	465	746	973	1136	1096	811	485	226	59
45	18	33	135	332	591	823	981	941	662	342	136	27
50	7	13	73	215	438	673	826	786	514	219	71	11
55	3	4	34	126	296	524	671	631	373	122	31	4
60	1	1	14	62	174	377	516	476	242	55	9	1
Growing Degree Units for Corn (Monthly)												
50/86	32	56	153	300	478	652	766	732	531	319	143	39

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	41	111	335	800	1546	2519	3655	4751	5562	6047	6273	6332
45	18	51	186	518	1109	1932	2913	3854	4516	4858	4994	5021
50	7	20	93	308	746	1419	2245	3031	3545	3764	3835	3846
55	3	7	41	167	463	987	1658	2289	2662	2784	2815	2819
60	1	2	16	78	252	629	1145	1621	1863	1918	1927	1928
Growing Degree Units for Corn (Monthly)												
50/86	32	88	241	541	1019	1671	2437	3169	3700	4019	4162	4201

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

M indicates the value is missing

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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **DORA 1 N, MO US**

GHCND:USC00232302
Elev: 1011 ft. Lat: 36.790° N Lon: 92.219° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.2	21.4	33.3	4.7	4.1	4.1	2	1	-7777	-7777	0	0	674	736	828	983	0.0	0.0	10.8	4.3	26.2	1.1
2	50.4	25.4	37.9	4.6	4.3	4.1	4	2	1	-7777	0	0	483	537	620	759	0.0	0.0	14.3	1.8	21.1	0.7
3	59.7	33.6	46.6	3.5	2.6	2.6	33	22	12	3	-7777	-7777	292	343	426	572	0.0	0.0	24.2	0.4	13.6	0.0
4	69.9	43.2	56.5	3.4	3.0	3.0	133	102	64	22	4	1	87	116	168	276	0.0	0.2	29.0	0.0	3.7	0.0
5	75.8	51.6	63.7	2.9	3.3	2.9	279	225	154	64	15	6	10	18	39	104	0.0	0.1	31.0	0.0	0.2	0.0
6	83.1	60.1	71.6	2.9	2.3	2.4	498	439	350	211	94	58	-7777	1	2	13	-7777	3.0	30.0	0.0	0.0	0.0
7	88.1	64.5	76.3	2.5	1.8	1.8	660	598	505	351	203	148	0	0	-7777	1	0.3	12.3	31.0	0.0	0.0	0.0
8	88.3	62.9	75.6	3.8	2.8	3.1	638	577	484	332	192	143	-7777	-7777	-7777	4	1.0	13.3	31.0	0.0	0.0	0.0
9	80.2	55.1	67.7	3.1	3.0	2.7	388	333	254	140	57	35	8	13	25	60	-7777	2.6	30.0	0.0	0.2	0.0
10	69.8	42.8	56.3	2.9	3.2	2.4	126	95	57	18	4	2	86	117	172	288	0.0	0.1	30.4	0.0	4.9	0.0
11	58.4	33.8	46.1	4.7	3.4	3.6	27	17	8	1	-7777	0	294	344	425	568	0.0	0.0	22.3	0.3	13.5	0.0
12	46.7	23.3	35.0	5.7	5.0	5.2	4	2	1	-7777	0	0	624	684	775	930	0.0	0.0	12.1	3.0	24.8	1.0
Summary	68.0	43.1	55.6	3.7	3.2	3.2	2792	2413	1890	1142	569	393	2558	2909	3480	4558	1.3	31.6	296.1	9.8	108.2	2.8

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **DORA 1 N, MO US**

GHCND:USC00232302
Elev: 1011 ft. Lat: 36.790° N Lon: 92.219° W

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	.25	.50	.75
1	2.49	5.2	3.8	1.8	0.8	1.07	2.31	3.71
2	2.42	5.5	4.4	1.9	0.7	1.53	2.30	2.87
3	3.87	7.7	6.4	2.9	1.0	1.80	3.25	4.54
4	4.37	7.6	6.2	3.2	1.3	2.89	4.04	5.74
5	5.16	9.9	8.0	3.6	1.5	4.15	4.67	5.87
6	4.05	8.4	6.6	3.0	1.3	3.21	4.02	4.95
7	3.33	6.1	5.0	2.5	1.0	1.94	3.11	3.68
8	2.74	6.1	4.7	2.1	0.8	1.36	2.68	3.83
9	4.21	6.5	5.1	2.6	1.5	1.95	3.24	6.40
10	3.92	7.4	5.4	2.6	1.1	2.00	3.12	4.98
11	4.57	7.3	6.0	2.9	1.4	2.25	3.82	6.98
12	3.49	6.7	4.8	2.5	1.1	1.84	3.09	4.40
Summary	44.62	84.4	66.4	31.6	13.5	25.99	39.65	57.95

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Station: **DORA 1 N, MO US**

GHCND:USC00232302
Elev: 1011 ft. Lat: 36.790° N Lon: 92.219° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	46	85	247	499	735	948	1125	1103	830	508	230	60
45	20	38	146	358	580	798	970	948	679	361	137	27
50	8	14	75	232	426	648	815	793	531	229	68	11
55	2	4	33	133	279	498	660	638	388	126	27	4
60	-7777	1	12	64	154	350	505	484	254	57	8	1
Growing Degree Units for Corn (Monthly)												
50/86	46	74	178	323	464	637	761	733	542	331	156	51

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	46	131	378	877	1612	2560	3685	4788	5618	6126	6356	6416
45	20	58	204	562	1142	1940	2910	3858	4537	4898	5035	5062
50	8	22	97	329	755	1403	2218	3011	3542	3771	3839	3850
55	2	6	39	172	451	949	1609	2247	2635	2761	2788	2792
60	0	1	13	77	231	581	1086	1570	1824	1881	1889	1890
Growing Degree Units for Corn (Monthly)												
50/86	46	120	298	621	1085	1722	2483	3216	3758	4089	4245	4296

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **DONIPHAN, MO US**

GHCND:USC00232289
 Elev: 289 ft. Lat: 36.620° N Lon: 90.812° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.6	23.0	34.3	4.6	4.4	4.2	4	2	1	-7777	0	0	645	706	797	952	0.0	0.0	11.2	3.5	24.9	0.7
2	50.9	26.3	38.6	4.6	4.6	4.3	5	3	1	-7777	0	0	464	518	600	739	0.0	0.0	15.0	1.4	20.2	0.3
3	60.5	33.4	47.0	3.6	3.5	3.2	33	23	12	3	-7777	-7777	283	334	417	563	0.0	0.0	25.6	0.1	14.8	0.0
4	70.7	42.7	56.7	3.7	3.8	3.5	133	101	64	23	5	2	82	110	163	272	0.0	0.3	29.4	0.0	4.9	0.0
5	78.2	52.7	65.5	2.6	4.1	2.9	330	273	196	96	31	17	6	11	27	82	0.0	0.9	31.0	0.0	0.1	0.0
6	86.4	62.2	74.3	2.5	3.1	2.4	579	519	430	285	154	110	-7777	-7777	1	6	0.1	8.8	30.0	0.0	0.0	0.0
7	90.3	66.5	78.4	2.3	2.3	2.0	725	663	570	415	263	205	0	0	-7777	-7777	0.7	16.8	31.0	0.0	0.0	0.0
8	89.7	65.0	77.4	3.1	2.8	2.8	693	631	538	384	236	182	0	-7777	-7777	1	1.3	15.2	31.0	0.0	0.0	0.0
9	82.3	55.7	69.0	2.9	2.7	2.4	423	367	285	164	75	50	3	7	15	44	0.1	4.9	30.0	0.0	-7777	0.0
10	71.5	43.1	57.3	2.9	3.4	2.5	141	106	65	23	6	3	69	96	149	262	0.0	0.2	30.8	0.0	4.9	0.0
11	59.4	34.2	46.8	4.3	3.1	3.1	30	19	9	2	-7777	-7777	276	325	405	548	0.0	0.0	24.0	0.0	13.7	0.0
12	47.2	25.0	36.1	4.7	4.9	4.6	3	2	1	0	0	0	589	650	741	896	0.0	0.0	12.8	2.3	23.4	0.5
Summary	69.4	44.2	56.8	3.5	3.6	3.2	3099	2709	2172	1395	770	569	2417	2757	3315	4365	2.2	47.1	301.8	7.3	106.9	1.5

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **DONIPHAN, MO US**

GHCND:USC00232289
Elev: 289 ft. Lat: 36.620° N Lon: 90.812° W

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	.25	.50	.75
1	3.51	7.7	5.4	2.4	0.8	1.97	3.28	5.02
2	3.55	7.4	5.6	2.7	1.0	2.43	3.19	4.39
3	4.38	9.4	7.4	3.2	1.0	2.79	3.93	4.97
4	4.78	9.4	6.9	3.1	1.5	3.50	4.46	5.83
5	5.12	10.0	7.9	3.5	1.5	3.95	4.99	6.56
6	2.97	7.7	5.6	2.3	0.6	1.83	2.77	4.27
7	4.32	7.7	5.8	2.7	1.4	2.41	4.11	5.24
8	3.45	6.8	4.6	2.0	1.0	2.06	3.07	4.25
9	3.74	6.4	4.6	2.4	1.0	1.63	3.01	5.20
10	4.27	7.7	5.8	2.9	1.2	2.15	3.86	5.40
11	5.01	8.9	6.6	3.4	1.7	2.75	4.90	6.52
12	4.55	8.5	6.5	3.3	1.1	2.43	3.67	6.39
Summary	49.65	97.6	72.7	33.9	13.8	29.90	45.24	64.04

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Station: **DONIPHAN, MO US**

GHCND:USC00232289
Elev: 289 ft. Lat: 36.620° N Lon: 90.812° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.9	1.4	0.8	0.3	0.2	0.0	2.9	1.0	0.6	0.0	0.0	1.0	4.3
2	2.4	1.3	1.0	0.4	0.2	0.0	2.7	1.0	0.2	0.0	0.0	1.0	4.0
3	1.6	0.4	0.4	0.1	0.1	-7777	0.5	0.2	0.2	0.1	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	-7777	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.4	0.9	0.6	0.2	0.0	0.0	2.0	0.4	0.1	0.0	0.0	0.5	2.1
Summary	8.4	4.1	2.8	1.0	0.5	0.0	8.1	2.6	1.1	0.1	0.0	2.5	11.4

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Summary of Monthly Normals 1981-2010

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www.ncdc.noaa.gov

Station: **DONIPHAN, MO US**

GHCND:USC00232289
Elev: 289 ft. Lat: 36.620° N Lon: 90.812° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	53	89	251	503	789	1029	1190	1157	870	538	238	63
45	23	41	149	360	634	879	1035	1003	720	388	143	27
50	10	16	76	233	480	729	880	848	570	251	73	10
55	4	5	33	133	330	579	725	693	423	141	30	3
60	1	1	12	64	196	430	570	538	285	65	9	1
Growing Degree Units for Corn (Monthly)												
50/86	47	77	185	336	515	693	802	775	572	359	165	48

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	53	142	393	896	1685	2714	3904	5061	5931	6469	6707	6770
45	23	64	213	573	1207	2086	3121	4124	4844	5232	5375	5402
50	10	26	102	335	815	1544	2424	3272	3842	4093	4166	4176
55	4	9	42	175	505	1084	1809	2502	2925	3066	3096	3099
60	1	2	14	78	274	704	1274	1812	2097	2162	2171	2172
Growing Degree Units for Corn (Monthly)												
50/86	47	124	309	645	1160	1853	2655	3430	4002	4361	4526	4574

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

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ST JOSEPH ROSECRANS MEMORIAL AIRPORT, MO US**

GHCND:USW00013993
Elev: 818 ft. Lat: 39.774° N Lon: 94.923° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.1	17.4	27.2	6.1	6.0	5.8	-7777	-7777	-7777	0	0	0	860	922	1015	1170	0.0	0.0	5.8	10.8	28.6	2.8
2	42.3	21.6	32.0	6.5	5.4	5.7	1	1	-7777	0	0	0	647	702	786	925	0.0	0.0	8.3	6.1	23.1	1.1
3	54.5	31.4	42.9	4.6	3.6	3.8	23	16	8	2	-7777	0	397	451	537	685	0.0	0.0	19.7	0.9	17.4	0.1
4	65.8	42.5	54.2	4.3	3.2	3.7	105	80	52	19	5	2	131	166	227	345	0.0	0.1	27.1	0.0	4.8	0.0
5	75.4	53.3	64.4	3.2	3.0	2.8	302	250	182	92	35	21	12	23	47	112	0.0	1.5	31.0	0.0	0.1	0.0
6	84.0	63.3	73.6	2.7	2.4	2.4	559	500	410	267	140	98	-7777	-7777	1	8	0.0	5.2	30.0	0.0	0.0	0.0
7	87.0	67.1	77.1	2.8	2.4	2.3	683	621	528	374	227	172	0	0	0	1	0.4	10.3	31.0	0.0	0.0	0.0
8	86.3	64.3	75.3	3.7	3.8	3.6	629	567	474	323	185	139	-7777	-7777	-7777	4	0.7	9.5	31.0	0.0	0.0	0.0
9	79.1	54.0	66.6	3.1	3.1	2.9	356	302	226	122	50	32	9	15	30	75	0.1	2.5	29.9	0.0	0.1	0.0
10	67.0	42.5	54.7	3.5	2.6	2.5	115	88	56	21	8	5	123	158	218	339	0.0	0.2	29.1	0.0	4.7	0.0
11	52.9	31.0	41.9	5.1	3.8	4.2	16	10	4	1	-7777	0	407	461	546	692	0.0	0.0	17.4	1.2	16.9	0.0
12	39.2	19.7	29.4	6.5	6.0	6.0	1	1	-7777	0	0	0	793	854	947	1102	0.0	0.0	6.4	8.5	27.3	1.7
Summary	64.2	42.3	53.3	4.3	3.8	3.8	2790	2436	1940	1221	650	469	3379	3752	4354	5458	1.2	29.3	266.7	27.5	123.0	5.7

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1981-2010**Station: **ST JOSEPH ROSECRANS MEMORIAL AIRPORT, MO US**

GHCND:USW00013993

Elev: 818 ft. Lat: 39.774° N Lon: 94.923° W

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	.25	.50	.75
1	0.56	4.4	1.8	0.4	0.0	0.14	0.50	0.78
2	0.93	5.6	2.2	0.6	0.1	0.39	0.83	1.24
3	2.25	8.1	4.7	1.0	0.4	1.24	2.04	3.41
4	3.79	9.9	6.5	2.5	1.2	2.23	3.77	4.59
5	5.42	12.8	7.0	3.0	1.2	3.76	5.34	6.63
6	4.18	12.2	7.2	3.5	1.5	2.96	4.02	4.96
7	5.19	11.1	4.8	2.3	1.1	1.89	4.43	7.18
8	3.98	12.1	6.0	3.0	1.6	2.50	3.22	5.46
9	3.42	11.0	5.1	2.3	0.9	2.22	2.76	3.76
10	2.81	9.4	5.7	1.7	0.8	1.98	2.75	3.85
11	1.55	5.7	2.5	0.7	0.3	0.94	1.41	2.24
12	1.52	6.1	2.4	0.7	0.1	0.51	1.29	2.23
Summary	35.60	108.4	55.9	21.7	9.2	20.76	32.36	46.33

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Station: **ST JOSEPH ROSECRANS MEMORIAL AIRPORT, MO US**

GHCND:USW00013993
 Elev: 818 ft. Lat: 39.774° N Lon: 94.923° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	42	177	433	755	1009	1148	1094	796	462	155	24
45	4	17	98	303	600	859	993	939	647	323	86	9
50	1	6	50	190	447	709	838	784	498	205	40	3
55	-7777	1	23	105	302	559	683	629	356	115	16	1
60	-7777	-7777	8	52	182	410	528	474	226	56	4	-7777
Growing Degree Units for Corn (Monthly)												
50/86	18	35	124	265	468	687	792	739	514	290	102	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	58	235	668	1423	2432	3580	4674	5470	5932	6087	6111
45	4	21	119	422	1022	1881	2874	3813	4460	4783	4869	4878
50	1	7	57	247	694	1403	2241	3025	3523	3728	3768	3771
55	0	1	24	129	431	990	1673	2302	2658	2773	2789	2790
60	0	0	8	60	242	652	1180	1654	1880	1936	1940	1940
Growing Degree Units for Corn (Monthly)												
50/86	18	53	177	442	910	1597	2389	3128	3642	3932	4034	4052

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information
 Service

Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ST LOUIS SCIENCE CTR, MO US**

GHCND:USC00237452
 Elev: 545 ft. Lat: 38.629° N Lon: 90.271° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.8	23.8	31.8	5.2	5.2	5.0	2	1	1	-7777	0	0	721	782	875	1029	0.0	0.0	7.3	9.0	23.8	0.8
2	45.1	27.8	36.4	4.4	4.2	4.1	5	3	1	-7777	-7777	-7777	524	578	660	799	0.0	0.0	9.4	3.8	18.2	0.4
3	55.4	37.0	46.2	4.5	3.2	3.7	48	35	20	7	1	1	321	370	448	590	0.0	0.0	19.5	0.9	10.4	0.0
4	67.0	47.3	57.2	5.2	3.9	4.4	158	127	87	40	15	9	94	122	173	276	0.0	0.6	27.6	0.0	1.3	0.0
5	76.8	57.4	67.1	3.7	3.3	3.4	382	326	246	136	59	38	7	13	26	71	0.0	1.8	31.0	0.0	0.0	0.0
6	85.3	66.7	76.0	2.7	2.2	2.4	630	570	481	336	201	153	-7777	-7777	1	6	0.1	8.1	30.0	0.0	0.0	0.0
7	89.1	71.0	80.1	2.2	1.8	1.9	776	714	621	467	314	255	0	0	-7777	-7777	0.9	14.0	31.0	0.0	0.0	0.0
8	88.1	69.7	78.9	3.3	3.0	3.1	741	679	586	432	283	226	0	0	-7777	1	0.9	11.3	31.0	0.0	0.0	0.0
9	80.8	61.1	70.9	3.0	2.5	2.6	481	423	339	211	109	78	3	5	10	33	0.0	3.5	30.0	0.0	0.0	0.0
10	68.9	49.5	59.2	3.0	2.5	2.5	189	151	102	45	15	9	59	83	127	225	0.0	0.2	30.2	0.0	0.3	0.0
11	55.9	39.3	47.6	5.0	3.7	4.2	46	33	18	5	-7777	-7777	268	315	390	527	0.0	0.0	19.9	0.6	7.0	0.0
12	42.9	28.1	35.5	6.4	5.4	5.8	3	2	1	-7777	0	0	608	668	760	914	0.0	0.0	8.8	4.9	19.7	0.4
Summary	66.3	48.2	57.2	4.1	3.4	3.6	3461	3064	2503	1679	997	769	2605	2936	3470	4471	1.9	39.5	275.7	19.2	80.7	1.6

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Monthly Normals
1981-2010**Station: **ST LOUIS SCIENCE CTR, MO US**

GHCND:USC00237452

Elev: 545 ft. Lat: 38.629° N Lon: 90.271° W

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	.25	.50	.75
1	2.45	@	@	@	@			
2	2.39	@	@	@	@			
3	3.36	@	@	@	@			
4	4.10	@	@	@	@			
5	4.80	@	@	@	@			
6	4.34	@	@	@	@			
7	4.19	@	@	@	@			
8	3.41	@	@	@	@			
9	3.38	@	@	@	@			
10	3.43	@	@	@	@			
11	4.22	@	@	@	@			
12	2.96	@	@	@	@			
Summary	43.03	0.0	0.0	0.0	0.0			

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Station: **ST LOUIS SCIENCE CTR, MO US**

GHCND:USC00237452
Elev: 545 ft. Lat: 38.629° N Lon: 90.271° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	80	254	518	840	1080	1241	1206	928	596	268	72
45	19	40	161	381	685	930	1086	1051	778	445	169	33
50	7	17	93	259	531	780	931	896	629	305	94	12
55	2	5	48	158	382	630	776	741	481	189	46	3
60	1	1	20	87	246	481	621	586	339	102	18	1
Growing Degree Units for Corn (Monthly)												
50/86	27	47	143	298	533	744	865	836	616	346	137	34

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	127	381	899	1739	2819	4060	5266	6194	6790	7058	7130
45	19	59	220	601	1286	2216	3302	4353	5131	5576	5745	5778
50	7	24	117	376	907	1687	2618	3514	4143	4448	4542	4554
55	2	7	55	213	595	1225	2001	2742	3223	3412	3458	3461
60	1	2	22	109	355	836	1457	2043	2382	2484	2502	2503
Growing Degree Units for Corn (Monthly)												
50/86	27	74	217	515	1048	1792	2657	3493	4109	4455	4592	4626

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

M indicates the value is missing

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Station: **ALTON 6 SE, MO US**

GHCND:USC00230127
Elev: 810 ft. Lat: 36.630° N Lon: 91.304° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.7	22.1	33.4	4.3	4.6	4.1	4	3	1	-7777	0	0	674	734	825	980	0.0	0.0	11.2	5.7	24.9	1.1
2	50.0	25.0	37.5	4.4	4.1	4.1	4	3	1	-7777	0	0	494	548	631	770	0.0	0.0	13.8	2.2	20.7	0.5
3	59.4	33.5	46.4	3.6	3.2	3.2	36	25	14	4	-7777	-7777	301	352	434	579	0.0	0.0	24.4	0.3	14.3	0.0
4	69.6	43.3	56.5	3.9	3.5	3.5	139	108	70	28	8	4	95	125	177	284	0.0	0.1	29.1	0.0	5.3	0.0
5	76.9	52.7	64.8	3.0	3.7	3.0	312	258	186	91	29	15	8	17	37	97	0.0	0.3	30.9	0.0	0.1	0.0
6	85.2	61.3	73.2	2.8	2.2	2.1	547	488	399	255	133	92	-7777	-7777	1	8	0.0	6.8	30.0	0.0	0.0	0.0
7	89.9	65.8	77.9	3.0	1.8	2.1	708	646	553	398	248	191	0	0	0	-7777	0.7	16.8	31.0	0.0	0.0	0.0
8	89.4	63.9	76.6	3.7	3.0	3.1	671	609	516	363	218	165	0	0	-7777	2	1.3	14.2	31.0	0.0	0.0	0.0
9	81.5	55.1	68.3	3.3	2.9	2.7	405	350	269	148	62	39	6	11	20	49	0.1	3.9	30.0	0.0	0.0	0.0
10	70.9	43.5	57.2	3.2	2.7	2.4	147	111	68	25	7	3	78	105	155	266	0.0	0.1	30.8	0.0	4.8	0.0
11	58.8	33.6	46.2	4.3	3.2	3.4	31	21	11	2	-7777	-7777	295	345	425	566	0.0	0.0	22.9	0.0	13.7	0.0
12	46.8	24.3	35.5	4.7	4.4	4.4	4	2	1	-7777	0	0	607	667	758	913	0.0	0.0	12.5	2.9	23.7	0.1
Summary	68.6	43.7	56.1	3.7	3.3	3.2	3008	2624	2089	1314	705	509	2558	2904	3463	4514	2.1	42.2	297.6	11.1	107.5	1.7

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GHCND:USC00230127
Elev: 810 ft. Lat: 36.630° N Lon: 91.304° W

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	.25	.50	.75
1	2.72	6.4	4.8	2.5	1.0	1.69	2.32	3.93
2	3.09	6.3	5.2	2.4	1.0	1.98	2.59	3.91
3	3.96	8.6	6.7	2.5	1.0	2.59	3.34	4.52
4	4.34	8.1	5.7	2.8	1.3	2.71	4.40	5.78
5	4.79	10.2	7.5	3.3	1.4	3.87	4.46	6.24
6	3.02	7.5	5.8	2.2	0.8	2.18	2.65	4.04
7	3.79	8.1	6.3	2.6	1.2	2.20	4.10	4.86
8	2.68	6.4	4.9	2.1	0.9	2.08	2.42	3.19
9	3.98	5.7	4.6	2.3	1.0	1.81	3.66	6.04
10	3.95	6.6	5.3	2.6	0.7	2.26	3.71	4.91
11	4.82	7.5	6.2	3.5	1.1	2.22	4.37	7.59
12	3.97	7.1	5.8	2.5	1.2	1.86	2.96	5.04
Summary	45.11	88.5	68.8	31.3	12.6	27.45	40.98	60.05

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Station: **ALTON 6 SE, MO US**

GHCND:USC00230127
Elev: 810 ft. Lat: 36.630° N Lon: 91.304° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	62	85	246	497	769	997	1173	1136	849	535	231	66
45	29	39	147	357	614	847	1018	981	699	388	140	30
50	12	15	79	236	460	697	863	826	550	255	71	12
55	4	4	36	139	312	547	708	671	405	147	31	4
60	1	1	14	70	186	399	553	516	269	68	11	1
Growing Degree Units for Corn (Monthly)												
50/86	48	72	173	324	494	670	790	755	555	351	158	48

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	62	147	393	890	1659	2656	3829	4965	5814	6349	6580	6646
45	29	68	215	572	1186	2033	3051	4032	4731	5119	5259	5289
50	12	27	106	342	802	1499	2362	3188	3738	3993	4064	4076
55	4	8	44	183	495	1042	1750	2421	2826	2973	3004	3008
60	1	2	16	86	272	671	1224	1740	2009	2077	2088	2089
Growing Degree Units for Corn (Monthly)												
50/86	48	120	293	617	1111	1781	2571	3326	3881	4232	4390	4438

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

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Station: **MALDEN MUNICIPAL AIRPORT, MO US**

GHCND:USC00235207
Elev: 290 ft. Lat: 36.599° N Lon: 89.989° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.4	26.6	35.0	4.4	4.7	4.4	3	2	1	-7777	-7777	0	623	684	775	930	0.0	0.0	9.2	4.7	22.3	0.4
2	48.6	30.0	39.3	4.2	3.9	3.9	5	3	1	-7777	-7777	0	445	499	581	720	0.0	0.0	12.8	2.3	16.8	0.1
3	58.9	37.6	48.2	3.7	2.8	3.1	44	31	16	4	-7777	-7777	254	302	381	523	0.0	0.0	24.0	0.3	8.5	0.0
4	69.2	48.2	58.7	4.0	3.2	3.4	174	136	89	35	8	3	63	85	128	224	0.0	0.1	28.9	0.0	0.8	0.0
5	78.8	57.8	68.3	3.2	3.3	3.0	415	356	272	152	65	41	2	5	14	50	0.0	1.5	31.0	0.0	0.0	0.0
6	87.6	67.0	77.3	2.8	2.1	2.2	669	609	519	372	231	179	-7777	-7777	-7777	3	0.3	11.7	30.0	0.0	0.0	0.0
7	90.5	70.6	80.6	2.3	1.6	1.8	792	730	637	482	328	268	0	0	0	-7777	0.7	17.4	31.0	0.0	0.0	0.0
8	89.6	68.8	79.2	3.0	2.3	2.5	750	688	595	440	287	229	0	0	-7777	-7777	1.0	14.6	31.0	0.0	0.0	0.0
9	82.7	60.0	71.4	2.8	2.7	2.4	493	435	350	218	111	78	2	4	9	28	0.0	5.1	30.0	0.0	0.0	0.0
10	71.9	47.9	59.9	3.0	2.8	2.5	198	157	103	41	12	6	46	67	106	199	0.0	0.1	30.8	0.0	0.7	0.0
11	59.0	38.9	48.9	4.8	3.3	3.9	49	34	18	5	1	-7777	230	276	349	486	0.0	0.0	22.7	0.1	7.5	0.0
12	46.0	29.4	37.7	4.7	4.8	4.6	5	3	1	-7777	0	0	541	601	692	846	0.0	0.0	11.4	2.8	19.3	0.2
Summary	68.9	48.6	58.7	3.6	3.1	3.1	3597	3184	2602	1749	1043	804	2206	2523	3035	4009	2.0	50.5	292.8	10.2	75.9	0.7

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Elev: 290 ft. Lat: 36.599° N Lon: 89.989° W

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	.25	.50	.75
1	3.17	6.3	4.6	2.0	0.8	1.48	3.02	4.35
2	3.30	7.0	5.0	2.2	1.0	1.77	3.03	4.14
3	4.02	9.2	6.5	2.7	1.2	2.81	3.43	5.15
4	4.45	8.7	6.6	2.8	1.2	3.07	4.11	5.80
5	4.60	9.6	7.1	3.0	1.4	2.80	4.27	6.48
6	3.26	7.7	5.5	2.4	1.0	1.83	3.03	4.25
7	4.01	7.0	5.1	2.5	1.4	2.02	3.61	6.30
8	2.51	5.8	4.0	2.0	0.6	1.36	2.11	3.84
9	3.24	6.2	4.5	2.0	1.0	1.12	2.36	4.64
10	3.58	6.8	4.7	2.2	0.9	1.81	2.88	4.44
11	4.36	7.7	6.0	2.8	1.3	2.27	3.90	6.01
12	4.58	8.2	6.0	2.8	1.4	2.19	4.36	6.30
Summary	45.08	90.2	65.6	29.4	13.2	24.53	40.11	61.70

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Station: **MALDEN MUNICIPAL AIRPORT, MO US**

GHCND:USC00235207
Elev: 290 ft. Lat: 36.599° N Lon: 89.989° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	1.2	0.4	0.4	0.2	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	2.0
2	0.6	0.3	0.2	0.1	-7777	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.2	0.1	-7777	-7777	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0
Summary	2.0	0.8	0.6	0.3	0.1	0.0	1.4	0.8	0.1	0.0	0.0	0.0	2.0

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

**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **MALDEN MUNICIPAL AIRPORT, MO US**

GHCND:USC00235207
 Elev: 290 ft. Lat: 36.599° N Lon: 89.989° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	61	100	288	562	877	1119	1257	1215	940	618	295	84
45	27	47	176	419	722	969	1102	1060	790	466	188	39
50	10	18	96	287	568	819	947	905	641	322	103	16
55	3	5	44	174	415	669	792	750	493	198	49	5
60	1	1	16	89	272	519	637	595	350	103	18	1
Growing Degree Units for Corn (Monthly)												
50/86	35	59	168	331	567	767	866	835	625	378	165	42

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	61	161	449	1011	1888	3007	4264	5479	6419	7037	7332	7416
45	27	74	250	669	1391	2360	3462	4522	5312	5778	5966	6005
50	10	28	124	411	979	1798	2745	3650	4291	4613	4716	4732
55	3	8	52	226	641	1310	2102	2852	3345	3543	3592	3597
60	1	2	18	107	379	898	1535	2130	2480	2583	2601	2602
Growing Degree Units for Corn (Monthly)												
50/86	35	94	262	593	1160	1927	2793	3628	4253	4631	4796	4838

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MOBERLY, MO US**

GHCND:USC00235671
Elev: 860 ft. Lat: 39.419° N Lon: 92.437° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.2	18.8	28.0	5.7	5.6	5.4	-7777	-7777	-7777	0	0	0	837	899	992	1147	0.0	0.0	5.4	10.2	27.1	2.2
2	42.5	23.3	32.9	5.6	5.4	5.3	2	1	1	-7777	0	0	621	676	759	899	0.0	0.0	8.7	6.4	21.5	1.0
3	54.1	32.8	43.4	4.6	3.3	3.8	31	21	11	3	-7777	-7777	389	441	524	671	0.0	0.0	18.6	1.4	14.9	0.1
4	65.9	43.4	54.7	4.3	3.2	3.6	117	90	57	21	5	2	127	160	217	331	0.0	0.1	27.1	0.0	3.6	0.0
5	74.2	53.0	63.6	3.1	3.3	3.1	283	232	162	72	21	11	17	27	51	116	0.0	0.2	31.0	0.0	0.1	0.0
6	82.7	62.0	72.3	2.3	2.1	1.9	521	461	372	232	115	78	-7777	-7777	2	12	0.0	2.7	30.0	0.0	0.0	0.0
7	87.2	66.5	76.8	2.6	1.7	1.9	677	615	522	368	221	168	0	0	-7777	1	0.3	9.8	31.0	0.0	0.0	0.0
8	86.1	64.7	75.4	3.7	2.8	3.1	632	570	478	326	188	141	0	-7777	-7777	3	0.6	9.1	31.0	0.0	0.0	0.0
9	77.7	56.2	66.9	3.2	2.6	2.7	368	314	237	130	57	37	10	15	29	72	0.0	1.8	30.0	0.0	-7777	0.0
10	66.6	45.2	55.9	3.1	2.2	2.5	130	99	60	20	4	2	102	133	187	302	0.0	-7777	29.2	0.0	2.3	0.0
11	53.0	34.2	43.6	4.6	3.8	3.9	23	15	7	1	-7777	0	365	417	499	643	0.0	0.0	18.0	1.0	12.8	0.0
12	39.7	22.7	31.2	5.5	5.8	5.5	2	1	-7777	0	0	0	739	800	893	1048	0.0	0.0	6.2	8.0	24.4	1.5
Summary	63.9	43.6	53.7	4.0	3.5	3.6	2786	2419	1907	1173	611	439	3207	3568	4153	5245	0.9	23.7	266.2	27.0	106.7	4.8

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MOBERLY, MO US**

GHCND:USC00235671
Elev: 860 ft. Lat: 39.419° N Lon: 92.437° W

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	.25	.50	.75
1	1.94	5.8	3.8	1.2	0.4	0.77	1.64	2.73
2	2.07	6.5	3.9	1.2	0.5	1.04	1.93	2.73
3	2.97	8.9	6.3	2.2	0.6	1.81	2.78	4.11
4	4.08	10.1	7.0	3.1	1.0	2.20	3.83	5.33
5	5.16	11.8	8.2	3.5	1.6	3.58	4.52	5.71
6	5.12	9.9	7.1	3.4	1.5	3.34	5.69	6.42
7	4.81	8.1	5.7	3.1	1.6	2.45	3.95	5.72
8	4.17	8.0	5.7	2.9	1.5	2.17	3.83	5.81
9	4.32	7.5	5.5	2.7	1.5	2.67	3.45	4.41
10	3.31	8.8	6.0	2.2	0.9	1.99	3.22	4.23
11	2.92	7.8	5.5	2.0	0.5	1.40	2.59	3.54
12	2.35	7.2	4.5	1.6	0.4	1.19	2.13	3.04
Summary	43.22	100.4	69.2	29.1	12.0	24.61	39.56	53.78

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 Monthly Normals
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 Asheville, North Carolina 28801
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Station: **MOBERLY, MO US**

GHCND:USC00235671
 Elev: 860 ft. Lat: 39.419° N Lon: 92.437° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.5	2.2	1.6	0.9	0.2	-7777	@	@	@	@	0.0	1.8	3.0
2	2.6	1.9	1.5	0.6	0.1	-7777	@	@	@	@	0.0	0.8	3.0
3	1.0	0.3	0.3	0.1	-7777	0.0	@	@	@	@	0.0	0.0	2.0
4	0.1	0.1	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.4	0.2	0.2	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	4.3	2.1	1.4	0.4	0.1	-7777	@	@	@	@	1.0	3.3	6.0
Summary	11.9	6.8	5.0	2.0	0.4	0.0	0.0	0.0	0.0	0.0	1.0	5.9	14.0

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www.ncdc.noaa.gov

Station: **MOBERLY, MO US**

GHCND:USC00235671
Elev: 860 ft. Lat: 39.419° N Lon: 92.437° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	23	55	198	448	732	970	1142	1097	809	497	189	39
45	7	24	118	317	577	820	987	942	659	354	110	16
50	2	8	64	204	425	670	832	787	511	229	55	6
55	-7777	2	31	117	283	521	677	632	368	130	23	2
60	-7777	1	11	57	162	372	522	478	237	60	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	36	123	268	449	656	785	743	518	290	103	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	23	78	276	724	1456	2426	3568	4665	5474	5971	6160	6199
45	7	31	149	466	1043	1863	2850	3792	4451	4805	4915	4931
50	2	10	74	278	703	1373	2205	2992	3503	3732	3787	3793
55	0	2	33	150	433	954	1631	2263	2631	2761	2784	2786
60	0	1	12	69	231	603	1125	1603	1840	1900	1907	1907
Growing Degree Units for Corn (Monthly)												
50/86	15	51	174	442	891	1547	2332	3075	3593	3883	3986	4007

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ANDERSON 3 W, MO US**

GHCND:USC00230163
 Elev: 1110 ft. Lat: 36.645° N Lon: 94.485° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.4	22.9	34.2				-7777	-7777	0	0	0	0	646	708	801	956	0.0	0.0	10.5	2.5	23.5	0.0
2	51.6	26.8	39.2				1	-7777	0	0	0	0	443	498	582	722	0.0	0.0	16.0	0.5	19.5	0.0
3	59.2	36.5	47.9				17	9	4	-7777	0	0	239	293	381	532	0.0	0.0	28.5	0.0	8.0	0.0
4	69.1	43.9	56.5				117	83	44	10	1	0	72	98	149	265	0.0	0.0	30.0	0.0	2.5	0.0
5	75.6	54.6	65.1				315	256	174	66	11	4	2	5	16	63	0.0	0.0	31.0	0.0	0.0	0.0
6	82.7	63.1	72.9				537	477	387	239	108	63	0	0	-7777	2	0.0	0.0	30.0	0.0	0.0	0.0
7	89.6	67.5	78.6				729	667	574	420	265	204	0	0	0	0	0.0	13.0	31.0	0.0	0.0	0.0
8	89.7	66.4	78.1				714	652	558	404	255	199	0	0	-7777	-7777	2.0	15.3	31.0	0.0	0.0	0.0
9	80.8	58.1	69.5				433	374	288	164	71	44	-7777	-7777	5	31	0.0	2.7	30.0	0.0	0.0	0.0
10	70.0	46.5	58.3				146	108	64	17	-7777	-7777	45	69	118	226	0.0	0.0	31.0	0.0	0.7	0.0
11	59.0	36.1	47.6				27	16	5	-7777	0	0	251	300	379	524	0.0	0.0	24.3	0.0	8.7	0.0
12	46.8	24.8	35.8				1	-7777	-7777	0	0	0	595	656	749	905	0.0	0.0	12.7	4.3	25.3	0.0
Summary	68.3	45.6	57.0				3037	2642	2098	1320	711	514	2293	2627	3180	4226	2.0	31.0	306.0	7.3	88.2	0

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ANDERSON 3 W, MO US**

GHCND:USC00230163
Elev: 1110 ft. Lat: 36.645° N Lon: 94.485° W

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	.25	.50	.75
1	2.31	@	@	@	@			
2	2.76	@	@	@	@			
3	4.03	@	@	@	@			
4	4.26	@	@	@	@			
5	5.77	@	@	@	@			
6	5.46	@	@	@	@			
7	3.31	@	@	@	@			
8	3.38	@	@	@	@			
9	4.86	@	@	@	@			
10	3.79	@	@	@	@			
11	3.84	@	@	@	@			
12	2.69	@	@	@	@			
Summary	46.46	0.0	0.0	0.0	0.0			

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Station: **ANDERSON 3 W, MO US**

GHCND:USC00230163
Elev: 1110 ft. Lat: 36.645° N Lon: 94.485° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	52	94	254	496	778	987	1194	1178	883	567	250	49
45	17	38	134	352	623	837	1039	1023	733	412	146	12
50	3	12	52	220	468	687	885	869	583	267	71	3
55	-7777	1	17	117	315	537	729	714	433	146	27	1
60	0	0	4	44	174	387	574	558	288	64	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	38	71	150	300	479	683	824	791	577	333	150	42

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	52	146	400	896	1674	2661	3855	5033	5916	6483	6733	6782
45	17	55	189	541	1164	2001	3040	4063	4796	5208	5354	5366
50	3	15	67	287	755	1442	2327	3196	3779	4046	4117	4120
55	0	1	18	135	450	987	1716	2430	2863	3009	3036	3037
60	0	0	4	48	222	609	1183	1741	2029	2093	2098	2098
Growing Degree Units for Corn (Monthly)												
50/86	38	109	259	559	1038	1721	2545	3336	3913	4246	4396	4438

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

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **POTOSI, MO US**

GHCND:USC00236826
Elev: 1105 ft. Lat: 37.896° N Lon: 90.841° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.8	21.4	30.6	5.4	4.7	4.9	2	1	-7777	-7777	0	0	758	819	911	1066	0.0	0.0	7.3	8.9	25.0	1.4
2	45.3	24.9	35.1	4.9	4.7	4.6	5	3	1	-7777	0	0	562	616	698	837	0.0	0.0	10.1	4.3	20.6	0.6
3	55.4	33.7	44.6	4.3	2.8	3.4	34	23	12	3	1	-7777	358	409	491	637	0.0	0.0	20.0	1.3	13.7	0.0
4	66.1	44.4	55.2	3.9	3.2	3.4	130	102	67	28	8	4	122	155	210	321	0.0	0.1	27.3	0.0	4.0	0.0
5	73.7	53.3	63.5	3.5	3.3	3.2	283	232	164	75	23	12	20	31	55	122	0.0	-7777	31.0	0.0	0.0	0.0
6	81.4	62.3	71.8	2.5	2.0	2.1	506	446	359	222	109	74	-7777	1	3	17	0.0	1.8	30.0	0.0	0.0	0.0
7	86.0	66.9	76.4	2.3	1.8	1.9	665	603	510	357	211	159	0	0	-7777	2	0.2	7.9	31.0	0.0	0.0	0.0
8	85.5	65.2	75.3	3.6	2.9	3.2	631	569	476	326	189	143	-7777	-7777	1	5	0.4	7.4	31.0	0.0	0.0	0.0
9	77.7	56.7	67.2	2.7	3.1	2.7	377	323	247	138	61	39	11	17	31	72	0.0	1.4	30.0	0.0	0.2	0.0
10	67.1	46.0	56.5	3.1	2.9	2.7	145	112	72	27	7	3	97	126	179	289	0.0	0.1	29.4	-7777	2.5	0.0
11	54.5	35.3	44.9	5.0	3.1	3.8	30	20	10	3	-7777	-7777	333	383	463	606	0.0	0.0	18.5	1.0	11.1	0.0
12	42.1	24.4	33.3	5.9	5.9	5.7	4	2	1	-7777	0	0	678	738	830	984	0.0	0.0	8.5	6.4	23.2	1.1
Summary	64.6	44.5	54.5	3.9	3.4	3.5	2812	2436	1919	1179	609	434	2939	3295	3872	4958	0.6	18.7	274.1	21.9	100.3	3.1

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www.ncdc.noaa.gov

Station: **POTOSI, MO US**

GHCND:USC00236826
Elev: 1105 ft. Lat: 37.896° N Lon: 90.841° W

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	.25	.50	.75
1	2.55	5.9	4.4	1.5	0.6	1.39	2.28	3.45
2	2.66	6.1	4.6	1.6	0.5	1.85	2.20	3.45
3	3.69	8.7	6.7	2.6	0.9	2.42	3.06	4.55
4	4.34	9.2	7.1	2.9	0.9	2.55	3.78	5.09
5	4.82	10.2	7.2	3.2	1.7	3.28	4.41	6.00
6	3.83	9.3	7.1	2.9	0.9	2.36	3.51	5.12
7	3.62	7.7	5.3	2.6	1.0	1.61	3.06	5.28
8	3.49	7.0	4.9	2.4	1.2	1.94	2.92	4.87
9	3.72	6.9	5.3	2.3	1.3	1.63	2.94	4.69
10	3.63	7.7	5.4	2.4	1.0	1.95	3.05	5.14
11	4.01	7.8	6.0	2.7	1.0	2.26	3.06	6.53
12	3.58	7.6	4.9	2.0	0.8	2.00	2.81	4.42
Summary	43.94	94.1	68.9	29.1	11.8	25.24	37.08	58.59

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **POTOSI, MO US**

GHCND:USC00236826
Elev: 1105 ft. Lat: 37.896° N Lon: 90.841° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.4	1.9	1.1	0.4	0.1	-7777	4.3	1.5	0.3	0.0	0.9	2.7	5.9
2	3.5	2.3	1.4	0.5	0.2	0.0	5.1	2.0	0.3	0.0	0.0	3.2	5.6
3	2.2	0.8	0.7	0.3	0.1	0.0	0.6	0.2	-7777	0.0	0.0	0.2	3.0
4	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.5	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	4.9	2.1	1.3	0.5	0.2	-7777	3.9	2.0	1.1	0.2	1.0	2.0	4.8
Summary	14.5	7.4	4.8	1.8	0.6	0.0	13.9	5.7	1.7	0.2	1.9	8.1	19.3

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **POTOSI, MO US**

GHCND:USC00236826
Elev: 1105 ft. Lat: 37.896° N Lon: 90.841° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	76	216	464	729	955	1130	1096	816	517	213	62
45	22	38	131	332	574	805	975	941	667	373	128	28
50	8	16	72	218	422	655	820	786	519	246	66	11
55	2	5	34	130	283	506	665	631	377	145	30	4
60	-7777	1	12	67	164	359	510	476	247	72	10	1
Growing Degree Units for Corn (Monthly)												
50/86	29	50	138	279	450	647	784	749	531	305	122	33

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	125	341	805	1534	2489	3619	4715	5531	6048	6261	6323
45	22	60	191	523	1097	1902	2877	3818	4485	4858	4986	5014
50	8	24	96	314	736	1391	2211	2997	3516	3762	3828	3839
55	2	7	41	171	454	960	1625	2256	2633	2778	2808	2812
60	0	1	13	80	244	603	1113	1589	1836	1908	1918	1919
Growing Degree Units for Corn (Monthly)												
50/86	29	79	217	496	946	1593	2377	3126	3657	3962	4084	4117

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

M indicates the value is missing

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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MONETT, MO US**

GHCND:USC00235704
 Elev: 1380 ft. Lat: 36.862° N Lon: 93.962° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.3	23.3	33.3	5.2	4.3	4.6	3	2	1	-7777	0	0	675	736	828	983	0.0	0.0	9.9	6.1	24.7	0.8
2	48.1	27.1	37.6	4.9	4.1	4.3	6	3	1	-7777	0	0	493	546	628	767	0.0	0.0	12.7	3.4	18.9	0.4
3	57.4	35.5	46.5	4.0	3.2	3.3	41	28	14	3	-7777	-7777	306	355	434	578	0.0	0.0	22.2	0.7	11.8	0.0
4	66.9	44.8	55.8	3.6	3.8	3.6	131	101	64	23	4	1	105	135	188	298	0.0	0.0	27.7	0.0	2.7	0.0
5	74.5	54.7	64.6	2.9	2.9	2.8	308	254	180	82	23	12	10	18	37	94	0.0	0.0	31.0	0.0	-7777	0.0
6	82.4	63.0	72.7	2.9	2.2	2.4	531	472	383	241	117	76	-7777	1	2	10	-7777	1.9	30.0	0.0	0.0	0.0
7	87.6	67.7	77.6	2.2	1.9	1.7	702	640	547	393	242	185	0	0	-7777	-7777	0.1	10.5	31.0	0.0	0.0	0.0
8	88.5	66.4	77.5	3.7	3.1	3.2	696	634	541	388	242	189	0	-7777	-7777	2	0.5	14.0	31.0	0.0	0.0	0.0
9	79.9	58.0	68.9	3.4	2.7	2.9	425	370	290	170	79	53	7	11	22	52	0.2	3.2	30.0	0.0	0.0	0.0
10	68.9	46.9	57.9	3.2	2.7	2.5	165	129	82	29	6	3	76	101	147	249	0.0	0.0	30.0	-7777	1.5	0.0
11	56.9	36.3	46.6	4.2	3.6	3.7	40	27	14	3	-7777	-7777	292	339	416	555	0.0	0.0	21.2	0.5	10.8	0.0
12	44.9	25.9	35.4	5.4	5.1	5.1	5	3	1	-7777	0	0	612	672	763	917	0.0	0.0	11.0	4.8	22.5	0.8
Summary	66.6	45.8	56.2	3.8	3.3	3.3	3053	2663	2118	1332	713	519	2576	2914	3465	4505	0.8	29.6	287.7	15.5	92.9	2.0

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MONETT, MO US**

GHCND:USC00235704
Elev: 1380 ft. Lat: 36.862° N Lon: 93.962° W

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	.25	.50	.75
1	2.36	6.7	3.9	1.5	0.6	0.91	1.84	3.51
2	2.30	6.9	4.5	1.6	0.5	1.20	1.94	2.54
3	3.75	9.4	6.4	2.5	0.9	2.23	3.17	4.95
4	4.24	10.0	6.5	3.2	1.1	2.71	4.01	5.81
5	5.23	11.7	8.2	3.7	1.6	3.48	4.79	6.29
6	5.05	10.3	7.6	3.6	1.7	3.19	4.31	7.31
7	3.50	7.5	5.2	2.3	1.0	2.14	3.36	4.83
8	3.43	6.7	4.7	2.1	1.1	1.50	2.87	4.65
9	5.14	7.4	5.7	3.2	1.6	2.56	4.23	7.10
10	3.61	8.6	6.1	2.6	1.0	1.83	3.15	4.33
11	4.23	7.7	5.6	2.6	1.2	2.50	4.08	5.27
12	3.01	7.5	4.9	2.1	0.9	1.43	2.76	4.05
Summary	45.85	100.4	69.3	31.0	13.2	25.68	40.51	60.64

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Station: **MONETT, MO US**

GHCND:USC00235704
 Elev: 1380 ft. Lat: 36.862° N Lon: 93.962° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.9	1.5	0.9	0.3	0.1	0.0	4.4	1.8	0.8	0.0	0.0	2.0	4.4
2	2.5	1.5	0.8	0.3	0.1	0.0	3.6	1.6	0.3	-7777	0.0	1.8	4.2
3	1.6	0.5	0.3	0.2	0.1	-7777	0.7	0.4	0.2	0.1	0.0	0.0	1.2
4	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.1	0.2	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
12	1.9	1.3	1.1	0.5	0.1	0.0	3.3	2.0	1.7	0.2	0.0	0.0	2.3
Summary	9.0	5.0	3.2	1.3	0.4	0.0	12.2	5.8	3.0	0.3	0.0	3.8	12.1

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Station: **MONETT, MO US**

GHCND:USC00235704
 Elev: 1380 ft. Lat: 36.862° N Lon: 93.962° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	62	97	257	481	762	981	1167	1161	869	558	253	75
45	28	49	159	346	608	831	1012	1006	719	411	160	36
50	11	19	89	227	454	681	857	851	570	277	88	15
55	3	6	41	131	308	531	702	696	425	165	40	5
60	1	1	14	64	180	383	547	541	290	82	14	1
Growing Degree Units for Corn (Monthly)												
50/86	42	65	158	286	472	670	811	785	567	335	146	47

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	62	159	416	897	1659	2640	3807	4968	5837	6395	6648	6723
45	28	77	236	582	1190	2021	3033	4039	4758	5169	5329	5365
50	11	30	119	346	800	1481	2338	3189	3759	4036	4124	4139
55	3	9	50	181	489	1020	1722	2418	2843	3008	3048	3053
60	1	2	16	80	260	643	1190	1731	2021	2103	2117	2118
Growing Degree Units for Corn (Monthly)												
50/86	42	107	265	551	1023	1693	2504	3289	3856	4191	4337	4384

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KANSAS CITY DOWNTOWN AIRPORT, MO US**

GHCND:USW00013988
Elev: 742 ft. Lat: 39.121° N Lon: 94.597° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.5	22.4	31.0	5.6	4.5	4.9	-7777	-7777	-7777	0	0	0	746	807	900	1055	0.0	0.0	6.7	8.1	25.7	0.7
2	44.6	26.3	35.5	5.5	5.3	5.2	4	2	1	-7777	-7777	-7777	551	606	688	827	0.0	0.0	10.1	5.1	18.7	0.6
3	56.2	35.8	46.0	4.3	3.5	3.7	41	30	17	5	1	-7777	320	371	451	594	0.0	0.0	20.8	0.8	11.0	0.0
4	66.7	46.6	56.6	4.2	3.4	3.7	145	114	77	33	10	5	95	125	177	284	0.0	0.1	27.7	0.0	1.7	0.0
5	75.9	57.1	66.5	3.1	2.9	2.9	363	307	229	120	48	30	6	12	27	74	0.0	0.8	31.0	0.0	0.0	0.0
6	85.0	66.7	75.8	3.0	2.3	2.6	625	566	476	330	196	148	-7777	-7777	1	5	0.2	6.6	30.0	0.0	0.0	0.0
7	90.1	72.0	81.0	2.3	2.0	2.1	807	745	652	497	344	284	0	0	0	-7777	1.3	16.1	31.0	0.0	0.0	0.0
8	88.6	70.2	79.4	3.9	3.0	3.3	756	694	601	447	297	242	0	0	-7777	1	1.8	13.3	31.0	0.0	0.0	0.0
9	80.0	60.5	70.2	3.3	3.0	3.0	463	406	323	200	103	74	5	8	16	42	0.1	3.4	30.0	0.0	0.0	0.0
10	67.8	48.9	58.3	3.2	2.6	2.6	176	139	92	37	11	5	72	97	143	244	0.0	0.1	29.4	0.0	0.9	0.0
11	54.2	36.6	45.4	4.9	3.9	4.2	32	22	12	2	-7777	-7777	320	371	450	590	0.0	0.0	18.8	0.9	9.9	0.0
12	41.8	25.6	33.7	5.8	5.8	5.7	2	1	1	-7777	0	0	662	723	816	970	0.0	0.0	8.2	6.1	22.0	0.9
Summary	65.9	47.4	56.6	4.1	3.5	3.7	3414	3026	2481	1671	1010	788	2777	3120	3669	4686	3.4	40.4	274.7	21.0	89.9	2.2

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Station: **KANSAS CITY DOWNTOWN AIRPORT, MO US**

GHCND:USW00013988
Elev: 742 ft. Lat: 39.121° N Lon: 94.597° W

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	.25	.50	.75
1	1.14	4.8	2.5	0.4	0.2	0.25	0.89	1.40
2	1.48	5.3	2.9	1.0	0.3	0.59	1.14	2.16
3	2.15	7.6	4.9	1.6	0.3	1.24	2.01	2.94
4	3.71	9.4	6.4	2.4	1.0	2.26	3.71	4.75
5	5.13	11.0	8.0	3.6	1.4	2.27	5.14	7.27
6	5.52	10.2	7.9	4.0	1.7	3.36	5.39	6.76
7	3.97	7.9	6.0	2.4	1.2	1.44	3.94	5.49
8	4.39	7.5	5.5	2.8	1.2	1.75	3.84	6.19
9	4.16	8.1	5.9	3.0	1.4	2.20	3.60	4.49
10	3.52	7.5	5.7	2.2	1.0	1.92	3.38	4.35
11	2.14	6.1	4.0	1.4	0.5	1.10	1.83	3.16
12	1.75	5.4	3.4	1.2	0.5	0.81	1.33	2.25
Summary	39.06	90.8	63.1	26.0	10.7	19.19	36.20	51.21

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KANSAS CITY DOWNTOWN AIRPORT, MO US**

GHCND:USW00013988
Elev: 742 ft. Lat: 39.121° N Lon: 94.597° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.1	2.5	1.3	0.5	0.1	0.0	5.8	2.2	1.1	0.1	0.5	2.6	6.5
2	3.2	2.1	1.1	0.3	-7777	0.0	3.4	1.7	0.8	-7777	0.0	2.1	5.1
3	0.9	0.6	0.4	0.1	-7777	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.9
4	0.2	0.1	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.3	0.1	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.4	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12	4.4	2.5	1.7	0.4	0.1	0.0	4.0	2.0	1.0	0.0	0.1	3.7	6.6
Summary	13.4	8.3	4.8	1.3	0.2	0.0	13.8	6.1	2.9	0.1	0.6	8.4	19.1

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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Service

Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KANSAS CITY DOWNTOWN AIRPORT, MO US**

GHCND:USW00013988
Elev: 742 ft. Lat: 39.121° N Lon: 94.597° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	33	73	247	503	822	1075	1272	1221	907	571	225	57
45	11	33	152	365	667	925	1117	1066	758	424	138	23
50	3	12	84	242	512	775	962	911	609	289	73	8
55	-7777	4	41	145	363	625	807	756	463	176	32	2
60	-7777	1	17	77	229	476	652	601	323	92	12	1
Growing Degree Units for Corn (Monthly)												
50/86	22	45	147	292	519	743	883	841	597	328	120	29

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	33	106	353	856	1678	2753	4025	5246	6153	6724	6949	7006
45	11	44	196	561	1228	2153	3270	4336	5094	5518	5656	5679
50	3	15	99	341	853	1628	2590	3501	4110	4399	4472	4480
55	0	4	45	190	553	1178	1985	2741	3204	3380	3412	3414
60	0	1	18	95	324	800	1452	2053	2376	2468	2480	2481
Growing Degree Units for Corn (Monthly)												
50/86	22	67	214	506	1025	1768	2651	3492	4089	4417	4537	4566

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CLARENCE CANNON DAM, MO US**

GHCND:USC00231600
Elev: 702 ft. Lat: 39.525° N Lon: 91.645° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	36.9	17.8	27.4				1	-7777	0	0	0	0	858	919	1012	1167	0.0	0.0	4.9	10.4	28.2	2.1
2	41.9	21.3	31.6				2	1	1	-7777	0	0	657	712	795	935	0.0	0.0	7.5	6.4	23.8	1.0
3	53.3	31.0	42.2				27	19	11	3	-7777	-7777	425	479	564	711	0.0	0.0	17.9	1.8	17.4	0.0
4	64.8	42.5	53.7				106	81	52	20	5	2	146	182	243	361	0.0	0.1	26.9	0.0	3.7	0.0
5	74.5	52.5	63.5				281	231	163	78	28	16	17	29	55	125	0.0	0.4	31.0	0.0	0.1	0.0
6	83.4	62.2	72.8				534	475	386	248	130	91	-7777	1	3	14	0.0	4.7	30.0	0.0	0.0	0.0
7	87.6	66.5	77.1				683	621	528	374	227	174	0	-7777	-7777	1	0.8	10.9	31.0	0.0	0.0	0.0
8	87.1	64.5	75.8				645	583	490	337	195	147	0	-7777	-7777	2	0.7	10.3	31.0	0.0	0.0	0.0
9	78.9	55.3	67.1				373	319	242	134	60	40	10	16	29	71	0.0	3.0	30.0	0.0	0.1	0.0
10	67.3	43.7	55.5				126	95	58	20	5	2	110	142	198	315	0.0	-7777	28.8	0.0	2.6	0.0
11	53.9	33.6	43.8				28	19	10	1	-7777	0	365	417	497	639	0.0	0.0	18.5	1.1	13.3	0.0
12	40.4	22.2	31.3				2	1	-7777	0	0	0	736	797	890	1044	0.0	0.0	7.0	7.7	25.4	1.5
Summary	64.2	42.8	53.5				2808	2445	1941	1215	650	472	3324	3694	4286	5385	1.5	29.4	264.5	27.4	114.6	4.6

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Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **CLARENCE CANNON DAM, MO US**

GHCND:USC00231600

Elev: 702 ft. Lat: 39.525° N Lon: 91.645° W

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	.25	.50	.75
1	1.88	@	@	@	@			
2	2.14	@	@	@	@			
3	2.68	@	@	@	@			
4	3.93	@	@	@	@			
5	4.96	@	@	@	@			
6	4.24	@	@	@	@			
7	4.50	@	@	@	@			
8	4.26	@	@	@	@			
9	3.87	@	@	@	@			
10	3.39	@	@	@	@			
11	3.19	@	@	@	@			
12	2.39	@	@	@	@			
Summary	41.43	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: CLARENCE CANNON DAM, MO US

GHCND:USC00231600
Elev: 702 ft. Lat: 39.525° N Lon: 91.645° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	39	173	418	729	984	1148	1109	813	485	191	38
45	5	17	102	290	574	834	993	954	664	343	113	15
50	1	6	56	184	421	684	838	799	516	221	59	6
55	1	2	27	106	281	534	683	645	373	126	28	2
60	0	1	11	52	163	386	528	490	242	58	10	-7777
Growing Degree Units for Corn (Monthly)												
50/86	14	33	118	250	448	663	786	749	521	293	115	26

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	55	228	646	1375	2359	3507	4616	5429	5914	6105	6143
45	5	22	124	414	988	1822	2815	3769	4433	4776	4889	4904
50	1	7	63	247	668	1352	2190	2989	3505	3726	3785	3791
55	1	3	30	136	417	951	1634	2279	2652	2778	2806	2808
60	0	1	12	64	227	613	1141	1631	1873	1931	1941	1941
Growing Degree Units for Corn (Monthly)												
50/86	14	47	165	415	863	1526	2312	3061	3582	3875	3990	4016

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

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **GRAHAM 1 NW, MO US**

GHCND:USC00233329
Elev: 580 ft. Lat: 40.202° N Lon: 95.072° W

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	.25	.50	.75
1	0.85	4.1	2.4	0.3	0.1	0.43	0.83	1.22
2	1.31	5.2	2.9	0.9	0.3	0.72	1.08	1.84
3	2.42	6.4	4.9	1.8	0.6	1.49	2.22	3.28
4	3.25	8.4	6.2	2.3	1.0	1.96	2.93	4.48
5	5.11	8.9	7.5	3.3	1.6	2.95	4.46	5.99
6	6.02	8.0	6.7	3.6	2.0	3.82	5.27	7.64
7	5.74	7.9	7.1	3.8	2.0	3.12	4.86	5.95
8	3.88	5.5	4.8	2.3	1.4	1.94	3.17	5.42
9	3.67	5.1	4.6	2.2	1.0	1.66	2.65	5.09
10	3.16	5.6	4.6	2.0	0.6	1.69	3.03	4.13
11	2.22	5.0	4.1	1.6	0.6	1.42	1.86	3.00
12	1.37	4.7	2.8	0.8	0.3	0.66	1.31	1.88
Summary	39.00	74.8	58.6	24.9	11.5	21.86	33.67	49.92

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Summary of Monthly Normals 1981-2010

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 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KANSAS CITY PLEASANT HILL, MO US**

GHCND:USC00236745
 Elev: 1000 ft. Lat: 38.810° N Lon: 94.265° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.1	19.1	28.6	5.5	4.4	4.7	-7777	-7777	0	0	0	0	819	880	973	1128	0.0	0.0	5.9	10.2	27.7	2.1
2	43.4	23.3	33.3	5.5	5.5	5.3	2	1	-7777	-7777	0	0	608	663	746	886	0.0	0.0	9.4	4.9	22.5	0.4
3	54.9	32.3	43.6	4.5	3.3	3.6	23	15	7	1	-7777	-7777	377	431	515	664	0.0	0.0	20.0	1.1	15.5	0.1
4	64.8	43.0	53.9	4.0	3.4	3.6	99	73	43	13	2	1	132	166	226	346	0.0	0.0	26.8	0.0	3.5	0.0
5	74.9	53.4	64.1	3.2	3.0	2.9	296	243	172	82	27	15	12	21	44	109	0.0	0.4	31.0	0.0	0.0	0.0
6	83.4	62.9	73.2	2.6	2.1	2.2	545	485	396	253	128	87	-7777	1	2	9	0.0	3.8	30.0	0.0	0.0	0.0
7	88.2	67.8	78.0	2.6	1.8	2.0	713	651	558	403	253	196	0	0	0	-7777	0.8	12.6	31.0	0.0	0.0	0.0
8	87.5	66.2	76.8	4.2	2.4	3.2	677	615	522	369	225	172	0	0	-7777	2	1.2	11.6	31.0	0.0	0.0	0.0
9	79.6	56.8	68.2	3.3	2.6	2.7	403	347	267	152	67	44	7	11	21	56	0.2	2.9	30.0	0.0	0.0	0.0
10	67.3	45.2	56.2	3.0	2.2	2.3	136	104	66	24	6	3	97	127	182	295	0.0	0.1	29.1	0.0	2.0	0.0
11	54.2	33.7	43.9	4.9	3.8	4.2	24	16	6	1	-7777	0	356	407	488	632	0.0	0.0	18.3	0.9	13.9	0.0
12	40.8	22.8	31.8	5.9	5.5	5.6	2	1	-7777	0	0	0	720	782	874	1029	0.0	0.0	7.7	7.4	25.5	0.6
Summary	64.8	43.9	54.3	4.1	3.3	3.5	2920	2551	2037	1298	708	518	3128	3489	4071	5156	2.2	31.4	270.2	24.5	110.6	3.2

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Asheville, North Carolina 28801
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Station: **KANSAS CITY PLEASANT HILL, MO US**

GHCND:USC00236745
Elev: 1000 ft. Lat: 38.810° N Lon: 94.265° W

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	.25	.50	.75
1	1.31	7.2	3.3	0.7	0.3	0.68	1.23	1.85
2	1.72	6.9	3.7	1.2	0.3	1.03	1.43	1.82
3	3.01	9.6	5.9	2.1	0.8	1.94	2.42	3.89
4	4.07	10.7	6.3	3.2	1.1	2.65	3.84	5.26
5	5.36	11.7	7.8	3.5	1.4	3.33	5.05	6.46
6	6.05	11.1	7.7	4.3	2.3	3.37	6.18	8.25
7	4.16	9.6	5.9	2.6	1.2	2.93	3.37	5.53
8	4.04	8.0	5.3	2.6	1.2	2.09	3.57	5.17
9	4.98	8.5	5.4	3.1	1.6	2.50	4.02	5.89
10	3.87	9.6	6.2	2.3	0.9	2.11	3.87	5.07
11	2.44	6.2	3.3	1.5	0.5	1.36	2.10	3.30
12	1.90	7.1	3.8	0.9	0.3	0.75	1.89	2.84
Summary	42.91	106.2	64.6	28.0	11.9	24.74	38.97	55.33

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Station: **KANSAS CITY PLEASANT HILL, MO US**

GHCND:USC00236745
 Elev: 1000 ft. Lat: 38.810° N Lon: 94.265° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.9	3.9	1.7	0.6	0.1	0.0	7.7	3.5	1.5	0.3	1.9	4.9	8.1
2	3.7	2.9	1.1	0.3	0.2	0.0	3.8	1.4	0.5	0.0	0.5	3.3	5.2
3	1.9	1.0	0.5	0.2	0.1	0.0	1.4	0.8	0.1	0.0	0.0	0.2	4.2
4	0.4	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.5	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.9	0.5	0.3	0.2	0.0	0.0	0.4	0.3	0.1	0.0	0.0	0.0	0.6
12	5.4	3.6	1.7	0.5	0.1	0.0	6.0	2.7	2.1	0.0	0.9	4.9	9.5
Summary	17.7	12.2	5.5	2.0	0.6	0.0	19.4	8.8	4.3	0.3	3.3	13.3	27.6

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Station: **KANSAS CITY PLEASANT HILL, MO US**

GHCND:USC00236745
 Elev: 1000 ft. Lat: 38.810° N Lon: 94.265° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	25	50	192	427	748	995	1178	1142	846	506	194	42
45	9	21	107	298	594	844	1023	987	696	363	114	18
50	3	7	55	185	440	694	868	832	547	237	58	6
55	-7777	2	23	99	296	545	713	677	403	136	24	2
60	0	-7777	7	43	172	396	558	522	267	66	6	-7777
Growing Degree Units for Corn (Monthly)												
50/86	21	37	128	248	458	676	810	773	543	296	115	26

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	25	75	267	694	1442	2437	3615	4757	5603	6109	6303	6345
45	9	30	137	435	1029	1873	2896	3883	4579	4942	5056	5074
50	3	10	65	250	690	1384	2252	3084	3631	3868	3926	3932
55	0	2	25	124	420	965	1678	2355	2758	2894	2918	2920
60	0	0	7	50	222	618	1176	1698	1965	2031	2037	2037
Growing Degree Units for Corn (Monthly)												
50/86	21	58	186	434	892	1568	2378	3151	3694	3990	4105	4131

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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Service

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LEBANON 2 W, MO US**

GHCND:USC00234825
Elev: 1279 ft. Lat: 37.685° N Lon: 92.694° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.1	21.2	31.6	5.4	5.1	5.1	2	1	-7777	-7777	0	0	726	787	879	1034	0.0	0.0	8.7	6.6	25.3	1.5
2	47.4	24.5	35.9	4.9	4.6	4.6	4	2	1	-7777	-7777	0	537	592	674	813	0.0	0.0	12.3	4.0	21.1	1.0
3	57.6	33.6	45.6	4.1	3.8	3.8	37	25	13	3	-7777	-7777	328	379	460	604	0.0	0.0	22.3	0.5	14.4	-7777
4	67.1	43.1	55.1	4.1	3.6	3.7	120	92	57	18	3	1	117	149	204	315	0.0	0.0	27.8	0.0	4.4	0.0
5	75.7	53.4	64.6	3.2	3.1	3.0	308	255	181	86	26	14	12	20	40	100	0.0	0.1	31.0	0.0	0.1	0.0
6	83.5	62.0	72.7	2.8	2.1	2.2	533	473	384	242	118	78	-7777	-7777	2	10	0.1	2.9	30.0	0.0	0.0	0.0
7	88.2	66.5	77.3	2.5	2.0	1.9	693	631	538	383	234	178	0	0	0	1	0.4	11.9	31.0	0.0	0.0	0.0
8	88.4	65.1	76.8	3.6	2.7	3.0	674	612	519	367	223	171	-7777	-7777	-7777	3	0.7	12.8	31.0	0.0	0.0	0.0
9	79.7	56.0	67.8	3.1	3.0	2.7	395	340	261	145	64	41	9	14	25	60	0.1	2.0	29.9	0.0	0.3	0.0
10	68.7	45.4	57.1	3.2	2.9	2.7	151	115	72	25	5	2	87	114	163	272	0.0	0.0	29.8	0.0	3.1	0.0
11	56.0	34.3	45.2	5.0	3.6	4.0	31	21	10	2	-7777	-7777	327	376	456	598	0.0	0.0	20.4	0.4	13.2	0.0
12	44.2	24.2	34.2	5.8	5.4	5.5	3	2	-7777	-7777	0	0	648	708	800	955	0.0	0.0	10.0	4.6	24.1	1.1
Summary	66.6	44.1	55.3	4.0	3.5	3.5	2951	2569	2036	1271	673	485	2791	3139	3703	4765	1.3	29.7	284.2	16.1	106.0	3.6

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1981-2010**

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LEBANON 2 W, MO US**

GHCND:USC00234825
Elev: 1279 ft. Lat: 37.685° N Lon: 92.694° W

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	.25	.50	.75
1	2.07	5.7	3.4	1.3	0.7	1.04	1.78	3.09
2	2.22	6.4	4.2	1.5	0.5	1.25	1.72	3.03
3	3.80	8.6	6.1	2.0	0.6	2.01	2.86	5.91
4	4.45	9.7	7.1	3.0	1.4	2.46	3.75	6.23
5	5.67	10.9	8.0	3.9	1.8	3.93	4.86	6.94
6	4.89	8.9	6.5	3.5	1.6	2.92	4.01	5.96
7	3.87	7.2	5.1	2.6	1.1	2.09	3.98	5.50
8	3.51	7.1	4.5	2.0	1.2	2.18	3.60	4.12
9	4.31	7.0	5.1	2.8	1.5	1.67	3.21	4.97
10	3.66	8.0	5.8	2.4	1.0	2.01	3.19	4.68
11	3.88	8.1	5.7	2.9	1.4	1.66	3.37	5.95
12	2.99	6.1	4.1	1.7	0.6	1.57	2.49	3.60
Summary	45.32	93.7	65.6	29.6	13.4	24.79	38.82	59.98

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Station: **LEBANON 2 W, MO US**

GHCND:USC00234825
Elev: 1279 ft. Lat: 37.685° N Lon: 92.694° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.0	1.7	1.2	0.5	0.2	-7777	3.9	2.2	0.9	-7777	0.0	3.1	4.9
2	2.2	1.1	0.8	0.4	0.1	-7777	1.8	1.2	0.7	0.1	0.0	1.0	3.3
3	1.0	0.3	0.3	0.1	0.1	0.0	0.1	0.1	-7777	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.2	0.2	0.1	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
12	2.9	1.1	0.9	0.4	0.2	0.0	0.8	0.2	0.0	0.0	0.0	0.0	3.7
Summary	9.3	4.4	3.3	1.4	0.6	0.0	6.6	3.7	1.6	0.1	0.0	4.1	11.9

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Station: **LEBANON 2 W, MO US**

GHCND:USC00234825
 Elev: 1279 ft. Lat: 37.685° N Lon: 92.694° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	79	237	460	761	982	1158	1139	835	531	219	62
45	22	38	145	327	606	832	1003	984	686	386	133	29
50	8	15	79	211	453	682	848	829	538	256	71	12
55	2	4	37	120	308	533	693	674	395	151	31	3
60	-7777	1	13	57	181	384	538	519	261	72	10	-7777
Growing Degree Units for Corn (Monthly)												
50/86	34	59	156	285	482	669	794	769	545	325	133	39

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	128	365	825	1586	2568	3726	4865	5700	6231	6450	6512
45	22	60	205	532	1138	1970	2973	3957	4643	5029	5162	5191
50	8	23	102	313	766	1448	2296	3125	3663	3919	3990	4002
55	2	6	43	163	471	1004	1697	2371	2766	2917	2948	2951
60	0	1	14	71	252	636	1174	1693	1954	2026	2036	2036
Growing Degree Units for Corn (Monthly)												
50/86	34	93	249	534	1016	1685	2479	3248	3793	4118	4251	4290

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MEMPHIS, MO US**

GHCND:USC00235492
 Elev: 770 ft. Lat: 40.458° N Lon: 92.182° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	33.2	13.5	23.3	6.3	6.3	6.1	-7777	-7777	0	0	0	0	981	1043	1136	1291	0.0	0.0	2.9	14.7	29.5	5.8
2	38.3	17.9	28.1	5.6	5.8	5.6	1	-7777	-7777	0	0	0	754	809	893	1033	0.0	0.0	5.1	8.9	25.0	2.8
3	50.2	28.8	39.5	4.6	2.9	3.6	14	9	4	-7777	-7777	0	494	551	639	791	0.0	0.0	15.0	2.2	19.9	0.2
4	62.7	39.3	51.0	4.4	2.5	3.3	65	47	27	8	1	-7777	185	227	297	428	0.0	0.0	25.6	0.0	6.5	0.0
5	72.2	50.3	61.2	3.5	3.1	3.1	223	178	121	54	16	9	29	46	82	170	0.0	0.3	30.9	0.0	0.2	0.0
6	81.9	60.1	71.0	2.6	2.4	2.3	481	422	335	201	92	59	1	2	5	21	-7777	3.2	30.0	0.0	0.0	0.0
7	86.3	64.4	75.4	2.6	2.0	2.1	631	569	476	322	179	131	0	-7777	-7777	1	0.5	8.6	31.0	0.0	0.0	0.0
8	84.7	62.4	73.5	3.6	3.1	3.1	575	513	421	272	144	103	-7777	-7777	1	7	0.5	6.6	31.0	0.0	0.0	0.0
9	76.8	53.1	64.9	3.3	2.2	2.4	313	261	190	95	35	21	15	23	41	96	0.0	1.1	29.9	0.0	0.2	0.0
10	64.8	41.6	53.2	3.1	2.3	2.5	92	67	39	11	3	1	147	185	249	377	0.0	0.1	28.1	0.0	4.8	0.0
11	50.1	29.6	39.8	5.4	4.0	4.5	11	6	3	-7777	0	0	465	521	607	755	0.0	0.0	15.3	2.0	18.4	-7777
12	36.4	18.5	27.4	5.5	5.3	5.3	-7777	-7777	-7777	0	0	0	854	916	1009	1164	0.0	0.0	4.1	10.4	27.9	2.6
Summary	61.5	40.0	50.7	4.2	3.5	3.7	2406	2072	1616	963	470	324	3925	4323	4959	6134	1.0	19.9	248.9	38.2	132.4	11.4

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Monthly Normals
1981-2010**

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MEMPHIS, MO US**

GHCND:USC00235492
Elev: 770 ft. Lat: 40.458° N Lon: 92.182° W

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	.25	.50	.75
1	1.26	4.5	2.5	0.7	0.3	0.47	1.01	2.09
2	1.26	4.4	2.7	0.6	0.2	0.47	1.07	1.65
3	2.17	6.2	4.3	1.4	0.4	0.81	1.66	3.30
4	3.75	8.8	6.7	2.5	0.8	2.94	3.63	4.56
5	4.86	8.9	7.0	3.5	1.8	3.18	4.51	5.79
6	3.83	8.0	6.2	2.9	1.4	1.76	2.78	4.71
7	4.04	6.7	5.5	2.9	1.6	2.06	3.67	4.69
8	3.71	6.8	5.4	2.6	1.2	2.25	3.62	5.06
9	3.64	6.0	4.7	2.5	1.3	1.84	2.85	4.60
10	3.08	6.0	4.4	1.6	0.7	1.52	2.54	4.59
11	2.60	5.2	3.6	1.6	0.4	1.44	1.88	3.81
12	1.61	5.4	3.5	1.2	0.3	0.82	1.54	2.01
Summary	35.81	76.9	56.5	24.0	10.4	19.56	30.76	46.86

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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **MEMPHIS, MO US**

GHCND:USC00235492
 Elev: 770 ft. Lat: 40.458° N Lon: 92.182° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.6	2.1	1.6	0.7	0.1	0.0	@	@	@	@	3.0	5.0	7.0
2	5.5	2.0	1.7	0.6	0.1	-7777	@	@	@	@	0.0	5.0	7.5
3	0.7	0.5	0.4	0.0	0.0	0.0	@	@	@	@	0.0	0.0	1.5
4	-7777	0.2	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.2	0.2	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	3.8	2.2	1.6	0.5	0.1	0.0	@	@	@	@	0.0	1.4	6.7
Summary	15.9	7.2	5.4	1.8	0.3	0.0	0.0	0.0	0.0	0.0	3.0	11.4	22.7

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Station: **MEMPHIS, MO US**

GHCND:USC00235492
 Elev: 770 ft. Lat: 40.458° N Lon: 92.182° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	24	127	346	659	930	1096	1040	749	418	125	19
45	2	9	70	227	505	780	941	885	599	284	67	7
50	-7777	3	34	132	355	630	786	730	453	172	30	2
55	-7777	1	14	65	223	481	631	575	313	92	11	-7777
60	0	-7777	4	27	121	335	476	421	190	39	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	7	21	87	212	397	618	745	697	474	252	79	12

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	32	159	505	1164	2094	3190	4230	4979	5397	5522	5541
45	2	11	81	308	813	1593	2534	3419	4018	4302	4369	4376
50	0	3	37	169	524	1154	1940	2670	3123	3295	3325	3327
55	0	1	15	80	303	784	1415	1990	2303	2395	2406	2406
60	0	0	4	31	152	487	963	1384	1574	1613	1616	1616
Growing Degree Units for Corn (Monthly)												
50/86	7	28	115	327	724	1342	2087	2784	3258	3510	3589	3601

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **FORT LEONARD WOOD, MO US**

GHCND:USC00232981
 Elev: 1068 ft. Lat: 37.748° N Lon: 92.105° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.4	19.5	31.0				1	-7777	0	0	0	0	746	808	900	1055	0.0	0.0	8.7	5.8	27.8	1.2
2	47.6	24.5	36.1				2	1	-7777	0	0	0	532	587	671	810	0.0	0.0	11.3	0.7	23.0	0.0
3	56.5	33.6	45.1				22	13	5	-7777	-7777	0	331	384	468	619	0.0	0.0	22.0	0.4	12.9	0.0
4	67.9	42.5	55.2				103	76	44	16	4	2	98	130	188	310	0.0	0.8	29.0	0.0	4.2	0.0
5	74.6	51.6	63.1				259	204	134	46	7	2	8	15	37	105	0.0	0.0	31.0	0.0	0.0	0.0
6	82.3	61.1	71.7				501	441	351	204	83	49	-7777	-7777	-7777	3	0.0	0.8	30.0	0.0	0.0	0.0
7	87.5	64.9	76.2				657	595	502	347	196	142	0	0	0	-7777	0.0	9.5	31.0	0.0	0.0	0.0
8	87.5	64.3	75.9				647	585	492	338	195	146	0	0	0	1	0.5	11.1	31.0	0.0	0.0	0.0
9	79.2	54.6	66.9				359	301	218	105	36	20	2	4	11	48	0.0	1.0	30.0	0.0	0.0	0.0
10	68.6	43.6	56.1				113	83	48	14	4	2	78	110	168	290	0.0	0.0	30.7	0.0	0.3	0.0
11	55.9	33.7	44.8				10	4	1	-7777	0	0	317	370	457	606	0.0	0.0	20.8	0.5	13.2	0.0
12	43.7	22.5	33.1				-7777	-7777	0	0	0	0	678	740	833	988	0.0	0.0	7.8	3.9	27.1	0.0
Summary	66.1	43.0	54.6				2674	2303	1795	1070	525	363	2790	3148	3733	4835	0.5	23.2	283.3	11.3	108.5	1.2

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FORT LEONARD WOOD, MO US**

GHCND:USC00232981
Elev: 1068 ft. Lat: 37.748° N Lon: 92.105° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	38	57	210	458	716	950	1122	1111	807	499	189	31
45	16	25	120	318	562	801	967	957	657	347	101	7
50	5	9	59	196	407	650	812	801	507	212	44	1
55	1	2	22	103	259	501	657	647	359	113	10	-7777
60	0	-7777	5	44	134	351	502	492	218	48	1	0
Growing Degree Units for Corn (Monthly)												
50/86	34	47	136	279	435	644	772	749	515	304	119	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	38	95	305	763	1479	2429	3551	4662	5469	5968	6157	6188
45	16	41	161	479	1041	1842	2809	3766	4423	4770	4871	4878
50	5	14	73	269	676	1326	2138	2939	3446	3658	3702	3703
55	1	3	25	128	387	888	1545	2192	2551	2664	2674	2674
60	0	0	5	49	183	534	1036	1528	1746	1794	1795	1795
Growing Degree Units for Corn (Monthly)												
50/86	34	81	217	496	931	1575	2347	3096	3611	3915	4034	4061

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

M indicates the value is missing

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National Climatic Data Center
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 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **BRUNSWICK, MO US**

GHCND:USC00231037
 Elev: 662 ft. Lat: 39.425° N Lon: 93.133° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	36.0	18.6	27.3	5.7	5.2	5.3	-7777	-7777	0	0	0	0	859	921	1014	1169	0.0	0.0	4.2	11.6	27.7	2.0
2	41.3	22.4	31.9	6.0	5.7	5.7	2	1	-7777	-7777	0	0	650	705	788	928	0.0	0.0	7.4	7.0	22.2	1.3
3	53.0	31.9	42.5	4.5	3.4	3.7	22	15	8	2	-7777	-7777	411	466	552	701	0.0	0.0	18.0	1.6	16.1	-7777
4	64.3	42.6	53.5	4.2	3.4	3.6	100	76	49	18	4	1	146	183	245	365	0.0	-7777	26.5	-7777	4.4	0.0
5	72.9	53.4	63.1	3.5	3.6	3.3	272	222	154	70	22	12	19	31	57	127	0.0	0.1	31.0	0.0	-7777	0.0
6	81.7	62.8	72.3	2.8	2.3	2.3	518	458	371	231	113	76	-7777	1	3	14	0.0	2.1	30.0	0.0	0.0	0.0
7	85.8	67.4	76.6	2.1	2.3	1.9	669	607	515	360	213	160	-7777	0	-7777	1	-7777	7.1	31.0	0.0	0.0	0.0
8	84.9	65.5	75.2	3.9	3.2	3.4	626	564	472	321	184	137	-7777	-7777	1	5	0.4	7.2	31.0	0.0	0.0	0.0
9	77.4	55.8	66.6	3.5	3.1	3.0	361	308	233	130	57	38	13	20	35	82	-7777	1.8	30.0	0.0	0.1	0.0
10	66.1	44.4	55.2	3.0	2.8	2.5	121	91	56	19	4	3	113	146	203	321	0.0	0.1	28.7	0.0	2.9	0.0
11	52.5	33.4	42.9	5.4	4.0	4.4	20	13	6	1	-7777	-7777	382	434	517	662	0.0	0.0	17.2	1.4	13.6	0.1
12	39.2	22.2	30.7	5.4	5.6	5.3	1	1	-7777	0	0	0	754	816	908	1063	0.0	0.0	6.0	7.8	25.1	1.6
Summary	62.9	43.4	53.2	4.2	3.7	3.7	2712	2356	1864	1152	597	427	3347	3723	4323	5438	0.4	18.4	261.0	29.4	112.1	5.0

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BRUNSWICK, MO US**

GHCND:USC00231037
Elev: 662 ft. Lat: 39.425° N Lon: 93.133° W

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	.25	.50	.75
1	1.43	5.3	3.2	0.6	0.2	0.65	1.25	2.13
2	1.77	5.8	3.6	1.1	0.5	0.94	1.47	2.46
3	2.54	7.9	5.2	1.4	0.5	1.50	2.38	3.45
4	3.48	9.7	6.5	2.6	0.8	2.31	3.25	4.29
5	5.59	11.6	8.4	3.9	1.5	3.35	4.81	7.49
6	5.47	10.0	7.1	3.4	1.7	3.44	4.83	7.75
7	4.41	8.7	6.1	3.2	1.5	2.41	3.69	6.85
8	4.07	7.9	5.0	2.4	1.1	2.22	3.51	5.82
9	3.62	7.3	5.3	2.3	1.0	2.10	2.62	4.49
10	3.29	8.3	5.5	2.2	0.7	1.62	3.04	4.50
11	2.81	7.4	5.1	1.9	0.7	1.57	2.39	3.69
12	1.93	6.4	4.0	1.4	0.3	1.03	1.84	2.51
Summary	40.41	96.3	65.0	26.4	10.5	23.14	35.08	55.43

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BRUNSWICK, MO US**

GHCND:USC00231037
Elev: 662 ft. Lat: 39.425° N Lon: 93.133° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.8	2.2	1.1	0.6	0.1	0.0	8.5	5.2	2.7	0.0	0.4	1.1	5.8
2	3.0	2.0	1.1	0.3	-7777	0.0	5.6	3.0	1.2	-7777	0.0	1.1	5.9
3	1.3	0.7	0.5	0.1	0.1	0.0	0.9	0.3	0.2	0.0	0.0	0.0	1.5
4	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.4	0.2	0.1	-7777	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.2
12	2.7	2.1	1.0	0.2	0.1	-7777	4.2	1.9	1.0	-7777	0.0	0.9	3.8
Summary	11.1	7.4	3.9	1.3	0.3	0.0	19.6	10.6	5.1	0.0	0.4	3.1	17.2

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Summary of Monthly Normals 1981-2010

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 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BRUNSWICK, MO US**

GHCND:USC00231037
 Elev: 662 ft. Lat: 39.425° N Lon: 93.133° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	46	173	413	718	968	1135	1091	798	477	176	33
45	6	19	99	285	563	817	979	936	648	336	101	12
50	2	6	51	178	412	667	824	781	501	216	50	4
55	-7777	2	22	100	272	518	669	626	361	121	20	1
60	0	-7777	8	49	154	371	515	472	233	56	6	-7777
Growing Degree Units for Corn (Monthly)												
50/86	13	31	111	243	434	657	791	747	511	279	101	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	64	237	650	1368	2336	3471	4562	5360	5837	6013	6046
45	6	25	124	409	972	1789	2768	3704	4352	4688	4789	4801
50	2	8	59	237	649	1316	2140	2921	3422	3638	3688	3692
55	0	2	24	124	396	914	1583	2209	2570	2691	2711	2712
60	0	0	8	57	211	582	1097	1569	1802	1858	1864	1864
Growing Degree Units for Corn (Monthly)												
50/86	13	44	155	398	832	1489	2280	3027	3538	3817	3918	3938

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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National Climatic Data Center
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www.ncdc.noaa.gov

Station: SALEM 10 W, MO US

GHCND:USW00023909
 Elev: 1198 ft. Lat: 37.634° N Lon: 91.723° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.8	19.2	31.0				3	1	0	0	0	0	747	807	899	1054	0.0	0.0	7.7	6.3	25.4	2.1
2	47.1	24.0	35.6				4	2	1	0	0	0	548	602	685	824	0.0	0.0	12.0	1.7	23.0	0.3
3	56.7	31.5	44.1				16	11	6	1	-7777	0	354	411	498	649	0.0	0.0	21.9	0.7	15.5	0.0
4	67.1	42.6	54.9				98	72	43	13	1	-7777	103	137	198	318	0.0	0.3	28.3	0.0	4.0	0.0
5	74.6	51.1	62.9				250	194	117	34	6	2	6	13	29	100	0.0	0.3	31.0	0.0	0.0	0.0
6	82.1	58.9	70.5				465	405	316	177	68	39	-7777	-7777	1	12	0.0	1.0	30.0	0.0	0.0	0.0
7	87.5	63.7	75.6				638	576	483	328	180	129	0	0	-7777	-7777	0.0	9.8	31.0	0.0	0.0	0.0
8	87.4	61.0	74.2				594	532	440	289	158	116	0	-7777	-7777	5	0.3	10.3	31.0	0.0	0.0	0.0
9	79.3	52.4	65.9				327	270	191	88	29	17	2	5	15	63	0.0	1.0	30.0	0.0	0.0	0.0
10	69.1	42.3	55.7				114	86	52	17	3	1	92	126	186	305	0.0	0.0	30.8	0.0	4.3	0.0
11	56.2	32.3	44.3				14	8	3	-7777	-7777	0	336	390	475	623	0.0	0.0	21.8	0.3	15.8	0.0
12	43.8	22.7	33.3				-7777	-7777	0	0	0	0	674	735	828	983	0.0	0.0	8.5	4.1	25.8	0.3
Summary	66.1	41.8	54.0				2523	2157	1652	947	445	304	2862	3226	3814	4936	0.3	22.7	284.0	13.1	113.8	2.7

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**Summary of
Monthly Normals
1981-2010**

Station: **SALEM 10 W, MO US**

GHCND:USW00023909
Elev: 1198 ft. Lat: 37.634° N Lon: 91.723° W

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	.25	.50	.75
1	2.46	@	@	@	@			
2	2.96	@	@	@	@			
3	3.90	@	@	@	@			
4	5.21	@	@	@	@			
5	4.89	@	@	@	@			
6	4.71	@	@	@	@			
7	4.06	@	@	@	@			
8	3.35	@	@	@	@			
9	4.13	@	@	@	@			
10	3.67	@	@	@	@			
11	4.48	@	@	@	@			
12	3.26	@	@	@	@			
Summary	47.08	0.0	0.0	0.0	0.0			

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 Asheville, North Carolina 28801
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Station: SALEM 10 W, MO US

GHCND:USW00023909
 Elev: 1198 ft. Lat: 37.634° N Lon: 91.723° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	52	65	190	447	708	915	1102	1059	775	487	179	34
45	25	32	100	307	554	765	948	904	625	339	98	9
50	11	13	44	187	399	615	793	749	476	207	45	2
55	3	4	16	98	250	465	638	594	327	114	14	-7777
60	0	1	6	43	117	316	483	440	191	52	3	0
Growing Degree Units for Corn (Monthly)												
50/86	39	51	140	273	429	612	750	699	498	312	122	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	52	117	307	754	1462	2377	3479	4538	5313	5800	5979	6013
45	25	57	157	464	1018	1783	2731	3635	4260	4599	4697	4706
50	11	24	68	255	654	1269	2062	2811	3287	3494	3539	3541
55	3	7	23	121	371	836	1474	2068	2395	2509	2523	2523
60	0	1	7	50	167	483	966	1406	1597	1649	1652	1652
Growing Degree Units for Corn (Monthly)												
50/86	39	90	230	503	932	1544	2294	2993	3491	3803	3925	3952

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SWEET SPRINGS, MO US**

GHCND:USC00238223
 Elev: 675 ft. Lat: 38.966° N Lon: 93.420° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.0	18.0	28.0	5.5	4.8	5.0	-7777	-7777	-7777	0	0	0	837	899	992	1147	0.0	0.0	5.7	9.6	28.2	2.4
2	43.8	22.4	33.1	5.7	5.0	5.2	2	1	1	-7777	-7777	0	615	671	754	893	0.0	0.0	9.6	5.4	22.4	1.2
3	55.4	33.0	44.2	4.5	3.5	3.7	32	22	11	3	-7777	-7777	366	419	501	647	0.0	0.0	19.8	0.9	15.0	-7777
4	65.7	43.0	54.3	4.3	3.2	3.6	114	88	56	21	4	2	134	168	226	340	0.0	0.1	27.1	0.0	4.1	0.0
5	75.4	53.7	64.5	3.2	3.4	3.1	309	257	185	88	29	15	13	23	44	102	0.0	0.3	31.0	0.0	0.1	0.0
6	83.7	62.9	73.3	2.7	2.3	2.2	549	489	401	258	134	92	-7777	-7777	2	9	0.2	4.2	30.0	0.0	0.0	0.0
7	88.3	67.3	77.8	2.6	1.9	1.9	707	645	552	397	248	192	0	0	0	1	0.8	12.2	31.0	0.0	0.0	0.0
8	87.6	65.4	76.5	4.0	2.9	3.2	666	604	512	359	217	168	-7777	-7777	-7777	2	1.3	11.5	31.0	0.0	0.0	0.0
9	79.4	55.7	67.5	3.1	2.8	2.7	386	331	254	144	66	45	9	15	28	67	0.1	2.8	30.0	0.0	0.1	0.0
10	67.9	44.2	56.0	2.7	2.8	2.4	132	101	61	21	5	3	99	130	184	298	0.0	0.1	29.5	0.0	3.4	0.0
11	54.3	33.1	43.7	5.0	3.8	4.1	24	16	7	1	-7777	-7777	363	415	496	640	0.0	0.0	18.7	0.9	14.6	-7777
12	41.2	22.2	31.7	5.5	5.6	5.4	2	1	-7777	0	0	0	724	785	877	1032	0.0	0.0	7.5	6.6	25.1	1.4
Summary	65.1	43.4	54.2	4.1	3.5	3.5	2923	2555	2040	1292	703	517	3160	3525	4104	5178	2.4	31.2	270.9	23.4	113.0	5.0

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SWEET SPRINGS, MO US**

GHCND:USC00238223
Elev: 675 ft. Lat: 38.966° N Lon: 93.420° W

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	.25	.50	.75
1	1.55	6.3	3.4	0.8	0.3	0.76	1.57	1.92
2	1.99	6.2	4.1	1.1	0.6	1.15	1.74	2.65
3	2.88	9.2	5.8	1.7	0.6	1.85	2.68	3.80
4	4.17	10.4	6.9	2.9	1.2	2.76	4.20	5.17
5	5.51	11.7	8.2	3.5	1.6	3.74	4.86	7.78
6	4.77	10.2	7.6	3.1	1.4	2.67	4.27	6.27
7	4.76	8.9	6.1	2.9	1.5	2.29	3.33	7.28
8	4.25	8.4	5.9	2.6	1.3	2.36	3.97	5.30
9	4.45	8.0	5.9	2.8	1.2	1.87	3.60	5.39
10	3.60	9.2	6.2	2.4	0.9	1.80	3.61	4.91
11	2.82	7.9	4.7	2.1	0.8	1.57	2.39	3.03
12	2.39	7.2	4.2	1.4	0.5	1.06	2.08	3.06
Summary	43.14	103.6	69.0	27.3	11.9	23.88	38.30	56.56

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SWEET SPRINGS, MO US**

GHCND:USC00238223
Elev: 675 ft. Lat: 38.966° N Lon: 93.420° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.2	2.8	1.3	0.5	0.2	-7777	7.3	3.4	1.3	0.0	0.4	2.1	7.8
2	4.2	2.7	1.6	0.5	0.1	-7777	4.8	2.2	1.0	-7777	0.1	2.8	5.6
3	2.2	1.0	0.6	0.2	0.1	0.0	0.9	0.3	-7777	0.0	0.0	0.6	3.4
4	0.2	0.2	0.1	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.5	0.2	-7777	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.3
12	4.3	2.7	1.7	0.4	0.2	0.0	4.8	2.2	0.8	-7777	1.2	3.0	8.4
Summary	16.6	9.9	5.5	1.6	0.6	0.0	18.0	8.2	3.1	0.0	1.7	8.5	25.5

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **SWEET SPRINGS, MO US**

GHCND:USC00238223
 Elev: 675 ft. Lat: 38.966° N Lon: 93.420° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	20	54	208	439	761	999	1172	1131	827	501	190	41
45	6	24	124	309	606	849	1017	976	677	358	111	17
50	2	9	68	197	453	699	862	821	528	232	56	7
55	-7777	2	32	114	309	549	707	666	386	132	24	2
60	-7777	1	11	56	185	401	552	512	254	61	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	18	43	137	265	476	680	804	763	536	308	117	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	20	74	282	721	1482	2481	3653	4784	5611	6112	6302	6343
45	6	30	154	463	1069	1918	2935	3911	4588	4946	5057	5074
50	2	11	79	276	729	1428	2290	3111	3639	3871	3927	3934
55	0	2	34	148	457	1006	1713	2379	2765	2897	2921	2923
60	0	1	12	68	253	654	1206	1718	1972	2033	2040	2040
Growing Degree Units for Corn (Monthly)												
50/86	18	61	198	463	939	1619	2423	3186	3722	4030	4147	4174

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ROLLA UNI OF MISSOURI, MO US**

GHCND:USC00237263
Elev: 1167 ft. Lat: 37.957° N Lon: 91.776° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.5	21.2	30.9	4.9	4.9	4.7	2	1	-7777	0	0	0	751	812	904	1058	0.0	0.0	7.6	8.0	25.8	1.7
2	45.7	24.8	35.3	4.8	5.0	4.8	4	3	1	-7777	-7777	0	557	612	694	833	0.0	0.0	10.7	4.8	20.9	0.7
3	55.7	33.7	44.7	4.1	3.3	3.6	36	26	14	4	-7777	-7777	355	407	489	633	0.0	0.0	20.2	1.1	14.2	0.0
4	66.9	44.4	55.7	4.1	3.6	3.7	136	107	71	30	8	4	117	148	202	310	0.0	0.2	27.2	0.0	2.8	0.0
5	75.4	54.6	65.0	3.1	3.3	3.1	322	269	196	97	35	19	12	21	41	97	0.0	0.6	30.9	0.0	0.0	0.0
6	83.5	63.5	73.5	2.9	2.2	2.5	555	496	407	265	141	99	-7777	1	2	10	0.0	4.5	30.0	0.0	0.0	0.0
7	88.5	68.0	78.3	2.5	1.8	2.0	721	659	566	411	261	205	0	0	-7777	1	0.8	13.6	31.0	0.0	0.0	0.0
8	88.1	66.5	77.3	3.6	3.0	3.2	691	629	536	383	238	185	-7777	-7777	-7777	2	1.0	13.1	31.0	0.0	0.0	0.0
9	79.7	57.4	68.6	2.8	2.7	2.6	415	360	281	164	77	52	8	13	24	57	0.0	3.1	30.0	0.0	0.0	0.0
10	68.5	46.2	57.3	3.2	2.9	2.8	158	123	80	30	7	3	86	112	162	267	0.0	-7777	29.7	0.0	1.3	0.0
11	55.8	35.9	45.9	4.9	3.8	4.2	39	27	15	4	-7777	-7777	313	362	439	578	0.0	0.0	19.6	0.7	11.1	0.0
12	43.1	24.5	33.8	5.5	5.7	5.5	4	2	1	-7777	0	0	661	721	813	967	0.0	0.0	9.2	5.8	23.8	1.2
Summary	66.0	45.1	55.5	3.9	3.5	3.6	3083	2702	2168	1388	767	567	2860	3209	3770	4813	1.8	35.1	277.1	20.4	99.9	3.6

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Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **ROLLA UNI OF MISSOURI, MO US**

GHCND:USC00237263

Elev: 1167 ft. Lat: 37.957° N Lon: 91.776° W

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	.25	.50	.75
1	2.56	8.7	4.4	1.5	0.7	1.54	2.14	3.78
2	2.55	9.1	4.9	1.6	0.5	1.67	2.19	3.20
3	3.91	11.3	7.3	2.5	0.8	2.44	3.31	4.74
4	4.39	11.5	7.6	3.2	1.2	2.65	4.02	5.58
5	5.50	12.6	8.3	3.9	1.6	3.70	5.05	6.63
6	4.84	10.8	7.2	3.5	1.4	3.09	4.51	5.11
7	4.77	9.5	6.2	3.1	1.6	2.44	3.94	6.58
8	4.08	8.6	5.3	2.7	1.4	2.26	3.92	5.35
9	4.30	8.2	5.5	2.8	1.3	2.21	3.31	6.01
10	3.66	9.6	5.9	2.5	0.9	2.50	2.97	4.65
11	4.36	10.0	6.6	3.1	1.3	2.28	3.65	6.54
12	3.30	9.6	5.7	2.0	0.9	1.50	3.03	4.09
Summary	48.22	119.5	74.9	32.4	13.6	28.28	42.04	62.26

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Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ROLLA UNI OF MISSOURI, MO US**

GHCND:USC00237263
Elev: 1167 ft. Lat: 37.957° N Lon: 91.776° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.8	4.5	1.8	0.6	0.2	0.0	7.6	3.9	1.7	0.1	2.3	5.3	8.0
2	5.0	4.7	1.3	0.4	0.2	0.0	5.2	2.3	1.5	0.1	2.1	3.0	7.8
3	2.5	2.2	0.8	0.2	0.1	-7777	1.6	0.7	0.3	0.1	0.1	1.2	2.7
4	0.2	0.4	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
5	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	0.1	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	1.0	0.9	0.3	0.1	-7777	0.0	0.6	0.2	0.1	0.0	0.0	0.1	1.0
12	4.3	4.0	1.4	0.5	0.1	0.0	5.7	3.3	1.3	-7777	0.6	3.1	7.5
Summary	18.9	16.8	5.7	1.8	0.6	0.0	20.8	10.4	4.9	0.3	5.1	12.7	27.1

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 Monthly Normals
 1981-2010**

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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ROLLA UNI OF MISSOURI, MO US**

GHCND:USC00237263
 Elev: 1167 ft. Lat: 37.957° N Lon: 91.776° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	46	77	222	476	775	1005	1185	1156	856	541	239	64
45	20	37	135	344	620	855	1031	1001	707	395	150	30
50	7	14	74	228	467	705	876	846	558	264	81	13
55	2	4	36	136	322	555	721	691	415	158	39	4
60	-7777	1	14	71	196	407	566	536	281	80	15	1
Growing Degree Units for Corn (Monthly)												
50/86	32	53	142	286	483	684	815	784	556	324	137	39

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	46	123	345	821	1596	2601	3786	4942	5798	6339	6578	6642
45	20	57	192	536	1156	2011	3042	4043	4750	5145	5295	5325
50	7	21	95	323	790	1495	2371	3217	3775	4039	4120	4133
55	2	6	42	178	500	1055	1776	2467	2882	3040	3079	3083
60	0	1	15	86	282	689	1255	1791	2072	2152	2167	2168
Growing Degree Units for Corn (Monthly)												
50/86	32	85	227	513	996	1680	2495	3279	3835	4159	4296	4335

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: GROVESPRING 1 NE, MO US

GHCND:USC00233483
 Elev: 1388 ft. Lat: 37.408° N Lon: 92.593° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.4	20.6	31.5	4.9	4.3	4.4	2	1	-7777	0	0	0	730	791	883	1038	0.0	0.0	8.6	6.7	26.4	1.6
2	46.9	24.6	35.8	4.6	4.6	4.5	5	3	1	-7777	0	0	544	597	680	819	0.0	0.0	11.6	4.0	20.7	1.0
3	56.7	33.2	45.0	4.0	3.4	3.6	36	24	12	3	-7777	-7777	347	398	479	624	0.0	0.0	21.1	0.9	14.4	0.0
4	67.9	43.1	55.5	4.0	3.2	3.4	130	100	64	23	4	1	115	145	199	308	0.0	0.1	28.2	0.0	4.6	0.0
5	74.8	52.5	63.7	2.8	3.0	2.8	285	234	166	76	23	12	17	28	53	118	0.0	0.1	31.0	0.0	0.1	0.0
6	82.6	61.3	71.9	2.8	2.5	2.4	509	450	362	224	109	72	1	1	4	16	0.0	2.8	30.0	0.0	0.0	0.0
7	87.6	65.7	76.6	1.6	2.2	1.7	671	609	516	363	216	163	0	-7777	-7777	2	0.2	10.6	31.0	0.0	0.0	0.0
8	87.8	64.1	76.0	3.5	2.8	3.0	649	587	495	342	201	152	0	-7777	-7777	3	0.2	12.4	31.0	0.0	0.0	0.0
9	79.6	55.1	67.3	2.9	2.8	2.6	383	329	253	145	64	41	12	19	33	74	0.2	2.6	29.9	0.0	0.2	0.0
10	68.7	44.1	56.4	3.1	2.6	2.4	140	107	66	22	4	1	97	125	177	288	0.0	0.0	29.9	0.0	4.1	0.0
11	56.6	35.0	45.8	4.8	3.4	3.8	37	25	13	4	-7777	-7777	313	361	439	580	0.0	0.0	20.2	0.5	12.5	0.0
12	44.3	24.2	34.2	5.7	5.1	5.3	5	3	1	-7777	0	0	648	707	799	953	0.0	0.0	9.9	5.1	23.7	1.0
Summary	66.3	43.6	55.0	3.7	3.3	3.3	2852	2472	1949	1202	621	442	2824	3172	3746	4823	0.6	28.6	282.4	17.2	106.7	3.6

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: GROVESPRING 1 NE, MO US

GHCND:USC00233483
Elev: 1388 ft. Lat: 37.408° N Lon: 92.593° W

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	.25	.50	.75
1	2.32	6.4	4.0	1.6	0.6	1.24	1.95	3.15
2	2.43	6.1	4.0	1.7	0.5	1.58	2.19	3.80
3	3.52	8.8	6.5	2.3	0.8	2.40	2.95	4.38
4	4.03	10.3	6.6	2.9	1.5	2.51	3.72	4.85
5	5.10	11.4	7.8	3.0	1.3	3.53	4.60	5.89
6	4.50	10.8	8.0	3.5	1.7	1.88	4.14	6.00
7	3.62	7.9	5.7	2.0	0.9	2.44	3.47	4.49
8	2.99	7.1	5.1	2.2	1.1	1.77	2.80	3.95
9	3.58	7.2	5.0	2.5	1.1	1.72	3.61	5.11
10	3.23	8.5	5.6	2.4	0.9	2.19	2.92	3.93
11	4.18	9.2	6.7	3.4	1.1	1.96	4.04	5.83
12	3.59	7.2	5.0	2.0	0.9	1.58	2.77	4.33
Summary	43.09	100.9	70.0	29.5	12.4	24.80	39.16	55.71

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Station: GROVESPRING 1 NE, MO US

GHCND:USC00233483
Elev: 1388 ft. Lat: 37.408° N Lon: 92.593° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	7.1	2.4	1.7	0.8	0.3	0.0	@	@	@	@	4.5	7.7	10.0
2	4.5	1.8	1.3	0.5	0.2	0.1	@	@	@	@	0.0	2.9	8.0
3	2.1	1.0	0.5	0.3	0.2	0.0	@	@	@	@	0.0	0.3	2.0
4	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	1.0	0.5	0.3	-7777	-7777	0.0	@	@	@	@	0.0	0.0	1.5
12	3.7	2.0	1.3	0.6	0.3	0.1	@	@	@	@	0.0	0.0	5.0
Summary	18.6	7.7	5.1	2.2	1.0	0.2	0.0	0.0	0.0	0.0	4.5	10.9	26.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: GROVESPRING 1 NE, MO US

GHCND:USC00233483
Elev: 1388 ft. Lat: 37.408° N Lon: 92.593° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	48	78	228	471	733	958	1136	1114	820	513	239	67
45	20	37	139	338	578	808	981	959	671	370	150	33
50	7	14	77	223	426	658	826	804	524	243	81	14
55	2	5	36	130	285	509	671	649	383	140	37	5
60	-7777	1	12	64	166	362	516	495	253	66	13	1
Growing Degree Units for Corn (Monthly)												
50/86	38	56	151	296	458	647	778	748	535	321	144	44

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	48	126	354	825	1558	2516	3652	4766	5586	6099	6338	6405
45	20	57	196	534	1112	1920	2901	3860	4531	4901	5051	5084
50	7	21	98	321	747	1405	2231	3035	3559	3802	3883	3897
55	2	7	43	173	458	967	1638	2287	2670	2810	2847	2852
60	0	1	13	77	243	605	1121	1616	1869	1935	1948	1949
Growing Degree Units for Corn (Monthly)												
50/86	38	94	245	541	999	1646	2424	3172	3707	4028	4172	4216

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

M indicates the value is missing

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **VALLEY PARK, MO US**

GHCND:USC00238561
 Elev: 531 ft. Lat: 38.557° N Lon: 90.492° W

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	.25	.50	.75
1	2.76	6.5	4.7	1.8	0.7	1.34	2.02	3.75
2	2.44	6.4	4.6	1.5	0.5	1.25	2.16	3.91
3	3.59	9.0	6.8	2.5	0.7	2.42	3.40	4.34
4	4.14	9.6	7.4	2.9	0.9	2.35	3.77	4.92
5	5.17	10.0	8.1	3.5	1.7	3.32	4.10	6.29
6	4.48	8.3	6.9	2.9	1.5	2.70	4.30	5.95
7	4.49	7.2	5.9	2.9	1.5	2.48	3.81	6.29
8	3.53	6.8	5.7	2.2	1.1	1.86	3.15	4.83
9	3.91	6.7	5.3	2.4	1.3	1.64	2.40	5.51
10	3.54	7.9	6.1	2.5	0.7	2.22	2.96	4.54
11	4.42	8.4	6.8	3.3	1.2	2.07	3.84	6.81
12	3.27	7.8	5.8	2.2	1.0	1.87	2.64	3.90
Summary	45.74	94.6	74.1	30.6	12.8	25.52	38.55	61.04

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 www.ncdc.noaa.gov

Station: **VALLEY PARK, MO US**

GHCND:USC00238561
 Elev: 531 ft. Lat: 38.557° N Lon: 90.492° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.4	1.8	1.5	0.5	0.2	-7777	5.5	3.0	1.6	-7777	0.6	2.9	6.0
2	4.0	1.6	1.3	0.4	0.3	-7777	3.3	1.7	1.2	0.7	1.0	2.0	5.0
3	1.7	0.7	0.6	0.2	0.1	0.0	0.8	0.4	0.2	-7777	0.0	0.0	2.9
4	0.3	0.1	0.1	-7777	-7777	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.8	0.4	0.3	0.1	-7777	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.7
12	3.7	1.7	1.2	0.5	0.3	0.0	4.0	2.6	1.2	0.0	0.0	1.4	6.5
Summary	14.9	6.3	5.0	1.7	0.9	0.0	14.0	7.8	4.2	0.7	1.6	6.3	21.1

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **GREENVILLE 6 N, MO US**

GHCND:USC00233451
Elev: 490 ft. Lat: 37.200° N Lon: 90.450° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.9	20.3	31.6	4.2	4.0	3.8	1	1	-7777	-7777	0	0	726	787	880	1035	0.0	0.0	8.4	4.4	26.6	1.2
2	48.9	23.5	36.2	4.4	4.8	4.5	3	2	1	-7777	0	0	529	584	667	806	0.0	0.0	13.8	2.8	21.1	1.3
3	58.7	33.2	46.0	3.7	2.4	2.7	35	25	14	3	-7777	-7777	316	368	450	594	0.0	0.0	23.4	0.2	15.3	0.0
4	70.1	41.7	55.9	3.7	3.2	3.2	124	94	58	19	3	1	98	127	181	292	0.0	0.2	29.0	0.0	6.0	0.0
5	76.7	51.0	63.9	2.6	3.8	3.0	287	234	162	71	19	9	13	21	42	106	0.0	0.1	31.0	0.0	0.4	0.0
6	85.6	59.5	72.5	2.6	2.5	2.2	527	467	379	240	118	79	-7777	1	3	13	0.2	5.6	30.0	0.0	0.0	0.0
7	88.8	64.0	76.4	1.9	2.1	1.7	663	601	508	354	205	151	0	-7777	-7777	1	0.5	12.5	31.0	0.0	0.0	0.0
8	88.3	62.0	75.1	3.5	2.1	2.7	624	562	470	318	178	130	-7777	-7777	-7777	3	0.6	12.4	31.0	0.0	0.0	0.0
9	81.0	54.5	67.7	2.8	2.1	2.1	390	335	258	147	66	42	8	13	25	65	0.0	2.7	30.0	0.0	0.0	0.0
10	70.5	41.8	56.2	3.0	3.2	2.5	130	99	62	22	5	3	94	125	181	296	0.0	0.0	30.7	0.0	6.5	0.0
11	58.3	32.8	45.6	4.3	2.6	3.1	31	20	9	1	-7777	-7777	315	364	442	585	0.0	0.0	22.3	0.2	15.2	0.0
12	46.0	23.8	34.9	4.9	5.4	4.9	4	3	1	-7777	0	0	627	687	779	933	0.0	0.0	12.4	3.9	23.1	0.9
Summary	68.0	42.3	55.2	3.5	3.2	3.0	2819	2443	1922	1175	594	415	2726	3077	3650	4729	1.3	33.5	293.0	11.5	114.2	3.4

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **GREENVILLE 6 N, MO US**

GHCND:USC00233451

Elev: 490 ft. Lat: 37.200° N Lon: 90.450° W

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	.25	.50	.75
1	3.09	7.0	5.2	2.1	1.0	1.13	3.11	3.94
2	3.13	7.9	6.1	2.6	0.7	1.96	2.87	4.00
3	3.98	9.7	7.1	2.3	1.2	2.72	3.41	4.48
4	4.37	10.3	7.7	2.9	1.1	3.20	4.03	5.11
5	4.94	10.7	7.9	3.1	1.0	3.02	4.89	6.21
6	3.28	8.4	6.0	2.5	1.0	1.80	2.86	4.55
7	4.67	7.9	6.2	2.7	1.3	2.96	4.60	6.41
8	3.44	7.4	5.5	2.8	1.2	2.42	3.22	4.09
9	3.84	7.0	4.9	2.4	0.9	2.17	3.06	4.79
10	3.76	8.8	6.9	2.7	0.9	1.88	2.92	4.96
11	4.95	9.8	7.2	3.5	1.9	2.66	4.90	6.72
12	4.53	9.3	7.2	3.0	1.2	2.35	3.27	6.02
Summary	47.98	104.2	77.9	32.6	13.4	28.27	43.14	61.28

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Summary of Monthly Normals 1981-2010

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Asheville, North Carolina 28801
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Station: **GREENVILLE 6 N, MO US**

GHCND:USC00233451
Elev: 490 ft. Lat: 37.200° N Lon: 90.450° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	31	78	241	482	740	976	1128	1089	832	504	226	65
45	12	35	146	344	585	826	973	934	682	358	138	28
50	4	12	79	223	432	676	818	779	534	230	72	11
55	1	3	35	124	287	527	663	624	390	130	31	4
60	-7777	1	14	58	162	379	508	470	258	62	9	1
Growing Degree Units for Corn (Monthly)												
50/86	30	66	167	319	479	654	762	724	549	345	156	46

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	31	109	350	832	1572	2548	3676	4765	5597	6101	6327	6392
45	12	47	193	537	1122	1948	2921	3855	4537	4895	5033	5061
50	4	16	95	318	750	1426	2244	3023	3557	3787	3859	3870
55	1	4	39	163	450	977	1640	2264	2654	2784	2815	2819
60	0	1	15	73	235	614	1122	1592	1850	1912	1921	1922
Growing Degree Units for Corn (Monthly)												
50/86	30	96	263	582	1061	1715	2477	3201	3750	4095	4251	4297

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

M indicates the value is missing

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**Summary of
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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HOUSTON 2 W, MO US**

GHCND:USC00234023
Elev: 1075 ft. Lat: 37.334° N Lon: 92.006° W

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	.25	.50	.75
1	2.43	6.4	4.9	1.6	0.7	1.27	2.12	3.87
2	2.78	6.1	5.1	2.0	0.7	1.51	2.37	3.90
3	3.94	8.0	7.0	3.0	0.8	2.63	3.41	5.32
4	4.36	8.4	7.1	2.7	1.3	2.68	4.19	5.68
5	5.09	9.0	7.5	3.7	1.4	3.82	4.60	5.61
6	3.89	8.2	6.6	2.9	1.1	2.36	3.34	4.68
7	3.69	6.9	5.8	2.6	1.1	2.35	3.61	4.62
8	3.14	6.1	5.0	2.3	1.1	2.13	2.97	3.81
9	4.42	5.9	5.1	2.6	1.4	1.96	3.95	6.06
10	3.49	6.6	5.7	2.6	1.0	1.82	3.22	4.85
11	4.40	6.9	5.8	3.2	1.4	2.15	3.89	5.90
12	3.28	6.5	5.2	2.2	1.0	1.71	3.07	4.18
Summary	44.91	85.0	70.8	31.4	13.0	26.39	40.74	58.48

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**Summary of
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 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **HOUSTON 2 W, MO US**

GHCND:USC00234023
 Elev: 1075 ft. Lat: 37.334° N Lon: 92.006° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	6.1	2.1	2.0	0.8	0.3	-7777	@	@	@	@	2.0	4.0	8.0
2	4.3	1.7	1.6	0.5	0.1	0.0	@	@	@	@	1.0	3.0	5.5
3	2.1	0.7	0.6	0.3	0.2	-7777	@	@	@	@	0.0	0.0	4.0
4	0.0	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.3	0.2	0.2	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	4.5	1.7	1.5	0.4	0.1	0.0	@	@	@	@	0.0	2.0	7.0
Summary	17.4	6.4	5.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0	3.0	9.0	24.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WACO, MO US**

GHCND:USC00238664
 Elev: 899 ft. Lat: 37.290° N Lon: 94.604° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.9	24.0	33.5				3	2	1	-7777	0	0	671	732	823	978	0.0	0.0	9.7	6.9	24.4	0.6
2	48.3	27.0	37.7				8	5	1	0	0	0	493	546	627	766	0.0	0.0	12.5	2.7	20.0	0.0
3	57.8	35.4	46.6				35	23	11	2	-7777	0	295	346	427	572	0.0	0.0	22.8	0.5	12.3	0.0
4	67.8	45.3	56.6				142	110	68	24	6	3	96	123	171	278	0.0	0.1	28.2	0.0	2.7	0.0
5	76.2	56.4	66.3				355	297	216	105	34	18	5	9	21	65	0.0	0.1	31.0	0.0	0.0	0.0
6	84.9	64.8	74.9				595	535	445	300	164	117	0	-7777	-7777	4	0.1	4.8	30.0	0.0	0.0	0.0
7	89.5	69.2	79.4				755	693	599	445	292	233	0	0	0	-7777	0.4	15.0	31.0	0.0	0.0	0.0
8	90.6	67.4	79.0				743	681	588	434	286	231	0	-7777	-7777	1	2.8	17.0	31.0	0.0	0.0	0.0
9	81.8	57.8	69.8				446	389	307	181	85	57	3	5	13	37	0.3	4.2	30.0	0.0	0.0	0.0
10	70.7	46.6	58.7				170	133	86	34	10	5	57	82	128	231	0.0	0.4	31.0	0.0	1.0	0.0
11	58.5	36.9	47.7				41	27	13	3	-7777	-7777	260	306	382	522	0.0	0.0	22.8	0.1	9.7	0.0
12	45.5	25.7	35.6				2	1	-7777	-7777	0	0	603	664	755	911	0.0	0.0	10.1	4.2	22.8	0.0
Summary	67.9	46.4	57.2				3295	2896	2335	1528	877	664	2483	2813	3347	4365	3.6	41.6	290.1	14.4	92.9	0.6

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WACO, MO US**

GHCND:USC00238664
Elev: 899 ft. Lat: 37.290° N Lon: 94.604° W

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	.25	.50	.75
1	1.66	4.6	3.4	1.0	0.4	0.67	1.37	2.64
2	2.12	5.0	3.8	1.4	0.6	0.87	1.81	2.64
3	3.32	7.2	5.9	2.2	0.9	1.70	2.89	4.26
4	4.27	7.5	6.3	2.7	1.3	2.65	4.06	4.69
5	5.97	10.3	8.3	4.1	2.0	3.70	5.71	7.82
6	5.85	9.0	7.4	3.7	1.9	4.36	5.74	7.06
7	4.13	6.0	5.1	2.4	1.6	1.96	3.77	5.13
8	3.21	5.2	4.2	2.1	1.0	1.80	2.83	4.34
9	4.69	6.2	5.2	2.6	1.6	1.93	3.38	5.91
10	4.08	7.4	5.8	2.6	1.0	1.87	3.51	6.07
11	3.59	6.2	4.8	2.4	1.1	1.80	2.79	4.90
12	2.58	5.0	4.0	1.9	0.6	1.20	2.59	3.63
Summary	45.47	79.6	64.2	29.1	14.0	24.51	40.45	59.09

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 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **WACO, MO US**

GHCND:USC00238664
 Elev: 899 ft. Lat: 37.290° N Lon: 94.604° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.7	1.6	1.1	0.5	0.1	0.0	3.9	1.7	0.4	0.0	0.0	1.0	6.0
2	1.8	1.3	0.8	0.2	0.1	0.0	1.6	0.8	0.3	0.0	0.0	0.5	2.0
3	1.5	0.7	0.4	0.2	0.2	0.0	0.5	0.1	0.1	0.0	0.0	0.0	2.1
4	-7777	-7777	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12	3.0	1.4	0.9	0.3	0.1	0.0	2.4	1.1	0.3	0.0	0.0	1.8	4.5
Summary	9.2	5.2	3.3	1.2	0.5	0.0	8.5	3.7	1.1	0.0	0.0	3.3	14.6

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**Summary of
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 1981-2010**

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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **WACO, MO US**

GHCND:USC00238664
 Elev: 899 ft. Lat: 37.290° N Lon: 94.604° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	57	89	247	499	815	1045	1220	1209	894	578	264	66
45	24	44	146	363	661	895	1065	1054	744	428	163	28
50	9	20	77	241	506	745	910	899	594	287	88	9
55	3	8	35	142	355	595	755	743	446	170	41	2
60	1	1	11	68	216	445	599	588	307	86	13	-7777
Growing Degree Units for Corn (Monthly)												
50/86	39	63	156	298	515	723	844	810	585	353	157	41

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	57	146	393	892	1707	2752	3972	5181	6075	6653	6917	6983
45	24	68	214	577	1238	2133	3198	4252	4996	5424	5587	5615
50	9	29	106	347	853	1598	2508	3407	4001	4288	4376	4385
55	3	11	46	188	543	1138	1893	2636	3082	3252	3293	3295
60	1	2	13	81	297	742	1341	1929	2236	2322	2335	2335
Growing Degree Units for Corn (Monthly)												
50/86	39	102	258	556	1071	1794	2638	3448	4033	4386	4543	4584

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
 -7777: a non-zero value that would round to zero
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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **PLEASANT HOPE, MO US**

GHCND:USC00236749
Elev: 1127 ft. Lat: 37.490° N Lon: 93.281° W

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	.25	.50	.75
1	2.23	@	@	@	@			
2	2.34	@	@	@	@			
3	3.35	@	@	@	@			
4	4.16	@	@	@	@			
5	5.21	@	@	@	@			
6	5.07	@	@	@	@			
7	4.11	@	@	@	@			
8	4.27	@	@	@	@			
9	4.39	@	@	@	@			
10	3.76	@	@	@	@			
11	4.02	@	@	@	@			
12	2.87	@	@	@	@			
Summary	45.78	0.0	0.0	0.0	0.0			

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**Summary of
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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BLOOMFIELD, MO US**

GHCND:USC00230735
Elev: 440 ft. Lat: 36.891° N Lon: 89.931° W

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	.25	.50	.75
1	3.77	7.7	6.1	2.6	1.0	2.23	3.85	4.87
2	3.84	7.6	6.2	2.9	1.2	2.57	3.68	4.31
3	4.52	9.2	7.5	3.2	1.2	3.11	4.05	5.81
4	4.77	8.8	7.3	3.1	1.6	3.26	4.65	6.14
5	4.72	9.6	7.9	3.2	1.2	2.87	4.71	6.00
6	3.42	7.8	6.7	2.7	0.9	1.88	3.57	4.88
7	3.92	7.3	5.9	2.8	1.3	2.32	3.61	5.37
8	2.53	5.4	4.2	2.2	0.8	1.53	2.41	3.22
9	3.03	5.7	4.6	2.0	1.2	1.68	2.85	4.20
10	3.87	7.3	5.6	2.4	1.0	2.22	3.26	5.26
11	4.70	8.6	6.8	3.6	1.4	2.33	4.99	6.80
12	4.83	8.5	6.9	3.3	1.4	2.56	4.07	5.72
Summary	47.92	93.5	75.7	34.0	14.2	28.56	45.70	62.58

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Summary of Monthly Normals 1981-2010

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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **BLOOMFIELD, MO US**

GHCND:USC00230735
 Elev: 440 ft. Lat: 36.891° N Lon: 89.931° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	0.9	0.6	0.4	0.1	0.0	0.0	0.8	0.3	0.1	0.0	0.0	0.0	1.5
2	2.3	0.9	0.7	0.3	0.0	0.0	1.0	0.2	0.0	0.0	0.0	0.0	4.0
3	0.2	0.1	0.1	0.0	0.0	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
12	2.0	0.8	0.7	0.2	0.1	0.0	0.9	0.5	0.2	0.0	0.0	0.0	2.0
Summary	5.5	2.4	1.9	0.6	0.1	0.0	2.9	1.0	0.3	0.0	0.0	0.0	7.5

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1981-2010**

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MONTAUK STATE PARK, MO US**

GHCND:USC00235715
Elev: 930 ft. Lat: 37.452° N Lon: 91.682° W

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	.25	.50	.75
1	2.50	@	@	@	@			
2	2.75	@	@	@	@			
3	3.98	@	@	@	@			
4	4.19	@	@	@	@			
5	5.29	@	@	@	@			
6	4.12	@	@	@	@			
7	4.03	@	@	@	@			
8	3.60	@	@	@	@			
9	4.18	@	@	@	@			
10	3.57	@	@	@	@			
11	4.56	@	@	@	@			
12	3.24	@	@	@	@			
Summary	46.01	0.0	0.0	0.0	0.0			

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SEDALIA WATER PLANT, MO US**

GHCND:USC00237632
Elev: 780 ft. Lat: 38.675° N Lon: 93.223° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.4	18.7	28.6	5.4	4.7	4.8	1	1	-7777	0	0	0	821	882	975	1130	0.0	0.0	5.7	9.1	27.4	2.2
2	43.6	22.6	33.1	5.3	5.4	5.2	3	2	1	-7777	-7777	0	616	671	754	893	0.0	0.0	9.5	5.6	22.7	1.3
3	54.4	31.6	43.0	3.9	3.5	3.4	27	19	10	2	-7777	-7777	399	453	537	685	0.0	0.0	18.9	1.0	17.0	-7777
4	65.2	41.8	53.5	4.2	3.5	3.6	103	80	51	21	5	2	148	185	246	366	0.0	0.1	26.9	0.0	5.2	0.0
5	74.1	52.1	63.1	3.2	3.6	3.2	271	221	155	71	22	12	20	32	59	130	0.0	0.1	31.0	0.0	0.3	0.0
6	82.6	62.1	72.3	2.7	2.4	2.3	521	462	374	236	119	81	1	1	3	15	-7777	3.0	30.0	0.0	0.0	0.0
7	87.3	66.4	76.9	2.6	2.4	2.1	677	615	522	368	222	169	0	0	-7777	1	0.5	10.6	31.0	0.0	0.0	0.0
8	86.8	64.1	75.4	3.9	3.0	3.2	634	572	479	328	192	146	-7777	-7777	1	4	0.7	10.6	31.0	0.0	0.0	0.0
9	78.5	54.7	66.6	3.0	3.0	2.7	362	309	234	130	58	38	14	21	36	82	0.1	2.3	30.0	0.0	0.2	0.0
10	67.4	43.0	55.2	3.0	3.2	2.6	121	92	56	19	4	3	115	148	205	323	0.0	-7777	29.3	0.0	4.4	0.0
11	54.1	32.8	43.5	4.9	3.6	3.8	25	17	8	1	-7777	-7777	371	423	505	648	0.0	0.0	18.2	1.0	15.0	0.1
12	41.2	22.2	31.7	5.8	5.6	5.6	3	2	1	-7777	0	0	725	786	878	1032	0.0	0.0	8.1	6.8	25.7	1.3
Summary	64.5	42.7	53.6	4.0	3.7	3.5	2748	2392	1891	1176	622	451	3230	3602	4199	5309	1.3	26.7	269.6	23.5	117.9	4.9

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**Summary of
Monthly Normals
1981-2010**Station: **SEDALIA WATER PLANT, MO US**

GHCND:USC00237632

Elev: 780 ft. Lat: 38.675° N Lon: 93.223° W

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	.25	.50	.75
1	1.56	6.6	3.4	0.7	0.3	0.71	1.42	2.31
2	2.09	6.5	3.7	1.2	0.4	1.16	1.68	2.40
3	2.82	9.0	6.2	1.9	0.5	1.89	2.53	3.97
4	4.28	10.6	7.2	2.8	1.4	2.83	4.20	5.22
5	5.56	11.9	7.8	3.7	1.8	2.48	6.03	7.65
6	5.63	9.8	7.3	3.7	1.8	2.61	4.34	7.75
7	5.03	8.3	6.4	3.0	1.5	1.87	3.67	6.70
8	3.70	7.6	5.2	2.4	1.1	1.75	2.69	5.50
9	4.29	7.6	5.6	2.7	1.4	2.08	3.36	4.75
10	3.58	8.9	5.8	2.2	1.0	2.16	2.94	4.47
11	3.31	7.7	5.4	2.1	1.1	1.74	2.69	3.50
12	2.45	7.4	4.6	1.8	0.5	1.15	2.19	3.28
Summary	44.30	101.9	68.6	28.2	12.8	22.43	37.74	57.50

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National Oceanic & Atmospheric Administration
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SEDALIA WATER PLANT, MO US**

GHCND:USC00237632
Elev: 780 ft. Lat: 38.675° N Lon: 93.223° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.5	1.6	1.2	0.4	0.1	0.0	2.0	0.6	0.0	0.0	0.0	0.5	7.1
2	2.6	1.3	1.0	0.4	0.1	0.0	3.2	1.1	0.7	0.0	0.0	0.2	4.1
3	1.6	0.5	0.2	0.1	0.1	0.0	0.6	0.3	0.1	0.0	0.0	0.0	2.4
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	3.4	1.2	0.8	0.2	0.1	-7777	2.9	1.6	1.1	0.3	0.0	1.1	4.0
Summary	11.2	4.7	3.3	1.1	0.4	0.0	8.7	3.6	1.9	0.3	0.0	1.8	17.6

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Summary of Monthly Normals 1981-2010

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SEDALIA WATER PLANT, MO US**

GHCND:USC00237632
Elev: 780 ft. Lat: 38.675° N Lon: 93.223° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	25	53	184	414	716	970	1142	1099	798	476	187	44
45	9	23	107	287	562	820	987	944	648	336	110	20
50	3	9	58	181	410	670	832	789	501	216	56	8
55	1	3	27	103	271	521	677	634	362	121	25	3
60	-7777	1	10	51	155	374	522	479	234	56	8	1
Growing Degree Units for Corn (Monthly)												
50/86	20	42	127	256	444	656	784	738	515	297	117	29

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	25	78	262	676	1392	2362	3504	4603	5401	5877	6064	6108
45	9	32	139	426	988	1808	2795	3739	4387	4723	4833	4853
50	3	12	70	251	661	1331	2163	2952	3453	3669	3725	3733
55	1	4	31	134	405	926	1603	2237	2599	2720	2745	2748
60	0	1	11	62	217	591	1113	1592	1826	1882	1890	1891
Growing Degree Units for Corn (Monthly)												
50/86	20	62	189	445	889	1545	2329	3067	3582	3879	3996	4025

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

M indicates the value is missing

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**

GHCND:USC00230539

Elev: 1085 ft. Lat: 37.690° N Lon: 90.780° W

Station: BELLEVIEW, MO US

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	.25	.50	.75
1	2.51	6.5	4.7	2.1	0.8	1.21	2.20	3.43
2	2.75	6.7	5.0	1.7	0.6	1.68	2.56	3.47
3	3.76	8.5	6.8	2.4	0.8	2.44	3.07	4.64
4	4.63	9.1	7.5	3.0	1.3	3.25	4.12	4.78
5	5.27	10.2	7.2	3.5	1.3	3.23	5.06	7.14
6	3.88	9.4	6.3	2.9	1.4	2.41	3.34	5.21
7	4.00	7.1	5.7	2.5	1.0	1.96	3.45	5.45
8	3.53	6.8	5.3	2.3	0.9	2.32	2.67	4.35
9	4.23	6.6	4.9	2.7	1.2	1.98	3.66	6.72
10	3.64	7.8	5.6	2.7	1.0	1.98	3.13	4.73
11	4.57	9.0	6.9	3.6	1.9	1.98	4.07	6.55
12	3.54	7.5	5.8	2.4	1.1	1.43	2.61	5.71
Summary	46.31	95.2	71.7	31.8	13.3	25.87	39.94	62.18

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**

Station: BELLEVIEW, MO US

GHCND:USC00230539

Elev: 1085 ft. Lat: 37.690° N Lon: 90.780° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.9	2.1	1.8	0.6	0.3	0.0	@	@	@	@	2.0	2.8	10.0
2	4.4	2.0	1.5	0.5	0.3	0.0	@	@	@	@	0.0	2.5	7.0
3	1.8	0.5	0.4	0.2	0.1	0.1	@	@	@	@	0.0	0.0	4.0
4	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.6	0.3	0.2	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	2.8	1.3	1.0	0.3	0.1	0.0	@	@	@	@	0.0	2.0	5.6
Summary	14.7	6.4	5.1	1.7	0.8	0.1	0.0	0.0	0.0	0.0	2.0	7.3	26.6

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Station: **ST PETERS 2 SSE, MO US**

GHCND:USC00237475
 Elev: 554 ft. Lat: 38.756° N Lon: 90.610° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.0	20.1	29.5	5.3	5.0	4.9	1	1	-7777	0	0	0	790	851	944	1099	0.0	0.0	5.9	8.6	26.7	1.5
2	44.8	23.8	34.3	5.4	4.9	5.0	3	2	1	-7777	0	0	583	637	720	860	0.0	0.0	9.5	4.7	21.9	0.6
3	55.3	32.9	44.1	4.2	3.0	3.5	31	23	13	4	1	-7777	369	423	506	652	0.0	0.0	19.5	0.7	15.1	0.0
4	67.3	43.5	55.4	4.2	3.6	3.7	132	104	69	28	7	3	120	152	207	316	0.0	0.4	27.6	0.0	3.2	0.0
5	76.2	53.0	64.6	3.4	3.7	3.4	312	260	187	92	32	19	15	24	45	104	0.0	0.9	31.0	0.0	0.0	0.0
6	84.7	62.6	73.6	2.9	2.2	2.4	560	500	412	270	146	106	-7777	1	2	11	0.1	6.8	30.0	0.0	0.0	0.0
7	88.9	67.1	78.0	2.5	1.9	2.0	713	651	558	403	253	198	0	0	-7777	-7777	0.6	13.7	31.0	0.0	0.0	0.0
8	88.2	65.1	76.7	3.3	3.1	3.0	671	609	516	363	221	171	0	0	-7777	2	1.2	12.5	31.0	0.0	0.0	0.0
9	80.4	56.2	68.3	2.8	2.8	2.7	407	352	274	160	75	52	8	13	25	61	0.2	3.6	30.0	0.0	0.0	0.0
10	68.7	44.7	56.7	2.8	2.7	2.4	142	109	68	26	6	3	90	118	171	283	0.0	0.1	29.8	0.0	1.9	0.0
11	55.7	34.6	45.2	4.7	3.5	3.9	32	22	11	3	-7777	-7777	327	377	457	598	0.0	0.0	19.4	0.7	12.5	0.0
12	42.0	23.7	32.9	5.9	5.8	5.7	3	1	1	-7777	0	0	689	750	842	996	0.0	0.0	8.7	6.1	23.8	1.3
Summary	65.9	43.9	54.9	4.0	3.5	3.6	3007	2634	2110	1349	741	552	2991	3346	3919	4982	2.1	38.0	273.4	20.8	105.1	3.4

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Station: **ST PETERS 2 SSE, MO US**

GHCND:USC00237475
Elev: 554 ft. Lat: 38.756° N Lon: 90.610° W

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	.25	.50	.75
1	2.18	7.1	3.5	1.5	0.5	1.13	1.78	2.98
2	2.39	8.0	4.7	1.5	0.4	1.26	2.27	3.79
3	3.33	10.6	6.7	2.2	0.7	2.55	3.05	3.86
4	3.98	11.1	6.7	2.9	1.0	2.52	3.41	4.92
5	4.92	11.9	7.5	3.0	1.5	2.80	4.15	6.43
6	3.89	9.6	5.9	2.5	1.1	1.95	3.25	5.71
7	4.33	9.0	5.8	3.1	1.4	2.60	3.78	6.01
8	3.13	8.3	5.4	2.4	1.0	1.87	3.10	4.48
9	3.25	7.7	5.0	2.4	0.9	1.28	2.71	4.11
10	3.18	8.5	5.5	2.0	0.7	1.57	2.55	4.27
11	3.67	9.7	6.9	2.7	0.9	1.85	3.18	5.48
12	3.05	8.9	5.4	2.1	1.0	1.67	2.75	3.72
Summary	41.30	110.4	69.0	28.3	11.1	23.05	35.98	55.76

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Station: **ST PETERS 2 SSE, MO US**

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Elev: 554 ft. Lat: 38.756° N Lon: 90.610° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.2	2.5	1.3	0.5	0.2	-7777	5.7	2.2	0.7	0.1	0.7	2.7	5.0
2	4.6	2.7	1.5	0.5	0.3	0.0	4.9	2.5	1.5	0.5	1.4	3.2	6.9
3	1.7	1.1	0.7	0.1	0.1	-7777	1.5	0.8	0.4	0.1	0.0	0.2	2.6
4	0.2	0.1	0.1	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.8	0.3	0.3	0.1	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.1
12	4.0	2.5	1.2	0.6	0.2	0.0	5.1	2.9	1.2	0.0	0.2	3.7	6.6
Summary	15.5	9.2	5.1	1.8	0.8	0.0	17.6	8.7	3.8	0.7	2.3	9.8	21.2

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Station: **ST PETERS 2 SSE, MO US**

GHCND:USC00237475
 Elev: 554 ft. Lat: 38.756° N Lon: 90.610° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	34	66	205	468	763	1009	1178	1136	849	521	220	56
45	13	32	122	335	608	859	1023	981	699	375	133	24
50	4	12	64	220	455	709	868	826	550	246	71	9
55	1	3	31	132	312	560	713	671	407	142	32	3
60	-7777	1	13	69	187	412	558	516	274	68	11	1
Growing Degree Units for Corn (Monthly)												
50/86	25	48	134	285	479	681	804	764	549	319	131	33

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	34	100	305	773	1536	2545	3723	4859	5708	6229	6449	6505
45	13	45	167	502	1110	1969	2992	3973	4672	5047	5180	5204
50	4	16	80	300	755	1464	2332	3158	3708	3954	4025	4034
55	1	4	35	167	479	1039	1752	2423	2830	2972	3004	3007
60	0	1	14	83	270	682	1240	1756	2030	2098	2109	2110
Growing Degree Units for Corn (Monthly)												
50/86	25	73	207	492	971	1652	2456	3220	3769	4088	4219	4252

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ST CHARLES CO AIRPORT, MO US**

GHCND:USW00053904
 Elev: 436 ft. Lat: 38.929° N Lon: 90.428° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.2	21.4	30.3	5.3	4.6	4.6	-7777	-7777	0	0	0	0	766	828	921	1076	0.0	0.0	5.9	8.6	25.8	1.1
2	43.9	26.0	34.9	5.2	4.1	4.4	2	1	-7777	-7777	0	0	563	618	702	841	0.0	0.0	7.5	4.3	21.1	0.0
3	55.3	34.6	45.0	4.2	2.7	3.1	29	20	10	2	-7777	-7777	341	393	477	624	0.0	0.0	20.0	0.7	12.0	0.0
4	67.2	44.7	55.9	4.1	2.9	3.3	126	96	61	22	5	3	97	127	182	294	0.0	0.2	27.8	0.0	2.2	0.0
5	76.2	55.1	65.7	3.4	3.3	3.2	336	280	203	104	40	24	6	12	28	84	0.0	0.9	31.0	0.0	0.1	0.0
6	84.7	63.5	74.1	2.7	2.4	2.2	573	513	424	280	152	109	-7777	-7777	1	7	0.0	7.9	30.0	0.0	0.0	0.0
7	88.5	67.9	78.2	2.3	2.3	2.0	719	657	564	409	258	202	0	0	0	-7777	0.7	13.2	31.0	0.0	0.0	0.0
8	87.6	65.6	76.6	3.3	2.7	2.8	669	607	515	361	215	163	0	0	-7777	2	0.6	10.8	31.0	0.0	0.0	0.0
9	80.1	56.0	68.0	2.8	2.7	2.5	397	341	260	141	59	37	6	9	19	50	0.0	3.0	30.0	0.0	0.0	0.0
10	68.4	44.5	56.4	3.2	3.6	3.0	133	101	64	25	7	4	88	118	174	290	0.0	0.2	30.3	0.0	2.5	0.0
11	54.9	35.3	45.1	4.6	3.2	3.6	22	13	6	1	-7777	-7777	319	370	453	598	0.0	0.0	18.4	0.5	10.5	0.0
12	41.7	24.7	33.2	5.3	5.3	5.2	2	1	-7777	0	0	0	678	739	831	986	0.0	0.0	7.5	5.7	23.8	0.2
Summary	65.6	44.9	55.3	3.9	3.3	3.3	3008	2630	2107	1345	736	542	2864	3214	3788	4852	1.3	36.2	270.4	19.8	98.0	1.3

@ Denotes mean number of days greater than 0 but less than 0.05.
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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **ST CHARLES CO AIRPORT, MO US**GHCND:USW00053904
Elev: 436 ft. Lat: 38.929° N Lon: 90.428° W

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	.25	.50	.75
1	2.35	@	@	@	@			
2	2.23	@	@	@	@			
3	3.21	@	@	@	@			
4	3.80	@	@	@	@			
5	4.75	@	@	@	@			
6	4.29	@	@	@	@			
7	4.35	@	@	@	@			
8	3.15	@	@	@	@			
9	3.27	@	@	@	@			
10	3.37	@	@	@	@			
11	3.82	@	@	@	@			
12	2.81	@	@	@	@			
Summary	41.40	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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www.ncdc.noaa.gov

Station: **ST CHARLES CO AIRPORT, MO US**

GHCND:USW00053904
Elev: 436 ft. Lat: 38.929° N Lon: 90.428° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	27	51	209	482	795	1023	1184	1134	841	511	205	45
45	9	21	122	344	640	873	1029	979	692	363	119	18
50	3	8	64	222	486	723	874	824	543	234	57	7
55	-7777	2	29	126	336	573	719	669	397	133	22	2
60	0	-7777	10	61	203	424	564	515	260	64	6	-7777
Growing Degree Units for Corn (Monthly)												
50/86	21	35	128	285	495	692	813	771	545	309	117	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	27	78	287	769	1564	2587	3771	4905	5746	6257	6462	6507
45	9	30	152	496	1136	2009	3038	4017	4709	5072	5191	5209
50	3	11	75	297	783	1506	2380	3204	3747	3981	4038	4045
55	0	2	31	157	493	1066	1785	2454	2851	2984	3006	3008
60	0	0	10	71	274	698	1262	1777	2037	2101	2107	2107
Growing Degree Units for Corn (Monthly)												
50/86	21	56	184	469	964	1656	2469	3240	3785	4094	4211	4238

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **QULIN, MO US**

GHCND:USC00236970
Elev: 318 ft. Lat: 36.593° N Lon: 90.232° W

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	.25	.50	.75
1	3.17	7.3	5.4	2.3	0.8	1.61	2.88	3.93
2	3.36	7.3	5.1	2.3	0.8	2.08	2.83	4.14
3	3.88	8.7	6.8	2.6	0.9	2.48	3.18	5.04
4	4.12	8.5	6.1	2.9	1.3	3.24	3.58	5.06
5	4.34	9.4	7.3	2.8	1.2	3.07	4.25	5.63
6	3.01	6.8	5.3	2.4	0.8	2.17	3.29	3.81
7	3.20	6.2	4.6	2.0	0.9	1.06	3.01	4.85
8	2.30	5.2	3.8	1.5	0.6	1.03	2.42	3.09
9	3.13	5.4	4.0	1.9	0.8	1.25	2.59	3.64
10	3.63	7.1	5.3	2.5	0.9	1.60	3.24	5.24
11	4.11	7.7	5.9	2.9	1.3	2.02	3.34	5.83
12	4.19	7.8	6.1	2.8	1.3	2.09	3.08	6.00
Summary	42.44	87.4	65.7	28.9	11.6	23.70	37.69	56.26

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**Summary of
Monthly Normals
1981-2010**

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Station: **QULIN, MO US**

GHCND:USC00236970
Elev: 318 ft. Lat: 36.593° N Lon: 90.232° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.4	0.9	0.7	0.3	0.2	0.0	2.8	1.5	0.5	0.0	0.0	0.7	4.0
2	2.0	1.1	0.8	0.3	0.0	0.0	2.2	0.6	0.1	0.0	0.0	0.7	3.0
3	0.4	0.3	0.2	0.0	0.0	0.0	0.4	0.1	0.1	0.0	0.0	0.0	0.5
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.7	0.7	0.5	0.1	-7777	0.0	1.9	0.1	-7777	0.0	0.0	0.3	1.0
Summary	5.5	3.0	2.2	0.7	0.2	0.0	7.3	2.3	0.7	0.0	0.0	1.7	8.5

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Summary of Monthly Normals 1981-2010

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Station: **ELDORADO SPRINGS, MO US**

GHCND:USC00232511
 Elev: 920 ft. Lat: 37.864° N Lon: 94.016° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.2	21.4	31.8	5.3	4.8	4.8	2	1	-7777	-7777	0	0	721	782	874	1029	0.0	0.0	8.6	6.2	25.8	1.3
2	47.8	25.3	36.6	5.2	4.7	4.7	5	3	1	-7777	-7777	0	521	575	658	797	0.0	0.0	12.7	3.3	20.4	0.6
3	57.6	33.7	45.7	4.0	3.4	3.4	38	26	14	3	-7777	-7777	328	378	459	603	0.0	0.0	21.8	0.6	14.2	0.0
4	67.6	43.3	55.5	4.0	3.6	3.5	125	96	62	24	5	2	111	143	199	310	0.0	0.1	28.1	0.0	3.3	0.0
5	75.5	53.4	64.4	3.1	2.9	2.8	303	249	177	82	26	14	10	18	39	99	0.0	0.1	31.0	0.0	-7777	0.0
6	83.9	62.6	73.2	2.6	2.5	2.1	548	488	400	258	132	91	-7777	1	2	10	-7777	3.6	30.0	0.0	0.0	0.0
7	88.9	67.6	78.3	2.3	2.1	1.9	721	659	566	411	260	204	0	0	-7777	-7777	0.6	13.7	31.0	0.0	0.0	0.0
8	89.2	65.9	77.6	3.9	3.0	3.2	699	637	544	391	246	193	-7777	-7777	-7777	2	1.9	14.8	31.0	0.0	0.0	0.0
9	80.9	56.7	68.8	3.1	2.9	2.6	423	368	290	173	84	58	9	14	26	59	0.2	4.0	29.9	0.0	0.2	0.0
10	69.9	45.6	57.7	3.1	3.1	2.6	161	126	81	30	8	4	76	102	151	255	0.0	0.1	30.1	0.0	2.4	0.0
11	57.4	35.3	46.3	4.7	4.2	4.0	38	27	15	4	-7777	-7777	298	347	424	563	0.0	0.0	21.6	0.5	11.7	-7777
12	44.6	24.9	34.8	5.4	5.5	5.3	5	3	2	-7777	0	0	633	693	784	938	0.0	0.0	11.0	4.7	23.4	0.8
Summary	67.1	44.6	55.9	3.9	3.6	3.4	3068	2683	2152	1376	761	566	2707	3053	3616	4665	2.7	36.4	286.8	15.3	101.4	2.7

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National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **ELDORADO SPRINGS, MO US**GHCND:USC00232511
Elev: 920 ft. Lat: 37.864° N Lon: 94.016° W

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	.25	.50	.75
1	1.76	6.1	3.4	0.8	0.3	0.84	1.49	2.56
2	2.30	5.9	3.7	1.5	0.8	1.63	2.10	2.83
3	3.52	8.8	6.1	2.3	1.0	2.33	3.26	4.86
4	4.70	10.2	7.1	3.2	1.4	2.90	3.72	5.31
5	6.13	11.4	8.4	3.9	1.9	4.23	5.80	7.64
6	5.74	11.0	7.8	3.9	2.0	3.54	4.70	7.54
7	4.25	8.0	5.3	2.9	1.7	2.50	3.81	5.21
8	3.69	7.1	4.8	2.4	1.2	1.48	2.82	5.98
9	4.48	9.0	6.1	3.0	1.5	1.97	3.50	5.63
10	3.93	9.3	6.2	2.4	1.3	1.90	2.88	5.43
11	3.46	8.4	5.7	2.8	0.9	2.41	3.07	4.63
12	2.67	7.5	4.5	2.0	0.7	1.35	2.56	3.90
Summary	46.63	102.7	69.1	31.1	14.7	27.08	39.71	61.52

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ELDORADO SPRINGS, MO US**

GHCND:USC00232511
Elev: 920 ft. Lat: 37.864° N Lon: 94.016° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.9	1.4	1.0	0.3	0.1	0.0	3.2	1.8	0.4	0.0	0.0	0.6	5.1
2	1.4	0.9	0.6	0.1	-7777	0.0	1.5	0.7	0.2	0.0	0.0	0.0	2.2
3	0.5	0.3	0.2	-7777	0.0	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.1	0.1	0.1	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
12	2.3	1.1	0.9	0.2	0.1	-7777	1.8	1.1	0.8	0.1	0.0	0.0	2.8
Summary	7.5	3.8	2.8	0.7	0.2	0.0	6.8	3.6	1.4	0.1	0.0	0.6	10.1

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Summary of Monthly Normals 1981-2010

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www.ncdc.noaa.gov

Station: **ELDORADO SPRINGS, MO US**

GHCND:USC00232511
Elev: 920 ft. Lat: 37.864° N Lon: 94.016° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	84	237	469	758	997	1186	1164	864	553	246	69
45	19	40	145	335	603	847	1031	1009	715	406	153	31
50	6	16	80	217	449	697	876	854	567	272	83	13
55	2	5	38	125	303	548	721	699	423	161	38	5
60	-7777	1	14	62	177	400	566	544	290	81	15	2
Growing Degree Units for Corn (Monthly)												
50/86	36	63	160	291	475	678	812	781	564	344	151	45

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	131	368	837	1595	2592	3778	4942	5806	6359	6605	6674
45	19	59	204	539	1142	1989	3020	4029	4744	5150	5303	5334
50	6	22	102	319	768	1465	2341	3195	3762	4034	4117	4130
55	2	7	45	170	473	1021	1742	2441	2864	3025	3063	3068
60	0	1	15	77	254	654	1220	1764	2054	2135	2150	2152
Growing Degree Units for Corn (Monthly)												
50/86	36	99	259	550	1025	1703	2515	3296	3860	4204	4355	4400

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HIGGINSVILLE, MO US**

GHCND:USC00233838
Elev: 836 ft. Lat: 39.073° N Lon: 93.708° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	36.2	18.2	27.2	5.3	4.6	4.8	-7777	-7777	0	0	0	0	862	924	1017	1172	0.0	0.0	4.3	11.5	28.0	2.2
2	41.9	22.3	32.1	5.7	5.1	5.2	2	1	-7777	-7777	0	0	643	698	782	921	0.0	0.0	8.4	5.9	23.6	0.6
3	53.1	32.4	42.8	4.3	3.6	3.7	24	16	7	1	-7777	0	404	457	542	691	0.0	0.0	18.0	1.7	15.4	0.0
4	63.6	43.3	53.5	4.0	3.2	3.5	97	72	44	14	2	-7777	143	179	240	361	0.0	0.0	26.2	0.0	3.4	0.0
5	73.1	54.2	63.7	3.0	3.1	2.9	285	234	166	78	25	14	17	28	52	119	0.0	0.3	30.9	0.0	0.0	0.0
6	82.3	63.2	72.8	2.6	1.9	2.1	533	473	385	244	122	81	-7777	1	2	11	0.0	2.7	30.0	0.0	0.0	0.0
7	86.5	67.3	76.9	2.3	1.7	1.8	679	617	524	370	222	168	0	0	-7777	1	0.3	8.9	31.0	0.0	0.0	0.0
8	85.4	65.2	75.3	4.2	2.8	3.3	629	567	474	323	185	138	0	-7777	-7777	3	0.6	8.0	31.0	0.0	0.0	0.0
9	78.2	55.9	67.0	3.1	2.6	2.7	370	315	238	129	54	34	8	13	26	68	0.2	2.2	29.9	0.0	0.0	0.0
10	66.3	44.3	55.3	3.0	2.2	2.3	121	92	56	19	5	3	112	144	201	320	0.0	0.1	28.6	0.0	2.3	0.0
11	52.3	33.5	42.9	5.0	3.9	4.2	22	14	6	1	0	0	385	437	520	664	0.0	0.0	16.6	1.4	13.8	0.1
12	39.0	21.7	30.3	5.7	5.8	5.6	1	1	-7777	0	0	0	765	827	919	1074	0.0	0.0	5.7	8.5	27.0	1.2
Summary	63.2	43.5	53.3	4.0	3.4	3.5	2763	2402	1900	1179	615	438	3339	3708	4301	5405	1.1	22.2	260.6	29.0	113.5	4.1

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HIGGINSVILLE, MO US**

GHCND:USC00233838
Elev: 836 ft. Lat: 39.073° N Lon: 93.708° W

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	.25	.50	.75
1	1.38	7.4	3.4	0.6	0.2	0.70	1.26	1.93
2	1.80	6.6	3.7	1.2	0.4	1.12	1.52	2.40
3	2.73	9.4	5.3	1.6	0.5	1.67	2.43	3.81
4	4.04	11.1	7.3	2.9	1.5	2.35	4.00	5.08
5	5.33	11.9	7.8	3.3	1.7	3.44	4.75	6.80
6	5.47	10.4	7.5	3.8	1.7	3.85	5.18	6.89
7	4.43	9.8	6.2	2.9	1.6	2.35	3.90	5.69
8	3.84	8.5	5.3	2.5	1.3	2.15	3.49	4.95
9	4.46	8.8	6.0	2.7	1.4	1.39	3.59	5.77
10	3.63	9.2	5.6	2.3	0.8	1.85	3.22	5.11
11	2.79	7.4	4.4	2.1	0.7	1.79	2.39	3.56
12	2.03	7.4	4.0	1.2	0.3	0.86	1.94	2.70
Summary	41.93	107.9	66.5	27.1	12.1	23.52	37.67	54.69

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HIGGINSVILLE, MO US**

GHCND:USC00233838
Elev: 836 ft. Lat: 39.073° N Lon: 93.708° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	46	182	415	733	982	1144	1094	811	479	178	31
45	6	19	105	288	579	832	989	939	662	339	103	12
50	2	7	55	179	426	682	834	784	514	217	51	4
55	-7777	2	24	97	285	533	679	629	370	121	22	1
60	0	-7777	7	44	166	385	524	474	238	56	6	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	34	114	235	442	669	792	744	517	279	99	19

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	64	246	661	1394	2376	3520	4614	5425	5904	6082	6113
45	6	25	130	418	997	1829	2818	3757	4419	4758	4861	4873
50	2	9	64	243	669	1351	2185	2969	3483	3700	3751	3755
55	0	2	26	123	408	941	1620	2249	2619	2740	2762	2763
60	0	0	7	51	217	602	1126	1600	1838	1894	1900	1900
Growing Degree Units for Corn (Monthly)												
50/86	15	49	163	398	840	1509	2301	3045	3562	3841	3940	3959

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

M indicates the value is missing

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **WAVERLY, MO US**

GHCND:USC00238768

Elev: 800 ft. Lat: 39.217° N Lon: 93.517° W

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	.25	.50	.75
1	1.32	@	@	@	@			
2	1.56	@	@	@	@			
3	2.62	@	@	@	@			
4	3.79	@	@	@	@			
5	5.35	@	@	@	@			
6	5.45	@	@	@	@			
7	4.50	@	@	@	@			
8	4.29	@	@	@	@			
9	4.05	@	@	@	@			
10	3.70	@	@	@	@			
11	2.40	@	@	@	@			
12	1.48	@	@	@	@			
Summary	40.51	0.0	0.0	0.0	0.0			

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Monthly Normals
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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KANSAS CITY INTERNATIONAL AIRPORT, MO US**

GHCND:USW00003947
Elev: 1005 ft. Lat: 39.297° N Lon: 94.731° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.0	19.6	28.8	5.9	5.3	5.4	-7777	-7777	-7777	0	0	0	812	874	967	1122	0.0	0.0	6.0	9.6	26.8	2.0
2	43.3	23.8	33.5	5.6	5.2	5.2	3	2	1	-7777	0	0	603	658	741	881	0.0	0.0	9.4	5.9	21.1	1.1
3	55.1	33.4	44.2	4.2	3.5	3.6	33	23	12	3	-7777	-7777	366	418	501	646	0.0	0.0	19.6	1.1	14.0	0.1
4	65.7	44.0	54.8	4.3	3.3	3.7	119	93	61	25	6	3	123	157	215	329	0.0	0.2	27.1	0.0	3.1	0.0
5	74.8	54.2	64.5	3.3	3.2	3.1	307	254	183	88	31	18	13	22	43	104	0.0	0.5	31.0	0.0	0.0	0.0
6	83.5	63.6	73.5	2.8	2.4	2.5	557	497	408	266	141	100	-7777	1	2	9	0.2	4.7	30.0	0.0	0.0	0.0
7	88.3	68.4	78.3	2.8	2.1	2.3	724	662	569	414	264	207	0	0	0	-7777	0.8	12.4	31.0	0.0	0.0	0.0
8	87.4	66.8	77.1	4.1	2.9	3.4	685	623	530	377	233	182	0	-7777	-7777	2	1.7	11.7	31.0	0.0	0.0	0.0
9	79.0	57.3	68.2	3.3	2.9	2.9	404	349	271	159	77	53	9	14	26	65	0.1	3.1	29.9	0.0	0.1	0.0
10	66.9	45.9	56.4	2.9	2.5	2.4	139	107	68	26	7	4	96	125	179	293	0.0	0.1	29.2	0.0	1.9	0.0
11	53.2	34.1	43.6	5.2	4.1	4.4	25	17	8	2	-7777	-7777	365	417	499	642	0.0	0.0	17.9	1.3	12.4	0.0
12	40.3	22.6	31.5	6.0	5.9	5.8	1	1	-7777	0	0	0	731	792	885	1040	0.0	0.0	7.2	7.4	25.0	1.3
Summary	64.6	44.5	54.5	4.2	3.6	3.7	2997	2628	2111	1360	759	567	3118	3478	4058	5133	2.8	32.7	269.3	25.3	104.4	4.5

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KANSAS CITY INTERNATIONAL AIRPORT, MO US**

GHCND:USW00003947
Elev: 1005 ft. Lat: 39.297° N Lon: 94.731° W

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	.25	.50	.75
1	1.07	6.3	2.6	0.5	0.1	0.58	0.97	1.40
2	1.46	7.1	3.5	0.9	0.2	0.73	1.34	2.11
3	2.37	9.5	5.3	1.7	0.3	1.34	2.29	2.94
4	3.70	11.0	6.8	2.6	0.8	2.13	3.56	4.93
5	5.23	11.5	7.8	3.7	1.5	2.84	4.79	6.97
6	5.23	10.8	7.5	3.8	1.7	3.36	4.81	6.87
7	4.45	9.0	5.9	2.6	1.3	1.72	4.33	6.02
8	3.89	8.3	5.5	2.4	1.1	1.87	3.58	5.04
9	4.62	8.6	6.3	3.2	1.4	2.22	3.43	7.63
10	3.16	8.2	5.5	2.0	0.8	1.39	3.13	3.85
11	2.15	7.3	4.2	1.3	0.5	1.24	2.01	2.84
12	1.53	7.2	3.2	0.9	0.3	0.75	1.33	2.08
Summary	38.86	104.8	64.1	25.6	10.0	20.17	35.57	52.68

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1981-2010**

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151 Patton Avenue
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Station: **KANSAS CITY INTERNATIONAL AIRPORT, MO US**

GHCND:USW00003947
Elev: 1005 ft. Lat: 39.297° N Lon: 94.731° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.6	4.0	1.5	0.4	0.1	0.0	7.9	3.8	1.6	0.1	1.0	4.3	6.4
2	5.4	3.5	1.6	0.5	0.2	-7777	5.5	2.6	1.1	0.0	2.0	4.7	8.3
3	2.0	1.6	0.6	0.2	0.1	0.0	1.6	0.6	0.2	0.0	0.2	1.1	2.4
4	0.6	0.5	0.2	-7777	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.2	0.1	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.2	1.2	0.4	0.1	-7777	0.0	0.6	0.1	-7777	0.0	0.0	0.5	1.2
12	4.8	3.7	1.5	0.5	0.1	0.0	5.9	2.7	1.5	-7777	0.7	3.4	7.1
Summary	18.8	14.6	5.9	1.7	0.5	0.0	21.6	9.8	4.4	0.1	3.9	14.0	25.4

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Station: **KANSAS CITY INTERNATIONAL AIRPORT, MO US**

GHCND:USW00003947
Elev: 1005 ft. Lat: 39.297° N Lon: 94.731° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	26	58	212	452	759	1007	1189	1150	845	512	192	39
45	9	25	127	320	605	856	1034	995	695	368	114	15
50	2	9	68	206	451	706	879	840	547	241	57	5
55	-7777	3	33	119	307	557	724	685	404	139	25	1
60	-7777	1	12	61	183	408	569	530	271	68	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	20	40	135	267	469	686	820	781	546	298	108	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	26	84	296	748	1507	2514	3703	4853	5698	6210	6402	6441
45	9	34	161	481	1086	1942	2976	3971	4666	5034	5148	5163
50	2	11	79	285	736	1442	2321	3161	3708	3949	4006	4011
55	0	3	36	155	462	1019	1743	2428	2832	2971	2996	2997
60	0	1	13	74	257	665	1234	1764	2035	2103	2111	2111
Growing Degree Units for Corn (Monthly)												
50/86	20	60	195	462	931	1617	2437	3218	3764	4062	4170	4194

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ARCADIA, MO US**

GHCND:USC00230224
Elev: 918 ft. Lat: 37.598° N Lon: 90.626° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.8	20.8	31.3	4.9	4.3	4.4	2	1	1	-7777	0	0	737	798	890	1044	0.0	0.0	7.9	6.4	26.2	1.0
2	47.5	23.8	35.6	4.9	3.6	4.1	5	3	1	-7777	0	0	547	601	683	822	0.0	0.0	12.4	3.8	21.5	0.6
3	57.8	32.1	44.9	3.7	2.8	3.0	33	23	11	2	-7777	-7777	345	396	478	623	0.0	0.0	22.6	0.7	16.2	0.0
4	69.2	42.0	55.6	4.2	3.4	3.5	125	95	60	20	4	2	107	137	192	302	0.0	0.3	28.8	0.0	5.3	0.0
5	76.3	51.0	63.7	2.5	3.4	2.7	281	228	158	68	14	6	12	22	45	110	0.0	0.2	30.9	0.0	0.4	0.0
6	83.7	60.0	71.8	2.2	2.3	1.9	506	446	358	219	103	67	-7777	1	3	13	0.0	3.1	30.0	0.0	0.0	0.0
7	87.9	64.1	76.0	2.1	2.3	1.9	651	589	496	341	194	142	0	-7777	-7777	-7777	0.1	10.4	31.0	0.0	0.0	0.0
8	87.7	62.6	75.1	3.5	2.7	2.9	624	562	470	317	179	132	-7777	-7777	-7777	3	0.7	11.2	31.0	0.0	0.0	0.0
9	79.7	53.6	66.7	2.9	2.8	2.5	361	308	233	126	51	31	12	19	34	76	0.0	2.2	30.0	0.0	0.3	0.0
10	68.8	42.6	55.7	2.3	2.7	2.1	113	83	48	14	3	1	91	123	181	302	0.0	0.0	30.5	0.0	5.0	0.0
11	56.1	33.7	44.9	4.0	3.1	3.3	23	15	7	1	-7777	-7777	326	378	460	604	0.0	0.0	20.7	0.3	13.1	0.0
12	43.6	24.4	34.0	5.6	4.9	5.2	2	1	-7777	-7777	0	0	653	714	806	961	0.0	0.0	9.3	4.4	23.7	0.8
Summary	66.7	42.6	54.6	3.6	3.2	3.1	2726	2354	1843	1108	548	381	2830	3189	3772	4860	0.8	27.4	285.1	15.6	111.7	2.4

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ARCADIA, MO US**

GHCND:USC00230224
Elev: 918 ft. Lat: 37.598° N Lon: 90.626° W

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	.25	.50	.75
1	2.58	7.2	4.6	1.7	0.6	1.13	2.31	3.38
2	2.87	7.0	5.0	1.8	0.6	1.69	2.63	3.67
3	3.56	9.2	6.8	2.8	1.0	2.74	3.33	4.08
4	4.50	10.6	7.6	2.8	1.2	2.48	3.92	5.08
5	5.66	11.4	8.5	3.7	1.3	3.63	4.91	6.81
6	4.22	9.6	7.0	3.2	1.2	2.54	3.79	5.92
7	3.72	8.9	6.4	2.6	0.9	2.67	3.79	4.77
8	3.76	8.6	6.5	2.7	1.1	2.25	3.38	4.09
9	3.75	7.7	5.2	3.0	1.4	1.63	3.01	5.56
10	3.66	8.9	6.3	2.9	0.8	2.09	3.04	5.48
11	5.28	9.6	7.2	3.5	1.8	2.51	4.54	7.87
12	3.70	9.0	5.9	2.8	1.1	2.06	2.72	5.37
Summary	47.26	107.7	77.0	33.5	13.0	27.42	41.37	62.08

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ARCADIA, MO US**

GHCND:USC00230224
Elev: 918 ft. Lat: 37.598° N Lon: 90.626° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.9	2.3	1.5	0.4	0.2	0.0	@	@	@	@	0.1	2.5	7.3
2	3.8	2.2	1.5	0.5	0.2	0.0	@	@	@	@	1.0	2.0	5.8
3	1.1	0.7	0.4	0.2	0.0	0.0	@	@	@	@	0.0	0.3	1.4
4	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.2	0.2	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	1.8	1.0	0.7	0.1	0.0	0.0	@	@	@	@	0.0	1.5	3.1
Summary	11.0	6.6	4.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0	1.1	6.3	17.6

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 Monthly Normals
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Station: **ARCADIA, MO US**

GHCND:USC00230224
 Elev: 918 ft. Lat: 37.598° N Lon: 90.626° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	38	77	222	473	733	955	1116	1089	799	491	210	52
45	15	37	134	338	578	805	961	934	650	345	123	22
50	6	15	72	219	425	655	806	779	502	215	60	8
55	2	5	33	125	281	506	651	624	361	113	23	2
60	1	1	11	60	158	358	496	470	233	48	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	29	62	158	309	471	645	759	729	522	314	130	31

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	38	115	337	810	1543	2498	3614	4703	5502	5993	6203	6255
45	15	52	186	524	1102	1907	2868	3802	4452	4797	4920	4942
50	6	21	93	312	737	1392	2198	2977	3479	3694	3754	3762
55	2	7	40	165	446	952	1603	2227	2588	2701	2724	2726
60	1	2	13	73	231	589	1085	1555	1788	1836	1843	1843
Growing Degree Units for Corn (Monthly)												
50/86	29	91	249	558	1029	1674	2433	3162	3684	3998	4128	4159

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **GREEN CITY, MO US**

GHCND:USC00233416
 Elev: 1035 ft. Lat: 40.350° N Lon: 92.949° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.0	13.5	23.8				-7777	-7777	0	0	0	0	968	1030	1123	1278	0.0	0.0	2.3	13.1	29.3	5.0
2	38.5	17.1	27.8				1	-7777	0	0	0	0	761	817	901	1041	0.0	0.0	4.8	8.3	24.5	2.8
3	51.6	28.5	40.1				16	11	6	1	-7777	-7777	480	537	625	775	0.0	0.0	16.4	1.5	19.9	0.0
4	62.7	39.8	51.3				59	43	26	10	3	1	172	216	288	423	0.0	0.5	26.8	0.0	5.3	0.0
5	72.1	50.2	61.2				216	169	108	42	8	4	26	40	72	162	0.0	0.0	31.0	0.0	0.0	0.0
6	81.3	60.4	70.9				475	415	326	187	77	46	-7777	-7777	1	12	0.0	2.0	30.0	0.0	0.0	0.0
7	85.9	64.8	75.4				630	568	475	322	177	125	0	0	0	2	0.0	8.0	31.0	0.0	0.0	0.0
8	84.4	62.6	73.5				573	511	418	268	136	95	-7777	-7777	-7777	5	0.0	6.6	31.0	0.0	0.0	0.0
9	76.3	53.0	64.7				300	248	176	79	21	11	11	19	37	90	0.0	0.4	30.0	0.0	0.0	0.0
10	64.4	41.2	52.8				86	62	38	14	4	2	154	192	261	393	0.0	0.4	28.6	0.0	4.4	0.0
11	50.6	29.2	39.9				6	3	-7777	-7777	0	0	460	516	603	753	0.0	0.0	16.2	1.6	18.3	0.0
12	36.1	17.7	26.9				-7777	0	0	0	0	0	870	932	1025	1180	0.0	0.0	3.2	12.1	28.8	1.8
Summary	61.5	39.8	50.7				2362	2030	1573	923	426	284	3902	4299	4936	6114	0	17.9	251.3	36.6	130.5	9.6

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Station: **GREEN CITY, MO US**

GHCND:USC00233416
Elev: 1035 ft. Lat: 40.350° N Lon: 92.949° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	28	127	347	656	925	1095	1038	739	403	117	18
45	2	11	69	223	503	775	940	883	589	269	59	7
50	1	4	35	124	352	625	785	728	441	162	23	2
55	-7777	1	16	59	216	475	630	573	300	86	6	-7777
60	0	0	6	26	108	326	475	418	176	38	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	7	22	89	204	385	617	752	702	462	241	72	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	36	163	510	1166	2091	3186	4224	4963	5366	5483	5501
45	2	13	82	305	808	1583	2523	3406	3995	4264	4323	4330
50	1	5	40	164	516	1141	1926	2654	3095	3257	3280	3282
55	0	1	17	76	292	767	1397	1970	2270	2356	2362	2362
60	0	0	6	32	140	466	941	1359	1535	1573	1573	1573
Growing Degree Units for Corn (Monthly)												
50/86	7	29	118	322	707	1324	2076	2778	3240	3481	3553	3563

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

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WASOLA, MO US**

GHCND:USC00238754
Elev: 1190 ft. Lat: 36.858° N Lon: 92.587° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.5	21.4	32.5	4.0	4.4	4.0	1	1	-7777	0	0	0	700	762	854	1009	0.0	0.0	10.5	5.9	25.9	1.1
2	47.8	25.1	36.4	5.5	4.5	4.8	4	2	1	-7777	0	0	523	577	660	799	0.0	0.0	13.2	3.7	20.6	0.3
3	58.0	33.4	45.7	3.9	3.5	3.5	37	25	13	2	-7777	-7777	325	375	456	600	0.0	0.0	22.9	0.6	14.3	0.0
4	68.4	43.1	55.7	3.7	3.1	3.1	121	90	54	16	2	1	99	128	182	293	0.0	0.1	28.5	0.0	3.2	0.0
5	75.3	53.2	64.3	2.9	3.1	2.8	298	245	174	79	21	10	12	20	42	102	0.0	0.2	31.0	0.0	0.0	0.0
6	83.1	61.2	72.1	3.2	2.1	2.3	515	455	366	224	105	67	-7777	-7777	2	10	0.0	3.3	30.0	0.0	0.0	0.0
7	87.1	65.5	76.3	2.3	2.2	2.0	660	598	505	351	204	151	0	0	-7777	1	0.2	9.8	31.0	0.0	0.0	0.0
8	87.9	64.1	76.0	3.7	2.8	3.0	651	589	496	344	202	151	0	-7777	-7777	3	0.9	12.3	31.0	0.0	0.0	0.0
9	79.7	56.1	67.9	3.0	2.6	2.5	393	336	256	141	59	37	6	9	19	54	0.2	2.1	30.0	0.0	0.1	0.0
10	68.9	45.3	57.1	3.1	2.9	2.6	143	108	65	19	3	1	78	105	154	264	0.0	0.1	30.2	-7777	1.9	0.0
11	57.6	34.9	46.2	5.1	3.5	4.1	34	22	11	2	-7777	0	296	345	423	564	0.0	0.0	21.8	0.4	11.8	0.0
12	45.2	23.5	34.3	5.3	5.8	5.4	2	1	-7777	0	0	0	642	703	795	950	0.0	0.0	10.4	4.2	24.5	1.0
Summary	66.9	43.9	55.4	3.8	3.4	3.3	2859	2472	1941	1178	596	418	2681	3024	3587	4649	1.3	27.9	290.5	14.8	102.3	2.4

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Station: **WASOLA, MO US**

GHCND:USC00238754
Elev: 1190 ft. Lat: 36.858° N Lon: 92.587° W

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	.25	.50	.75
1	2.80	5.3	3.9	2.1	1.0	1.43	2.57	3.39
2	3.00	5.0	3.9	2.1	1.0	1.56	2.61	4.58
3	3.73	6.3	5.2	2.8	1.1	2.53	3.00	4.88
4	4.19	5.7	4.7	2.6	1.4	3.13	3.65	5.04
5	4.25	7.6	6.3	3.1	1.5	3.31	3.96	4.87
6	4.06	6.9	5.2	2.7	1.1	3.22	3.81	4.96
7	3.33	6.0	4.8	2.3	1.2	1.62	2.50	3.94
8	3.13	5.0	3.8	1.9	0.7	1.72	3.05	4.49
9	4.07	5.3	4.5	2.8	1.7	1.90	3.71	4.54
10	3.55	5.9	4.2	2.2	1.1	2.05	2.91	4.08
11	4.75	6.9	5.3	3.2	1.6	2.08	4.85	6.56
12	2.93	5.5	3.7	1.9	0.7	1.22	2.30	4.15
Summary	43.79	71.4	55.5	29.7	14.1	25.77	38.92	55.48

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Station: **WASOLA, MO US**

GHCND:USC00238754
Elev: 1190 ft. Lat: 36.858° N Lon: 92.587° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	50	80	241	477	752	964	1125	1116	837	533	238	59
45	20	37	148	340	597	814	970	961	687	385	144	26
50	7	13	81	218	443	664	815	806	538	251	77	10
55	1	4	37	121	298	515	660	651	393	143	34	2
60	-7777	1	13	54	174	366	505	496	256	65	11	-7777
Growing Degree Units for Corn (Monthly)												
50/86	40	61	162	297	470	650	770	749	541	321	148	41

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	50	130	371	848	1600	2564	3689	4805	5642	6175	6413	6472
45	20	57	205	545	1142	1956	2926	3887	4574	4959	5103	5129
50	7	20	101	319	762	1426	2241	3047	3585	3836	3913	3923
55	1	5	42	163	461	976	1636	2287	2680	2823	2857	2859
60	0	1	14	68	242	608	1113	1609	1865	1930	1941	1941
Growing Degree Units for Corn (Monthly)												
50/86	40	101	263	560	1030	1680	2450	3199	3740	4061	4209	4250

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

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 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SEDALIA MEMORIAL AIRPORT, MO US**

GHCND:USW00003994
 Elev: 900 ft. Lat: 38.704° N Lon: 93.183° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.3	23.0	31.7	5.6	4.3	4.8	2	1	-7777	0	0	0	725	786	879	1034	0.0	0.0	7.5	7.9	23.7	1.2
2	45.8	26.9	36.3	5.5	4.6	4.9	4	2	1	-7777	0	0	526	581	663	802	0.0	0.0	10.0	3.4	19.8	0.1
3	56.7	35.8	46.2	4.1	3.1	3.3	39	28	15	3	-7777	-7777	310	361	441	585	0.0	0.0	21.8	0.5	10.1	0.0
4	67.3	46.1	56.7	3.9	3.5	3.5	143	111	73	31	8	4	92	120	172	280	0.0	0.1	27.9	0.0	2.0	0.0
5	75.8	55.6	65.7	3.6	3.5	3.4	337	282	205	105	41	24	6	12	28	83	0.0	0.6	31.0	0.0	0.0	0.0
6	84.8	65.1	74.9	2.9	2.3	2.4	598	539	449	304	171	124	-7777	-7777	1	6	0.0	6.6	30.0	0.0	0.0	0.0
7	89.1	69.1	79.1	2.9	1.9	2.0	747	685	592	437	285	227	0	0	0	-7777	1.1	14.2	31.0	0.0	0.0	0.0
8	89.1	67.0	78.1	4.1	2.8	3.2	714	652	559	405	256	202	0	0	0	1	2.1	13.8	31.0	0.0	0.0	0.0
9	79.5	58.6	69.1	2.9	2.4	2.4	425	368	286	165	75	50	4	7	15	44	0.1	2.8	30.0	0.0	0.0	0.0
10	68.5	48.0	58.2	3.0	2.2	2.4	171	135	90	37	10	6	71	97	145	246	0.0	0.1	30.3	0.0	0.9	0.0
11	55.7	37.6	46.6	4.8	3.2	3.7	40	29	16	3	-7777	-7777	291	340	417	554	0.0	0.0	19.5	0.7	9.5	0.0
12	43.4	26.2	34.8	5.6	5.7	5.5	4	3	1	-7777	0	0	630	690	782	936	0.0	0.0	9.4	5.4	22.0	0.1
Summary	66.3	46.6	56.5	4.1	3.3	3.5	3224	2835	2287	1490	846	637	2655	2994	3543	4571	3.3	38.2	279.4	17.9	88.0	1.4

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Monthly Normals
1981-2010**Station: **SEDALIA MEMORIAL AIRPORT, MO US**GHCND:USW00003994
Elev: 900 ft. Lat: 38.704° N Lon: 93.183° W

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	.25	.50	.75
1	1.67	@	@	@	@			
2	1.93	@	@	@	@			
3	2.61	@	@	@	@			
4	4.25	@	@	@	@			
5	4.69	@	@	@	@			
6	5.09	@	@	@	@			
7	4.21	@	@	@	@			
8	3.49	@	@	@	@			
9	4.11	@	@	@	@			
10	3.64	@	@	@	@			
11	3.10	@	@	@	@			
12	2.32	@	@	@	@			
Summary	41.11	0.0	0.0	0.0	0.0			

@ Denotes mean number of days greater than 0 but less than 0.05.

-7777: a non-zero value that would round to zero

Empty or blank cells indicate data is missing or insufficient occurrences to compute value.

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SEDALIA MEMORIAL AIRPORT, MO US**

GHCND:USW00003994
Elev: 900 ft. Lat: 38.704° N Lon: 93.183° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	44	73	243	504	797	1048	1212	1179	871	566	247	68
45	18	35	145	366	642	898	1057	1024	722	417	156	31
50	6	14	78	243	487	748	902	869	572	282	86	12
55	2	4	39	143	337	598	747	714	425	171	40	4
60	-7777	1	15	73	205	449	592	559	286	90	16	1
Growing Degree Units for Corn (Monthly)												
50/86	27	47	146	298	498	720	835	797	567	330	133	37

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	44	117	360	864	1661	2709	3921	5100	5971	6537	6784	6852
45	18	53	198	564	1206	2104	3161	4185	4907	5324	5480	5511
50	6	20	98	341	828	1576	2478	3347	3919	4201	4287	4299
55	2	6	45	188	525	1123	1870	2584	3009	3180	3220	3224
60	0	1	16	89	294	743	1335	1894	2180	2270	2286	2287
Growing Degree Units for Corn (Monthly)												
50/86	27	74	220	518	1016	1736	2571	3368	3935	4265	4398	4435

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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 151 Patton Avenue
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www.ncdc.noaa.gov

Station: **TARKIO, MO US**

GHCND:USW00014945
 Elev: 1045 ft. Lat: 40.434° N Lon: 95.388° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	33.9	15.1	24.5	6.4	5.6	5.6	0	0	0	0	0	0	945	1007	1100	1255	0.0	0.0	3.3	14.2	29.9	3.5
2	38.9	19.0	28.9	6.9	6.1	6.1	-7777	-7777	-7777	0	0	0	729	785	869	1009	0.0	0.0	5.7	8.1	24.9	2.4
3	51.2	28.8	40.0	5.1	4.1	4.0	16	11	5	1	-7777	0	481	538	625	776	0.0	0.0	16.5	3.0	18.8	0.4
4	63.3	40.3	51.8	4.5	3.4	3.6	83	62	39	15	5	3	179	218	285	411	0.0	0.5	25.3	0.0	5.6	0.0
5	73.0	50.8	61.9	3.5	3.4	3.3	242	195	135	60	19	11	28	43	76	157	0.0	0.5	30.9	0.0	0.3	0.0
6	81.9	61.3	71.6	3.1	2.8	2.8	498	439	353	216	103	70	1	2	5	18	0.0	3.1	30.0	0.0	0.0	0.0
7	85.4	65.1	75.3	2.9	1.9	1.9	628	566	473	319	176	127	-7777	-7777	-7777	2	0.2	7.0	31.0	0.0	0.0	0.0
8	84.1	62.8	73.5	3.9	3.3	3.4	572	510	418	270	144	104	-7777	-7777	1	8	0.6	7.0	31.0	0.0	0.0	0.0
9	77.3	53.4	65.3	3.2	2.0	2.3	330	278	207	111	46	29	19	28	46	101	0.0	2.1	29.8	0.0	0.7	0.0
10	65.4	40.3	52.8	3.8	2.9	2.8	92	68	41	16	5	3	159	197	262	392	0.0	0.3	27.7	0.0	6.3	0.0
11	49.6	29.9	39.8	6.4	3.7	4.6	10	6	2	-7777	-7777	0	468	524	610	758	0.0	0.0	14.7	2.9	18.7	0.2
12	35.9	17.7	26.8	6.4	5.8	5.8	0	0	0	0	0	0	874	936	1029	1184	0.0	0.0	3.6	11.4	28.9	2.1
Summary	61.7	40.4	51.0	4.7	3.8	3.9	2471	2135	1673	1008	498	347	3883	4278	4908	6071	0.8	20.5	249.5	39.6	134.1	8.6

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**Summary of
Monthly Normals
1981-2010**

Station: **TARKIO, MO US**

GHCND:USW00014945
Elev: 1045 ft. Lat: 40.434° N Lon: 95.388° W

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	.25	.50	.75
1	0.60	3.7	1.9	0.2	0.0	0.24	0.61	0.88
2	1.00	4.3	2.6	0.4	0.1	0.45	0.84	1.24
3	2.24	6.5	4.2	1.2	0.4	1.06	1.91	3.57
4	3.02	7.8	5.5	1.8	0.8	1.76	2.69	3.65
5	5.06	9.7	7.5	3.1	1.4	3.14	4.81	5.96
6	4.77	10.7	8.0	3.0	1.3	2.78	4.19	6.36
7	5.32	7.0	5.4	2.8	1.4	2.75	4.91	6.39
8	3.83	6.8	5.6	2.5	1.6	1.44	3.53	5.75
9	3.25	6.2	4.6	1.7	1.1	1.31	2.30	4.84
10	2.50	6.4	4.5	1.6	0.6	0.95	2.29	4.35
11	1.82	5.2	3.8	1.2	0.7	1.10	1.57	2.24
12	1.12	4.5	2.6	0.9	0.2	0.30	0.84	1.61
Summary	34.53	78.8	56.2	20.4	9.6	17.28	30.49	46.84

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Station: **TARKIO, MO US**

GHCND:USW00014945
Elev: 1045 ft. Lat: 40.434° N Lon: 95.388° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.7	1.9	1.4	0.5	0.2	0.0	@	@	@	@	0.0	2.0	5.5
2	4.5	2.4	1.5	0.7	0.2	0.0	@	@	@	@	0.5	5.0	8.0
3	3.7	1.4	1.1	0.3	0.1	0.1	@	@	@	@	0.4	1.2	4.0
4	1.0	0.1	0.1	0.1	0.1	0.1	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	0.1	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.6	0.5	0.3	0.1	-7777	0.0	@	@	@	@	0.0	0.0	1.2
12	2.0	1.5	1.1	0.3	0.1	0.0	@	@	@	@	0.0	1.2	2.6
Summary	14.6	7.9	5.5	2.0	0.7	0.2	0.0	0.0	0.0	0.0	0.9	9.4	21.3

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Station: TARKIO, MO US

GHCND:USW00014945
 Elev: 1045 ft. Lat: 40.434° N Lon: 95.388° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	25	139	369	679	948	1092	1037	761	410	123	11
45	1	9	76	248	524	798	938	882	612	280	65	3
50	-7777	2	37	151	375	648	783	727	467	172	29	-7777
55	0	-7777	16	83	242	498	628	572	330	92	10	0
60	0	-7777	5	39	135	353	473	418	207	41	2	0
Growing Degree Units for Corn (Monthly)												
50/86	9	23	101	224	410	635	748	694	486	261	79	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	32	171	540	1219	2167	3259	4296	5057	5467	5590	5601
45	1	10	86	334	858	1656	2594	3476	4088	4368	4433	4436
50	0	2	39	190	565	1213	1996	2723	3190	3362	3391	3391
55	0	0	16	99	341	839	1467	2039	2369	2461	2471	2471
60	0	0	5	44	179	532	1005	1423	1630	1671	1673	1673
Growing Degree Units for Corn (Monthly)												
50/86	9	32	133	357	767	1402	2150	2844	3330	3591	3670	3680

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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Asheville, North Carolina 28801
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Station: **JOPLIN REGIONAL AIRPORT, MO US**

GHCND:USW00013987
Elev: 980 ft. Lat: 37.147° N Lon: 94.502° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.9	25.0	34.9	5.2	4.2	4.5	5	3	1	-7777	0	0	627	687	778	932	0.0	0.0	11.2	5.1	22.8	0.8
2	50.5	29.2	39.8	5.0	4.1	4.4	12	8	3	1	-7777	-7777	436	488	567	705	0.0	0.0	14.6	2.3	17.2	0.2
3	60.1	37.7	48.9	3.8	3.3	3.4	65	47	27	9	2	1	254	299	371	508	0.0	-7777	24.0	0.4	9.3	0.0
4	70.0	46.9	58.4	3.5	3.3	3.2	177	141	96	44	14	8	73	97	143	241	0.0	0.4	28.7	0.0	2.0	0.0
5	77.7	56.2	67.0	2.7	3.0	2.7	375	317	238	126	50	31	4	9	22	66	0.0	0.9	31.0	0.0	-7777	0.0
6	85.8	65.1	75.5	2.8	2.2	2.4	613	554	464	318	184	137	-7777	-7777	1	5	-7777	7.5	30.0	0.0	0.0	0.0
7	90.6	69.9	80.2	2.1	2.3	1.9	783	721	628	473	320	261	0	0	0	-7777	0.7	17.9	31.0	0.0	0.0	0.0
8	91.0	68.4	79.7	3.6	3.0	3.2	765	704	611	456	307	251	0	-7777	-7777	1	2.4	18.1	31.0	0.0	0.0	0.0
9	82.3	59.3	70.8	3.1	2.8	2.7	478	422	340	215	114	82	4	8	16	41	0.2	5.4	30.0	0.0	-7777	0.0
10	71.3	48.3	59.8	3.2	2.8	2.6	205	164	111	49	15	8	56	77	118	210	0.0	0.2	30.5	0.0	1.3	0.0
11	58.9	37.9	48.4	4.5	3.5	3.7	55	40	22	7	1	-7777	253	298	370	505	0.0	0.0	22.6	0.4	9.5	0.0
12	47.0	27.5	37.2	5.5	5.1	5.2	8	5	2	-7777	0	0	558	617	707	860	0.0	0.0	12.7	3.8	21.0	0.6
Summary	69.2	47.6	58.4	3.8	3.3	3.3	3541	3126	2543	1698	1007	779	2265	2580	3093	4074	3.3	50.4	297.3	12.0	83.1	1.6

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Station: **JOPLIN REGIONAL AIRPORT, MO US**

GHCND:USW00013987
Elev: 980 ft. Lat: 37.147° N Lon: 94.502° W

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	.25	.50	.75
1	2.03	7.4	4.1	1.3	0.4	1.11	1.80	2.88
2	2.32	7.1	4.2	1.6	0.5	0.89	1.88	3.24
3	3.42	9.9	6.0	2.2	0.8	2.08	2.95	4.34
4	4.47	10.3	6.9	2.9	1.4	2.93	4.17	5.69
5	5.71	12.5	8.3	3.7	1.9	3.57	5.06	7.47
6	5.86	11.1	7.8	3.8	1.7	4.22	5.13	7.25
7	3.81	8.4	5.3	2.5	1.2	2.12	3.27	4.88
8	3.35	7.5	5.0	2.1	1.0	2.04	3.50	4.06
9	4.95	8.4	5.7	2.9	1.7	2.63	3.66	6.89
10	4.03	9.0	5.6	2.5	1.1	1.98	3.62	5.41
11	3.78	8.0	5.0	2.6	1.1	1.39	3.22	4.55
12	2.82	8.4	4.8	1.8	0.9	1.34	2.11	4.20
Summary	46.55	108.0	68.7	29.9	13.7	26.30	40.37	60.86

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Elev: 980 ft. Lat: 37.147° N Lon: 94.502° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.7	2.6	1.5	0.5	0.2	0.0	6.5	2.3	0.6	0.0	1.0	4.0	7.6
2	3.5	2.0	1.1	0.4	0.1	0.0	2.9	0.8	0.3	0.0	0.5	2.3	5.5
3	1.1	0.9	0.4	0.2	0.1	0.0	1.0	0.4	0.3	0.0	0.0	0.0	1.0
4	-7777	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.3	0.1	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.3
12	2.8	2.3	1.2	0.3	0.1	0.0	3.0	1.3	0.4	0.1	0.1	2.5	3.8
Summary	12.5	8.3	4.3	1.5	0.5	0.0	13.6	4.9	1.7	0.1	1.6	8.8	18.2

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Station: **JOPLIN REGIONAL AIRPORT, MO US**

GHCND:USW00013987
Elev: 980 ft. Lat: 37.147° N Lon: 94.502° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	76	124	315	555	835	1063	1248	1230	924	615	291	97
45	37	66	205	413	680	913	1093	1075	774	465	190	48
50	15	31	122	284	526	763	938	920	625	325	110	21
55	5	12	65	177	375	613	783	765	478	205	55	8
60	1	3	27	96	238	464	628	611	340	111	22	2
Growing Degree Units for Corn (Monthly)												
50/86	51	82	195	341	538	730	856	828	611	380	171	60

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	76	200	515	1070	1905	2968	4216	5446	6370	6985	7276	7373
45	37	103	308	721	1401	2314	3407	4482	5256	5721	5911	5959
50	15	46	168	452	978	1741	2679	3599	4224	4549	4659	4680
55	5	17	82	259	634	1247	2030	2795	3273	3478	3533	3541
60	1	4	31	127	365	829	1457	2068	2408	2519	2541	2543
Growing Degree Units for Corn (Monthly)												
50/86	51	133	328	669	1207	1937	2793	3621	4232	4612	4783	4843

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

M indicates the value is missing

-7777: a non-zero value that would round to zero

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U.S. Department of Commerce
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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **REYNOLDS, MO US**

GHCND:USC00237094
 Elev: 1240 ft. Lat: 37.401° N Lon: 91.079° W

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	.25	.50	.75
1	2.10	@	@	@	@			
2	3.13	@	@	@	@			
3	4.11	@	@	@	@			
4	4.52	@	@	@	@			
5	5.47	@	@	@	@			
6	4.06	@	@	@	@			
7	4.11	@	@	@	@			
8	3.46	@	@	@	@			
9	4.05	@	@	@	@			
10	3.86	@	@	@	@			
11	5.57	@	@	@	@			
12	3.65	@	@	@	@			
Summary	48.09	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **MANSFIELD, MO US**

GHCND:USC00235227
 Elev: 1520 ft. Lat: 37.109° N Lon: 92.579° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.9	20.4	31.1	4.7	4.7	4.4	2	1	-7777	-7777	0	0	741	802	895	1049	0.0	0.0	8.2	6.6	26.5	1.6
2	46.8	24.1	35.5	5.0	4.5	4.5	3	2	1	-7777	0	0	551	605	688	827	0.0	0.0	11.7	3.8	21.6	0.9
3	56.4	32.9	44.6	4.1	3.4	3.5	27	17	8	1	-7777	0	348	400	484	632	0.0	0.0	21.6	0.8	14.3	0.0
4	65.8	42.9	54.4	3.7	3.3	3.2	107	80	48	15	2	1	127	160	218	335	0.0	0.0	27.7	0.0	4.1	0.0
5	74.7	53.6	64.1	2.8	3.1	2.7	295	242	171	78	22	11	12	21	42	104	0.0	0.1	31.0	0.0	0.3	0.0
6	82.5	62.0	72.2	2.6	2.3	2.2	518	458	370	229	110	71	-7777	1	2	12	0.0	2.2	30.0	0.0	0.0	0.0
7	87.7	66.6	77.1	2.5	2.2	2.1	687	625	532	378	229	174	0	-7777	-7777	1	0.3	10.6	31.0	0.0	0.0	0.0
8	88.1	65.3	76.7	3.7	3.0	3.2	673	611	518	366	223	172	-7777	-7777	1	3	0.6	12.4	31.0	0.0	0.0	0.0
9	79.4	56.2	67.8	3.2	2.8	2.6	393	337	259	144	62	39	9	13	25	60	0.1	2.2	30.0	0.0	0.2	0.0
10	68.6	45.4	57.0	3.3	3.3	3.0	147	112	70	25	5	2	85	112	163	273	0.0	0.0	29.9	0.0	2.7	0.0
11	55.9	34.0	44.9	4.9	3.7	3.9	26	17	8	1	-7777	-7777	328	379	459	603	0.0	0.0	20.2	0.4	12.6	-7777
12	44.0	23.9	34.0	5.2	5.2	5.0	3	2	-7777	0	0	0	655	716	808	962	0.0	0.0	9.5	4.8	24.3	0.7
Summary	66.0	43.9	55.0	3.8	3.5	3.4	2881	2504	1985	1237	653	470	2856	3209	3785	4861	1.0	27.5	281.8	16.4	106.6	3.2

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
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**Summary of
Monthly Normals
1981-2010**

Station: **MANSFIELD, MO US**

GHCND:USC00235227
Elev: 1520 ft. Lat: 37.109° N Lon: 92.579° W

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	.25	.50	.75
1	2.50	6.0	4.4	1.6	0.8	1.05	2.31	3.41
2	2.70	6.8	4.9	1.9	0.8	1.17	2.27	3.75
3	3.89	8.5	6.6	2.7	0.9	2.16	3.34	4.95
4	4.65	8.7	6.2	3.2	1.7	3.21	4.56	5.54
5	4.98	10.9	7.9	3.4	1.4	3.98	4.59	5.37
6	4.29	9.4	7.0	3.0	1.4	2.51	3.56	5.80
7	3.69	8.1	5.7	2.7	1.1	2.39	3.14	4.59
8	3.03	6.9	5.0	1.9	0.9	1.84	2.39	4.03
9	4.26	7.2	5.1	2.5	1.6	2.22	3.81	5.92
10	3.66	8.7	6.0	2.3	1.0	2.17	3.09	4.67
11	4.38	8.4	6.1	3.6	1.6	2.25	4.05	6.51
12	3.42	7.5	5.3	2.4	1.1	1.73	2.80	3.93
Summary	45.45	97.1	70.2	31.2	14.3	26.68	39.91	58.47

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**Summary of
 Monthly Normals
 1981-2010**

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 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **MANSFIELD, MO US**

GHCND:USC00235227
 Elev: 1520 ft. Lat: 37.109° N Lon: 92.579° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.8	1.8	1.4	0.5	0.2	0.0	@	@	@	@	0.0	1.5	7.0
2	3.4	1.7	1.4	0.5	0.1	0.0	@	@	@	@	0.0	2.3	6.7
3	1.7	0.5	0.5	0.3	0.1	-7777	@	@	@	@	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	-7777	-7777	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	2.2	0.9	0.8	0.5	0.2	0.0	@	@	@	@	0.0	0.0	2.5
Summary	11.1	4.9	4.1	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	3.8	17.2

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Summary of Monthly Normals 1981-2010

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MANSFIELD, MO US**

GHCND:USC00235227
Elev: 1520 ft. Lat: 37.109° N Lon: 92.579° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	73	214	437	749	967	1152	1137	834	529	211	55
45	19	34	125	306	594	817	997	982	684	383	125	25
50	7	12	64	194	440	667	842	828	536	252	63	10
55	2	3	27	107	295	518	687	673	393	147	26	3
60	-7777	1	8	48	171	370	532	518	259	70	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	33	57	143	264	468	658	793	769	544	322	129	36

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	116	330	767	1516	2483	3635	4772	5606	6135	6346	6401
45	19	53	178	484	1078	1895	2892	3874	4558	4941	5066	5091
50	7	19	83	277	717	1384	2226	3054	3590	3842	3905	3915
55	2	5	32	139	434	952	1639	2312	2705	2852	2878	2881
60	0	1	9	57	228	598	1130	1648	1907	1977	1985	1985
Growing Degree Units for Corn (Monthly)												
50/86	33	90	233	497	965	1623	2416	3185	3729	4051	4180	4216

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

M indicates the value is missing

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Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CENTRALIA, MO US**

GHCND:USC00231482
Elev: 886 ft. Lat: 39.210° N Lon: 92.134° W

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	.25	.50	.75
1	1.70	6.2	3.7	0.9	0.4	0.53	1.20	2.33
2	2.00	6.2	4.1	1.3	0.4	0.91	1.67	2.62
3	2.76	8.6	5.8	2.0	0.5	1.65	2.74	3.51
4	4.04	10.8	7.1	2.8	1.0	2.33	3.49	6.15
5	4.81	11.6	8.4	3.2	1.2	3.12	4.59	5.89
6	5.16	9.8	6.9	3.1	1.4	3.01	5.25	6.74
7	4.18	9.0	6.2	2.9	1.3	1.96	3.20	5.85
8	4.00	7.7	5.3	2.7	1.2	1.81	3.44	6.11
9	3.95	7.9	5.8	2.5	1.4	2.18	2.90	4.84
10	3.36	8.3	5.4	2.2	0.9	1.69	2.85	4.80
11	3.04	8.5	5.7	2.5	0.9	1.75	2.71	3.88
12	2.30	6.8	4.3	1.4	0.3	1.14	2.04	3.30
Summary	41.30	101.4	68.7	27.5	10.9	22.08	36.08	56.02

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 1981-2010**

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 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **CENTRALIA, MO US**

GHCND:USC00231482
 Elev: 886 ft. Lat: 39.210° N Lon: 92.134° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.4	3.2	2.1	0.7	0.4	0.1	@	@	@	@	1.4	1.6	5.9
2	4.6	2.6	1.7	0.6	0.2	0.0	@	@	@	@	1.4	3.8	7.0
3	2.0	1.0	0.8	0.3	0.1	0.0	@	@	@	@	0.0	0.0	3.0
4	0.3	0.1	0.1	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.7	0.6	0.3	-7777	0.0	0.0	@	@	@	@	0.0	0.0	1.0
12	4.0	2.2	1.4	0.5	0.1	-7777	@	@	@	@	1.0	2.5	7.0
Summary	16.0	9.7	6.4	2.1	0.8	0.1	0.0	0.0	0.0	0.0	3.8	7.9	23.9

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BILLINGS 2 N, MO US**

GHCND:USC00230657
Elev: 1332 ft. Lat: 37.054° N Lon: 93.575° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.6	20.9	32.7	5.4	4.2	4.6	3	1	-7777	0	0	0	692	753	845	1000	0.0	0.0	10.8	5.4	26.2	1.4
2	49.8	24.8	37.3	5.2	4.1	4.4	5	3	1	-7777	-7777	0	501	554	637	776	0.0	0.0	13.9	2.7	21.5	0.6
3	59.2	32.9	46.1	3.9	3.1	3.3	38	26	14	3	-7777	-7777	316	365	446	591	0.0	0.0	23.1	0.6	14.7	0.0
4	69.1	41.9	55.5	3.6	3.1	3.2	125	96	61	22	4	2	110	141	196	307	0.0	0.2	28.5	0.0	4.2	0.0
5	76.7	52.6	64.6	3.0	3.1	2.9	311	257	183	87	27	13	12	19	39	98	0.0	0.5	31.0	0.0	0.1	0.0
6	84.7	61.3	73.0	3.0	2.2	2.4	540	481	392	250	126	85	-7777	1	2	10	0.1	5.6	30.0	0.0	0.0	0.0
7	89.6	66.0	77.8	2.8	1.8	1.9	707	645	552	397	247	191	0	0	-7777	1	0.9	15.4	31.0	0.0	0.0	0.0
8	90.3	64.4	77.4	4.0	2.8	3.2	693	631	538	385	241	187	-7777	-7777	-7777	3	2.4	16.5	31.0	0.0	0.0	0.0
9	82.3	56.2	69.2	3.5	2.8	2.8	433	377	296	173	81	55	6	10	18	46	0.4	5.2	30.0	0.0	0.0	0.0
10	70.3	44.1	57.2	3.3	2.8	2.6	152	117	74	25	5	2	84	111	161	267	0.0	0.1	30.3	0.0	3.4	0.0
11	58.6	33.6	46.1	4.7	3.3	3.6	31	20	10	2	-7777	0	298	347	427	569	0.0	0.0	22.1	0.3	13.3	0.0
12	46.5	23.5	35.0	5.5	4.9	5.1	5	3	1	-7777	0	0	624	684	776	930	0.0	0.0	12.3	3.6	25.0	0.9
Summary	68.5	43.5	56.0	4.0	3.2	3.3	3043	2657	2122	1344	731	535	2643	2985	3547	4598	3.8	43.5	294.0	12.6	108.4	2.9

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1981-2010**

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BILLINGS 2 N, MO US**

GHCND:USC00230657
Elev: 1332 ft. Lat: 37.054° N Lon: 93.575° W

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	.25	.50	.75
1	2.36	6.8	4.5	1.6	0.6	1.17	1.98	3.36
2	2.36	6.4	4.6	1.6	0.5	1.22	2.19	3.40
3	3.76	9.1	6.7	2.6	1.0	2.18	3.23	4.90
4	3.97	9.6	6.7	2.8	1.2	2.72	3.54	4.94
5	4.73	10.6	7.7	3.3	1.5	2.86	4.41	5.21
6	4.53	9.8	7.0	3.3	1.3	2.70	3.57	5.32
7	3.60	7.5	4.9	2.3	1.2	2.12	3.39	5.16
8	3.64	6.7	5.0	2.3	1.3	1.80	3.44	4.62
9	4.79	7.0	5.6	3.0	1.8	2.09	3.76	6.24
10	3.50	8.0	5.7	2.4	0.9	2.27	3.01	3.80
11	4.27	8.2	6.0	3.0	1.2	1.85	3.67	6.00
12	3.00	7.5	5.1	2.0	0.8	1.36	2.66	3.71
Summary	44.51	97.2	69.5	30.2	13.3	24.34	38.85	56.66

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BILLINGS 2 N, MO US**

GHCND:USC00230657
Elev: 1332 ft. Lat: 37.054° N Lon: 93.575° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.2	2.1	1.7	0.9	0.2	0.1	6.3	3.3	1.3	0.1	2.0	4.0	8.4
2	3.3	1.7	1.4	0.4	0.2	0.1	3.4	1.8	0.6	0.2	1.0	2.0	4.0
3	1.5	0.6	0.5	0.2	0.1	0.1	0.8	0.4	0.2	0.1	0.0	0.0	1.0
4	0.1	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.3	0.2	0.1	-7777	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.5
12	3.9	1.5	1.3	0.7	0.2	0.0	3.5	2.4	1.7	0.2	0.0	1.0	6.5
Summary	14.6	6.2	5.1	2.3	0.7	0.3	14.2	7.9	3.8	0.6	3.0	7.0	20.4

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National Oceanic & Atmospheric Administration
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BILLINGS 2 N, MO US**

GHCND:USC00230657
Elev: 1332 ft. Lat: 37.054° N Lon: 93.575° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	56	90	247	470	764	990	1172	1158	877	536	236	68
45	26	44	151	335	609	840	1017	1003	727	390	143	32
50	10	18	83	218	456	690	862	848	579	259	74	13
55	3	5	38	125	311	540	707	693	433	152	31	5
60	-7777	1	14	61	183	392	552	538	296	74	10	1
Growing Degree Units for Corn (Monthly)												
50/86	50	77	178	305	483	665	791	762	572	343	160	56

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	56	146	393	863	1627	2617	3789	4947	5824	6360	6596	6664
45	26	70	221	556	1165	2005	3022	4025	4752	5142	5285	5317
50	10	28	111	329	785	1475	2337	3185	3764	4023	4097	4110
55	3	8	46	171	482	1022	1729	2422	2855	3007	3038	3043
60	0	1	15	76	259	651	1203	1741	2037	2111	2121	2122
Growing Degree Units for Corn (Monthly)												
50/86	50	127	305	610	1093	1758	2549	3311	3883	4226	4386	4442

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **OZARK, MO US**

GHCND:USC00236452
Elev: 1134 ft. Lat: 37.019° N Lon: 93.234° W

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	.25	.50	.75
1	2.29	4.5	3.5	1.1	0.6	0.57	1.82	3.78
2	2.33	4.9	4.1	1.5	0.7	1.07	2.17	3.71
3	3.93	7.2	6.2	2.8	1.1	1.99	3.29	4.85
4	4.07	7.6	6.2	2.7	1.4	2.32	3.40	4.84
5	4.78	8.7	7.6	3.5	1.3	3.37	4.47	5.11
6	4.43	7.7	6.6	3.1	1.3	2.43	3.63	6.36
7	4.03	6.0	5.2	2.8	1.5	2.24	3.81	5.96
8	3.11	4.5	3.6	2.0	1.0	1.49	2.89	4.24
9	4.49	5.7	5.1	2.9	1.6	1.88	3.61	6.30
10	3.77	6.8	5.9	2.4	1.2	2.38	3.23	4.84
11	4.14	6.6	5.8	2.9	1.4	1.37	3.73	6.16
12	3.19	5.2	4.1	1.9	1.1	1.41	2.46	3.57
Summary	44.56	75.4	63.9	29.6	14.2	22.52	38.51	59.72

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **OZARK, MO US**

GHCND:USC00236452
Elev: 1134 ft. Lat: 37.019° N Lon: 93.234° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.5	1.2	1.1	0.4	0.1	0.0	2.5	1.2	0.3	0.0	0.0	2.0	5.5
2	2.6	0.7	0.7	0.2	0.1	-7777	2.7	1.2	0.3	0.0	0.0	0.0	2.5
3	0.3	0.1	0.1	-7777	-7777	0.0	0.4	0.2	0.2	0.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
12	1.7	0.9	0.7	0.3	-7777	0.0	1.4	0.6	0.2	0.1	0.0	0.0	0.5
Summary	8.1	2.9	2.6	0.9	0.2	0.0	7.0	3.2	1.0	0.2	0.0	2.0	8.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEVADA WATER PLANT, MO US**

GHCND:USC00235987
 Elev: 820 ft. Lat: 37.839° N Lon: 94.374° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.4	22.4	32.4	5.5	4.0	4.5	2	1	-7777	-7777	0	0	702	763	856	1011	0.0	0.0	9.3	6.6	25.4	1.0
2	47.6	26.8	37.2	5.5	4.5	4.8	6	3	1	-7777	0	0	504	558	640	779	0.0	0.0	12.2	3.3	18.9	0.6
3	57.6	36.5	47.1	4.1	3.5	3.5	47	34	19	5	1	-7777	294	342	420	562	0.0	0.0	22.0	0.7	10.2	0.0
4	67.7	46.3	57.0	4.0	3.3	3.5	152	120	81	34	10	5	92	120	171	274	0.0	0.2	27.9	0.0	1.9	0.0
5	76.5	56.3	66.4	2.8	3.1	2.8	360	304	226	118	46	27	7	12	27	75	0.0	0.7	31.0	0.0	-7777	0.0
6	85.0	65.3	75.2	2.9	2.2	2.4	604	545	455	310	178	131	-7777	-7777	1	6	0.1	6.4	30.0	0.0	0.0	0.0
7	89.9	69.6	79.8	2.6	2.2	2.1	767	705	612	457	305	246	0	0	0	-7777	1.3	16.3	31.0	0.0	0.0	0.0
8	89.8	68.0	78.9	3.8	2.9	3.2	741	679	586	432	284	230	0	0	-7777	1	2.1	16.0	31.0	0.0	0.0	0.0
9	81.1	58.7	69.9	3.4	3.0	2.9	454	398	317	195	102	73	7	11	20	48	0.3	4.5	30.0	0.0	0.1	0.0
10	70.3	47.2	58.7	3.0	3.2	2.6	183	145	97	40	10	5	67	91	136	233	0.0	0.2	30.1	0.0	2.3	0.0
11	57.2	36.8	47.0	4.7	3.4	3.7	44	31	17	4	1	-7777	284	331	407	544	0.0	0.0	20.9	0.4	10.0	0.0
12	44.7	25.8	35.2	5.1	5.5	5.2	4	3	1	-7777	0	0	616	677	768	922	0.0	0.0	10.6	4.1	22.0	0.7
Summary	67.5	46.6	57.1	4.0	3.4	3.4	3364	2968	2412	1595	937	717	2573	2905	3446	4455	3.8	44.3	286.0	15.1	90.8	2.3

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEVADA WATER PLANT, MO US**

GHCND:USC00235987
Elev: 820 ft. Lat: 37.839° N Lon: 94.374° W

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	.25	.50	.75
1	1.54	6.4	3.5	0.9	0.3	0.63	1.47	2.21
2	2.09	6.1	3.9	1.3	0.6	0.69	1.98	2.86
3	3.38	8.8	6.0	2.2	0.9	1.89	3.03	4.86
4	4.92	9.8	6.3	2.8	1.5	2.46	3.88	5.98
5	6.04	11.5	8.3	4.3	1.7	4.25	5.72	7.34
6	5.89	10.6	7.8	3.7	2.1	3.66	5.36	8.12
7	4.65	8.4	6.3	3.0	1.3	2.95	4.02	6.92
8	3.67	6.9	5.1	2.4	1.1	2.10	3.15	5.06
9	4.55	7.6	5.9	2.8	1.2	1.74	2.97	6.25
10	4.05	8.6	5.6	2.3	1.2	1.68	3.01	5.28
11	3.26	8.0	5.1	2.3	1.1	2.04	2.73	4.50
12	2.41	6.8	4.3	1.8	0.5	1.22	2.00	3.17
Summary	46.45	99.5	68.1	29.8	13.5	25.31	39.32	62.55

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www.ncdc.noaa.gov

Station: **NEVADA WATER PLANT, MO US**

GHCND:USC00235987
Elev: 820 ft. Lat: 37.839° N Lon: 94.374° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.6	2.3	1.2	0.5	0.1	0.0	4.4	1.8	0.3	0.0	0.3	1.8	3.9
2	2.1	1.2	0.9	0.3	-7777	0.0	2.9	1.3	0.2	0.0	0.0	0.8	4.0
3	1.0	0.6	0.5	0.1	-7777	0.0	0.4	0.1	0.1	0.0	0.0	0.0	2.0
4	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
12	2.8	1.7	1.1	0.3	0.1	0.0	3.7	2.0	0.6	0.1	0.0	1.4	5.5
Summary	8.7	6.0	3.8	1.3	0.2	0.0	11.6	5.3	1.2	0.1	0.3	4.0	15.4

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Station: NEVADA WATER PLANT, MO US

GHCND:USC00235987
Elev: 820 ft. Lat: 37.839° N Lon: 94.374° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	92	270	513	818	1054	1232	1206	897	583	259	68
45	18	45	170	375	663	904	1077	1051	747	434	164	30
50	6	18	96	252	509	754	922	896	598	297	91	12
55	2	6	47	152	360	604	767	741	454	183	44	4
60	-7777	1	19	81	226	455	612	586	317	97	17	1
Growing Degree Units for Corn (Monthly)												
50/86	36	64	165	307	521	724	845	815	591	360	153	44

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	139	409	922	1740	2794	4026	5232	6129	6712	6971	7039
45	18	63	233	608	1271	2175	3252	4303	5050	5484	5648	5678
50	6	24	120	372	881	1635	2557	3453	4051	4348	4439	4451
55	2	8	55	207	567	1171	1938	2679	3133	3316	3360	3364
60	0	1	20	101	327	782	1394	1980	2297	2394	2411	2412
Growing Degree Units for Corn (Monthly)												
50/86	36	100	265	572	1093	1817	2662	3477	4068	4428	4581	4625

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LICKING 4 N, MO US**

GHCND:USC00234919
Elev: 1180 ft. Lat: 37.554° N Lon: 91.883° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.7	20.3	31.0	4.7	4.7	4.4	2	1	-7777	-7777	0	0	746	807	899	1054	0.0	0.0	8.3	7.1	26.5	1.8
2	46.8	24.5	35.6	4.8	4.9	4.7	4	3	1	-7777	0	0	546	600	683	822	0.0	0.0	11.7	3.8	21.2	0.8
3	56.6	33.1	44.8	4.0	3.2	3.4	35	24	13	3	-7777	-7777	349	401	482	628	0.0	0.0	21.6	0.7	14.9	-7777
4	67.5	42.8	55.1	3.8	3.5	3.5	127	99	64	25	5	2	122	154	209	320	0.0	0.1	27.9	0.0	4.8	0.0
5	75.3	52.6	64.0	2.7	3.6	2.9	294	242	173	82	26	13	16	27	51	114	0.0	0.3	31.0	0.0	0.5	0.0
6	83.0	61.5	72.2	2.8	2.5	2.4	518	459	371	233	115	77	1	1	3	15	0.0	3.7	30.0	0.0	0.0	0.0
7	87.8	65.9	76.9	2.5	2.2	2.0	677	615	522	369	223	169	0	0	-7777	2	0.4	11.3	31.0	0.0	0.0	0.0
8	87.8	64.4	76.1	3.9	2.9	3.2	654	592	500	348	209	159	-7777	-7777	1	5	0.9	11.9	31.0	0.0	0.0	0.0
9	79.5	55.3	67.4	2.9	2.9	2.7	384	330	254	144	64	41	12	18	32	72	0.1	2.3	29.9	0.0	0.2	0.0
10	68.3	43.7	56.0	3.2	3.0	2.7	133	101	61	21	4	2	102	132	185	300	0.0	0.0	29.9	-7777	4.4	0.0
11	56.2	34.6	45.4	5.0	3.2	3.8	32	21	10	2	-7777	0	320	369	448	590	0.0	0.0	20.1	0.5	12.9	0.0
12	43.9	23.6	33.7	5.3	5.4	5.2	4	2	1	-7777	0	0	662	723	814	969	0.0	0.0	9.8	5.0	24.6	1.1
Summary	66.2	43.5	54.9	3.8	3.5	3.4	2864	2489	1970	1227	646	463	2876	3232	3807	4891	1.4	29.6	282.2	17.1	110.0	3.7

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U.S. Department of Commerce
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**Summary of
Monthly Normals
1981-2010**

Station: **LICKING 4 N, MO US**

GHCND:USC00234919
Elev: 1180 ft. Lat: 37.554° N Lon: 91.883° W

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	.25	.50	.75
1	2.63	7.4	4.9	1.5	0.6	1.45	2.43	3.57
2	2.73	7.4	5.0	2.1	0.5	1.65	2.19	4.21
3	3.85	10.0	7.2	2.8	0.8	2.44	3.24	4.76
4	4.32	10.5	7.4	2.9	1.2	2.88	4.10	4.93
5	5.21	12.3	8.4	3.6	1.5	4.20	4.80	6.12
6	4.52	9.8	7.0	3.1	1.5	2.37	3.76	6.35
7	3.63	8.5	6.1	2.5	0.9	2.26	3.38	4.72
8	3.26	7.9	5.5	2.2	1.0	2.10	2.80	3.89
9	4.64	8.1	5.9	2.7	1.6	2.44	4.69	6.19
10	3.77	8.9	6.3	2.4	0.8	2.24	3.22	4.77
11	4.55	9.6	6.7	3.2	1.3	2.58	4.10	6.30
12	3.40	8.6	5.7	2.3	0.9	1.85	2.65	3.79
Summary	46.51	109.0	76.1	31.3	12.6	28.46	41.36	59.60

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **LICKING 4 N, MO US**

GHCND:USC00234919
 Elev: 1180 ft. Lat: 37.554° N Lon: 91.883° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.7	2.1	1.2	0.5	0.3	-7777	6.2	3.2	1.3	-7777	0.3	3.7	6.6
2	3.1	2.2	1.1	0.3	0.2	0.0	4.1	2.0	1.3	0.4	0.2	2.0	4.5
3	2.2	0.8	0.5	0.2	0.1	-7777	1.1	0.5	0.4	-7777	0.0	0.4	3.5
4	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	0.1	0.3	-7777	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12	4.3	2.1	1.2	0.4	0.1	-7777	3.3	1.5	1.1	0.1	0.4	2.3	5.2
Summary	14.4	7.5	4.0	1.4	0.7	0.0	14.8	7.2	4.1	0.5	0.9	8.4	19.8

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**Summary of
 Monthly Normals
 1981-2010**

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 www.ncdc.noaa.gov

Station: **LICKING 4 N, MO US**

GHCND:USC00234919
 Elev: 1180 ft. Lat: 37.554° N Lon: 91.883° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	44	76	224	462	742	967	1142	1119	822	500	226	59
45	18	37	136	330	588	817	987	964	673	357	138	27
50	7	15	75	216	436	667	832	809	526	233	72	11
55	2	4	35	127	294	518	677	654	384	133	32	4
60	-7777	1	13	64	173	371	522	500	254	61	10	1
Growing Degree Units for Corn (Monthly)												
50/86	34	57	149	292	470	654	780	751	538	314	138	39

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	44	120	344	806	1548	2515	3657	4776	5598	6098	6324	6383
45	18	55	191	521	1109	1926	2913	3877	4550	4907	5045	5072
50	7	22	97	313	749	1416	2248	3057	3583	3816	3888	3899
55	2	6	41	168	462	980	1657	2311	2695	2828	2860	2864
60	0	1	14	78	251	622	1144	1644	1898	1959	1969	1970
Growing Degree Units for Corn (Monthly)												
50/86	34	91	240	532	1002	1656	2436	3187	3725	4039	4177	4216

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
 -7777: a non-zero value that would round to zero
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MILAN, MO US**

GHCND:USC00235578
Elev: 840 ft. Lat: 40.221° N Lon: 93.110° W

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	.25	.50	.75
1	1.10	5.8	3.3	0.4	0.1	0.61	1.06	1.36
2	1.42	6.3	3.7	0.7	0.2	0.80	1.27	1.98
3	2.44	7.8	5.3	1.5	0.6	1.37	2.26	3.16
4	3.80	10.0	7.5	2.6	0.9	2.47	3.83	5.12
5	5.86	12.2	9.4	3.9	1.6	3.88	5.68	7.23
6	4.63	10.3	7.9	3.0	1.3	2.80	4.78	6.41
7	5.14	9.4	6.4	3.0	1.4	1.86	3.23	7.21
8	4.55	9.0	6.6	3.2	1.3	2.56	3.97	6.18
9	4.22	8.2	6.5	2.6	1.2	2.16	3.17	5.05
10	3.32	8.8	5.9	2.1	0.7	1.62	2.85	4.23
11	2.58	7.3	4.9	2.0	0.6	1.25	2.21	3.59
12	1.63	6.4	3.9	1.0	0.3	0.97	1.49	2.26
Summary	40.69	101.5	71.3	26.0	10.2	22.35	35.80	53.78

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**Summary of
Monthly Normals
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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MILAN, MO US**

GHCND:USC00235578
Elev: 840 ft. Lat: 40.221° N Lon: 93.110° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.3	2.6	2.1	0.7	0.1	0.0	12.3	7.3	3.0	0.1	3.0	4.5	8.0
2	4.6	2.6	2.1	0.6	0.2	0.0	9.4	4.6	2.0	0.1	1.5	4.0	6.5
3	2.2	1.2	1.1	0.3	0.0	0.0	3.0	1.1	0.3	0.0	0.0	1.0	4.0
4	0.5	0.2	0.2	-7777	-7777	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
11	0.8	0.4	0.4	0.1	-7777	0.0	0.7	0.3	0.1	0.0	0.0	0.0	1.0
12	4.1	2.8	2.2	0.6	0.1	0.0	8.3	4.7	1.9	0.4	0.5	2.2	8.0
Summary	17.6	9.8	8.1	2.3	0.4	0.0	34.0	18.1	7.4	0.6	5.0	11.7	27.5

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Monthly Normals
1981-2010**

National Climatic Data Center
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Station: **POLK 2 NE, MO US**

GHCND:USC00236760
Elev: 960 ft. Lat: 37.750° N Lon: 93.266° W

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	.25	.50	.75
1	1.73	5.6	3.7	1.4	0.7	0.63	1.55	2.54
2	2.02	5.1	3.8	1.4	0.5	1.16	1.71	3.15
3	3.34	7.4	6.2	2.2	0.7	2.21	2.86	4.72
4	4.48	7.8	6.8	3.1	1.5	2.92	4.07	5.84
5	5.38	9.4	8.0	3.7	1.5	3.84	5.18	6.90
6	4.30	7.8	6.4	3.2	1.5	2.50	3.24	5.80
7	3.71	6.8	5.7	2.9	1.4	1.87	3.79	4.90
8	3.94	5.4	4.2	1.8	1.1	1.62	3.58	6.07
9	4.00	6.1	5.0	2.5	1.4	1.65	3.01	4.76
10	3.94	6.2	4.6	2.3	1.2	1.74	2.91	5.31
11	3.56	6.8	5.3	2.3	1.0	1.94	3.23	4.88
12	2.73	4.8	3.9	1.6	0.6	1.30	2.45	3.39
Summary	43.13	79.2	63.6	28.4	13.1	23.38	37.58	58.26

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
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 www.ncdc.noaa.gov

Station: **MOUNT VERNON MU SW CNTR, MO US**

GHCND:USC00235862
 Elev: 1190 ft. Lat: 37.073° N Lon: 93.879° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.6	21.5	32.6	5.1	4.0	4.4	3	1	-7777	0	0	0	698	759	851	1006	0.0	0.0	10.1	5.7	26.0	1.4
2	48.4	25.7	37.0	5.0	4.1	4.4	5	3	1	-7777	-7777	-7777	508	561	643	783	0.0	0.0	13.1	3.2	20.2	0.5
3	57.6	34.6	46.1	3.6	3.2	3.3	40	28	15	3	-7777	-7777	316	365	445	589	0.0	0.0	22.1	0.7	13.0	0.0
4	67.3	43.6	55.4	3.3	3.6	3.3	130	100	65	25	5	2	116	147	202	312	0.0	0.0	28.1	0.0	4.0	0.0
5	75.3	53.7	64.5	2.9	3.1	2.9	309	256	184	88	28	14	14	23	44	103	0.0	0.1	31.0	0.0	0.1	0.0
6	83.5	62.4	72.9	3.1	2.6	2.6	539	480	391	251	128	87	1	1	3	13	0.0	3.5	30.0	0.0	0.0	0.0
7	88.8	66.7	77.7	2.3	2.3	2.0	705	643	550	396	248	192	0	0	-7777	1	0.4	13.8	31.0	0.0	0.0	0.0
8	89.4	65.4	77.4	4.0	2.9	3.2	694	632	539	387	243	191	-7777	-7777	-7777	3	1.6	15.3	31.0	0.0	0.0	0.0
9	80.7	56.3	68.5	3.5	3.1	3.0	415	360	282	168	80	54	10	15	27	63	0.2	3.7	30.0	0.0	0.2	0.0
10	69.7	44.7	57.2	3.1	2.8	2.4	155	121	77	27	6	3	87	114	164	269	0.0	0.1	30.2	0.0	3.2	0.0
11	57.7	35.2	46.4	4.7	3.8	3.9	39	26	14	3	-7777	-7777	295	343	420	560	0.0	0.0	21.5	0.5	11.7	0.0
12	45.7	24.5	35.1	5.6	5.2	5.3	5	3	1	-7777	0	0	621	681	773	927	0.0	0.0	11.8	4.2	23.8	0.9
Summary	67.3	44.5	55.9	3.9	3.4	3.4	3039	2653	2119	1348	738	543	2666	3009	3572	4629	2.2	36.5	289.9	14.3	102.2	2.8

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MOUNT VERNON MU SW CNTR, MO US**

GHCND:USC00235862
Elev: 1190 ft. Lat: 37.073° N Lon: 93.879° W

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	.25	.50	.75
1	2.37	7.2	3.9	1.2	0.6	0.95	2.29	3.04
2	2.14	6.9	4.4	1.3	0.4	1.05	2.12	2.83
3	3.54	9.7	6.4	2.3	0.8	2.22	2.91	4.02
4	4.05	10.5	6.5	2.5	1.2	2.87	3.65	4.54
5	5.18	12.2	7.7	3.6	1.6	3.88	5.05	5.83
6	5.57	10.5	7.8	3.5	1.9	3.17	4.51	7.75
7	3.75	8.4	5.3	2.3	1.3	2.23	3.12	4.82
8	3.84	8.0	5.0	2.3	1.4	2.18	3.13	4.75
9	4.99	8.1	5.5	2.9	1.4	2.96	3.90	6.46
10	3.52	9.5	6.0	2.4	0.8	1.52	2.61	4.98
11	4.43	8.7	5.7	2.9	1.4	2.19	3.92	5.95
12	2.89	7.8	5.2	2.3	0.8	1.36	2.92	3.94
Summary	46.27	107.5	69.4	29.5	13.6	26.58	40.13	58.91

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Federal Building
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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MOUNT VERNON MU SW CNTR, MO US**

GHCND:USC00235862
Elev: 1190 ft. Lat: 37.073° N Lon: 93.879° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.1	1.6	1.2	0.4	0.1	0.0	5.9	3.2	1.0	0.1	1.0	1.5	2.9
2	2.0	1.2	0.7	0.2	0.2	-7777	2.9	1.1	0.5	-7777	0.0	1.0	2.5
3	1.8	0.6	0.4	0.2	0.1	-7777	1.0	0.5	0.4	0.1	0.0	0.0	1.5
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.2	0.1	0.1	-7777	0.0	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.0
12	2.8	1.5	1.1	0.4	0.1	-7777	3.8	2.2	1.2	0.1	0.0	0.1	6.9
Summary	8.9	5.0	3.5	1.2	0.5	0.0	13.8	7.0	3.1	0.3	1.0	2.6	13.8

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **MOUNT VERNON MU SW CNTR, MO US**

GHCND:USC00235862
 Elev: 1190 ft. Lat: 37.073° N Lon: 93.879° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	54	90	251	470	759	988	1170	1159	855	536	250	74
45	23	45	155	336	605	838	1015	1004	705	391	156	34
50	8	19	86	222	453	688	860	849	558	261	85	14
55	3	5	40	130	309	539	705	694	415	155	39	5
60	-7777	1	15	65	184	391	550	539	282	77	14	1
Growing Degree Units for Corn (Monthly)												
50/86	44	67	161	292	480	672	799	773	560	339	156	53

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	54	144	395	865	1624	2612	3782	4941	5796	6332	6582	6656
45	23	68	223	559	1164	2002	3017	4021	4726	5117	5273	5307
50	8	27	113	335	788	1476	2336	3185	3743	4004	4089	4103
55	3	8	48	178	487	1026	1731	2425	2840	2995	3034	3039
60	0	1	16	81	265	656	1206	1745	2027	2104	2118	2119
Growing Degree Units for Corn (Monthly)												
50/86	44	111	272	564	1044	1716	2515	3288	3848	4187	4343	4396

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
 -7777: a non-zero value that would round to zero
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SULLIVAN 3 SE, MO US**

GHCND:USC00238171
Elev: 916 ft. Lat: 38.239° N Lon: 91.149° W

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	.25	.50	.75
1	2.50	5.8	4.7	1.7	0.9	1.16	2.00	3.77
2	2.60	5.8	4.6	1.6	0.6	1.65	2.68	3.59
3	3.55	8.2	6.6	2.8	1.0	2.58	3.01	4.70
4	4.47	8.6	7.4	3.4	1.3	3.39	4.42	5.59
5	5.05	9.0	7.6	3.4	1.4	2.86	5.10	6.37
6	4.22	7.2	5.9	2.8	1.1	2.07	3.79	5.82
7	4.09	7.2	6.2	3.1	1.4	2.40	2.95	4.46
8	3.27	6.0	5.1	2.4	0.9	2.26	2.80	4.34
9	4.19	5.6	4.7	2.5	1.4	2.09	3.39	4.55
10	3.48	6.5	5.1	2.7	1.1	2.30	3.34	4.39
11	4.06	6.9	5.8	2.6	1.1	2.07	3.40	5.66
12	3.19	6.1	5.1	1.8	0.6	1.48	2.49	3.64
Summary	44.67	82.9	68.8	30.8	12.8	26.31	39.37	56.88

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SULLIVAN 3 SE, MO US**

GHCND:USC00238171
Elev: 916 ft. Lat: 38.239° N Lon: 91.149° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.1	1.1	0.8	0.2	0.2	0.1	@	@	@	@	0.0	0.0	2.8
2	2.7	1.4	1.2	0.3	0.1	0.0	@	@	@	@	0.0	0.1	4.5
3	1.2	0.5	0.4	0.1	0.1	0.0	@	@	@	@	0.0	0.0	2.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.3	0.2	0.1	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	4.5	1.3	1.1	0.4	0.4	0.0	@	@	@	@	0.0	0.0	5.0
Summary	10.8	4.5	3.6	1.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.1	14.3

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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ROUND SPRING, MO US**

GHCND:USC00237309
 Elev: 818 ft. Lat: 37.260° N Lon: 91.428° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.1	18.7	31.4				2	1	1	0	0	0	733	795	887	1042	0.0	0.0	10.2	5.5	26.0	1.8
2	48.9	21.4	35.2				3	1	1	0	0	0	558	613	696	836	0.0	0.0	12.7	2.6	23.4	0.3
3	59.8	30.3	45.1				22	14	7	2	-7777	-7777	330	385	471	620	0.0	0.0	24.9	0.1	18.1	0.0
4	70.2	40.2	55.2				118	89	55	18	4	2	112	143	199	312	0.0	0.5	28.9	0.0	7.0	0.0
5	77.5	50.1	63.8				285	233	161	67	16	7	12	22	44	104	0.0	0.5	31.0	0.0	0.9	0.0
6	85.3	59.1	72.2				516	457	368	227	109	74	-7777	1	3	11	0.1	7.1	30.0	0.0	0.0	0.0
7	89.6	63.9	76.8				674	612	519	364	217	163	0	0	-7777	-7777	0.3	16.3	31.0	0.0	0.0	0.0
8	89.4	62.1	75.8				643	581	489	337	197	146	0	0	1	5	1.3	13.3	31.0	0.0	0.0	0.0
9	81.1	52.8	67.0				365	310	232	122	46	27	6	12	24	63	0.0	2.5	30.0	0.0	0.0	0.0
10	71.0	40.1	55.6				108	80	47	16	3	1	91	125	185	309	0.0	0.0	30.9	0.0	6.7	0.0
11	58.8	30.1	44.5				16	10	4	1	-7777	-7777	333	386	471	618	0.0	0.0	22.6	0.3	17.0	0.0
12	46.1	21.0	33.6				1	-7777	-7777	0	0	0	665	727	819	975	0.0	0.0	10.8	2.0	26.2	0.4
Summary	68.5	40.8	54.7				2753	2388	1884	1154	592	420	2840	3209	3800	4895	1.7	40.2	294.0	10.5	125.3	2.5

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ROUND SPRING, MO US**

GHCND:USC00237309
Elev: 818 ft. Lat: 37.260° N Lon: 91.428° W

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	.25	.50	.75
1	2.42	6.1	4.4	1.5	0.7	1.25	2.17	3.23
2	3.12	7.4	5.2	2.3	0.7	1.69	2.70	4.41
3	3.74	7.7	6.0	2.1	0.9	2.55	3.23	4.24
4	4.18	8.6	7.1	2.8	1.3	2.55	4.02	5.07
5	4.73	10.0	7.6	3.2	1.1	3.39	4.64	5.55
6	4.42	8.7	6.3	2.9	1.2	2.00	3.17	5.87
7	3.87	7.2	5.7	2.8	1.3	2.35	3.55	5.17
8	3.37	6.9	4.8	2.2	1.0	1.91	3.07	4.80
9	4.00	6.7	4.9	2.4	1.4	2.20	3.25	5.60
10	3.70	7.5	6.0	2.7	1.0	2.35	2.76	4.81
11	4.74	7.7	6.1	3.2	1.6	2.54	4.31	6.50
12	3.94	6.5	4.7	2.2	0.8	2.61	3.77	4.72
Summary	46.23	91.0	68.8	30.3	13.0	27.39	40.64	59.97

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Asheville, North Carolina 28801
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Station: **ROUND SPRING, MO US**

GHCND:USC00237309
Elev: 818 ft. Lat: 37.260° N Lon: 91.428° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.6	1.2	0.9	0.5	0.2	0.0	3.7	2.2	1.1	0.0	0.0	0.0	4.5
2	4.6	2.4	1.4	0.4	0.2	0.0	5.6	3.2	1.7	0.0	0.5	2.6	9.0
3	1.3	0.4	0.2	0.1	0.1	0.0	0.5	0.3	0.1	0.0	0.0	0.0	1.6
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2.1	0.6	0.5	0.2	0.1	0.0	1.6	0.8	0.3	0.0	0.0	0.0	3.3
Summary	11.6	4.6	3.0	1.2	0.6	0.0	11.4	6.5	3.2	0.0	0.5	2.6	18.4

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ROUND SPRING, MO US**

GHCND:USC00237309
Elev: 818 ft. Lat: 37.260° N Lon: 91.428° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	60	209	460	738	966	1139	1108	808	484	190	40
45	22	28	121	326	583	816	984	953	658	337	105	14
50	7	10	59	208	430	666	829	798	509	207	48	5
55	2	3	22	118	285	516	674	643	365	108	16	1
60	1	1	7	55	161	368	519	489	232	47	4	-7777
Growing Degree Units for Corn (Monthly)												
50/86	43	67	176	316	479	641	759	729	535	339	154	38

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	47	107	316	776	1514	2480	3619	4727	5535	6019	6209	6249
45	22	50	171	497	1080	1896	2880	3833	4491	4828	4933	4947
50	7	17	76	284	714	1380	2209	3007	3516	3723	3771	3776
55	2	5	27	145	430	946	1620	2263	2628	2736	2752	2753
60	1	2	9	64	225	593	1112	1601	1833	1880	1884	1884
Growing Degree Units for Corn (Monthly)												
50/86	43	110	286	602	1081	1722	2481	3210	3745	4084	4238	4276

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

M indicates the value is missing

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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MEXICO, MO US**

GHCND:USC00235541
 Elev: 802 ft. Lat: 39.176° N Lon: 91.886° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.7	19.6	28.7	5.5	4.9	5.0	1	1	-7777	-7777	0	0	818	879	972	1127	0.0	0.0	5.3	9.9	27.1	1.9
2	42.7	22.7	32.7	5.8	5.6	5.5	3	1	1	-7777	-7777	0	627	682	765	904	0.0	0.0	8.8	6.5	21.9	1.4
3	54.4	31.7	43.1	4.3	3.3	3.5	29	21	12	3	-7777	-7777	399	453	537	684	0.0	0.0	18.9	1.3	16.4	-7777
4	66.3	42.5	54.4	4.0	3.5	3.5	115	89	58	23	6	3	133	167	226	341	0.0	0.2	26.9	0.0	3.9	0.0
5	74.8	52.2	63.5	3.2	3.2	3.1	281	231	162	75	25	13	18	29	54	122	0.0	0.6	30.9	0.0	-7777	0.0
6	83.7	62.2	73.0	2.8	2.3	2.4	539	479	391	252	133	94	-7777	1	3	14	0.1	5.2	30.0	0.0	0.0	0.0
7	87.9	67.0	77.4	2.4	1.7	1.8	696	634	541	386	237	183	0	0	0	-7777	0.7	12.1	31.0	0.0	0.0	0.0
8	87.1	64.9	76.0	3.7	3.1	3.3	651	589	496	344	205	157	-7777	-7777	-7777	3	0.9	11.1	31.0	0.0	0.0	0.0
9	79.2	55.8	67.5	3.1	2.9	2.8	385	332	255	145	67	46	10	17	30	70	-7777	3.0	30.0	0.0	-7777	0.0
10	67.6	44.1	55.9	3.0	3.1	2.6	128	97	60	20	5	3	102	133	188	304	0.0	0.2	29.5	0.0	2.8	0.0
11	54.4	34.1	44.2	4.8	3.9	4.0	26	17	8	1	-7777	-7777	349	400	481	624	0.0	0.0	18.6	0.9	12.8	0.0
12	40.4	22.8	31.6	6.1	5.5	5.6	2	1	-7777	-7777	0	0	727	788	881	1035	0.0	0.0	7.2	7.3	24.6	1.1
Summary	64.7	43.3	54.0	4.1	3.6	3.6	2856	2492	1984	1249	678	499	3183	3549	4137	5228	1.7	32.4	268.1	25.9	109.5	4.4

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Station: **MEXICO, MO US**

GHCND:USC00235541
Elev: 802 ft. Lat: 39.176° N Lon: 91.886° W

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	.25	.50	.75
1	2.01	7.2	3.9	1.1	0.6	0.94	2.06	3.01
2	2.21	7.3	4.4	1.3	0.5	1.22	1.95	3.20
3	2.99	10.0	6.8	1.9	0.4	2.40	2.81	3.47
4	4.04	10.3	7.1	2.7	1.0	2.19	3.95	5.25
5	5.49	12.9	9.6	3.7	1.7	4.10	5.30	6.17
6	5.27	10.4	7.4	3.1	1.5	3.15	5.51	7.26
7	4.33	9.1	6.8	2.9	1.5	1.77	3.16	4.93
8	3.89	8.1	5.8	2.8	1.0	2.25	3.56	4.82
9	4.41	7.5	5.3	2.3	1.0	1.97	2.53	5.89
10	3.19	8.6	5.7	2.4	0.7	2.02	2.93	3.79
11	3.60	8.5	6.1	2.5	0.8	1.81	2.98	4.52
12	2.89	8.5	5.5	1.8	0.6	1.47	2.79	3.54
Summary	44.32	108.4	74.4	28.5	11.3	25.29	39.53	55.85

@ Denotes mean number of days greater than 0 but less than 0.05.

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MEXICO, MO US**

GHCND:USC00235541
Elev: 802 ft. Lat: 39.176° N Lon: 91.886° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.6	2.8	2.3	0.7	0.2	0.0	@	@	@	@	1.0	2.8	8.0
2	4.3	2.3	1.7	0.5	0.1	0.0	@	@	@	@	1.0	3.8	7.4
3	2.6	1.1	0.8	0.3	0.1	0.0	@	@	@	@	0.0	1.0	3.0
4	0.1	0.1	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.6	0.4	0.3	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.3
12	5.4	2.6	2.0	0.8	0.2	-7777	@	@	@	@	1.0	5.4	7.7
Summary	18.6	9.3	7.1	2.4	0.6	0.0	0.0	0.0	0.0	0.0	3.0	13.0	26.4

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Summary of Monthly Normals 1981-2010

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Station: **MEXICO, MO US**

GHCND:USC00235541
Elev: 802 ft. Lat: 39.176° N Lon: 91.886° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	27	55	183	439	728	988	1161	1115	825	495	201	42
45	10	25	106	309	574	838	1006	961	675	351	120	17
50	3	8	57	198	422	688	851	806	527	226	60	7
55	1	3	29	115	281	539	696	651	385	128	26	2
60	-7777	1	12	58	162	391	541	496	255	60	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	20	40	124	269	450	666	796	752	531	298	118	25

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	27	82	265	704	1432	2420	3581	4696	5521	6016	6217	6259
45	10	35	141	450	1024	1862	2868	3829	4504	4855	4975	4992
50	3	11	68	266	688	1376	2227	3033	3560	3786	3846	3853
55	1	4	33	148	429	968	1664	2315	2700	2828	2854	2856
60	0	1	13	71	233	624	1165	1661	1916	1976	1984	1984
Growing Degree Units for Corn (Monthly)												
50/86	20	60	184	453	903	1569	2365	3117	3648	3946	4064	4089

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BUTLER 4 W, MO US**

GHCND:USC00231145
 Elev: 790 ft. Lat: 38.261° N Lon: 94.405° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.9	19.4	29.7	5.7	4.5	4.9	1	-7777	-7777	-7777	0	0	786	848	941	1096	0.0	0.0	7.3	7.9	27.2	1.6
2	46.1	23.0	34.6	5.8	4.9	5.1	3	1	-7777	-7777	0	0	575	630	713	853	0.0	0.0	11.4	4.5	22.5	1.0
3	56.8	32.8	44.8	4.5	3.5	3.7	33	22	11	3	-7777	-7777	349	401	483	629	0.0	0.0	21.4	0.8	15.4	-7777
4	66.2	43.1	54.6	4.3	3.4	3.6	117	91	58	21	5	2	127	161	218	332	0.0	-7777	27.7	0.0	4.5	0.0
5	75.5	54.6	65.0	3.3	3.2	2.9	323	269	195	96	33	19	11	19	39	95	0.0	0.2	31.0	0.0	0.1	0.0
6	83.8	64.0	73.9	2.7	2.5	2.3	567	507	419	275	147	104	-7777	-7777	2	8	0.0	4.0	30.0	0.0	0.0	0.0
7	89.1	68.9	79.0	2.4	2.5	2.1	744	682	589	434	282	224	0	0	0	-7777	0.8	13.8	31.0	0.0	0.0	0.0
8	88.7	66.4	77.5	4.0	2.8	3.2	699	637	544	391	246	194	0	-7777	-7777	2	1.6	13.2	31.0	0.0	0.0	0.0
9	80.4	56.9	68.6	3.5	3.0	2.9	417	362	282	166	81	56	8	12	23	57	0.2	3.2	30.0	0.0	0.1	0.0
10	69.6	45.1	57.4	3.2	2.9	2.6	155	121	79	29	7	4	83	110	161	267	0.0	0.1	30.0	0.0	3.2	0.0
11	55.9	33.6	44.7	5.1	3.5	3.9	29	19	9	2	-7777	-7777	337	386	466	609	0.0	0.0	20.3	0.7	14.1	0.0
12	42.9	23.0	33.0	5.5	5.3	5.2	3	2	1	-7777	0	0	686	747	839	993	0.0	0.0	9.6	5.5	24.8	1.3
Summary	66.2	44.2	55.2	4.2	3.5	3.5	3091	2713	2187	1417	801	603	2962	3314	3885	4941	2.6	34.5	280.7	19.4	111.9	3.9

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BUTLER 4 W, MO US**

GHCND:USC00231145
Elev: 790 ft. Lat: 38.261° N Lon: 94.405° W

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	.25	.50	.75
1	1.52	7.0	3.6	0.8	0.2	0.68	1.59	2.12
2	1.93	6.2	3.5	1.2	0.5	0.78	1.82	2.49
3	2.84	9.2	5.6	1.7	0.7	2.04	2.54	3.57
4	4.28	10.3	6.6	3.0	1.3	2.54	3.86	5.25
5	5.91	12.0	8.2	3.8	1.5	3.53	5.65	7.72
6	6.31	10.5	7.3	3.7	2.2	4.03	5.47	7.46
7	4.15	8.6	6.3	2.6	1.1	2.21	3.32	5.50
8	3.68	8.0	5.6	2.6	1.1	1.35	3.40	4.65
9	4.40	8.0	5.9	2.8	1.4	2.25	3.33	5.11
10	3.77	9.0	5.8	2.4	1.1	1.83	3.57	5.49
11	3.04	7.9	5.1	1.9	0.9	1.33	2.86	3.80
12	2.16	7.1	3.9	1.6	0.5	0.78	1.61	3.36
Summary	43.99	103.8	67.4	28.1	12.5	23.35	39.02	56.52

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1981-2010**

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www.ncdc.noaa.gov

Station: **BUTLER 4 W, MO US**

GHCND:USC00231145
Elev: 790 ft. Lat: 38.261° N Lon: 94.405° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.2	1.7	1.0	0.5	0.1	0.0	2.9	1.5	0.9	0.2	0.0	0.8	2.5
2	2.1	1.3	0.7	0.3	-7777	0.0	2.2	1.0	0.2	0.0	0.0	0.1	4.0
3	0.6	0.2	0.2	-7777	-7777	0.0	0.3	0.2	-7777	0.0	0.0	0.0	0.0
4	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.1	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2.4	1.5	0.8	0.3	0.1	-7777	2.1	1.7	0.7	0.1	0.0	0.3	3.0
Summary	8.4	4.8	2.7	1.1	0.2	0.0	7.5	4.4	1.8	0.3	0.0	1.2	9.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BUTLER 4 W, MO US**

GHCND:USC00231145
Elev: 790 ft. Lat: 38.261° N Lon: 94.405° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	28	65	219	447	776	1017	1209	1164	859	540	211	50
45	10	29	132	316	622	867	1054	1009	710	395	127	22
50	3	10	71	202	468	717	899	854	561	264	67	9
55	1	3	33	117	323	567	744	699	417	155	29	3
60	-7777	-7777	11	58	195	419	589	544	282	79	9	1
Growing Degree Units for Corn (Monthly)												
50/86	24	55	151	275	490	698	834	785	563	340	133	35

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	28	93	312	759	1535	2552	3761	4925	5784	6324	6535	6585
45	10	39	171	487	1109	1976	3030	4039	4749	5144	5271	5293
50	3	13	84	286	754	1471	2370	3224	3785	4049	4116	4125
55	1	4	37	154	477	1044	1788	2487	2904	3059	3088	3091
60	0	0	11	69	264	683	1272	1816	2098	2177	2186	2187
Growing Degree Units for Corn (Monthly)												
50/86	24	79	230	505	995	1693	2527	3312	3875	4215	4348	4383

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

M indicates the value is missing

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **LURAY 2 N, MO US**

GHCND:USC00235130
 Elev: 740 ft. Lat: 40.487° N Lon: 91.876° W

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	.25	.50	.75
1	1.31	@	@	@	@			
2	1.59	@	@	@	@			
3	2.56	@	@	@	@			
4	3.59	@	@	@	@			
5	5.31	@	@	@	@			
6	4.62	@	@	@	@			
7	4.52	@	@	@	@			
8	3.99	@	@	@	@			
9	3.87	@	@	@	@			
10	3.12	@	@	@	@			
11	2.72	@	@	@	@			
12	1.87	@	@	@	@			
Summary	39.07	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: LINNEUS 3 SE, MO US

GHCND:USC00234982
 Elev: 814 ft. Lat: 39.857° N Lon: 93.150° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.1	15.1	24.6				-7777	0	0	0	0	0	941	1004	1097	1252	0.0	0.0	3.4	12.8	28.6	4.0
2	40.0	18.9	29.5				-7777	-7777	0	0	0	0	715	771	855	995	0.0	0.0	5.8	7.6	24.1	1.0
3	51.2	29.6	40.4				16	11	6	1	0	0	469	526	613	763	0.0	0.0	16.1	1.2	19.2	0.0
4	63.0	40.7	51.9				68	48	28	7	1	-7777	163	202	272	402	0.0	0.0	26.2	0.0	5.2	0.0
5	72.7	52.1	62.4				247	197	130	52	13	6	18	30	56	133	0.0	0.0	31.0	0.0	0.2	0.0
6	82.0	61.4	71.7				500	441	351	209	92	57	-7777	-7777	1	8	0.0	2.4	30.0	0.0	0.0	0.0
7	86.8	65.9	76.4				661	599	507	353	205	150	0	0	0	1	0.0	8.4	31.0	0.0	0.0	0.0
8	85.8	64.5	75.2				623	562	469	318	179	132	-7777	-7777	-7777	3	0.3	8.5	31.0	0.0	0.0	0.0
9	77.5	54.0	65.8				333	279	203	102	34	20	11	16	31	80	0.0	1.2	30.0	0.0	0.0	0.0
10	65.3	42.4	53.9				99	73	43	17	5	2	135	171	234	363	0.0	0.3	28.8	0.0	3.9	0.0
11	51.2	30.7	41.0				8	4	-7777	-7777	0	0	429	485	572	722	0.0	0.0	16.8	1.3	17.3	0.0
12	37.6	19.3	28.5				-7777	-7777	0	0	0	0	822	884	977	1133	0.0	0.0	3.9	9.3	28.3	1.2
Summary	62.3	41.2	51.8				2555	2214	1737	1059	529	367	3703	4089	4708	5855	0.3	20.8	254.0	32.2	126.8	6.2

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **LINNEUS 3 SE, MO US**

GHCND:USC00234982

Elev: 814 ft. Lat: 39.857° N Lon: 93.150° W

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	.25	.50	.75
1	1.21	@	@	@	@			
2	1.55	@	@	@	@			
3	2.76	@	@	@	@			
4	3.63	@	@	@	@			
5	5.41	@	@	@	@			
6	6.05	@	@	@	@			
7	4.86	@	@	@	@			
8	4.13	@	@	@	@			
9	4.49	@	@	@	@			
10	3.37	@	@	@	@			
11	2.67	@	@	@	@			
12	1.50	@	@	@	@			
Summary	41.63	0.0	0.0	0.0	0.0			

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Station: **LINNEUS 3 SE, MO US**

GHCND:USC00234982
Elev: 814 ft. Lat: 39.857° N Lon: 93.150° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	34	128	369	694	951	1126	1089	772	434	131	18
45	3	14	67	245	540	801	971	934	623	297	67	7
50	-7777	4	34	141	388	650	816	778	475	184	27	2
55	-7777	-7777	16	68	247	500	661	623	333	99	8	-7777
60	0	0	6	28	130	351	507	469	203	43	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	10	26	84	213	413	640	780	742	490	257	76	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	46	174	543	1237	2188	3314	4403	5175	5609	5740	5758
45	3	17	84	329	869	1670	2641	3575	4198	4495	4562	4569
50	0	4	38	179	567	1217	2033	2811	3286	3470	3497	3499
55	0	0	16	84	331	831	1492	2115	2448	2547	2555	2555
60	0	0	6	34	164	515	1022	1491	1694	1737	1737	1737
Growing Degree Units for Corn (Monthly)												
50/86	10	36	120	333	746	1386	2166	2908	3398	3655	3731	3742

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MARYVILLE 2 E, MO US**

GHCND:USC00235340
Elev: 985 ft. Lat: 40.346° N Lon: 94.834° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.1	14.3	24.2	6.0	5.6	5.6	0	0	0	0	0	0	955	1017	1110	1265	0.0	0.0	3.7	12.7	29.5	4.5
2	39.1	18.4	28.7	6.6	6.3	6.2	1	-7777	-7777	-7777	0	0	735	791	875	1015	0.0	0.0	6.7	8.4	24.9	2.6
3	51.3	28.8	40.1	4.7	3.6	3.7	13	9	4	1	-7777	-7777	477	534	623	774	0.0	0.0	16.5	2.2	19.3	0.2
4	63.3	39.4	51.4	4.3	2.8	3.3	76	57	35	13	3	1	185	226	294	422	0.0	0.4	25.8	0.0	6.6	0.0
5	73.4	50.9	62.1	3.8	3.1	3.1	249	202	139	62	19	10	28	42	73	150	0.0	0.9	30.8	0.0	0.1	0.0
6	82.5	61.0	71.7	2.8	2.7	2.6	503	444	356	220	108	73	1	1	4	18	0.1	4.0	30.0	0.0	0.0	0.0
7	86.9	65.3	76.1	2.7	2.1	2.1	654	592	499	345	200	149	0	0	-7777	1	0.5	10.1	31.0	0.0	0.0	0.0
8	85.6	62.7	74.2	3.6	3.1	3.2	594	532	439	290	158	114	-7777	-7777	1	6	0.6	8.4	31.0	0.0	0.0	0.0
9	78.1	52.9	65.5	3.3	2.7	2.7	331	279	208	110	45	29	16	25	43	95	0.0	2.8	29.9	0.0	0.3	0.0
10	66.2	40.8	53.5	3.4	2.9	2.7	96	72	42	15	4	3	143	180	244	371	0.0	0.1	28.6	-7777	5.4	0.0
11	50.7	29.5	40.1	5.5	3.8	4.3	12	7	3	-7777	-7777	-7777	459	514	600	747	0.0	0.0	15.5	2.4	18.8	0.1
12	36.8	17.8	27.3	6.3	6.3	6.1	-7777	-7777	-7777	0	0	0	859	921	1014	1168	0.0	0.0	4.8	10.4	28.7	2.7
Summary	62.3	40.2	51.2	4.4	3.8	3.8	2529	2194	1725	1056	537	379	3858	4251	4881	6032	1.2	26.7	254.3	36.1	133.6	10.1

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **MARYVILLE 2 E, MO US**

GHCND:USC00235340

Elev: 985 ft. Lat: 40.346° N Lon: 94.834° W

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	.25	.50	.75
1	0.82	4.7	2.9	0.5	0.1	0.42	0.69	1.24
2	1.13	6.0	2.9	0.5	0.1	0.56	0.99	1.45
3	2.43	7.6	4.8	1.7	0.5	1.37	1.83	3.82
4	3.60	9.8	6.8	2.2	0.6	1.77	3.74	5.02
5	5.08	11.5	8.0	3.3	1.4	3.41	4.72	5.39
6	4.99	10.8	7.7	3.4	1.7	3.03	4.39	7.01
7	5.09	9.4	6.7	3.2	1.6	2.63	4.47	6.05
8	4.06	8.4	5.8	2.7	1.3	1.62	3.13	5.64
9	3.50	7.4	5.4	2.2	1.0	1.61	2.92	5.51
10	3.01	8.2	5.4	2.2	0.8	1.42	3.21	4.55
11	2.10	6.7	3.9	1.5	0.4	1.37	1.81	2.90
12	1.44	5.3	3.1	1.0	0.3	0.54	1.40	1.87
Summary	37.25	95.8	63.4	24.4	9.8	19.75	33.30	50.45

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1981-2010**

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Station: **MARYVILLE 2 E, MO US**

GHCND:USC00235340
Elev: 985 ft. Lat: 40.346° N Lon: 94.834° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.2	2.2	1.5	0.5	-7777	0.0	@	@	@	@	0.0	2.0	5.6
2	4.6	2.1	1.2	0.4	0.2	0.0	@	@	@	@	0.3	3.3	7.2
3	1.6	1.0	0.7	0.1	0.1	0.0	@	@	@	@	0.0	1.0	2.5
4	0.6	0.2	0.1	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.7	0.6	0.2	0.0	0.0	0.0	@	@	@	@	0.0	0.0	1.0
12	2.6	2.4	1.4	0.7	0.1	0.0	@	@	@	@	0.0	1.0	3.2
Summary	13.3	8.5	5.1	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.3	7.3	19.5

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Summary of Monthly Normals 1981-2010

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Asheville, North Carolina 28801
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Station: **MARYVILLE 2 E, MO US**

GHCND:USC00235340
Elev: 985 ft. Lat: 40.346° N Lon: 94.834° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	25	131	357	687	952	1119	1059	765	427	128	15
45	1	8	70	236	532	802	964	903	616	293	67	4
50	-7777	2	33	141	383	652	809	748	470	180	31	1
55	0	1	13	76	249	503	654	594	331	96	12	-7777
60	0	-7777	4	35	139	356	499	439	208	42	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	10	24	98	220	415	636	761	708	487	271	86	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	33	164	521	1208	2160	3279	4338	5103	5530	5658	5673
45	1	9	79	315	847	1649	2613	3516	4132	4425	4492	4496
50	0	2	35	176	559	1211	2020	2768	3238	3418	3449	3450
55	0	1	14	90	339	842	1496	2090	2421	2517	2529	2529
60	0	0	4	39	178	534	1033	1472	1680	1722	1725	1725
Growing Degree Units for Corn (Monthly)												
50/86	10	34	132	352	767	1403	2164	2872	3359	3630	3716	3729

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MARSHALL, MO US**

GHCND:USW00013991
Elev: 790 ft. Lat: 39.134° N Lon: 93.222° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.0	18.6	27.8	5.9	4.9	5.1	1	-7777	-7777	0	0	0	844	905	998	1153	0.0	0.0	4.8	10.3	28.2	2.2
2	42.5	22.7	32.6	5.8	5.6	5.5	2	1	-7777	-7777	0	0	629	684	768	907	0.0	0.0	8.7	6.0	22.1	1.2
3	54.2	32.1	43.1	4.8	3.4	3.8	28	20	10	2	-7777	-7777	395	449	532	680	0.0	0.0	18.8	1.2	16.2	-7777
4	65.3	42.5	53.9	4.3	3.5	3.7	109	85	54	20	4	1	142	178	237	353	0.0	0.1	26.8	0.0	4.1	0.0
5	74.5	53.7	64.1	3.4	3.2	3.2	298	246	175	83	28	16	16	26	48	111	0.0	0.4	31.0	0.0	-7777	0.0
6	83.2	63.1	73.2	2.8	2.5	2.4	545	485	397	256	133	93	-7777	1	2	11	0.1	4.1	30.0	0.0	0.0	0.0
7	87.5	67.2	77.4	2.3	2.0	2.0	693	631	538	383	235	181	0	-7777	-7777	-7777	0.6	11.2	31.0	0.0	0.0	0.0
8	86.5	64.9	75.7	3.6	2.8	3.0	642	580	487	335	197	149	0	-7777	-7777	3	0.8	10.0	31.0	0.0	0.0	0.0
9	78.7	55.4	67.0	3.0	2.7	2.7	374	320	244	136	60	40	12	19	32	74	-7777	2.4	29.9	0.0	0.1	0.0
10	67.0	44.1	55.5	3.1	2.6	2.5	129	99	62	22	6	3	112	144	200	315	0.0	0.1	28.8	0.0	2.8	0.0
11	53.0	33.0	43.0	5.0	3.8	4.0	22	15	7	1	-7777	-7777	382	435	517	661	0.0	0.0	17.5	1.5	14.0	0.1
12	39.9	22.1	31.0	5.5	6.0	5.6	2	1	-7777	0	0	0	746	807	899	1054	0.0	0.0	6.6	8.0	26.2	1.2
Summary	64.1	43.3	53.7	4.1	3.6	3.6	2845	2483	1974	1238	663	483	3278	3648	4233	5322	1.5	28.3	264.9	27.0	113.7	4.7

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**Summary of
Monthly Normals
1981-2010**

Station: **MARSHALL, MO US**

GHCND:USW00013991
Elev: 790 ft. Lat: 39.134° N Lon: 93.222° W

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	.25	.50	.75
1	1.51	6.2	3.4	0.8	0.2	0.67	1.51	2.04
2	2.01	6.2	4.0	1.1	0.5	1.27	1.72	2.50
3	2.76	9.0	6.1	1.6	0.5	1.80	2.41	3.52
4	4.11	9.9	7.2	2.8	1.2	2.69	3.77	5.28
5	5.72	10.5	7.6	3.7	1.6	3.33	5.84	7.85
6	5.24	10.3	7.3	3.3	1.6	3.33	4.79	6.67
7	4.23	8.8	6.2	2.9	1.3	2.19	3.73	6.28
8	3.95	7.6	5.1	2.3	1.4	2.27	3.28	4.74
9	4.15	7.5	5.3	2.5	1.1	1.74	3.02	4.79
10	3.59	8.5	5.9	2.4	0.9	1.77	3.44	5.05
11	2.85	7.7	5.0	2.0	0.7	1.57	2.52	3.13
12	2.17	6.9	4.1	1.4	0.4	1.13	2.06	3.07
Summary	42.29	99.1	67.2	26.8	11.4	23.76	38.09	54.92

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Station: **MARSHALL, MO US**

GHCND:USW00013991
Elev: 790 ft. Lat: 39.134° N Lon: 93.222° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	20	50	187	427	747	994	1158	1106	811	487	179	37
45	7	21	109	298	592	844	1003	951	662	346	105	15
50	2	7	59	190	440	694	848	796	515	224	52	6
55	1	2	28	109	298	545	693	642	374	129	22	2
60	-7777	-7777	10	54	175	397	538	487	244	62	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	16	37	125	258	460	675	796	748	522	293	107	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	20	70	257	684	1431	2425	3583	4689	5500	5987	6166	6203
45	7	28	137	435	1027	1871	2874	3825	4487	4833	4938	4953
50	2	9	68	258	698	1392	2240	3036	3551	3775	3827	3833
55	1	3	31	140	438	983	1676	2318	2692	2821	2843	2845
60	0	0	10	64	239	636	1174	1661	1905	1967	1974	1974
Growing Degree Units for Corn (Monthly)												
50/86	16	53	178	436	896	1571	2367	3115	3637	3930	4037	4061

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

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEW FRANKLIN 1 W, MO US**

GHCND:USC00236012
Elev: 641 ft. Lat: 39.017° N Lon: 92.756° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.9	17.8	27.8	5.3	5.0	5.0	1	-7777	-7777	0	0	0	842	904	997	1151	0.0	0.0	5.4	9.6	28.5	2.5
2	42.9	21.8	32.3	5.5	5.6	5.4	2	1	-7777	-7777	0	0	636	691	774	914	0.0	0.0	8.8	5.7	23.2	1.4
3	54.2	32.2	43.2	4.1	3.1	3.5	27	19	10	2	-7777	-7777	393	446	531	678	0.0	0.0	19.0	1.4	16.3	0.0
4	64.9	42.4	53.6	4.3	3.3	3.6	104	80	50	18	3	1	145	181	241	359	0.0	0.1	26.6	-7777	4.0	0.0
5	74.3	53.2	63.7	3.4	3.5	3.3	289	238	168	79	25	14	18	28	52	118	0.0	0.4	30.9	0.0	-7777	0.0
6	82.9	62.5	72.7	2.7	2.2	2.3	531	472	384	243	123	84	-7777	1	3	12	0.1	3.0	30.0	0.0	0.0	0.0
7	87.6	66.6	77.1	2.4	2.0	1.8	685	623	530	376	228	174	0	0	-7777	1	0.5	11.1	31.0	0.0	0.0	0.0
8	86.7	64.7	75.7	3.8	2.9	3.2	642	580	487	335	196	148	-7777	-7777	-7777	3	0.8	10.1	31.0	0.0	0.0	0.0
9	78.7	55.0	66.9	2.9	2.7	2.6	368	314	239	132	57	37	12	19	33	76	-7777	2.4	30.0	0.0	0.1	0.0
10	67.4	43.3	55.4	3.0	2.7	2.5	120	91	56	18	4	2	109	142	200	317	0.0	0.1	29.3	0.0	3.7	0.0
11	54.1	33.4	43.7	4.9	3.8	4.0	25	16	8	1	-7777	-7777	363	414	495	639	0.0	0.0	18.1	1.0	13.9	0.1
12	40.7	21.6	31.2	5.4	5.7	5.4	2	1	-7777	0	0	0	741	802	894	1049	0.0	0.0	7.2	7.0	26.4	1.6
Summary	64.4	42.9	53.6	4.0	3.5	3.6	2796	2435	1932	1204	636	460	3259	3628	4220	5317	1.4	27.2	267.3	24.7	116.1	5.6

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Station: **NEW FRANKLIN 1 W, MO US**

GHCND:USC00236012
Elev: 641 ft. Lat: 39.017° N Lon: 92.756° W

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	.25	.50	.75
1	1.76	6.8	3.7	0.9	0.5	0.83	1.64	2.42
2	2.05	6.5	4.1	1.4	0.4	1.10	1.86	2.51
3	2.80	8.6	5.6	1.9	0.5	1.57	2.68	3.88
4	3.98	10.2	6.7	2.8	1.0	2.16	3.56	6.12
5	5.13	12.1	8.2	3.6	1.5	2.69	4.69	6.82
6	5.03	10.4	7.2	3.3	1.5	2.98	4.02	7.36
7	4.21	8.7	6.2	2.9	1.3	2.13	3.84	6.26
8	4.40	8.4	5.7	2.8	1.5	2.41	3.65	5.74
9	3.99	8.2	5.9	2.5	1.1	2.04	2.81	4.69
10	3.39	9.1	6.2	2.4	0.8	1.81	2.95	4.36
11	3.00	8.1	5.2	2.2	0.6	1.67	2.31	4.01
12	2.25	7.1	4.4	1.5	0.5	1.05	2.15	2.83
Summary	41.99	104.2	69.1	28.2	11.2	22.44	36.16	57.00

@ Denotes mean number of days greater than 0 but less than 0.05.

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEW FRANKLIN 1 W, MO US**

GHCND:USC00236012
Elev: 641 ft. Lat: 39.017° N Lon: 92.756° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.6	1.3	1.0	0.3	0.1	0.0	4.4	1.4	0.8	-7777	0.0	2.0	4.3
2	4.1	1.6	1.3	0.3	0.1	0.0	3.7	1.5	0.4	0.0	0.2	3.8	5.7
3	1.0	0.3	0.3	0.1	0.1	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.2	0.2	-7777	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
12	4.1	1.2	1.0	0.3	0.1	0.1	3.9	1.7	0.4	0.2	0.0	2.0	6.0
Summary	12.1	4.6	3.8	1.0	0.4	0.1	12.7	4.8	1.6	0.2	0.2	7.8	16.0

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**Summary of
Monthly Normals
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www.ncdc.noaa.gov

Station: **NEW FRANKLIN 1 W, MO US**

GHCND:USC00236012
Elev: 641 ft. Lat: 39.017° N Lon: 92.756° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	21	48	188	419	736	981	1150	1106	805	480	192	36
45	7	20	110	292	582	831	995	951	656	338	114	14
50	2	7	58	184	430	681	840	797	509	215	58	5
55	1	2	27	104	289	531	685	642	368	120	25	2
60	-7777	-7777	10	50	168	384	530	487	239	56	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	19	38	124	251	454	665	789	748	519	294	116	26

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	21	69	257	676	1412	2393	3543	4649	5454	5934	6126	6162
45	7	27	137	429	1011	1842	2837	3788	4444	4782	4896	4910
50	2	9	67	251	681	1362	2202	2999	3508	3723	3781	3786
55	1	3	30	134	423	954	1639	2281	2649	2769	2794	2796
60	0	0	10	60	228	612	1142	1629	1868	1924	1932	1932
Growing Degree Units for Corn (Monthly)												
50/86	19	57	181	432	886	1551	2340	3088	3607	3901	4017	4043

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ALBANY, MO US**

GHCND:USC00230051
 Elev: 875 ft. Lat: 40.249° N Lon: 94.331° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.6	15.0	24.8				-7777	-7777	-7777	0	0	0	935	998	1091	1246	0.0	0.0	2.9	11.6	28.1	5.5
2	40.7	18.8	29.8				3	2	1	0	0	0	709	764	847	987	0.0	0.0	4.8	6.5	24.6	1.0
3	52.2	28.7	40.5				18	13	7	1	-7777	-7777	469	526	614	763	0.0	0.0	16.8	1.0	20.8	0.0
4	63.8	39.9	51.9				70	52	32	13	3	1	165	207	277	407	0.0	0.0	26.9	0.0	5.5	0.0
5	74.2	52.3	63.3				270	218	149	64	17	8	14	24	48	118	0.0	0.8	31.0	0.0	0.0	0.0
6	83.8	61.5	72.7				529	469	379	233	108	68	-7777	-7777	-7777	3	0.0	3.6	30.0	0.0	0.0	0.0
7	88.6	66.5	77.6				698	637	543	389	238	181	0	0	0	-7777	0.5	11.8	31.0	0.0	0.0	0.0
8	87.4	64.4	75.9				647	585	492	340	197	148	-7777	-7777	-7777	3	0.3	11.0	31.0	0.0	0.0	0.0
9	79.4	53.5	66.5				347	292	214	109	38	21	4	8	20	66	0.0	2.5	30.0	0.0	0.0	0.0
10	66.9	41.7	54.3				103	76	45	17	2	-7777	124	160	222	348	0.0	0.0	29.0	0.0	3.5	0.0
11	52.5	29.4	41.0				8	4	1	-7777	0	0	429	486	572	721	0.0	0.0	17.7	0.5	20.3	0.0
12	37.5	18.3	27.9				-7777	0	0	0	0	0	839	901	994	1150	0.0	0.0	3.3	8.1	30.0	1.3
Summary	63.5	40.8	52.2				2693	2348	1863	1166	603	427	3688	4074	4685	5812	0.8	29.7	254.4	27.7	132.8	7.8

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www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**

GHCND:USC00230051

Elev: 875 ft. Lat: 40.249° N Lon: 94.331° W

Station: **ALBANY, MO US**

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	.25	.50	.75
1	0.94	@	@	@	@			
2	1.28	@	@	@	@			
3	2.41	@	@	@	@			
4	3.51	@	@	@	@			
5	5.24	@	@	@	@			
6	5.07	@	@	@	@			
7	5.07	@	@	@	@			
8	4.08	@	@	@	@			
9	4.03	@	@	@	@			
10	2.93	@	@	@	@			
11	2.00	@	@	@	@			
12	1.55	@	@	@	@			
Summary	38.11	0.0	0.0	0.0	0.0			

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**Summary of
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 Asheville, North Carolina 28801
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Station: **ALBANY, MO US**

GHCND:USC00230051
 Elev: 875 ft. Lat: 40.249° N Lon: 94.331° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	36	130	366	721	979	1163	1112	793	446	121	10
45	1	18	73	242	566	829	1008	957	643	307	65	2
50	-7777	6	38	138	413	679	853	802	494	188	28	-7777
55	-7777	3	18	70	270	529	698	647	347	103	8	-7777
60	-7777	1	7	32	149	379	543	492	214	45	1	0
Growing Degree Units for Corn (Monthly)												
50/86	6	27	93	223	437	661	798	756	507	279	86	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	43	173	539	1260	2239	3402	4514	5307	5753	5874	5884
45	1	19	92	334	900	1729	2737	3694	4337	4644	4709	4711
50	0	6	44	182	595	1274	2127	2929	3423	3611	3639	3639
55	0	3	21	91	361	890	1588	2235	2582	2685	2693	2693
60	0	1	8	40	189	568	1111	1603	1817	1862	1863	1863
Growing Degree Units for Corn (Monthly)												
50/86	6	33	126	349	786	1447	2245	3001	3508	3787	3873	3884

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ST CHARLES, MO US**

GHCND:USC00237397
Elev: 467 ft. Lat: 38.815° N Lon: 90.517° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.0	21.3	30.1	5.7	5.0	5.2	2	1	-7777	-7777	0	0	772	833	926	1080	0.0	0.0	6.0	9.2	25.9	1.3
2	44.2	24.7	34.5	5.0	4.5	4.6	3	2	1	-7777	-7777	0	579	633	716	855	0.0	0.0	9.1	5.0	21.4	0.4
3	54.8	33.6	44.2	4.3	3.3	3.7	33	24	14	4	1	-7777	368	421	504	649	0.0	0.0	19.4	1.0	14.4	0.0
4	66.3	43.5	54.9	4.1	3.4	3.6	121	94	61	24	6	3	124	157	214	327	0.0	0.1	27.5	0.0	2.8	0.0
5	75.0	53.5	64.2	3.3	3.7	3.3	302	250	179	88	32	19	16	25	47	111	0.0	0.7	30.9	0.0	0.0	0.0
6	83.5	63.0	73.2	2.8	2.5	2.4	548	488	400	259	138	98	-7777	1	3	12	0.1	5.0	30.0	0.0	0.0	0.0
7	87.6	67.1	77.3	2.3	2.2	2.0	693	631	538	383	234	179	0	-7777	-7777	1	0.4	10.6	31.0	0.0	0.0	0.0
8	86.5	64.6	75.5	3.4	3.4	3.2	637	575	482	330	191	143	-7777	-7777	-7777	3	0.4	9.6	31.0	0.0	0.0	0.0
9	79.3	55.6	67.5	2.8	2.5	2.4	382	327	249	138	60	40	8	13	26	65	0.1	2.4	30.0	0.0	-7777	0.0
10	68.0	44.1	56.1	3.1	3.3	2.7	133	102	65	24	6	3	100	131	187	301	0.0	0.1	29.9	0.0	2.5	0.0
11	55.1	35.1	45.1	5.0	3.1	3.8	32	22	11	2	-7777	-7777	329	379	458	599	0.0	0.0	18.7	0.6	12.0	0.0
12	41.9	24.3	33.1	5.6	5.4	5.3	3	2	1	-7777	0	0	682	743	835	989	0.0	0.0	8.4	6.0	24.0	0.8
Summary	65.1	44.2	54.6	4.0	3.5	3.5	2889	2518	2001	1252	668	485	2978	3336	3916	4992	1.0	28.5	271.9	21.8	103.0	2.5

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National Climatic Data Center
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Asheville, North Carolina 28801
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GHCND:USC00237397

Elev: 467 ft. Lat: 38.815° N Lon: 90.517° W

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **ST CHARLES, MO US**

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	.25	.50	.75
1	2.55	7.0	4.6	1.6	0.7	1.17	2.03	3.59
2	2.47	6.8	4.7	1.9	0.7	1.23	2.16	3.45
3	3.32	9.8	7.2	2.4	0.6	2.51	3.08	4.07
4	4.18	10.4	7.8	3.0	0.9	2.74	3.51	5.35
5	5.00	10.7	8.2	3.2	1.3	2.94	4.54	6.35
6	3.92	8.6	6.4	2.3	1.1	2.35	3.27	5.32
7	4.39	7.9	5.7	2.8	1.4	3.06	3.96	5.83
8	3.44	7.1	5.7	2.3	1.0	2.07	3.55	4.78
9	3.09	6.9	5.0	2.2	0.8	1.37	2.56	3.64
10	3.49	8.1	6.0	2.4	0.9	1.71	2.94	4.43
11	4.08	8.4	6.3	2.9	1.1	2.32	3.56	6.01
12	3.18	7.5	5.5	1.9	1.0	1.83	2.76	3.67
Summary	43.11	99.2	73.1	28.9	11.5	25.30	37.92	56.49

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Station: **ST CHARLES, MO US**

GHCND:USC00237397
 Elev: 467 ft. Lat: 38.815° N Lon: 90.517° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.3	1.9	1.3	0.5	0.1	-7777	@	@	@	@	1.3	3.7	4.7
2	3.9	1.7	1.1	0.5	0.2	-7777	@	@	@	@	0.0	1.5	7.5
3	0.8	0.4	0.3	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.5
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.2	0.2	0.2	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	2.0	1.2	0.9	0.4	0.2	0.0	@	@	@	@	0.0	1.0	3.2
Summary	11.2	5.4	3.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0	1.3	6.2	15.9

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Station: **ST CHARLES, MO US**

GHCND:USC00237397
Elev: 467 ft. Lat: 38.815° N Lon: 90.517° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	35	61	207	452	752	997	1158	1102	823	500	217	54
45	15	27	123	320	597	847	1003	947	674	356	131	25
50	5	10	67	206	445	697	848	792	525	230	70	10
55	2	3	33	121	302	548	693	637	382	133	32	3
60	-7777	1	14	61	179	400	538	482	249	65	11	1
Growing Degree Units for Corn (Monthly)												
50/86	25	44	130	272	468	676	797	747	531	307	126	34

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	35	96	303	755	1507	2504	3662	4764	5587	6087	6304	6358
45	15	42	165	485	1082	1929	2932	3879	4553	4909	5040	5065
50	5	15	82	288	733	1430	2278	3070	3595	3825	3895	3905
55	2	5	38	159	461	1009	1702	2339	2721	2854	2886	2889
60	0	1	15	76	255	655	1193	1675	1924	1989	2000	2001
Growing Degree Units for Corn (Monthly)												
50/86	25	69	199	471	939	1615	2412	3159	3690	3997	4123	4157

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

M indicates the value is missing

-7777: a non-zero value that would round to zero

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National Environmental Satellite, Data, and Information
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**Summary of
Monthly Normals
1981-2010**

Station: **PIERCE CITY, MO US**

GHCND:USC00236678
Elev: 1230 ft. Lat: 36.949° N Lon: 94.008° W

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	.25	.50	.75
1	2.40	5.7	3.5	1.3	0.6	1.01	1.78	3.52
2	2.19	6.2	4.2	1.4	0.4	1.17	2.08	2.78
3	3.61	8.5	6.3	2.5	0.8	2.25	3.29	4.81
4	4.15	8.7	6.1	2.7	1.3	3.03	3.67	5.63
5	4.94	10.6	7.8	3.8	1.7	3.42	4.63	6.06
6	5.21	10.0	7.4	3.4	1.8	3.47	4.37	6.45
7	3.46	7.6	5.6	2.4	0.9	2.16	3.34	4.78
8	3.50	6.6	4.7	2.4	1.2	1.62	3.13	4.07
9	4.69	7.1	5.5	2.9	1.3	2.74	4.06	6.67
10	3.74	8.7	6.2	2.2	0.9	2.30	2.95	4.39
11	4.26	7.3	5.3	2.6	1.3	2.08	3.77	5.94
12	2.89	6.9	4.8	2.1	0.6	1.06	2.92	3.70
Summary	45.04	93.9	67.4	29.7	12.8	26.31	39.99	58.80

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **PIERCE CITY, MO US**

GHCND:USC00236678
 Elev: 1230 ft. Lat: 36.949° N Lon: 94.008° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.8	1.3	1.2	0.5	0.1	-7777	3.4	1.7	0.6	0.1	0.0	1.7	8.0
2	2.1	1.2	0.9	0.3	0.1	0.0	2.3	0.9	0.2	-7777	0.0	0.5	3.2
3	1.4	0.5	0.5	0.1	0.1	0.1	0.6	0.3	0.2	0.1	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.1	0.1	0.1	-7777	0.0	0.2	0.1	-7777	0.0	0.0	0.0	0.0
12	2.1	0.9	0.9	0.2	0.1	0.0	1.8	1.1	0.7	0.0	0.0	0.0	4.7
Summary	9.8	4.0	3.6	1.2	0.4	0.1	8.3	4.1	1.7	0.2	0.0	2.2	16.9

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www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **WHITE CHURCH, MO US**

GHCND:USC00238910

Elev: 1020 ft. Lat: 36.901° N Lon: 91.772° W

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	.25	.50	.75
1	2.80	6.0	4.0	2.0	0.9	1.90	2.70	3.62
2	3.74	6.0	4.8	2.6	1.2	2.43	3.24	4.66
3	4.63	7.4	6.1	3.6	1.6	2.61	4.28	6.31
4	4.87	6.9	5.9	3.1	1.4	2.67	4.39	6.96
5	5.11	7.4	6.5	3.9	1.9	3.59	4.51	6.20
6	3.66	5.5	5.0	2.5	1.1	2.20	3.70	4.93
7	4.04	6.2	5.6	3.1	1.6	2.10	3.81	4.95
8	2.99	4.4	3.5	1.7	1.0	1.90	2.76	3.78
9	3.68	5.1	4.9	2.9	1.7	2.09	3.56	5.07
10	4.23	6.3	5.4	2.8	1.5	2.46	3.87	5.82
11	4.86	6.5	5.8	2.9	1.4	2.21	5.15	7.19
12	3.19	6.2	5.2	2.4	0.9	1.35	2.78	4.21
Summary	47.80	73.9	62.7	33.5	16.2	27.51	44.75	63.70

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Service**Summary of
Monthly Normals
1981-2010**Station: **WHITE CHURCH, MO US**

GHCND:USC00238910

Elev: 1020 ft. Lat: 36.901° N Lon: 91.772° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.0	0.8	0.5	0.2	0.1	0.0	@	@	@	@	0.0	1.0	3.0
2	2.8	0.9	0.6	0.4	0.3	0.0	@	@	@	@	0.0	0.0	7.0
3	1.9	0.3	0.3	0.2	0.1	0.1	@	@	@	@	0.0	0.0	2.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	-7777	0.1	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	0.7	0.8	0.5	0.3	0.1	0.0	@	@	@	@	0.0	0.2	0.5
Summary	7.4	2.9	1.9	1.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	1.2	12.5

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
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www.ncdc.noaa.gov

Station: **PACIFIC, MO US**

GHCND:USC00236468
Elev: 565 ft. Lat: 38.486° N Lon: 90.770° W

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	.25	.50	.75
1	2.73	7.1	4.7	1.6	0.7	1.15	1.83	3.82
2	2.34	6.8	4.1	1.1	0.4	1.40	2.04	3.76
3	3.41	10.1	7.0	2.4	0.7	2.50	3.26	4.19
4	3.97	10.1	7.1	3.2	1.0	2.81	3.36	4.54
5	4.81	11.4	8.1	3.1	1.3	3.00	4.20	5.64
6	4.11	8.9	6.7	3.0	1.0	2.57	3.63	5.30
7	4.08	8.3	5.7	2.7	1.1	2.54	3.59	5.15
8	3.35	7.6	5.4	2.2	0.7	2.37	3.19	4.41
9	3.90	7.8	5.3	2.6	1.5	1.70	2.94	5.09
10	3.41	8.6	5.8	2.3	1.1	2.25	2.81	4.44
11	3.99	9.1	6.3	3.0	1.1	2.27	3.50	5.98
12	2.82	7.5	5.1	1.9	1.0	1.47	2.50	3.33
Summary	42.92	103.3	71.3	29.1	11.6	26.03	36.85	55.65

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **PACIFIC, MO US**

GHCND:USC00236468
 Elev: 565 ft. Lat: 38.486° N Lon: 90.770° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.9	1.8	1.2	0.5	0.2	0.0	4.9	2.4	1.2	0.2	0.9	2.0	7.0
2	3.8	1.5	1.0	0.5	0.2	0.0	1.9	1.2	0.8	0.1	0.0	2.5	5.3
3	1.1	0.5	0.4	0.1	-7777	0.0	0.9	0.4	0.2	0.0	0.0	0.0	2.0
4	0.3	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.3	0.2	0.1	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.3
12	3.2	1.1	0.9	0.3	0.2	0.0	3.2	1.9	1.1	0.0	0.0	2.5	6.7
Summary	12.7	5.3	3.8	1.6	0.6	0.0	11.5	6.1	3.3	0.3	0.9	7.0	21.3

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National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HERMANN, MO US**

GHCND:USC00233793
Elev: 514 ft. Lat: 38.702° N Lon: 91.431° W

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	.25	.50	.75
1	2.18	6.7	4.1	1.2	0.5	1.20	1.92	2.62
2	2.39	6.7	4.2	1.4	0.6	1.04	2.20	3.56
3	3.08	9.1	6.6	2.2	0.7	2.15	2.62	3.41
4	4.20	10.3	7.4	2.9	0.9	2.79	3.91	4.52
5	5.16	11.3	8.2	3.5	1.5	3.30	4.63	6.72
6	4.28	10.2	7.0	2.9	1.3	2.50	3.59	5.39
7	4.66	8.6	6.3	3.3	1.6	2.04	4.36	7.01
8	3.91	7.3	5.2	2.7	1.4	2.71	3.63	4.61
9	4.22	7.5	5.6	2.5	1.3	1.87	2.88	4.40
10	3.59	8.6	6.1	2.4	0.8	2.11	2.98	4.82
11	3.80	8.8	6.5	2.9	1.2	2.13	3.43	5.16
12	3.06	7.3	5.0	1.7	0.9	1.58	2.63	3.55
Summary	44.53	102.4	72.2	29.6	12.7	25.42	38.78	55.77

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**Summary of
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1981-2010**

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HERMANN, MO US**

GHCND:USC00233793
Elev: 514 ft. Lat: 38.702° N Lon: 91.431° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.4	1.8	1.2	0.3	0.1	0.0	5.6	2.9	1.6	0.0	0.0	1.4	4.0
2	5.3	1.6	1.1	0.4	0.2	-7777	3.8	2.2	1.4	0.2	0.0	3.5	7.3
3	1.7	0.6	0.4	0.2	0.1	0.0	0.9	0.5	0.3	0.0	0.0	0.0	2.1
4	0.1	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.5	0.3	0.2	0.1	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
12	3.5	1.7	1.0	0.3	0.2	-7777	4.3	3.0	1.4	-7777	0.0	1.0	6.0
Summary	14.5	6.0	3.9	1.3	0.6	0.0	15.0	8.7	4.7	0.2	0.0	5.9	19.4

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FREEDOM, MO US**

GHCND:USC00233043
Elev: 805 ft. Lat: 38.458° N Lon: 91.703° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.8	20.0	29.9	5.3	4.8	4.8	1	1	-7777	0	0	0	779	841	933	1088	0.0	0.0	7.2	8.4	26.5	1.9
2	45.2	23.3	34.3	5.2	4.8	4.8	4	2	1	-7777	-7777	0	585	639	722	861	0.0	0.0	10.0	5.3	22.1	1.2
3	55.7	32.1	43.9	4.2	3.6	3.7	34	24	14	4	1	-7777	378	430	513	658	0.0	0.0	19.9	1.2	16.3	-7777
4	66.3	42.1	54.2	4.3	3.4	3.7	114	88	57	23	5	2	138	172	231	347	0.0	0.2	27.2	0.0	4.8	0.0
5	74.6	51.8	63.2	3.1	3.4	3.1	272	222	155	70	21	10	18	30	56	126	0.0	0.3	30.9	0.0	0.2	0.0
6	82.5	60.7	71.6	2.9	2.3	2.4	499	439	353	216	103	68	1	2	5	18	0.1	3.5	30.0	0.0	0.0	0.0
7	87.3	65.6	76.5	3.0	2.2	2.3	665	603	510	357	212	161	0	0	-7777	2	0.9	10.8	31.0	0.0	0.0	0.0
8	87.1	63.6	75.4	4.1	3.1	3.5	631	569	476	325	189	143	-7777	-7777	-7777	4	1.6	10.9	31.0	0.0	0.0	0.0
9	79.0	54.4	66.7	3.2	2.5	2.5	363	309	234	127	55	36	12	18	33	77	0.1	2.7	30.0	0.0	0.2	0.0
10	67.9	43.0	55.4	3.1	3.3	2.8	126	95	59	20	4	2	112	143	200	316	0.0	0.1	29.6	0.0	4.5	0.0
11	55.2	33.8	44.5	5.1	3.4	4.0	30	21	11	2	-7777	0	345	396	476	618	0.0	0.0	19.2	1.2	13.7	0.0
12	42.2	22.8	32.5	5.5	6.5	5.9	3	2	1	-7777	0	0	700	761	853	1007	0.0	0.0	8.9	6.4	24.9	1.4
Summary	65.2	42.8	54.0	4.1	3.6	3.6	2742	2375	1871	1144	590	422	3068	3432	4022	5122	2.7	28.5	274.9	22.5	113.2	4.5

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FREEDOM, MO US**

GHCND:USC00233043
Elev: 805 ft. Lat: 38.458° N Lon: 91.703° W

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	.25	.50	.75
1	2.01	5.7	4.1	1.2	0.4	0.84	1.94	2.58
2	2.15	5.8	4.1	1.4	0.7	1.14	1.89	2.91
3	3.22	8.2	6.6	2.4	0.7	2.27	2.84	4.30
4	4.05	9.3	7.4	2.7	0.9	2.28	3.79	5.31
5	5.37	11.1	8.5	3.9	1.6	2.95	5.52	6.95
6	4.59	8.8	7.2	3.1	1.2	3.18	3.92	5.43
7	4.06	7.3	6.1	2.6	1.0	1.82	2.75	5.42
8	4.16	6.8	5.5	3.0	1.3	2.59	3.71	5.59
9	4.22	7.1	5.9	2.7	1.4	2.41	3.54	5.79
10	3.87	8.1	6.4	3.3	1.0	2.51	3.04	5.41
11	3.93	7.2	6.0	2.7	1.2	1.85	3.96	5.62
12	2.80	6.6	4.8	1.9	0.8	1.36	2.26	3.65
Summary	44.43	92.0	72.6	30.9	12.2	25.20	39.16	58.96

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Station: **FREEDOM, MO US**

GHCND:USC00233043
Elev: 805 ft. Lat: 38.458° N Lon: 91.703° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.9	1.3	1.0	0.4	0.2	-7777	@	@	@	@	0.0	2.5	4.7
2	2.6	1.1	0.9	0.3	0.1	-7777	@	@	@	@	0.0	0.0	3.4
3	1.7	0.3	0.3	0.1	0.1	-7777	@	@	@	@	0.0	0.0	2.0
4	-7777	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.8	0.3	0.2	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.5
12	2.6	1.1	0.8	0.4	0.2	0.0	@	@	@	@	0.0	1.1	5.8
Summary	10.6	4.1	3.2	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	3.6	16.4

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Station: **FREEDOM, MO US**

GHCND:USC00233043
 Elev: 805 ft. Lat: 38.458° N Lon: 91.703° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	39	67	208	434	719	948	1130	1095	801	483	211	49
45	16	32	128	306	565	798	975	941	651	343	129	22
50	6	13	70	196	413	648	820	786	504	221	68	9
55	1	4	34	114	272	499	665	631	363	126	30	3
60	-7777	1	14	57	155	353	510	476	234	59	11	1
Growing Degree Units for Corn (Monthly)												
50/86	28	53	143	271	447	634	768	731	515	303	131	33

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	39	106	314	748	1467	2415	3545	4640	5441	5924	6135	6184
45	16	48	176	482	1047	1845	2820	3761	4412	4755	4884	4906
50	6	19	89	285	698	1346	2166	2952	3456	3677	3745	3754
55	1	5	39	153	425	924	1589	2220	2583	2709	2739	2742
60	0	1	15	72	227	580	1090	1566	1800	1859	1870	1871
Growing Degree Units for Corn (Monthly)												
50/86	28	81	224	495	942	1576	2344	3075	3590	3893	4024	4057

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: JOPLIN 24 N, MO US

GHCND:USW00023908
 Elev: 952 ft. Lat: 37.428° N Lon: 94.583° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.8	21.6	32.2				2	1	0	0	0	0	708	769	861	1016	0.0	0.0	8.3	6.0	25.0	1.7
2	48.1	26.1	37.1				2	1	0	0	0	0	503	558	641	781	0.0	0.0	11.6	0.7	21.2	0.0
3	58.2	34.6	46.4				21	12	5	1	0	0	287	340	426	577	0.0	0.0	22.9	0.3	11.1	0.0
4	67.7	44.1	55.9				103	74	43	14	2	-7777	76	107	166	287	0.0	0.3	29.3	0.0	1.7	0.0
5	75.8	54.8	65.3				321	263	179	74	15	6	2	6	15	65	0.0	0.0	31.0	0.0	0.0	0.0
6	83.8	63.2	73.5				555	495	405	256	120	77	0	0	-7777	2	0.0	1.3	30.0	0.0	0.0	0.0
7	88.6	67.5	78.1				714	652	559	404	251	192	0	0	0	0	0.0	12.0	31.0	0.0	0.0	0.0
8	89.3	65.3	77.3				690	628	536	382	235	180	0	-7777	-7777	1	0.8	13.6	31.0	0.0	0.0	0.0
9	81.2	56.5	68.9				416	358	274	150	60	37	1	2	9	35	0.0	2.0	30.0	0.0	0.0	0.0
10	70.2	45.3	57.8				146	112	70	25	6	3	61	89	140	250	0.0	0.0	30.8	0.0	0.8	0.0
11	57.2	35.1	46.2				21	12	4	-7777	0	0	286	337	420	566	0.0	0.0	22.7	0.0	12.1	0.0
12	45.4	24.6	35.0				1	-7777	-7777	0	0	0	620	681	774	929	0.0	0.0	10.9	3.4	25.7	0.0
Summary	67.4	44.9	56.1				2992	2608	2075	1306	689	495	2544	2889	3452	4509	0.8	29.2	289.5	10.4	97.6	1.7

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Station: **JOPLIN 24 N, MO US**

GHCND:USW00023908
 Elev: 952 ft. Lat: 37.428° N Lon: 94.583° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	50	67	238	478	784	1004	1179	1155	865	551	218	50
45	23	28	136	334	629	855	1024	1001	715	398	120	18
50	8	10	63	205	474	705	869	846	565	259	57	4
55	2	2	21	103	321	555	714	690	416	146	21	1
60	0	0	5	43	179	405	559	536	274	70	4	-7777
Growing Degree Units for Corn (Monthly)												
50/86	38	53	154	281	485	693	817	775	563	335	134	41

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	50	117	355	833	1617	2621	3800	4955	5820	6371	6589	6639
45	23	51	187	521	1150	2005	3029	4030	4745	5143	5263	5281
50	8	18	81	286	760	1465	2334	3180	3745	4004	4061	4065
55	2	4	25	128	449	1004	1718	2408	2824	2970	2991	2992
60	0	0	5	48	227	632	1191	1727	2001	2071	2075	2075
Growing Degree Units for Corn (Monthly)												
50/86	38	91	245	526	1011	1704	2521	3296	3859	4194	4328	4369

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **TRUMAN DAM AND RESRVR, MO US**

GHCND:USC00238466
Elev: 701 ft. Lat: 38.260° N Lon: 93.414° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.0	20.0	30.5	5.4	4.2	4.6	1	-7777	-7777	-7777	0	0	760	822	914	1069	0.0	0.0	7.7	7.4	27.4	1.0
2	45.8	22.8	34.3	5.5	5.5	5.2	3	2	1	-7777	-7777	-7777	583	637	720	860	0.0	0.0	10.8	4.4	23.2	0.7
3	56.2	32.6	44.4	4.7	3.8	3.9	30	21	11	2	-7777	-7777	359	412	495	641	0.0	0.0	20.4	0.7	15.7	0.0
4	66.5	42.3	54.4	3.9	3.0	3.2	108	83	52	19	3	1	126	161	220	336	0.0	-7777	27.4	0.0	3.5	0.0
5	75.3	53.8	64.5	3.5	3.4	3.2	310	256	185	90	31	17	14	22	43	104	0.0	0.5	30.9	0.0	-7777	0.0
6	83.8	63.7	73.7	3.0	2.3	2.3	563	503	414	271	147	105	-7777	1	2	9	0.1	5.1	30.0	0.0	0.0	0.0
7	89.1	68.6	78.9	3.1	2.2	2.2	739	677	584	430	278	221	0	0	0	-7777	1.2	14.3	31.0	0.0	0.0	0.0
8	88.7	66.7	77.7	4.3	2.9	3.4	704	642	549	395	249	197	-7777	-7777	-7777	2	2.2	13.6	31.0	0.0	0.0	0.0
9	80.2	56.9	68.5	3.3	2.9	2.7	414	359	280	164	78	55	8	13	23	58	0.1	4.1	30.0	0.0	0.1	0.0
10	68.9	44.8	56.9	2.8	3.4	2.6	141	108	67	23	5	3	84	112	164	275	0.0	0.1	29.7	0.0	2.4	0.0
11	56.7	35.0	45.9	4.9	3.3	3.8	31	21	10	2	-7777	-7777	306	356	435	577	0.0	0.0	20.7	0.3	12.0	0.0
12	44.5	23.9	34.2	5.5	4.5	4.9	3	2	1	-7777	0	0	648	709	801	955	0.0	0.0	10.7	4.2	24.4	0.8
Summary	66.4	44.3	55.3	4.2	3.5	3.5	3047	2674	2154	1396	791	599	2888	3245	3817	4886	3.6	37.7	280.3	17.0	108.7	2.5

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**Summary of
Monthly Normals
1981-2010**

Station: **TRUMAN DAM AND RESRVR, MO US**

GHCND:USC00238466
Elev: 701 ft. Lat: 38.260° N Lon: 93.414° W

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	.25	.50	.75
1	1.80	5.6	3.5	0.9	0.4	0.71	1.82	2.61
2	2.15	5.8	3.8	1.2	0.5	1.18	1.91	2.39
3	2.95	9.2	6.5	1.9	0.5	1.89	2.49	4.29
4	4.37	11.1	7.2	3.0	1.2	2.80	4.08	5.34
5	5.41	12.3	8.5	3.8	1.7	3.02	4.94	7.35
6	4.99	10.2	7.6	3.2	1.4	2.43	4.56	6.86
7	4.25	8.3	6.1	2.6	1.4	1.65	4.31	5.61
8	3.84	8.0	5.6	2.6	1.2	2.27	3.09	4.84
9	4.06	8.2	5.5	2.3	1.4	2.23	3.13	4.88
10	3.56	9.2	6.3	2.2	0.8	1.42	2.93	4.49
11	3.51	7.6	5.3	2.3	1.1	1.51	2.82	4.29
12	2.16	6.2	4.1	1.6	0.5	1.11	2.00	3.12
Summary	43.05	101.7	70.0	27.6	12.1	22.22	38.08	56.07

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GHCND:USC00238466
 Elev: 701 ft. Lat: 38.260° N Lon: 93.414° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	0.7	0.7	0.5	0.2	-7777	0.0	1.3	0.3	0.1	0.0	0.0	0.0	2.5
2	0.9	0.3	0.3	0.1	-7777	0.0	0.9	0.5	0.1	0.0	0.0	0.0	0.0
3	0.2	0.1	0.1	0.0	0.0	0.0	-7777	-7777	-7777	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.5	0.4	0.3	0.1	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
Summary	2.3	1.5	1.2	0.4	0.0	0.0	2.2	0.8	0.2	0.0	0.0	0.0	2.5

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Station: **TRUMAN DAM AND RESRVR, MO US**

GHCND:USC00238466
Elev: 701 ft. Lat: 38.260° N Lon: 93.414° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	29	57	210	438	761	1013	1204	1168	857	524	228	56
45	10	25	125	306	606	862	1049	1013	707	378	137	24
50	3	9	67	194	454	712	894	859	559	248	72	9
55	1	3	30	108	310	563	739	704	414	141	31	3
60	-7777	1	11	52	185	414	584	549	280	67	10	1
Growing Degree Units for Corn (Monthly)												
50/86	30	53	146	270	475	689	826	787	554	320	141	44

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	29	86	296	734	1495	2508	3712	4880	5737	6261	6489	6545
45	10	35	160	466	1072	1934	2983	3996	4703	5081	5218	5242
50	3	12	79	273	727	1439	2333	3192	3751	3999	4071	4080
55	1	4	34	142	452	1015	1754	2458	2872	3013	3044	3047
60	0	1	12	64	249	663	1247	1796	2076	2143	2153	2154
Growing Degree Units for Corn (Monthly)												
50/86	30	83	229	499	974	1663	2489	3276	3830	4150	4291	4335

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

M indicates the value is missing

-7777: a non-zero value that would round to zero

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

Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **WARRENSBURG 4 NW, MO US**

GHCND:USC00238712
 Elev: 796 ft. Lat: 38.784° N Lon: 93.801° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.5	18.3	28.9	5.5	4.4	4.7	-7777	-7777	-7777	0	0	0	809	871	964	1119	0.0	0.0	6.1	8.1	27.8	2.0
2	44.3	22.8	33.5	5.4	5.3	5.1	2	1	-7777	-7777	0	0	603	658	741	880	0.0	0.0	9.8	4.8	22.1	0.9
3	55.8	32.3	44.1	4.0	3.5	3.5	28	19	9	2	-7777	-7777	367	420	504	651	0.0	0.0	20.1	1.0	16.2	0.0
4	66.4	42.4	54.4	4.1	2.9	3.2	110	84	53	19	4	2	128	162	221	337	0.0	0.2	27.3	0.0	4.1	0.0
5	75.4	53.0	64.2	3.7	3.4	3.4	301	250	179	85	28	15	16	27	49	109	0.0	0.7	31.0	0.0	0.3	0.0
6	83.5	62.3	72.9	2.5	2.7	2.4	538	478	390	249	128	88	1	1	3	12	0.1	4.2	30.0	0.0	0.0	0.0
7	88.7	66.8	77.7	2.5	2.4	2.1	705	643	550	396	246	190	0	0	-7777	1	1.1	13.2	31.0	0.0	0.0	0.0
8	88.2	64.8	76.5	4.2	3.4	3.5	666	604	511	360	220	169	0	-7777	-7777	3	1.4	12.6	31.0	0.0	0.0	0.0
9	80.2	54.9	67.6	3.4	3.1	2.9	387	333	256	146	67	44	11	16	29	70	0.1	3.6	30.0	0.0	0.2	0.0
10	68.7	43.4	56.1	2.8	2.8	2.3	130	98	61	21	5	3	98	128	183	298	0.0	-7777	29.8	0.0	3.6	0.0
11	55.2	33.3	44.3	4.8	3.8	3.7	25	17	8	1	-7777	-7777	348	399	480	624	0.0	0.0	19.6	0.7	13.2	0.1
12	42.2	22.2	32.2	5.9	5.5	5.5	2	1	1	-7777	0	0	709	770	862	1017	0.0	0.0	9.0	6.2	25.2	1.2
Summary	65.7	43.0	54.4	4.1	3.6	3.5	2894	2528	2018	1279	698	511	3090	3452	4036	5121	2.7	34.5	274.7	20.8	112.7	4.2

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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **WARRENSBURG 4 NW, MO US**GHCND:USC00238712
Elev: 796 ft. Lat: 38.784° N Lon: 93.801° W

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	.25	.50	.75
1	1.12	@	@	@	@			
2	1.72	@	@	@	@			
3	2.99	@	@	@	@			
4	4.03	@	@	@	@			
5	5.66	@	@	@	@			
6	5.86	@	@	@	@			
7	4.70	@	@	@	@			
8	3.93	@	@	@	@			
9	4.49	@	@	@	@			
10	3.43	@	@	@	@			
11	2.88	@	@	@	@			
12	2.13	@	@	@	@			
Summary	42.94	0.0	0.0	0.0	0.0			

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

**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **WARRENSBURG 4 NW, MO US**

GHCND:USC00238712
 Elev: 796 ft. Lat: 38.784° N Lon: 93.801° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	24	55	204	440	750	987	1170	1131	826	501	197	46
45	8	23	120	310	596	837	1015	976	677	357	116	20
50	2	8	63	197	444	687	860	821	529	231	58	7
55	-7777	2	28	110	301	538	705	666	387	130	25	2
60	-7777	-7777	9	53	179	390	550	511	256	61	8	1
Growing Degree Units for Corn (Monthly)												
50/86	23	45	141	271	470	669	800	757	536	315	125	34

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	24	79	283	723	1473	2460	3630	4761	5587	6088	6285	6331
45	8	31	151	461	1057	1894	2909	3885	4562	4919	5035	5055
50	2	10	73	270	714	1401	2261	3082	3611	3842	3900	3907
55	0	2	30	140	441	979	1684	2350	2737	2867	2892	2894
60	0	0	9	62	241	631	1181	1692	1948	2009	2017	2018
Growing Degree Units for Corn (Monthly)												
50/86	23	68	209	480	950	1619	2419	3176	3712	4027	4152	4186

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **IBERIA, MO US**

GHCND:USC00234136
Elev: 932 ft. Lat: 38.085° N Lon: 92.426° W

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	.25	.50	.75
1	2.50	5.8	4.1	1.4	0.7	1.07	2.30	2.83
2	2.32	6.3	4.5	1.5	0.4	1.21	1.99	3.12
3	3.32	8.6	6.6	2.2	0.8	1.87	2.77	5.15
4	4.37	9.2	7.1	2.9	1.3	3.08	3.91	5.28
5	5.28	10.3	7.8	3.4	1.4	3.07	5.09	6.64
6	4.60	8.8	7.1	3.1	1.4	2.42	3.64	6.23
7	4.07	7.5	5.7	2.9	1.5	2.45	3.65	5.70
8	3.49	6.5	4.9	2.4	1.0	2.01	2.87	4.49
9	4.13	6.2	5.2	2.7	1.3	1.93	3.10	5.77
10	3.57	7.2	5.4	2.4	1.0	1.56	2.98	4.62
11	4.23	8.4	6.5	3.0	1.3	2.09	3.36	6.51
12	3.04	6.6	4.9	2.0	0.8	1.62	2.55	3.53
Summary	44.92	91.4	69.8	29.9	12.9	24.38	38.21	59.87

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **IBERIA, MO US**

GHCND:USC00234136
Elev: 932 ft. Lat: 38.085° N Lon: 92.426° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.1	2.0	1.3	0.7	0.2	0.0	4.8	2.4	0.8	0.0	0.1	2.8	6.2
2	3.5	1.7	1.3	0.3	0.1	-7777	3.3	1.9	1.3	0.2	0.3	1.9	4.9
3	1.4	0.6	0.5	0.2	0.1	-7777	0.9	0.4	0.2	0.1	0.0	0.0	2.0
4	-7777	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.2	0.2	0.1	-7777	0.0	0.5	0.2	0.1	0.0	0.0	0.0	0.0
12	3.1	1.3	1.0	0.3	0.1	0.0	2.8	1.6	0.9	0.0	0.0	1.7	6.0
Summary	12.7	5.8	4.3	1.6	0.5	0.0	12.3	6.5	3.3	0.3	0.4	6.4	19.1

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ST LOUIS SPIRIT OF ST LOUIS AIRPORT, MO US**

GHCND:USW00003966
 Elev: 462 ft. Lat: 38.657° N Lon: 90.656° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.5	21.8	31.1	5.5	4.5	4.7	2	1	-7777	-7777	0	0	741	802	895	1049	0.0	0.0	7.3	7.8	25.5	1.1
2	45.6	25.6	35.6	5.0	4.4	4.5	4	3	1	-7777	-7777	0	547	602	684	823	0.0	0.0	10.0	4.0	21.0	0.1
3	56.5	33.9	45.2	4.2	3.1	3.4	39	29	17	5	1	-7777	343	394	475	619	0.0	0.0	20.2	0.5	14.2	0.0
4	67.7	44.0	55.9	3.9	2.9	3.2	133	105	70	29	9	5	108	139	194	303	0.0	0.4	27.9	0.0	3.7	0.0
5	76.4	54.4	65.4	3.4	3.5	3.2	332	277	202	103	40	23	9	17	35	91	0.0	0.9	31.0	0.0	-7777	0.0
6	84.8	63.4	74.1	2.8	2.5	2.5	573	513	424	281	154	111	-7777	-7777	1	8	0.1	7.0	30.0	0.0	0.0	0.0
7	88.6	67.6	78.1	2.2	2.0	1.9	716	654	561	406	255	199	0	0	0	-7777	0.8	12.9	31.0	0.0	0.0	0.0
8	87.7	65.3	76.5	3.5	3.1	3.2	666	604	511	359	216	166	0	0	-7777	2	0.7	11.6	31.0	0.0	0.0	0.0
9	80.1	55.9	68.0	3.0	2.7	2.5	396	340	261	146	65	43	6	10	21	56	0.0	3.3	30.0	0.0	0.0	0.0
10	68.9	45.5	57.2	3.0	3.1	2.5	150	116	75	30	9	5	82	110	162	271	0.0	0.3	30.0	0.0	2.2	0.0
11	56.0	34.9	45.5	4.6	3.0	3.4	31	22	12	2	-7777	-7777	318	368	448	589	0.0	0.0	19.7	0.5	12.5	0.0
12	43.1	24.7	33.9	5.2	5.7	5.3	3	2	1	-7777	0	0	657	717	809	964	0.0	0.0	9.2	5.2	23.4	0.8
Summary	66.3	44.8	55.5	3.9	3.4	3.4	3045	2666	2135	1361	749	552	2811	3159	3724	4775	1.6	36.4	277.3	18.0	102.5	2.0

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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Service

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ST LOUIS SPIRIT OF ST LOUIS AIRPORT, MO US**

GHCND:USW00003966
Elev: 462 ft. Lat: 38.657° N Lon: 90.656° W

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	.25	.50	.75
1	2.35	8.5	4.3	1.5	0.9	1.02	1.91	3.08
2	2.00	8.3	4.5	1.4	0.2	1.24	1.82	2.62
3	3.45	10.5	6.2	2.1	0.9	2.37	3.35	4.41
4	4.14	11.8	7.7	3.0	0.8	2.82	3.57	4.45
5	4.56	12.5	8.2	3.3	1.4	2.65	3.91	6.05
6	4.28	9.6	6.0	2.5	1.0	2.40	4.22	5.59
7	4.21	9.9	6.3	2.5	1.2	2.79	3.51	5.16
8	3.16	9.6	5.6	2.2	1.0	1.91	3.17	4.20
9	3.44	9.5	5.3	2.0	0.7	1.63	2.61	4.43
10	3.75	9.7	5.7	2.6	1.1	2.34	3.01	5.31
11	3.81	8.6	5.6	2.6	1.2	1.86	3.45	5.27
12	2.93	9.2	5.2	2.0	0.6	1.62	2.46	3.50
Summary	42.08	117.7	70.6	27.7	11.0	24.65	36.99	54.07

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ST LOUIS SPIRIT OF ST LOUIS AIRPORT, MO US**

GHCND:USW00003966
 Elev: 462 ft. Lat: 38.657° N Lon: 90.656° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	34	65	226	479	787	1023	1181	1131	840	535	220	56
45	13	31	140	343	632	873	1026	976	690	387	131	25
50	5	13	79	223	479	723	871	821	541	256	69	9
55	2	4	39	133	332	573	716	666	396	150	31	3
60	-7777	1	17	70	202	424	561	511	261	75	12	1
Growing Degree Units for Corn (Monthly)												
50/86	27	50	149	296	497	694	810	765	543	326	133	35

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	34	99	325	804	1591	2614	3795	4926	5766	6301	6521	6577
45	13	44	184	527	1159	2032	3058	4034	4724	5111	5242	5267
50	5	18	97	320	799	1522	2393	3214	3755	4011	4080	4089
55	2	6	45	178	510	1083	1799	2465	2861	3011	3042	3045
60	0	1	18	88	290	714	1275	1786	2047	2122	2134	2135
Growing Degree Units for Corn (Monthly)												
50/86	27	77	226	522	1019	1713	2523	3288	3831	4157	4290	4325

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
 -7777: a non-zero value that would round to zero
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National Climatic Data Center
Federal Building

151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.gov

GHCND:USC00233999

Elev: 256 ft. Lat: 36.045° N Lon: 90.149° W

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **HORNERSVILLE, MO US**

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	.25	.50	.75
1	3.35	@	@	@	@			
2	4.24	@	@	@	@			
3	4.46	@	@	@	@			
4	4.99	@	@	@	@			
5	5.57	@	@	@	@			
6	3.84	@	@	@	@			
7	4.36	@	@	@	@			
8	2.53	@	@	@	@			
9	3.23	@	@	@	@			
10	4.42	@	@	@	@			
11	5.10	@	@	@	@			
12	4.53	@	@	@	@			
Summary	50.62	0.0	0.0	0.0	0.0			

@ Denotes mean number of days greater than 0 but less than 0.05.

-7777: a non-zero value that would round to zero

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **VICHY ROLLA NATIONAL AIRPORT, MO US**

GHCND:USW00013997
Elev: 1127 ft. Lat: 38.131° N Lon: 91.768° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.7	21.5	31.1	4.8	4.2	4.3	2	1	-7777	-7777	0	0	743	804	896	1051	0.0	0.0	7.4	7.9	25.4	1.5
2	45.8	25.5	35.7	4.8	4.3	4.4	5	3	2	-7777	-7777	0	547	601	683	822	0.0	0.0	10.8	4.2	21.0	0.3
3	56.3	34.3	45.3	4.2	3.2	3.5	39	28	16	4	-7777	-7777	339	391	471	614	0.0	0.0	20.7	0.6	13.2	0.1
4	66.7	43.8	55.2	3.8	3.4	3.4	123	95	60	22	4	1	116	147	203	314	0.0	0.0	27.5	0.0	3.5	0.0
5	74.5	53.2	63.8	3.1	3.2	3.0	290	239	170	81	25	14	15	26	50	116	0.0	0.3	30.9	0.0	0.1	0.0
6	82.6	62.1	72.4	2.7	2.5	2.4	521	461	373	235	117	79	-7777	-7777	2	14	-7777	3.2	30.0	0.0	0.0	0.0
7	88.1	66.5	77.3	2.7	1.8	2.0	691	629	536	382	233	178	0	0	0	1	0.9	12.3	31.0	0.0	0.0	0.0
8	87.6	65.0	76.3	3.9	2.9	3.2	660	598	505	353	210	160	0	-7777	-7777	2	1.0	11.6	31.0	0.0	0.0	0.0
9	78.6	56.7	67.6	2.7	2.8	2.5	387	332	254	141	61	39	8	13	25	61	0.0	2.0	30.0	0.0	0.0	0.0
10	67.4	45.8	56.6	3.0	2.5	2.5	144	111	69	25	5	2	95	123	175	286	0.0	0.0	29.6	0.0	2.3	0.0
11	55.3	35.1	45.2	4.7	3.6	3.9	35	24	12	3	-7777	-7777	329	378	456	597	0.0	0.0	19.3	1.1	11.8	0.0
12	43.0	24.4	33.7	5.4	5.4	5.3	4	2	1	-7777	0	0	664	724	816	970	0.0	0.0	8.5	5.6	24.0	0.7
Summary	65.6	44.5	55.0	3.8	3.3	3.4	2901	2523	1998	1246	655	473	2856	3207	3777	4848	1.9	29.4	276.7	19.4	101.3	2.6

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National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **VICHY ROLLA NATIONAL AIRPORT, MO US**

GHCND:USW00013997

Elev: 1127 ft. Lat: 38.131° N Lon: 91.768° W

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	.25	.50	.75
1	2.17	7.9	3.6	1.4	0.9	1.06	1.88	2.85
2	1.93	6.8	3.6	0.9	0.2	1.16	1.77	2.49
3	3.45	10.2	5.9	2.2	0.7	2.36	2.91	4.10
4	4.22	11.3	8.1	3.1	1.1	2.64	3.77	4.80
5	5.04	13.0	8.5	3.8	1.6	3.06	4.31	6.90
6	4.63	11.3	6.9	2.9	1.4	3.30	4.01	5.67
7	4.44	9.8	5.8	2.8	1.4	2.04	3.85	6.21
8	3.67	8.5	5.2	2.3	1.3	2.28	3.14	4.39
9	4.04	7.9	5.3	2.5	1.3	1.83	3.43	5.77
10	3.51	8.6	5.5	2.2	0.7	1.97	3.02	3.72
11	3.87	8.5	5.7	2.5	1.1	2.12	3.42	5.48
12	2.64	7.6	4.8	1.4	0.7	1.36	2.26	3.09
Summary	43.61	111.4	68.9	28.0	12.4	25.18	37.77	55.47

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Summary of Monthly Normals 1981-2010

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Station: **VICHY ROLLA NATIONAL AIRPORT, MO US**

GHCND:USW00013997
Elev: 1127 ft. Lat: 38.131° N Lon: 91.768° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	75	230	464	739	970	1156	1125	829	518	223	58
45	18	36	141	331	584	820	1001	970	680	374	137	27
50	6	15	79	214	432	670	846	815	531	248	74	11
55	2	5	39	123	290	521	691	660	387	144	35	4
60	-7777	2	16	60	170	373	536	505	254	69	12	1
Growing Degree Units for Corn (Monthly)												
50/86	29	51	146	281	458	655	790	758	536	306	128	34

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	117	347	811	1550	2520	3676	4801	5630	6148	6371	6429
45	18	54	195	526	1110	1930	2931	3901	4581	4955	5092	5119
50	6	21	100	314	746	1416	2262	3077	3608	3856	3930	3941
55	2	7	46	169	459	980	1671	2331	2718	2862	2897	2901
60	0	2	18	78	248	621	1157	1662	1916	1985	1997	1998
Growing Degree Units for Corn (Monthly)												
50/86	29	80	226	507	965	1620	2410	3168	3704	4010	4138	4172

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

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www.ncdc.noaa.gov

Station: **CASSVILLE RANGER STATION, MO US**

GHCND:USC00231383
Elev: 1340 ft. Lat: 36.673° N Lon: 93.858° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.0	22.1	32.5	5.1	4.5	4.5	2	1	-7777	-7777	0	0	698	758	851	1006	0.0	0.0	10.0	6.1	25.9	1.1
2	48.4	24.4	36.4	5.5	4.6	4.8	5	3	1	-7777	0	0	526	579	662	801	0.0	0.0	13.4	3.4	21.6	0.6
3	57.8	34.0	45.9	4.0	4.1	3.8	38	26	14	3	-7777	-7777	320	370	451	595	0.0	0.0	22.3	0.6	14.6	0.0
4	67.3	42.0	54.7	3.4	3.6	3.2	111	84	52	17	3	1	121	155	212	327	0.0	0.0	28.4	0.0	4.7	0.0
5	75.2	52.9	64.0	2.6	3.1	2.6	295	243	171	78	22	11	15	24	46	108	0.0	0.0	31.0	0.0	0.2	0.0
6	82.7	60.8	71.7	2.4	2.5	2.1	503	443	355	216	94	57	-7777	1	3	13	-7777	1.7	30.0	0.0	0.0	0.0
7	86.7	65.4	76.1	2.0	2.3	1.7	652	590	497	343	197	144	0	0	-7777	1	0.1	8.1	31.0	0.0	0.0	0.0
8	87.8	63.7	75.7	3.5	2.6	2.8	643	581	489	337	197	147	-7777	-7777	-7777	4	0.5	12.3	31.0	0.0	0.0	0.0
9	79.6	55.1	67.3	3.1	3.1	2.7	381	326	249	137	58	37	10	16	29	67	0.2	2.3	29.9	0.0	0.2	0.0
10	69.5	43.4	56.4	3.1	3.2	2.4	133	100	60	18	4	2	88	117	170	283	0.0	0.0	30.0	0.0	4.4	0.0
11	57.7	34.0	45.8	4.6	3.4	3.7	32	22	10	2	-7777	-7777	307	356	435	576	0.0	0.0	21.8	0.5	13.7	0.0
12	44.8	23.5	34.2	5.4	5.7	5.4	3	2	1	-7777	0	0	649	710	802	956	0.0	0.0	11.6	4.4	24.3	0.8
Summary	66.7	43.4	55.1	3.7	3.6	3.3	2798	2421	1899	1151	575	399	2734	3086	3661	4737	0.8	24.4	290.4	15.0	109.6	2.5

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National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **CASSVILLE RANGER STATION, MO US**

GHCND:USC00231383

Elev: 1340 ft. Lat: 36.673° N Lon: 93.858° W

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	.25	.50	.75
1	2.55	4.7	3.6	1.7	0.6	1.04	2.29	3.85
2	2.54	5.8	4.1	1.7	0.7	1.41	2.24	3.57
3	3.78	7.8	5.7	2.9	1.1	2.39	3.20	5.18
4	4.56	8.8	6.3	2.7	1.5	2.35	4.20	6.40
5	5.66	10.3	8.0	4.3	1.6	3.74	4.35	6.26
6	4.62	8.6	6.5	3.0	1.4	2.70	3.91	5.57
7	3.75	6.2	4.7	2.3	0.8	2.53	3.24	4.49
8	3.24	6.3	4.6	2.0	1.1	1.56	2.66	3.94
9	4.79	6.5	5.0	2.9	1.6	2.40	4.29	6.83
10	3.62	7.3	5.2	2.4	1.1	2.26	3.20	4.72
11	4.44	6.2	5.0	2.6	1.3	2.45	3.98	5.78
12	3.40	5.2	4.0	2.0	1.1	1.52	2.50	4.89
Summary	46.95	83.7	62.7	30.5	13.9	26.35	40.06	61.48

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Monthly Normals
1981-2010**

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Station: **CASSVILLE RANGER STATION, MO US**

GHCND:USC00231383
Elev: 1340 ft. Lat: 36.673° N Lon: 93.858° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.1	0.9	0.8	0.4	0.1	-7777	3.4	1.7	0.5	-7777	0.0	0.0	4.2
2	2.1	1.1	0.8	0.2	0.1	0.0	2.4	1.3	0.7	0.2	0.0	0.7	4.0
3	1.7	0.5	0.5	0.3	0.2	0.1	0.8	0.6	0.4	0.2	0.0	0.0	2.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	-7777	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.4	0.9	0.6	0.4	0.2	0.0	1.6	1.1	0.4	0.1	0.0	0.0	1.8
Summary	7.3	3.5	2.7	1.3	0.6	0.1	8.2	4.7	2.0	0.5	0.0	0.7	12.0

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 1981-2010**

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Station: **CASSVILLE RANGER STATION, MO US**

GHCND:USC00231383
 Elev: 1340 ft. Lat: 36.673° N Lon: 93.858° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	52	79	241	446	745	952	1117	1108	821	513	231	58
45	23	39	148	313	591	802	962	953	671	367	141	27
50	8	15	81	199	439	652	807	798	523	237	74	10
55	2	5	38	111	295	503	652	643	381	133	32	3
60	-7777	1	14	52	171	355	497	489	249	60	10	1
Growing Degree Units for Corn (Monthly)												
50/86	40	68	162	284	472	646	771	743	535	328	154	46

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	52	131	372	818	1563	2515	3632	4740	5561	6074	6305	6363
45	23	62	210	523	1114	1916	2878	3831	4502	4869	5010	5037
50	8	23	104	303	742	1394	2201	2999	3522	3759	3833	3843
55	2	7	45	156	451	954	1606	2249	2630	2763	2795	2798
60	0	1	15	67	238	593	1090	1579	1828	1888	1898	1899
Growing Degree Units for Corn (Monthly)												
50/86	40	108	270	554	1026	1672	2443	3186	3721	4049	4203	4249

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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www.ncdc.noaa.gov

Station: **MAMMOTH SPRING, AR US**

GHCND:USC00034572
 Elev: 502 ft. Lat: 36.495° N Lon: 91.535° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.6	21.5	33.6	4.6	4.2	4.0	3	2	1	-7777	0	0	668	728	821	975	0.0	0.0	11.5	4.1	26.5	0.8
2	50.4	25.3	37.9	4.4	3.9	3.8	4	2	1	-7777	0	0	484	538	621	760	0.0	0.0	15.0	1.7	21.2	0.3
3	60.3	34.5	47.4	3.8	3.2	3.2	38	26	13	3	-7777	-7777	273	323	404	548	0.0	0.0	24.9	0.3	13.2	0.0
4	70.1	43.4	56.7	3.8	3.3	3.2	134	101	62	20	3	1	82	109	160	267	0.0	0.2	29.1	0.0	3.8	0.0
5	77.3	53.2	65.2	2.6	3.4	2.6	324	269	193	92	27	12	7	13	30	84	0.0	0.3	31.0	0.0	0.2	0.0
6	85.0	61.9	73.4	2.7	2.3	2.3	554	494	405	261	133	91	-7777	-7777	1	8	0.0	5.7	30.0	0.0	0.0	0.0
7	89.5	65.7	77.6	2.4	2.0	1.8	701	639	546	391	239	182	0	0	0	-7777	0.6	15.3	31.0	0.0	0.0	0.0
8	89.3	64.5	76.9	3.4	2.5	2.8	679	617	524	371	224	171	0	0	-7777	2	1.2	14.8	31.0	0.0	0.0	0.0
9	81.4	55.7	68.5	2.9	2.9	2.5	412	356	275	155	67	43	5	9	18	48	-7777	3.7	30.0	0.0	-7777	0.0
10	71.4	44.0	57.7	2.9	3.0	2.3	151	114	70	24	5	2	67	93	142	250	0.0	0.1	30.7	0.0	3.7	0.0
11	59.7	34.3	47.0	4.6	3.5	3.5	35	23	11	2	-7777	-7777	275	323	401	542	0.0	0.0	23.9	0.1	13.5	0.0
12	47.8	25.0	36.4	4.8	4.3	4.4	5	3	1	-7777	0	0	581	641	733	887	0.0	0.0	13.4	2.6	23.4	0.4
Summary	69.0	44.1	56.5	3.6	3.2	3.0	3040	2646	2102	1319	698	502	2442	2777	3331	4371	1.8	40.1	301.5	8.8	105.5	1.5

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Station: **MAMMOTH SPRING, AR US**

GHCND:USC00034572
Elev: 502 ft. Lat: 36.495° N Lon: 91.535° W

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	.25	.50	.75
1	3.40	6.4	4.7	2.3	1.0	1.69	3.22	4.30
2	3.42	6.1	4.7	2.4	1.1	2.14	3.01	4.15
3	4.33	8.2	6.7	2.5	1.1	2.58	3.73	5.39
4	4.91	8.0	6.5	3.0	1.4	3.11	4.37	6.04
5	4.06	8.9	7.2	3.1	1.0	2.87	4.05	4.95
6	3.46	7.8	6.2	2.5	0.9	1.81	3.70	4.26
7	3.63	7.1	5.7	2.5	0.9	2.48	3.01	5.06
8	2.96	6.3	4.7	2.2	1.0	1.99	2.97	4.07
9	3.91	6.4	5.0	2.3	1.2	2.07	3.12	5.10
10	4.18	7.6	6.1	3.3	1.1	2.37	3.95	4.66
11	5.17	7.9	6.4	3.6	1.7	2.49	4.95	7.02
12	4.06	7.2	5.6	2.7	1.3	1.48	3.33	4.78
Summary	47.49	87.9	69.5	32.4	13.7	27.08	43.41	59.78

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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MAMMOTH SPRING, AR US**

GHCND:USC00034572
 Elev: 502 ft. Lat: 36.495° N Lon: 91.535° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	0.4	0.3	0.2	-7777	-7777	0.0	0.8	0.4	0.2	0.0	0.0	0.0	0.0
2	1.5	0.7	0.6	0.3	-7777	0.0	0.5	0.2	-7777	0.0	0.0	1.0	3.0
3	0.3	0.1	0.1	0.1	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.1	0.2	0.2	-7777	0.0	0.0	0.8	0.6	0.1	0.0	0.0	0.0	0.0
Summary	2.3	1.3	1.1	0.4	0.0	0.0	2.1	1.2	0.3	0.0	0.0	1.0	3.0

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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Service

**Summary of
Monthly Normals
1981-2010**

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MAMMOTH SPRING, AR US**

GHCND:USC00034572
Elev: 502 ft. Lat: 36.495° N Lon: 91.535° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	86	267	505	783	1003	1165	1144	856	550	248	72
45	22	40	160	364	628	853	1011	989	707	401	151	33
50	9	15	85	238	474	703	856	834	557	264	79	13
55	3	4	38	134	324	554	701	679	412	151	35	5
60	1	1	13	62	193	405	546	524	275	70	11	1
Growing Degree Units for Corn (Monthly)												
50/86	49	76	185	323	502	678	787	763	560	359	171	57

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	49	135	402	907	1690	2693	3858	5002	5858	6408	6656	6728
45	22	62	222	586	1214	2067	3078	4067	4774	5175	5326	5359
50	9	24	109	347	821	1524	2380	3214	3771	4035	4114	4127
55	3	7	45	179	503	1057	1758	2437	2849	3000	3035	3040
60	1	2	15	77	270	675	1221	1745	2020	2090	2101	2102
Growing Degree Units for Corn (Monthly)												
50/86	49	125	310	633	1135	1813	2600	3363	3923	4282	4453	4510

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **JEFFERSON CITY WATER PLANT, MO US**

GHCND:USC00234271
Elev: 670 ft. Lat: 38.585° N Lon: 92.182° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.9	20.9	30.4	5.1	4.3	4.5	2	1	-7777	-7777	0	0	764	825	918	1073	0.0	0.0	6.8	8.1	26.2	1.3
2	45.3	24.6	35.0	5.4	4.7	4.9	4	2	1	-7777	0	0	565	619	702	841	0.0	0.0	10.4	4.8	21.4	0.6
3	55.8	33.3	44.6	4.2	3.2	3.5	35	25	14	4	-7777	-7777	359	411	493	638	0.0	0.0	20.0	0.8	14.9	0.0
4	66.7	43.8	55.2	4.3	3.3	3.6	126	98	64	26	7	3	118	151	207	319	0.0	0.1	27.2	0.0	2.8	0.0
5	75.1	53.8	64.5	3.4	3.2	3.1	305	252	181	88	31	17	12	21	43	105	0.0	0.8	31.0	0.0	0.0	0.0
6	83.5	63.7	73.6	2.8	2.1	2.3	558	498	410	268	143	101	-7777	1	2	10	-7777	4.6	30.0	0.0	0.0	0.0
7	88.3	68.1	78.2	2.7	2.0	2.0	719	657	564	409	259	202	0	0	0	-7777	0.9	12.5	31.0	0.0	0.0	0.0
8	87.8	66.3	77.0	3.7	3.1	3.2	683	621	529	375	232	180	-7777	-7777	-7777	2	1.4	12.4	31.0	0.0	0.0	0.0
9	79.7	57.0	68.4	2.9	2.8	2.5	408	353	275	159	75	52	8	13	24	59	0.0	3.4	30.0	0.0	0.1	0.0
10	68.5	44.9	56.7	3.3	3.4	2.9	142	109	69	25	6	3	90	118	171	283	0.0	0.1	29.9	0.0	2.3	0.0
11	55.7	34.9	45.3	5.0	3.3	3.9	32	22	11	3	-7777	-7777	324	373	453	594	0.0	0.0	19.3	0.9	11.7	0.0
12	42.6	24.0	33.3	5.3	5.4	5.2	3	2	1	-7777	0	0	676	736	828	983	0.0	0.0	8.7	6.0	24.4	0.9
Summary	65.7	44.6	55.2	4.0	3.4	3.5	3017	2640	2119	1357	753	558	2916	3268	3841	4907	2.3	33.9	275.3	20.6	103.8	2.8

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Asheville, North Carolina 28801
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Station: **JEFFERSON CITY WATER PLANT, MO US**

GHCND:USC00234271
Elev: 670 ft. Lat: 38.585° N Lon: 92.182° W

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	.25	.50	.75
1	1.90	6.9	4.0	1.2	0.4	0.49	1.63	2.81
2	2.31	7.0	4.2	1.6	0.5	1.06	2.21	3.40
3	3.00	9.9	6.3	2.2	0.6	1.71	2.73	3.93
4	4.14	10.7	7.5	3.0	1.1	2.89	3.69	5.17
5	5.17	11.8	8.3	3.4	1.4	3.39	4.90	6.54
6	4.39	9.7	7.1	2.8	1.2	2.11	4.19	6.19
7	4.31	8.7	6.2	2.8	1.2	1.55	4.03	5.41
8	4.04	7.9	5.3	2.5	1.3	2.06	3.12	4.90
9	4.16	7.9	5.5	2.7	1.2	1.78	2.77	5.12
10	3.34	9.3	6.0	2.1	0.7	1.92	2.81	3.77
11	3.61	9.2	6.3	2.6	0.9	2.02	3.13	4.32
12	2.73	8.0	4.8	1.7	0.7	1.36	2.16	3.96
Summary	43.10	107.0	71.5	28.6	11.2	22.34	37.37	55.52

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Station: **JEFFERSON CITY WATER PLANT, MO US**

GHCND:USC00234271
Elev: 670 ft. Lat: 38.585° N Lon: 92.182° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.6	2.0	1.6	0.5	0.2	-7777	1.5	0.2	0.0	0.0	0.1	1.2	2.8
2	3.4	1.5	1.0	0.3	0.1	0.0	1.7	0.6	0.1	0.0	0.0	1.6	4.6
3	1.0	0.5	0.3	0.2	0.1	0.0	0.1	-7777	-7777	0.0	0.0	0.0	0.6
4	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.2	0.2	0.1	0.1	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
12	3.5	1.7	1.1	0.6	0.1	-7777	1.8	0.8	0.5	0.1	0.0	1.4	7.0
Summary	11.7	5.9	4.1	1.7	0.5	0.0	5.2	1.6	0.6	0.1	0.1	4.2	15.0

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Station: JEFFERSON CITY WATER PLANT, MO US

GHCND:USC00234271
Elev: 670 ft. Lat: 38.585° N Lon: 92.182° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	38	69	213	463	758	1008	1184	1148	850	521	223	52
45	15	33	128	331	603	858	1029	993	701	374	135	23
50	5	12	70	215	450	708	874	838	552	245	71	9
55	2	4	35	126	305	558	719	683	408	142	32	3
60	-7777	1	14	64	181	410	564	529	275	69	11	1
Growing Degree Units for Corn (Monthly)												
50/86	29	53	142	279	470	687	815	779	552	315	133	35

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	38	107	320	783	1541	2549	3733	4881	5731	6252	6475	6527
45	15	48	176	507	1110	1968	2997	3990	4691	5065	5200	5223
50	5	17	87	302	752	1460	2334	3172	3724	3969	4040	4049
55	2	6	41	167	472	1030	1749	2432	2840	2982	3014	3017
60	0	1	15	79	260	670	1234	1763	2038	2107	2118	2119
Growing Degree Units for Corn (Monthly)												
50/86	29	82	224	503	973	1660	2475	3254	3806	4121	4254	4289

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

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Station: **ADVANCE 1 S, MO US**

GHCND:USW00093825
Elev: 360 ft. Lat: 37.096° N Lon: 89.916° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.5	22.9	32.2	4.9	4.9	4.6	2	1	-7777	-7777	0	0	708	769	862	1017	0.0	0.0	7.2	6.2	25.5	1.2
2	47.7	26.4	37.1	4.4	4.1	4.1	3	2	1	-7777	0	0	506	560	643	783	0.0	0.0	12.7	3.0	20.7	0.5
3	57.6	34.5	46.0	4.0	3.2	3.4	33	23	12	3	-7777	-7777	310	362	445	590	0.0	0.0	22.5	0.5	12.9	0.0
4	68.5	44.5	56.5	3.8	3.5	3.5	134	103	66	26	6	2	89	118	171	281	0.0	-7777	29.1	0.0	3.0	0.0
5	77.4	54.8	66.1	3.2	3.6	3.0	349	293	215	109	40	23	5	11	25	75	0.0	0.9	31.0	0.0	0.0	0.0
6	85.9	63.7	74.8	2.4	2.3	2.1	594	534	445	299	168	122	-7777	-7777	1	5	0.2	8.4	30.0	0.0	0.0	0.0
7	89.3	67.4	78.3	2.1	1.9	1.7	724	662	569	414	262	204	0	0	-7777	-7777	0.3	15.1	31.0	0.0	0.0	0.0
8	88.5	64.9	76.7	3.3	2.7	2.7	672	611	518	364	217	163	-7777	-7777	-7777	2	0.3	13.0	31.0	0.0	0.0	0.0
9	81.7	55.8	68.7	2.8	2.8	2.3	418	361	279	160	71	47	5	9	17	47	0.0	4.0	30.0	0.0	0.0	0.0
10	70.5	43.9	57.2	2.8	3.3	2.4	146	110	68	23	6	3	77	104	154	264	0.0	0.0	30.6	0.0	4.0	0.0
11	57.5	35.4	46.5	4.2	3.1	3.2	32	21	10	2	-7777	-7777	288	338	417	558	0.0	0.0	22.3	0.3	11.9	0.0
12	44.6	26.4	35.5	4.7	5.1	4.8	3	2	1	-7777	0	0	608	668	760	914	0.0	0.0	10.2	4.2	21.8	0.7
Summary	67.6	45.1	56.3	3.6	3.4	3.2	3110	2723	2184	1400	770	564	2596	2939	3495	4536	0.8	41.4	287.6	14.2	99.8	2.4

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Station: **ADVANCE 1 S, MO US**

GHCND:USW00093825
Elev: 360 ft. Lat: 37.096° N Lon: 89.916° W

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	.25	.50	.75
1	3.41	5.9	4.8	2.1	0.9	0.95	3.10	4.59
2	3.45	6.7	5.3	2.5	1.2	2.27	3.25	4.05
3	4.58	8.9	6.8	2.9	1.1	2.87	3.73	4.97
4	4.77	9.2	7.4	3.1	1.5	3.09	4.43	6.23
5	5.00	9.9	7.7	3.7	1.7	2.83	4.51	6.61
6	3.70	8.1	6.7	2.9	1.1	2.42	3.59	4.50
7	3.97	7.5	6.0	2.5	1.0	1.98	3.94	4.89
8	2.94	6.5	4.8	1.7	1.0	1.50	2.55	3.62
9	3.07	6.2	4.9	1.9	0.9	1.61	2.88	3.44
10	3.91	7.2	5.7	2.6	1.0	1.60	3.58	4.73
11	4.48	8.7	6.9	3.5	1.6	2.30	4.85	6.21
12	4.13	7.7	6.5	3.1	1.2	2.44	3.18	5.29
Summary	47.41	92.5	73.5	32.5	14.2	25.86	43.59	59.13

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Station: **ADVANCE 1 S, MO US**

GHCND:USW00093825
 Elev: 360 ft. Lat: 37.096° N Lon: 89.916° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.6	1.3	0.9	0.3	0.1	0.0	@	@	@	@	0.0	0.8	4.0
2	3.7	1.4	1.2	0.5	0.2	-7777	@	@	@	@	0.0	1.0	4.5
3	0.9	0.4	0.3	0.1	-7777	0.0	@	@	@	@	0.0	0.0	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	2.4	0.8	0.8	0.3	0.1	0.0	@	@	@	@	0.0	1.0	3.7
Summary	9.8	3.9	3.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.8	13.2

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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Service

Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ADVANCE 1 S, MO US**

GHCND:USW00093825
Elev: 360 ft. Lat: 37.096° N Lon: 89.916° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	39	75	238	497	809	1044	1189	1137	862	535	236	66
45	16	32	141	358	654	894	1034	982	712	387	141	28
50	5	11	74	234	500	744	879	828	563	254	73	11
55	2	3	33	134	349	594	724	672	418	146	32	3
60	-7777	1	12	66	215	445	569	518	279	68	10	1
Growing Degree Units for Corn (Monthly)												
50/86	27	52	152	306	515	709	814	771	566	345	145	37

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	39	114	352	849	1658	2702	3891	5028	5890	6425	6661	6727
45	16	48	189	547	1201	2095	3129	4111	4823	5210	5351	5379
50	5	16	90	324	824	1568	2447	3275	3838	4092	4165	4176
55	2	5	38	172	521	1115	1839	2511	2929	3075	3107	3110
60	0	1	13	79	294	739	1308	1826	2105	2173	2183	2184
Growing Degree Units for Corn (Monthly)												
50/86	27	79	231	537	1052	1761	2575	3346	3912	4257	4402	4439

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WILLIAMSVILLE, MO US**

GHCND:USC00238984
Elev: 510 ft. Lat: 36.971° N Lon: 90.559° W

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	.25	.50	.75
1	3.25	8.1	5.2	2.0	0.9	1.22	3.05	4.13
2	3.44	8.6	5.8	2.5	1.0	2.20	3.13	4.40
3	4.45	9.2	6.6	2.9	1.1	2.92	3.64	5.37
4	4.68	9.7	6.8	3.0	1.6	3.20	4.21	6.10
5	4.85	10.6	7.4	3.2	1.6	3.23	4.32	6.26
6	3.73	8.5	5.9	2.4	1.2	2.00	3.42	4.54
7	4.03	8.3	6.0	2.9	1.2	2.36	3.77	5.86
8	3.62	7.1	5.3	2.5	1.2	2.10	3.38	4.57
9	3.19	6.7	4.4	1.9	0.9	1.93	2.70	4.42
10	3.99	8.2	5.8	2.9	1.0	2.37	3.39	5.44
11	4.59	8.7	6.3	2.9	1.5	2.01	4.51	6.59
12	4.63	9.3	6.5	3.1	1.4	2.66	3.48	5.77
Summary	48.45	103.0	72.0	32.2	14.6	28.20	43.00	63.45

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WILLIAMSVILLE, MO US**

GHCND:USC00238984
Elev: 510 ft. Lat: 36.971° N Lon: 90.559° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.0	1.9	0.9	0.3	0.2	0.0	3.8	1.4	0.6	0.0	0.0	1.4	5.2
2	3.0	2.1	0.8	0.2	0.1	-7777	3.3	1.4	0.6	0.1	0.1	1.0	4.6
3	1.4	0.6	0.3	0.2	0.1	-7777	0.6	0.3	0.1	0.1	0.0	0.0	0.3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
11	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12	2.4	1.4	0.7	0.3	0.1	0.0	3.0	1.3	0.5	-7777	0.0	0.8	3.8
Summary	10.0	6.1	2.7	1.0	0.5	0.0	10.8	4.4	1.8	0.2	0.1	3.2	13.9

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **WARRENTON, MO US**

GHCND:USC00238725
 Elev: 827 ft. Lat: 38.835° N Lon: 91.139° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.0	19.9	29.5	6.0	4.9	5.2	1	-7777	-7777	0	0	0	793	854	947	1102	0.0	0.0	6.5	8.8	26.9	1.9
2	43.8	23.2	33.5	5.5	4.9	5.0	3	2	1	-7777	0	0	605	660	742	882	0.0	0.0	9.3	5.0	22.7	0.6
3	54.7	33.1	43.9	4.3	2.8	3.3	33	24	13	4	-7777	-7777	377	430	512	658	0.0	0.0	19.5	1.0	15.1	-7777
4	66.1	42.7	54.4	4.6	3.0	3.6	114	87	55	20	5	2	132	165	223	338	0.0	0.1	27.2	0.0	3.9	0.0
5	74.6	51.4	63.0	3.4	3.3	3.1	268	217	149	66	19	9	20	31	56	127	0.0	0.2	31.0	0.0	0.1	0.0
6	83.0	61.2	72.1	3.0	2.7	2.5	514	455	367	228	112	75	1	2	4	15	0.0	3.8	30.0	0.0	0.0	0.0
7	87.6	65.9	76.8	2.9	2.2	2.2	674	612	519	365	220	168	0	0	-7777	1	1.0	10.5	31.0	0.0	0.0	0.0
8	86.6	64.1	75.3	3.9	3.3	3.4	631	569	476	325	189	142	-7777	-7777	-7777	4	0.9	9.7	31.0	0.0	0.0	0.0
9	78.6	54.8	66.7	2.9	2.8	2.4	361	307	231	124	53	34	10	17	30	73	0.0	2.2	30.0	0.0	0.0	0.0
10	67.5	44.1	55.8	4.3	2.3	2.9	126	95	58	20	5	3	101	132	188	306	0.0	-7777	29.3	-7777	3.1	0.0
11	54.2	33.5	43.9	5.5	3.6	4.3	27	19	10	2	-7777	-7777	361	413	494	637	0.0	0.0	18.9	1.1	13.1	-7777
12	41.3	22.9	32.1	6.1	6.5	6.1	1	-7777	-7777	0	0	0	710	772	864	1020	0.0	0.0	7.7	6.1	25.2	1.2
Summary	64.8	43.1	53.9	4.4	3.5	3.7	2753	2387	1879	1154	603	433	3110	3476	4060	5163	1.9	26.5	271.4	22.0	110.1	3.7

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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**Summary of
Monthly Normals
1981-2010**

Station: **WARRENTON, MO US**

GHCND:USC00238725
Elev: 827 ft. Lat: 38.835° N Lon: 91.139° W

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	.25	.50	.75
1	2.36	@	@	@	@			
2	2.22	@	@	@	@			
3	2.54	@	@	@	@			
4	3.95	@	@	@	@			
5	5.09	@	@	@	@			
6	4.71	@	@	@	@			
7	4.03	@	@	@	@			
8	3.27	@	@	@	@			
9	3.58	@	@	@	@			
10	3.40	@	@	@	@			
11	3.84	@	@	@	@			
12	2.68	@	@	@	@			
Summary	41.67	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WARRENTON, MO US**

GHCND:USC00238725
Elev: 827 ft. Lat: 38.835° N Lon: 91.139° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	30	56	206	441	713	963	1139	1096	801	493	193	38
45	12	25	124	310	559	813	984	941	651	349	111	14
50	4	10	67	199	408	663	829	786	503	225	57	5
55	1	3	33	114	268	514	674	631	361	126	27	1
60	-7777	1	13	55	149	367	519	476	231	58	10	-7777
Growing Degree Units for Corn (Monthly)												
50/86	22	42	131	268	440	647	776	737	515	296	118	26

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	30	86	292	733	1446	2409	3548	4644	5445	5938	6131	6169
45	12	37	161	471	1030	1843	2827	3768	4419	4768	4879	4893
50	4	14	81	280	688	1351	2180	2966	3469	3694	3751	3756
55	1	4	37	151	419	933	1607	2238	2599	2725	2752	2753
60	0	1	14	69	218	585	1104	1580	1811	1869	1879	1879
Growing Degree Units for Corn (Monthly)												
50/86	22	64	195	463	903	1550	2326	3063	3578	3874	3992	4018

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

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WAPPAPELLO DAM, MO US**

GHCND:USC00238700
Elev: 410 ft. Lat: 36.923° N Lon: 90.284° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.7	23.1	34.4	4.9	4.5	4.5	3	2	1	0	0	0	642	702	794	948	0.0	0.0	11.5	3.3	25.6	0.6
2	51.0	27.0	39.0	4.2	4.1	3.9	4	2	1	-7777	0	0	452	506	589	728	0.0	0.0	15.1	1.8	20.1	0.1
3	60.5	35.9	48.2	3.7	2.6	3.0	43	29	16	4	-7777	-7777	254	302	382	525	0.0	0.0	25.1	0.2	11.3	0.0
4	71.4	45.7	58.6	3.8	3.3	3.4	166	130	85	34	8	3	60	83	128	227	0.0	0.1	29.6	0.0	1.4	0.0
5	79.3	55.3	67.3	3.1	3.1	2.8	384	325	243	128	49	29	3	6	17	57	0.0	1.6	31.0	0.0	0.0	0.0
6	87.9	64.5	76.2	2.7	2.3	2.1	636	576	486	339	201	151	0	-7777	-7777	3	0.2	12.0	30.0	0.0	0.0	0.0
7	91.9	68.4	80.1	2.5	2.1	1.9	780	718	625	470	316	256	0	0	0	-7777	1.7	21.0	31.0	0.0	0.0	0.0
8	91.5	66.7	79.1	3.1	2.4	2.6	747	685	592	437	285	227	0	0	-7777	-7777	2.1	19.0	31.0	0.0	0.0	0.0
9	84.1	58.5	71.3	3.1	2.5	2.4	491	433	347	215	107	74	2	4	8	26	0.2	7.1	30.0	0.0	0.0	0.0
10	72.5	46.3	59.4	3.0	2.9	2.4	181	141	91	35	9	5	45	66	110	209	0.0	0.3	30.9	0.0	0.9	0.0
11	60.5	36.4	48.4	4.4	3.5	3.7	39	26	12	2	-7777	-7777	236	282	359	499	0.0	0.0	24.6	-7777	9.8	0.0
12	48.1	26.5	37.3	4.1	4.5	4.1	3	1	-7777	0	0	0	551	612	704	859	0.0	0.0	14.0	1.9	22.9	0.2
Summary	70.4	46.2	58.3	3.6	3.2	3.1	3477	3068	2499	1664	975	745	2245	2563	3091	4081	4.2	61.1	303.8	7.2	92.0	0.9

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151 Patton Avenue

Asheville, North Carolina 28801
www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **WAPPAPELLO DAM, MO US**

GHCND:USC00238700

Elev: 410 ft. Lat: 36.923° N Lon: 90.284° W

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	.25	.50	.75
1	3.73	@	@	@	@			
2	3.52	@	@	@	@			
3	4.41	@	@	@	@			
4	4.71	@	@	@	@			
5	4.88	@	@	@	@			
6	3.57	@	@	@	@			
7	4.12	@	@	@	@			
8	3.10	@	@	@	@			
9	3.48	@	@	@	@			
10	3.96	@	@	@	@			
11	4.60	@	@	@	@			
12	4.54	@	@	@	@			
Summary	48.62	0.0	0.0	0.0	0.0			

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WAPPAPELLO DAM, MO US**

GHCND:USC00238700
Elev: 410 ft. Lat: 36.923° N Lon: 90.284° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	57	97	286	557	846	1086	1244	1212	939	602	279	74
45	25	45	176	412	691	936	1090	1057	789	450	171	31
50	10	16	94	279	537	786	935	902	639	305	90	11
55	3	4	43	166	384	636	780	747	491	181	39	3
60	1	1	16	85	243	486	625	592	347	91	12	-7777
Growing Degree Units for Corn (Monthly)												
50/86	47	77	187	348	543	732	835	807	614	376	177	52

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	57	154	440	997	1843	2929	4173	5385	6324	6926	7205	7279
45	25	70	246	658	1349	2285	3375	4432	5221	5671	5842	5873
50	10	26	120	399	936	1722	2657	3559	4198	4503	4593	4604
55	3	7	50	216	600	1236	2016	2763	3254	3435	3474	3477
60	1	2	18	103	346	832	1457	2049	2396	2487	2499	2499
Growing Degree Units for Corn (Monthly)												
50/86	47	124	311	659	1202	1934	2769	3576	4190	4566	4743	4795

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

M indicates the value is missing

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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ODESSA 4 SE, MO US**

GHCND:USC00236269
Elev: 910 ft. Lat: 38.952° N Lon: 93.826° W

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	.25	.50	.75
1	1.42	3.2	2.5	1.0	0.2	0.62	1.30	1.80
2	1.71	4.4	3.3	1.0	0.4	0.85	1.52	2.29
3	2.49	6.9	4.9	1.5	0.6	1.62	2.03	3.27
4	3.67	9.2	6.4	2.8	1.0	2.20	3.69	4.66
5	5.29	10.1	7.9	3.1	1.5	3.36	5.07	6.13
6	5.20	8.9	6.8	3.7	1.6	3.33	5.44	6.91
7	4.62	7.6	5.8	2.7	1.1	2.49	4.66	6.09
8	3.64	6.4	4.7	2.5	1.0	1.85	3.25	4.50
9	4.34	6.4	4.8	2.7	1.2	1.58	3.96	5.81
10	3.31	7.2	5.3	2.3	0.9	1.80	3.04	4.18
11	2.52	5.3	4.0	1.9	0.8	1.11	1.98	3.59
12	1.85	4.5	3.4	1.3	0.5	0.67	1.51	2.87
Summary	40.06	80.1	59.8	26.5	10.8	21.48	37.45	52.10

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ODESSA 4 SE, MO US**

GHCND:USC00236269
 Elev: 910 ft. Lat: 38.952° N Lon: 93.826° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.5	1.8	1.1	0.5	0.2	0.0	@	@	@	@	0.0	1.0	5.5
2	4.3	1.4	1.2	0.6	-7777	0.0	@	@	@	@	0.0	4.0	7.0
3	1.0	0.5	0.4	0.1	-7777	0.0	@	@	@	@	0.0	0.0	1.0
4	0.2	0.1	0.1	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.2	0.2	0.1	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	3.4	1.6	1.0	0.4	0.1	-7777	@	@	@	@	0.0	1.7	5.5
Summary	12.6	5.6	3.9	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	6.7	19.0

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: COLE CAMP 3 NW, MO US

GHCND:USC00231748
 Elev: 1008 ft. Lat: 38.484° N Lon: 93.256° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.6	17.8	28.7				1	-7777	-7777	0	0	0	815	876	969	1125	0.0	0.0	7.5	9.2	28.0	1.5
2	45.4	22.1	33.8				3	1	-7777	0	0	0	597	651	734	875	0.0	0.0	9.1	4.1	24.2	0.3
3	55.6	32.4	44.0				26	16	7	1	-7777	0	367	420	503	652	0.0	0.0	21.4	0.5	16.1	0.0
4	66.1	42.8	54.5				108	80	48	18	3	2	125	157	215	334	0.0	0.4	27.6	0.0	4.3	0.0
5	74.9	53.1	64.0				288	232	156	66	15	7	9	15	32	97	0.0	0.2	31.0	0.0	0.0	0.0
6	83.0	62.5	72.8				532	472	382	236	107	68	-7777	-7777	-7777	4	0.0	1.6	30.0	0.0	0.0	0.0
7	88.2	66.5	77.4				692	630	537	383	233	176	0	0	0	-7777	1.0	10.6	31.0	0.0	0.0	0.0
8	88.1	65.3	76.7				671	609	516	363	220	170	-7777	-7777	-7777	1	1.4	13.0	31.0	0.0	0.0	0.0
9	80.0	56.0	68.0				392	335	254	136	54	31	2	5	14	46	0.0	2.0	30.0	0.0	0.0	0.0
10	68.8	44.6	56.7				140	108	70	26	7	4	87	117	173	284	0.0	0.2	30.4	0.0	2.4	0.0
11	55.5	33.3	44.4				17	10	3	-7777	-7777	0	335	388	471	618	0.0	0.0	21.5	0.8	15.6	0.0
12	42.8	22.4	32.6				1	1	-7777	0	0	0	695	756	848	1004	0.0	0.0	8.6	6.2	25.3	1.0
Summary	65.7	43.2	54.5				2871	2494	1973	1229	639	458	3032	3385	3959	5040	2.4	28.0	279.1	20.8	115.9	2.8

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Service

**Summary of
Monthly Normals
1981-2010**

Station: **COLE CAMP 3 NW, MO US**

GHCND:USC00231748
Elev: 1008 ft. Lat: 38.484° N Lon: 93.256° W

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	.25	.50	.75
1	1.85	@	@	@	@			
2	2.02	@	@	@	@			
3	3.19	@	@	@	@			
4	4.35	@	@	@	@			
5	5.43	@	@	@	@			
6	4.95	@	@	@	@			
7	5.04	@	@	@	@			
8	3.97	@	@	@	@			
9	4.80	@	@	@	@			
10	3.73	@	@	@	@			
11	3.29	@	@	@	@			
12	2.27	@	@	@	@			
Summary	44.89	0.0	0.0	0.0	0.0			

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **COLE CAMP 3 NW, MO US**

GHCND:USC00231748
 Elev: 1008 ft. Lat: 38.484° N Lon: 93.256° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	30	57	198	442	744	982	1157	1137	840	519	193	43
45	10	27	114	312	589	832	1002	982	690	372	108	16
50	5	11	59	199	435	682	847	827	540	243	51	6
55	1	3	26	108	288	532	692	671	392	140	17	1
60	-7777	-7777	7	48	156	382	537	516	254	70	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	26	48	133	263	455	670	795	765	542	316	117	30

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	30	87	285	727	1471	2453	3610	4747	5587	6106	6299	6342
45	10	37	151	463	1052	1884	2886	3868	4558	4930	5038	5054
50	5	16	75	274	709	1391	2238	3065	3605	3848	3899	3905
55	1	4	30	138	426	958	1650	2321	2713	2853	2870	2871
60	0	0	7	55	211	593	1130	1646	1900	1970	1973	1973
Growing Degree Units for Corn (Monthly)												
50/86	26	74	207	470	925	1595	2390	3155	3697	4013	4130	4160

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **LOCKWOOD, MO US**

GHCND:USC00235027
 Elev: 1070 ft. Lat: 37.391° N Lon: 93.949° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.5	21.5	31.5	5.2	4.5	4.7	2	1	-7777	-7777	0	0	730	791	884	1038	0.0	0.0	8.2	7.1	26.3	1.3
2	47.2	25.4	36.3	5.0	4.7	4.7	5	3	1	-7777	0	0	528	582	664	804	0.0	0.0	12.3	3.8	20.5	0.6
3	56.6	34.0	45.3	4.1	3.3	3.4	34	23	11	2	-7777	-7777	335	386	467	613	0.0	0.0	21.4	0.8	13.4	0.0
4	66.6	43.1	54.9	3.5	3.3	3.3	116	89	56	19	3	1	121	154	211	324	0.0	0.0	27.6	0.0	3.6	0.0
5	75.0	53.8	64.4	3.1	3.1	2.9	304	252	179	84	27	14	13	22	43	103	0.0	0.2	31.0	0.0	0.0	0.0
6	83.4	62.7	73.0	2.9	2.2	2.3	542	482	393	251	128	87	-7777	-7777	2	10	-7777	3.7	30.0	0.0	0.0	0.0
7	88.2	67.6	77.9	2.5	1.9	2.0	710	648	555	401	251	195	0	0	0	1	0.3	12.4	31.0	0.0	0.0	0.0
8	88.6	65.8	77.2	3.4	2.8	3.0	688	626	533	381	236	183	0	-7777	-7777	2	0.9	13.5	31.0	0.0	0.0	0.0
9	80.3	56.8	68.6	3.6	2.7	2.9	414	359	280	165	77	53	8	13	24	58	0.2	3.3	30.0	0.0	0.1	0.0
10	69.1	45.7	57.4	2.9	2.7	2.5	158	122	78	29	7	3	83	110	159	264	0.0	-7777	29.7	-7777	2.3	0.0
11	56.2	35.0	45.6	4.7	3.5	3.8	33	22	11	2	-7777	-7777	315	364	443	584	0.0	0.0	20.2	0.7	12.2	0.0
12	43.9	24.4	34.1	5.2	5.1	5.0	4	2	1	-7777	0	0	650	710	802	956	0.0	0.0	9.9	5.6	23.9	0.8
Summary	66.4	44.7	55.5	3.8	3.3	3.4	3010	2629	2098	1334	729	536	2783	3132	3699	4757	1.4	33.1	282.3	18.0	102.3	2.7

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LOCKWOOD, MO US**

GHCND:USC00235027
Elev: 1070 ft. Lat: 37.391° N Lon: 93.949° W

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	.25	.50	.75
1	2.16	6.7	4.1	1.4	0.6	0.98	1.96	3.31
2	2.44	6.9	4.3	1.6	0.5	1.22	2.30	2.95
3	3.67	9.4	6.6	2.5	1.0	2.26	3.18	4.76
4	4.44	9.7	7.1	2.8	1.2	2.86	3.96	5.46
5	5.73	11.7	8.1	4.2	1.8	3.55	5.55	7.07
6	5.52	11.3	7.8	3.5	1.7	2.83	5.50	7.13
7	4.64	8.3	5.4	2.7	1.6	2.71	3.87	5.94
8	3.59	7.3	4.5	2.1	1.1	2.13	3.10	4.17
9	4.95	7.4	5.5	3.0	1.6	2.52	3.66	6.02
10	3.97	9.2	5.8	2.2	1.1	1.66	3.26	5.70
11	3.97	8.4	5.3	2.7	1.2	2.19	2.89	5.24
12	2.67	7.9	4.7	2.1	0.7	1.24	2.45	3.92
Summary	47.75	104.2	69.2	30.8	14.1	26.15	41.68	61.67

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**Summary of
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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LOCKWOOD, MO US**

GHCND:USC00235027
Elev: 1070 ft. Lat: 37.391° N Lon: 93.949° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.6	2.5	1.7	0.5	0.1	0.0	6.7	3.6	0.9	0.0	1.0	3.1	7.6
2	3.1	2.0	1.1	0.4	0.1	-7777	3.8	1.4	0.8	0.0	0.5	2.0	5.5
3	2.5	0.6	0.6	0.3	0.2	0.1	1.1	0.7	0.4	0.1	0.0	0.0	4.0
4	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.3	0.1	-7777	-7777	0.0	0.2	0.1	-7777	0.0	0.0	0.0	0.0
12	4.4	1.9	1.2	0.6	0.2	0.0	4.6	2.8	1.7	0.1	0.0	3.5	6.5
Summary	15.0	7.3	4.7	1.8	0.6	0.1	16.4	8.6	3.8	0.2	1.5	8.6	23.6

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Summary of Monthly Normals 1981-2010

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LOCKWOOD, MO US**

GHCND:USC00235027
Elev: 1070 ft. Lat: 37.391° N Lon: 93.949° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	45	83	231	452	756	991	1175	1153	857	543	231	62
45	18	40	140	320	602	841	1020	998	707	397	141	28
50	7	16	76	205	449	691	865	843	558	266	75	11
55	2	5	34	116	304	542	710	688	414	158	33	4
60	-7777	1	11	56	179	393	555	533	280	78	11	1
Growing Degree Units for Corn (Monthly)												
50/86	33	61	149	277	472	674	809	778	559	333	139	41

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	45	128	359	811	1567	2558	3733	4886	5743	6286	6517	6579
45	18	58	198	518	1120	1961	2981	3979	4686	5083	5224	5252
50	7	23	99	304	753	1444	2309	3152	3710	3976	4051	4062
55	2	7	41	157	461	1003	1713	2401	2815	2973	3006	3010
60	0	1	12	68	247	640	1195	1728	2008	2086	2097	2098
Growing Degree Units for Corn (Monthly)												
50/86	33	94	243	520	992	1666	2475	3253	3812	4145	4284	4325

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SPICKARD 7 W, MO US**

GHCND:USC00237963
Elev: 875 ft. Lat: 40.247° N Lon: 93.716° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	32.8	14.6	23.7	5.7	5.7	5.5	0	0	0	0	0	0	970	1032	1125	1280	0.0	0.0	2.9	14.1	29.7	4.2
2	38.0	18.9	28.5	6.3	6.2	6.1	1	-7777	-7777	-7777	0	0	744	800	884	1023	0.0	0.0	5.5	9.3	24.6	2.3
3	50.3	29.9	40.1	4.6	3.7	3.8	17	11	6	1	-7777	0	479	535	623	773	0.0	0.0	15.7	2.9	17.9	0.1
4	61.7	41.2	51.5	4.5	3.4	3.7	76	57	35	12	2	1	183	223	291	419	0.0	-7777	24.9	-7777	5.1	0.0
5	71.5	52.3	61.9	3.4	3.1	3.0	245	197	135	58	18	10	31	46	76	154	0.0	0.2	30.9	0.0	0.2	0.0
6	81.0	62.0	71.5	3.0	2.5	2.6	496	437	350	215	105	71	1	2	5	20	0.1	2.6	30.0	0.0	0.0	0.0
7	86.0	66.4	76.2	2.8	2.2	2.3	657	595	502	349	205	154	-7777	-7777	-7777	2	0.2	9.0	31.0	0.0	0.0	0.0
8	84.7	64.2	74.4	4.0	3.1	3.4	603	541	449	300	169	125	-7777	-7777	1	7	0.7	7.5	31.0	0.0	0.0	0.0
9	76.5	54.1	65.3	3.4	3.2	3.1	328	277	207	110	45	29	19	28	48	102	0.0	1.7	29.9	0.0	0.3	0.0
10	64.6	42.6	53.6	3.0	2.3	2.3	100	74	44	15	4	2	143	180	243	368	0.0	0.0	28.1	0.0	3.9	0.0
11	49.8	31.1	40.4	5.4	4.4	4.6	13	7	3	-7777	-7777	-7777	449	504	590	737	0.0	0.0	15.0	2.2	16.1	0.1
12	35.7	18.5	27.1	6.3	6.3	6.1	-7777	-7777	0	0	0	0	865	927	1020	1175	0.0	0.0	3.9	11.8	28.0	2.9
Summary	61.1	41.3	51.2	4.4	3.8	3.9	2536	2196	1731	1060	548	392	3884	4277	4906	6060	1.0	21.0	248.8	40.3	125.8	9.6

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SPICKARD 7 W, MO US**

GHCND:USC00237963
Elev: 875 ft. Lat: 40.247° N Lon: 93.716° W

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	.25	.50	.75
1	0.93	5.3	2.7	0.4	-7777	0.49	0.80	1.32
2	1.21	5.9	3.1	0.7	0.2	0.60	0.97	1.67
3	2.43	8.0	5.1	1.7	0.5	1.24	2.44	3.63
4	3.68	10.6	6.7	2.8	0.9	2.50	3.85	4.83
5	5.42	12.1	8.3	3.6	1.6	3.40	4.97	7.80
6	5.17	10.5	7.5	3.3	1.7	3.37	4.80	6.83
7	5.27	10.0	6.7	3.2	1.7	2.43	3.68	6.86
8	4.17	9.0	5.8	2.6	1.3	2.40	3.13	5.80
9	3.66	8.4	6.1	2.5	1.0	2.07	3.16	4.82
10	3.29	9.2	5.7	2.2	1.0	1.77	2.99	4.56
11	2.12	7.4	4.6	1.5	0.4	1.18	2.04	2.98
12	1.56	6.6	3.4	1.1	0.3	0.76	1.43	2.10
Summary	38.91	103.0	65.7	25.6	10.6	22.21	34.26	53.20

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Station: **SPICKARD 7 W, MO US**

GHCND:USC00237963
Elev: 875 ft. Lat: 40.247° N Lon: 93.716° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.7	2.0	1.2	0.5	0.1	0.0	10.5	7.2	4.8	0.0	1.7	3.0	8.0
2	3.2	1.7	1.3	0.4	0.2	0.0	7.5	4.4	2.9	0.6	0.0	1.0	5.5
3	1.9	0.9	0.5	0.3	0.1	0.0	1.2	0.6	0.2	0.0	0.0	0.2	1.9
4	-7777	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.3	0.2	0.1	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
12	3.7	2.0	1.4	0.3	0.1	0.0	5.3	3.0	1.6	0.0	0.0	1.0	6.8
Summary	13.8	7.0	4.6	1.6	0.5	0.0	24.9	15.3	9.5	0.6	1.7	5.2	22.2

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Station: **SPICKARD 7 W, MO US**

GHCND:USC00237963
 Elev: 875 ft. Lat: 40.247° N Lon: 93.716° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	25	140	361	679	945	1122	1068	759	430	139	17
45	2	9	77	242	525	795	967	913	610	296	76	6
50	-7777	3	40	145	377	645	812	758	465	183	35	1
55	0	1	17	76	245	496	657	603	328	100	13	-7777
60	0	-7777	6	35	135	350	502	449	207	44	3	0
Growing Degree Units for Corn (Monthly)												
50/86	7	20	91	207	404	634	771	721	483	255	79	12

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	33	173	534	1213	2158	3280	4348	5107	5537	5676	5693
45	2	11	88	330	855	1650	2617	3530	4140	4436	4512	4518
50	0	3	43	188	565	1210	2022	2780	3245	3428	3463	3464
55	0	1	18	94	339	835	1492	2095	2423	2523	2536	2536
60	0	0	6	41	176	526	1028	1477	1684	1728	1731	1731
Growing Degree Units for Corn (Monthly)												
50/86	7	27	118	325	729	1363	2134	2855	3338	3593	3672	3684

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
 -7777: a non-zero value that would round to zero
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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BERNIE, MO US**

GHCND:USC00230595
Elev: 300 ft. Lat: 36.672° N Lon: 89.972° W

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	.25	.50	.75
1	3.04	7.4	5.3	1.9	0.7	1.41	3.07	4.24
2	3.35	8.4	6.4	2.3	0.8	2.13	3.02	3.94
3	4.40	9.9	7.2	3.0	1.0	2.87	3.92	5.35
4	4.78	9.9	7.6	3.4	1.5	3.20	4.35	6.08
5	4.84	10.6	7.5	3.2	1.3	2.96	4.37	6.23
6	3.53	8.3	6.2	2.8	1.0	2.33	3.37	4.40
7	4.08	7.6	5.8	2.6	1.4	2.32	3.89	6.09
8	2.67	6.1	4.6	1.9	0.6	1.13	2.45	3.24
9	3.33	6.5	4.8	2.2	1.0	1.76	3.09	4.04
10	3.78	7.8	5.4	2.3	1.0	2.12	3.10	4.86
11	4.66	9.1	6.6	3.3	1.4	2.37	4.54	6.35
12	4.60	9.0	6.4	3.1	1.4	2.39	3.87	6.07
Summary	47.06	100.6	73.8	32.0	13.1	26.99	43.04	60.89

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Station: **BERNIE, MO US**

GHCND:USC00230595
Elev: 300 ft. Lat: 36.672° N Lon: 89.972° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.1	0.6	0.5	0.1	0.1	0.0	3.2	1.2	0.4	0.0	0.0	0.0	2.0
2	2.3	0.9	0.8	0.2	0.0	0.0	3.0	1.4	0.4	-7777	0.0	0.0	4.0
3	0.1	0.2	-7777	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2.1	0.6	0.5	0.3	0.1	-7777	1.8	0.8	0.3	0.1	0.0	0.0	1.3
Summary	6.6	2.3	1.8	0.6	0.2	0.0	8.2	3.4	1.1	0.1	0.0	0.0	7.3

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Monthly Normals
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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **PERRYVILLE WATR PLANT, MO US**

GHCND:USC00236641
Elev: 502 ft. Lat: 37.734° N Lon: 89.920° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.2	21.4	31.3	5.1	4.7	4.7	2	1	-7777	0	0	0	737	798	890	1045	0.0	0.0	7.8	6.8	25.8	1.3
2	46.4	24.6	35.5	4.7	4.4	4.4	4	2	1	-7777	0	0	549	604	687	826	0.0	0.0	11.5	4.0	21.1	0.4
3	56.6	32.8	44.7	4.2	2.8	3.3	33	23	12	3	-7777	-7777	352	404	487	633	0.0	0.0	21.1	0.6	15.9	0.0
4	67.7	42.7	55.2	3.8	3.4	3.3	125	97	62	23	5	2	119	151	206	317	0.0	0.1	28.6	0.0	4.9	0.0
5	76.6	52.1	64.4	3.4	4.1	3.5	304	252	181	88	32	18	14	24	46	109	0.0	0.8	31.0	0.0	0.2	0.0
6	84.9	62.1	73.5	3.3	3.2	3.0	555	496	407	266	144	104	-7777	1	2	11	0.2	6.9	30.0	0.0	0.0	0.0
7	88.7	65.7	77.2	2.7	2.7	2.3	688	626	533	379	233	179	0	0	-7777	1	0.6	13.8	31.0	0.0	0.0	0.0
8	87.7	63.4	75.6	3.8	2.9	3.1	637	575	483	331	192	144	-7777	-7777	1	4	1.2	11.2	31.0	0.0	0.0	0.0
9	80.5	54.6	67.6	2.8	3.2	2.6	386	331	254	144	65	42	9	14	28	68	-7777	3.4	30.0	0.0	0.2	0.0
10	69.7	43.0	56.4	2.7	3.3	2.4	136	103	65	24	6	3	94	123	178	292	0.0	0.1	30.3	0.0	4.7	0.0
11	57.2	34.1	45.7	4.9	3.4	3.6	29	19	10	2	-7777	-7777	310	360	440	583	0.0	0.0	21.3	0.3	13.7	0.0
12	43.6	24.6	34.1	4.9	5.0	4.7	2	1	-7777	0	0	0	650	711	803	958	0.0	0.0	9.9	4.6	23.3	0.6
Summary	66.7	43.4	55.1	3.9	3.6	3.4	2901	2526	2008	1260	677	492	2834	3190	3768	4847	2.0	36.3	283.5	16.3	109.8	2.3

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **PERRYVILLE WATR PLANT, MO US**

GHCND:USC00236641
Elev: 502 ft. Lat: 37.734° N Lon: 89.920° W

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	.25	.50	.75
1	2.50	4.0	3.4	1.6	0.7	0.82	2.22	3.52
2	2.55	4.2	3.4	1.8	0.8	1.51	2.50	3.67
3	3.40	6.1	5.3	2.5	1.0	2.05	2.89	4.08
4	4.38	7.8	6.5	3.2	1.2	2.17	3.71	6.24
5	5.61	9.2	7.5	3.6	1.9	3.34	5.23	7.37
6	3.80	6.3	5.3	2.9	1.1	2.41	3.69	5.19
7	3.41	6.3	5.4	2.6	1.0	2.02	3.02	3.78
8	3.37	5.4	4.5	2.1	1.0	2.33	3.30	4.43
9	3.31	5.0	4.2	2.1	1.1	2.04	2.67	4.21
10	3.62	5.7	4.9	2.5	1.0	2.02	2.96	5.10
11	4.53	6.5	5.6	3.2	1.4	2.43	4.15	6.53
12	3.65	5.4	4.4	2.3	0.8	2.15	2.80	4.59
Summary	44.13	71.9	60.4	30.4	13.0	25.29	39.14	58.71

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Station: PERRYVILLE WATR PLANT, MO US

GHCND:USC00236641
 Elev: 502 ft. Lat: 37.734° N Lon: 89.920° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	1.3	0.6	0.4	0.3	0.1	0.0	0.6	0.3	0.2	0.0	0.0	0.0	1.8
2	1.7	0.8	0.8	0.4	0.2	0.0	2.0	1.1	0.1	0.0	0.0	0.0	2.0
3	0.4	0.1	-7777	-7777	-7777	0.0	0.1	-7777	-7777	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.1	0.6	0.5	0.2	0.0	0.0	0.4	0.2	0.1	0.0	0.0	0.0	1.5
Summary	4.5	2.1	1.7	0.9	0.3	0.0	3.1	1.6	0.4	0.0	0.0	0.0	5.3

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Station: PERRYVILLE WATR PLANT, MO US

GHCND:USC00236641
 Elev: 502 ft. Lat: 37.734° N Lon: 89.920° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	41	69	215	461	755	1005	1153	1102	826	510	222	57
45	18	32	129	328	600	855	998	947	677	366	132	25
50	7	12	70	213	447	705	843	792	528	238	68	9
55	2	4	33	125	304	555	688	637	386	136	29	2
60	-7777	1	12	62	181	407	533	483	254	65	10	-7777
Growing Degree Units for Corn (Monthly)												
50/86	30	51	147	293	482	676	780	738	541	332	144	35

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	41	110	325	786	1541	2546	3699	4801	5627	6137	6359	6416
45	18	50	179	507	1107	1962	2960	3907	4584	4950	5082	5107
50	7	19	89	302	749	1454	2297	3089	3617	3855	3923	3932
55	2	6	39	164	468	1023	1711	2348	2734	2870	2899	2901
60	0	1	13	75	256	663	1196	1679	1933	1998	2008	2008
Growing Degree Units for Corn (Monthly)												
50/86	30	81	228	521	1003	1679	2459	3197	3738	4070	4214	4249

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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U.S. Department of Commerce
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: CAMDENTON 2 NW, MO US

GHCND:USC00231212
 Elev: 1030 ft. Lat: 38.217° N Lon: 92.767° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.9	24.1	34.0	5.9	4.6	5.1	4	2	1	-7777	0	0	654	715	806	961	0.0	0.0	10.2	5.3	23.0	1.1
2	50.1	29.0	39.5	4.7	4.2	4.2	13	8	4	-7777	-7777	0	445	497	576	713	0.0	0.0	14.7	3.4	15.5	0.4
3	60.0	36.3	48.1	4.2	3.2	3.5	64	48	28	8	2	1	277	322	395	531	0.0	0.1	23.8	0.6	11.9	0.0
4	70.6	46.3	58.4	4.3	3.4	3.7	180	144	99	46	14	7	76	101	146	243	0.0	0.6	28.9	0.0	2.4	0.0
5	77.9	54.4	66.1	2.8	3.1	2.7	352	296	216	106	35	19	6	12	25	70	0.0	0.5	31.0	0.0	0.0	0.0
6	84.4	63.7	74.1	2.6	2.5	2.4	572	512	423	280	153	109	-7777	1	2	9	0.3	3.3	30.0	0.0	0.0	0.0
7	89.1	69.0	79.1	2.8	2.3	2.3	745	683	590	436	283	225	0	0	-7777	-7777	1.1	14.0	31.0	0.0	0.0	0.0
8	89.1	67.0	78.1	3.7	2.4	2.9	714	652	559	406	260	208	0	-7777	-7777	1	1.9	15.0	31.0	0.0	0.0	0.0
9	80.7	58.8	69.8	2.9	2.7	2.6	451	395	315	195	100	71	8	12	22	52	0.0	3.6	30.0	0.0	0.1	0.0
10	71.0	47.9	59.5	3.0	2.2	2.3	194	153	99	38	9	4	56	77	116	210	0.0	0.1	30.3	0.0	2.0	0.0
11	59.7	37.6	48.6	4.4	3.4	3.6	50	35	18	4	-7777	-7777	241	286	359	495	0.0	0.1	23.3	0.5	8.6	0.0
12	46.5	27.3	36.9	4.9	5.1	4.9	7	4	1	-7777	0	0	568	627	717	871	0.0	0.0	12.3	3.4	19.1	1.2
Summary	68.6	46.8	57.7	3.9	3.3	3.4	3346	2932	2353	1519	856	644	2331	2650	3164	4156	3.3	37.3	296.5	13.2	82.6	2.7

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151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CAMDENTON 2 NW, MO US**

GHCND:USC00231212
Elev: 1030 ft. Lat: 38.217° N Lon: 92.767° W

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	.25	.50	.75
1	2.36	5.3	3.6	1.2	0.3	0.86	2.01	3.45
2	2.69	7.3	4.3	1.6	0.6	1.73	2.50	4.25
3	3.36	10.1	6.5	2.0	0.7	1.75	2.95	4.48
4	5.10	12.1	8.5	2.8	1.2	3.35	4.26	5.98
5	5.59	11.3	8.2	3.7	1.8	3.33	5.31	7.12
6	4.86	8.6	5.8	2.6	1.2	1.98	3.92	6.87
7	4.17	7.6	6.1	3.2	1.6	2.04	3.89	5.69
8	3.80	8.7	6.3	2.6	1.2	2.10	3.68	4.50
9	4.05	6.6	5.4	3.5	2.0	1.16	2.99	4.85
10	4.23	9.2	7.1	3.1	1.4	2.50	3.79	6.23
11	3.88	9.6	6.0	3.2	1.7	2.34	3.26	5.66
12	3.04	8.4	5.8	2.7	1.3	1.43	2.53	4.24
Summary	47.13	104.8	73.6	32.2	15.0	24.57	41.09	63.32

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www.ncdc.noaa.gov

Station: CAMDENTON 2 NW, MO US

GHCND:USC00231212
Elev: 1030 ft. Lat: 38.217° N Lon: 92.767° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	72	135	303	556	811	1021	1210	1179	892	605	298	96
45	32	72	199	415	656	871	1055	1024	743	456	191	46
50	12	32	120	288	502	721	900	869	594	316	106	20
55	4	13	64	180	352	572	745	714	451	194	50	7
60	1	4	28	99	216	423	590	559	315	99	18	1
Growing Degree Units for Corn (Monthly)												
50/86	44	85	195	346	520	703	836	795	589	374	178	54

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	72	207	510	1066	1877	2898	4108	5287	6179	6784	7082	7178
45	32	104	303	718	1374	2245	3300	4324	5067	5523	5714	5760
50	12	44	164	452	954	1675	2575	3444	4038	4354	4460	4480
55	4	17	81	261	613	1185	1930	2644	3095	3289	3339	3346
60	1	5	33	132	348	771	1361	1920	2235	2334	2352	2353
Growing Degree Units for Corn (Monthly)												
50/86	44	129	324	670	1190	1893	2729	3524	4113	4487	4665	4719

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

M indicates the value is missing

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National Environmental Satellite, Data, and Information
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**Summary of
Monthly Normals
1981-2010**

Station: **EDINA, MO US**

GHCND:USC00232482
Elev: 808 ft. Lat: 40.164° N Lon: 92.166° W

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	.25	.50	.75
1	1.47	6.3	3.6	0.9	0.3	0.65	1.19	2.15
2	1.83	6.5	4.3	1.2	0.3	0.97	1.58	2.28
3	2.58	7.9	5.5	1.8	0.5	1.36	2.66	3.51
4	3.59	9.8	7.2	2.4	0.7	2.19	3.83	4.86
5	5.78	11.4	8.6	3.4	1.6	2.92	5.82	8.07
6	4.48	9.3	7.4	3.1	1.2	2.69	4.22	6.01
7	5.53	9.1	6.9	3.2	1.8	2.10	4.08	8.48
8	4.20	7.7	6.0	2.9	1.3	2.14	4.16	5.83
9	4.02	6.7	5.4	2.6	0.9	2.11	3.38	5.13
10	3.27	7.7	5.5	2.0	0.8	1.64	2.72	4.14
11	2.78	7.7	5.5	1.9	0.7	1.46	2.44	3.60
12	1.99	7.6	4.3	1.2	0.3	1.02	1.86	2.47
Summary	41.52	97.7	70.2	26.6	10.4	21.25	37.94	56.53

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **EDINA, MO US**

GHCND:USC00232482
Elev: 808 ft. Lat: 40.164° N Lon: 92.166° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.6	3.2	2.0	0.8	0.3	0.0	10.3	5.7	2.4	0.5	1.7	4.3	6.7
2	5.7	2.5	2.0	0.8	0.3	0.0	7.2	4.1	1.8	0.1	2.0	4.0	8.5
3	2.4	1.0	0.9	0.3	0.1	0.0	2.1	0.9	0.2	0.0	0.0	2.0	3.5
4	0.3	0.2	0.1	0.0	0.0	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.6	0.4	0.1	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	1.3
12	6.5	3.2	2.4	0.9	0.2	0.0	8.3	4.1	1.9	0.1	2.0	5.3	11.0
Summary	21.1	10.7	7.8	2.9	0.9	0.0	28.4	14.9	6.3	0.7	5.7	15.6	31.0

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: WEST PLAINS, MO US

GHCND:USC00238880
 Elev: 1010 ft. Lat: 36.742° N Lon: 91.835° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.5	21.8	33.1	4.7	4.2	4.2	2	1	-7777	-7777	0	0	679	741	833	987	0.0	0.0	10.3	4.4	26.5	1.0
2	49.8	25.6	37.7	4.5	3.6	3.7	3	2	1	-7777	0	0	488	542	625	764	0.0	0.0	14.1	2.2	20.8	0.3
3	59.1	32.4	45.8	3.4	2.9	2.8	29	19	9	2	-7777	-7777	316	368	451	599	0.0	0.0	24.2	0.3	16.2	0.0
4	68.9	42.5	55.7	3.6	2.8	3.0	119	89	54	17	2	1	98	128	183	296	0.0	0.1	28.8	0.0	4.4	0.0
5	76.0	52.3	64.1	2.8	3.2	2.8	292	238	165	74	19	8	8	16	36	100	0.0	0.3	31.0	0.0	0.0	0.0
6	84.1	60.9	72.5	2.9	2.0	2.2	525	465	377	235	113	74	-7777	-7777	2	10	-7777	4.7	30.0	0.0	0.0	0.0
7	89.1	65.4	77.2	2.6	2.0	1.9	690	628	535	380	230	174	0	0	-7777	-7777	0.7	14.2	31.0	0.0	0.0	0.0
8	89.1	64.1	76.6	3.7	2.7	3.0	669	607	515	361	217	165	0	-7777	-7777	2	1.2	14.4	31.0	0.0	0.0	0.0
9	80.6	55.8	68.2	3.1	2.6	2.5	402	347	268	150	65	42	6	11	22	54	0.1	3.4	30.0	0.0	0.0	0.0
10	69.8	43.5	56.6	2.9	2.8	2.3	131	98	58	19	3	2	80	108	162	277	0.0	0.1	30.6	0.0	3.9	0.0
11	58.0	34.2	46.1	4.7	3.2	3.6	28	18	8	1	-7777	-7777	295	345	425	568	0.0	0.0	22.2	0.1	12.5	0.0
12	45.8	24.4	35.1	5.0	4.8	4.8	4	2	1	-7777	0	0	620	681	772	927	0.0	0.0	11.5	3.4	24.5	0.5
Summary	67.9	43.6	55.7	3.7	3.1	3.1	2894	2514	1991	1239	649	466	2590	2940	3511	4584	2.0	37.2	294.7	10.4	108.8	1.8

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www.ncdc.noaa.gov

Station: **WEST PLAINS, MO US**

GHCND:USC00238880
Elev: 1010 ft. Lat: 36.742° N Lon: 91.835° W

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	.25	.50	.75
1	3.02	7.1	5.1	1.7	0.8	1.63	2.49	4.32
2	2.99	7.1	4.9	2.2	0.7	1.64	2.62	4.22
3	4.53	9.7	6.8	3.3	1.2	2.92	3.52	4.87
4	4.50	9.3	6.4	3.4	1.4	2.83	3.75	4.96
5	4.84	11.7	7.8	2.9	1.2	3.28	4.06	6.11
6	3.80	8.7	6.4	2.8	1.2	2.50	3.74	4.53
7	3.41	7.7	5.5	2.1	0.9	1.67	3.20	4.93
8	3.46	7.1	4.6	1.8	0.8	1.50	3.57	5.23
9	3.97	7.0	4.9	2.4	1.3	2.06	3.53	5.09
10	4.05	8.3	5.4	2.7	1.4	2.44	3.05	5.01
11	4.90	8.7	6.2	3.1	1.7	2.37	4.37	7.25
12	3.75	9.2	6.4	2.9	1.1	1.97	3.52	4.95
Summary	47.22	101.6	70.4	31.3	13.7	26.81	41.42	61.47

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Station: **WEST PLAINS, MO US**

GHCND:USC00238880
Elev: 1010 ft. Lat: 36.742° N Lon: 91.835° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.5	1.2	0.9	0.4	-7777	0.0	3.4	1.3	0.3	0.0	0.0	1.6	3.8
2	2.9	1.2	0.8	0.4	0.1	-7777	2.1	1.1	0.6	0.0	0.0	2.0	3.9
3	2.8	0.5	0.4	0.3	0.2	0.1	0.3	0.2	0.2	0.1	0.0	0.0	2.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	-7777	-7777	0.0	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
11	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.8	0.9	0.5	0.2	0.1	0.0	1.2	0.4	0.1	0.0	0.0	0.2	3.0
Summary	10.1	3.8	2.6	1.3	0.4	0.1	7.0	3.0	1.2	0.1	0.0	3.8	12.7

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www.ncdc.noaa.gov

Station: **WEST PLAINS, MO US**

GHCND:USC00238880
Elev: 1010 ft. Lat: 36.742° N Lon: 91.835° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	46	84	229	475	749	975	1155	1134	846	518	229	58
45	19	38	133	337	594	825	1000	979	696	370	138	25
50	7	14	68	215	440	675	845	824	547	238	70	11
55	2	3	29	119	292	525	690	669	402	131	28	4
60	-7777	1	9	54	165	377	535	515	268	58	8	1
Growing Degree Units for Corn (Monthly)												
50/86	42	71	169	304	474	656	780	756	551	331	150	43

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	46	130	359	834	1583	2558	3713	4847	5693	6211	6440	6498
45	19	57	190	527	1121	1946	2946	3925	4621	4991	5129	5154
50	7	21	89	304	744	1419	2264	3088	3635	3873	3943	3954
55	2	5	34	153	445	970	1660	2329	2731	2862	2890	2894
60	0	1	10	64	229	606	1141	1656	1924	1982	1990	1991
Growing Degree Units for Corn (Monthly)												
50/86	42	113	282	586	1060	1716	2496	3252	3803	4134	4284	4327

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

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U.S. Department of Commerce
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BOWLING GREEN 2 NE, MO US**

GHCND:USC00230856
 Elev: 887 ft. Lat: 39.345° N Lon: 91.171° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	36.0	18.1	27.1	5.9	5.4	5.4	1	-7777	-7777	0	0	0	867	928	1021	1176	0.0	0.0	4.8	11.7	27.2	2.6
2	41.8	22.0	31.9	5.6	5.8	5.6	2	1	-7777	-7777	0	0	649	704	787	927	0.0	0.0	8.2	6.5	22.3	2.0
3	52.4	30.7	41.6	4.6	3.2	3.7	22	16	9	2	-7777	-7777	439	495	581	729	0.0	0.0	17.2	1.8	17.2	0.1
4	64.8	41.5	53.1	4.5	3.6	3.9	103	79	50	19	5	3	158	194	256	375	0.0	0.1	26.5	0.0	6.0	0.0
5	73.4	51.4	62.4	3.6	3.5	3.3	255	207	144	67	22	13	25	39	70	147	0.0	0.4	31.0	0.0	0.2	0.0
6	81.8	61.0	71.4	3.0	2.8	2.6	493	434	347	215	107	73	1	2	6	23	0.1	2.8	30.0	0.0	0.0	0.0
7	86.6	66.0	76.3	2.6	2.3	2.1	660	598	505	351	208	158	-7777	-7777	-7777	1	0.3	8.8	31.0	0.0	0.0	0.0
8	85.7	64.1	74.9	4.1	3.3	3.4	617	555	463	313	181	136	-7777	-7777	1	6	0.3	8.3	31.0	0.0	0.0	0.0
9	78.0	54.6	66.3	3.4	3.0	2.8	354	301	228	128	58	38	15	22	39	89	0.0	2.1	30.0	0.0	0.3	0.0
10	66.9	42.8	54.8	3.1	3.0	2.6	119	90	55	18	4	2	123	156	214	333	0.0	0.0	29.3	0.0	5.3	0.0
11	53.0	34.0	43.5	4.6	3.3	3.7	24	16	8	2	-7777	-7777	370	421	503	647	0.0	0.0	17.8	1.0	13.0	0.1
12	39.1	22.4	30.8	5.7	5.9	5.7	2	1	-7777	-7777	0	0	754	815	907	1062	0.0	0.0	6.3	8.1	24.6	1.5
Summary	63.3	42.4	52.8	4.2	3.8	3.7	2652	2298	1809	1115	585	423	3401	3776	4385	5515	0.7	22.5	263.1	29.1	116.1	6.3

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1981-2010**

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Federal Building
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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **BOWLING GREEN 2 NE, MO US**

GHCND:USC00230856
Elev: 887 ft. Lat: 39.345° N Lon: 91.171° W

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	.25	.50	.75
1	2.45	4.9	3.2	1.1	0.6	0.96	2.40	3.72
2	2.30	5.6	3.6	1.4	0.6	1.41	2.14	3.24
3	2.84	7.4	5.6	2.1	0.5	2.05	2.86	3.73
4	3.98	8.8	6.2	2.5	1.1	2.35	3.58	5.06
5	4.46	10.5	7.4	3.1	1.0	2.61	4.48	5.70
6	3.93	8.8	6.4	2.7	1.2	2.15	2.90	5.44
7	4.12	7.6	5.7	2.7	1.3	1.92	4.04	5.14
8	3.69	7.1	5.5	2.8	1.1	2.35	3.61	4.87
9	3.82	7.1	5.0	2.1	1.1	1.63	2.75	4.26
10	2.77	7.4	5.3	1.8	0.6	1.70	2.27	3.55
11	3.46	7.7	5.8	2.7	1.1	1.72	3.22	5.03
12	2.53	6.7	4.5	1.6	0.7	1.46	2.36	3.39
Summary	40.35	89.6	64.2	26.6	10.9	22.31	36.61	53.13

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Station: **BOWLING GREEN 2 NE, MO US**

GHCND:USC00230856
 Elev: 887 ft. Lat: 39.345° N Lon: 91.171° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.6	1.6	1.0	0.3	0.1	0.0	@	@	@	@	0.5	1.5	3.1
2	5.6	1.8	1.3	0.5	0.3	-7777	@	@	@	@	0.0	3.1	9.1
3	1.9	0.7	0.6	0.4	0.1	0.0	@	@	@	@	0.0	0.0	3.5
4	0.0	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.6	0.1	0.1	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
12	3.0	1.5	0.8	0.3	0.0	0.0	@	@	@	@	0.0	0.7	4.3
Summary	14.7	5.7	3.8	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.5	5.3	20.0

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Station: **BOWLING GREEN 2 NE, MO US**

GHCND:USC00230856
 Elev: 887 ft. Lat: 39.345° N Lon: 91.171° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	22	47	161	408	695	941	1125	1081	789	466	188	37
45	7	20	91	284	540	792	970	927	640	328	111	17
50	2	7	47	180	390	642	815	772	494	210	57	7
55	1	2	22	103	255	493	660	617	354	119	24	2
60	-7777	-7777	9	50	144	347	505	463	228	55	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	16	33	106	249	429	633	774	732	509	289	107	22

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	22	69	230	638	1333	2274	3399	4480	5269	5735	5923	5960
45	7	27	118	402	942	1734	2704	3631	4271	4599	4710	4727
50	2	9	56	236	626	1268	2083	2855	3349	3559	3616	3623
55	1	3	25	128	383	876	1536	2153	2507	2626	2650	2652
60	0	0	9	59	203	550	1055	1518	1746	1801	1809	1809
Growing Degree Units for Corn (Monthly)												
50/86	16	49	155	404	833	1466	2240	2972	3481	3770	3877	3899

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **POMME DE TERRE DAM, MO US**

GHCND:USC00236777
 Elev: 900 ft. Lat: 37.905° N Lon: 93.317° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.3	21.5	31.9	5.9	5.0	5.2	1	1	-7777	0	0	0	717	779	871	1026	0.0	0.0	8.8	6.1	26.1	1.0
2	47.8	24.1	35.9	5.4	4.5	4.7	4	2	1	-7777	0	0	537	591	674	813	0.0	0.0	12.2	3.7	21.9	0.7
3	57.2	33.3	45.2	4.1	3.4	3.5	34	23	12	2	-7777	-7777	336	387	469	615	0.0	0.0	22.4	0.7	15.0	0.0
4	67.2	43.7	55.5	3.8	3.2	3.3	126	98	63	24	5	2	112	144	199	311	0.0	-7777	27.7	-7777	3.2	0.0
5	75.7	53.9	64.8	3.3	3.4	3.2	316	263	190	92	32	18	12	21	41	99	0.0	0.4	30.9	0.0	0.1	0.0
6	83.9	62.9	73.4	3.4	2.3	2.7	552	493	404	263	141	100	-7777	1	3	11	0.2	5.1	30.0	0.0	0.0	0.0
7	89.0	67.8	78.4	2.9	2.5	2.3	725	663	570	416	267	210	0	0	-7777	1	1.0	13.9	31.0	0.0	0.0	0.0
8	89.0	66.1	77.6	3.7	3.0	3.1	699	637	544	391	246	193	-7777	-7777	-7777	2	1.9	14.2	31.0	0.0	0.0	0.0
9	80.2	57.2	68.7	3.1	2.8	2.8	420	365	287	171	83	57	9	14	26	60	0.2	3.2	30.0	0.0	0.1	0.0
10	69.8	45.7	57.8	3.6	2.9	2.7	162	126	81	31	8	4	77	103	150	255	0.0	0.0	30.0	0.0	2.3	0.0
11	56.9	35.6	46.3	4.9	3.6	3.8	37	25	13	3	-7777	-7777	299	348	426	565	0.0	0.0	21.2	0.6	11.5	0.0
12	45.0	24.4	34.7	5.7	5.3	5.3	3	2	1	-7777	0	0	632	693	785	939	0.0	0.0	11.5	4.6	23.6	0.8
Summary	67.0	44.7	55.9	4.2	3.5	3.6	3079	2698	2166	1393	782	584	2731	3081	3644	4697	3.3	36.8	286.7	15.7	103.8	2.5

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Station: **POMME DE TERRE DAM, MO US**

GHCND:USC00236777
Elev: 900 ft. Lat: 37.905° N Lon: 93.317° W

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	.25	.50	.75
1	1.96	@	@	@	@			
2	2.09	@	@	@	@			
3	3.28	@	@	@	@			
4	4.44	@	@	@	@			
5	5.37	@	@	@	@			
6	5.05	@	@	@	@			
7	4.50	@	@	@	@			
8	3.80	@	@	@	@			
9	4.24	@	@	@	@			
10	3.87	@	@	@	@			
11	3.47	@	@	@	@			
12	2.61	@	@	@	@			
Summary	44.68	0.0	0.0	0.0	0.0			

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Station: **POMME DE TERRE DAM, MO US**

GHCND:USC00236777
 Elev: 900 ft. Lat: 37.905° N Lon: 93.317° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	76	227	469	769	1002	1190	1164	861	553	241	65
45	16	35	136	335	614	852	1035	1009	711	405	150	28
50	5	13	73	218	461	702	880	854	563	273	81	10
55	1	4	34	126	316	552	725	699	420	162	37	3
60	-7777	1	12	63	190	404	570	544	287	81	13	1
Growing Degree Units for Corn (Monthly)												
50/86	35	65	154	288	484	679	814	781	564	344	146	47

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	119	346	815	1584	2586	3776	4940	5801	6354	6595	6660
45	16	51	187	522	1136	1988	3023	4032	4743	5148	5298	5326
50	5	18	91	309	770	1472	2352	3206	3769	4042	4123	4133
55	1	5	39	165	481	1033	1758	2457	2877	3039	3076	3079
60	0	1	13	76	266	670	1240	1784	2071	2152	2165	2166
Growing Degree Units for Corn (Monthly)												
50/86	35	100	254	542	1026	1705	2519	3300	3864	4208	4354	4401

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: LA BELLE, MO US

GHCND:USC00234637
Elev: 770 ft. Lat: 40.123° N Lon: 91.923° W

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	.25	.50	.75
1	1.14	4.5	2.9	0.8	0.2	0.55	1.10	1.72
2	1.79	4.4	3.5	1.2	0.4	1.14	1.60	2.49
3	2.61	6.2	4.9	1.5	0.4	1.36	2.53	3.35
4	3.59	7.7	6.4	2.4	0.7	1.95	4.09	4.90
5	5.01	8.8	7.5	3.4	1.6	2.52	4.27	7.28
6	3.88	6.9	6.0	2.5	1.0	2.29	3.51	5.37
7	4.40	7.1	6.1	3.0	1.5	2.24	3.54	6.21
8	3.47	6.0	5.1	2.2	1.4	1.68	3.09	5.03
9	3.90	6.1	5.1	2.3	1.1	1.67	3.15	4.11
10	2.95	5.7	4.8	1.9	0.9	1.56	2.23	4.38
11	2.55	6.2	5.0	2.1	0.8	1.07	1.86	3.30
12	2.18	5.5	4.0	1.5	0.5	1.10	1.97	3.05
Summary	37.47	75.1	61.3	24.8	10.5	19.13	32.94	51.19

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Station: **LA BELLE, MO US**

GHCND:USC00234637
Elev: 770 ft. Lat: 40.123° N Lon: 91.923° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.6	2.1	1.8	0.6	0.3	-7777	10.1	6.8	3.8	0.3	0.4	4.1	6.5
2	5.1	1.9	1.7	0.9	0.3	0.0	6.9	4.2	2.0	0.1	0.3	4.0	7.0
3	0.9	0.5	0.4	0.1	0.1	0.0	1.3	0.7	0.3	0.0	0.0	0.0	2.0
4	0.2	0.2	0.2	-7777	-7777	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.7	0.4	0.3	0.1	-7777	0.0	0.4	0.1	-7777	0.0	0.0	0.0	1.0
12	4.7	1.7	1.6	0.5	0.3	-7777	5.3	3.1	1.4	0.1	0.0	2.0	7.8
Summary	16.2	6.8	6.0	2.2	1.0	0.0	24.2	14.9	7.5	0.5	0.7	10.1	24.3

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **POPLAR BLUFF, MO US**

GHCND:USC00236791
 Elev: 370 ft. Lat: 36.758° N Lon: 90.406° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.4	25.0	34.2	4.6	4.0	4.1	2	1	-7777	0	0	0	647	708	800	955	0.0	0.0	8.8	4.8	24.2	0.4
2	49.2	28.8	39.0	4.3	4.0	4.0	5	2	1	-7777	0	0	453	506	589	728	0.0	0.0	14.0	2.3	17.8	0.2
3	59.3	37.4	48.3	3.7	3.1	3.2	47	33	18	4	-7777	-7777	253	301	379	520	0.0	0.0	24.3	0.3	9.7	0.0
4	69.9	47.0	58.5	3.6	3.2	3.2	165	129	83	33	7	3	62	85	130	229	0.0	-7777	29.4	0.0	1.1	0.0
5	78.8	56.6	67.7	2.9	3.3	2.8	396	337	254	138	56	34	2	6	16	54	0.0	1.2	31.0	0.0	0.0	0.0
6	87.0	66.1	76.5	2.7	2.1	2.2	646	586	497	349	211	161	-7777	-7777	-7777	3	0.1	10.4	30.0	0.0	0.0	0.0
7	90.4	69.9	80.1	2.6	1.6	1.9	780	718	625	470	316	256	0	0	0	-7777	0.7	17.4	31.0	0.0	0.0	0.0
8	89.4	68.1	78.7	2.8	2.6	2.6	736	674	581	427	275	218	0	0	-7777	1	0.7	14.4	31.0	0.0	0.0	0.0
9	82.3	59.4	70.9	2.6	2.6	2.4	478	420	336	206	101	70	2	5	10	31	0.0	4.4	30.0	0.0	0.0	0.0
10	71.2	47.1	59.1	3.0	3.1	2.5	180	140	90	35	10	5	51	73	116	216	0.0	0.1	30.8	0.0	0.8	0.0
11	58.5	37.9	48.2	4.3	3.0	3.3	38	25	12	2	-7777	-7777	242	289	366	506	0.0	0.0	22.9	-7777	8.3	0.0
12	45.9	28.1	37.0	4.9	4.5	4.4	5	2	1	-7777	0	0	562	622	714	868	0.0	0.0	11.0	2.9	21.0	0.1
Summary	68.8	47.6	58.2	3.5	3.1	3.1	3478	3067	2498	1664	976	747	2274	2595	3120	4111	1.5	47.9	294.2	10.3	82.9	0.7

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 Monthly Normals
 1981-2010**

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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **POPLAR BLUFF, MO US**

GHCND:USC00236791
 Elev: 370 ft. Lat: 36.758° N Lon: 90.406° W

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	.25	.50	.75
1	3.17	7.9	5.0	2.0	0.7	1.51	3.11	4.63
2	3.50	7.2	5.1	2.5	1.0	2.14	3.03	4.01
3	4.31	9.7	6.5	3.2	1.2	2.59	3.56	5.47
4	4.69	10.2	6.9	3.4	1.6	2.80	4.94	5.87
5	4.50	10.9	7.4	3.5	1.5	2.81	4.94	6.03
6	4.32	8.2	5.3	2.4	1.1	1.94	4.15	5.74
7	4.34	8.3	5.6	2.8	1.3	2.35	3.84	5.66
8	2.91	6.7	4.4	1.7	0.8	1.49	2.66	3.93
9	3.06	6.3	4.2	1.8	0.9	1.30	2.43	4.31
10	3.97	8.2	5.6	2.7	1.1	1.97	3.54	4.93
11	4.51	10.1	6.3	3.2	1.6	2.30	4.33	6.47
12	4.69	9.3	6.4	3.2	1.2	2.66	3.97	7.08
Summary	47.97	103.0	68.7	32.4	14.0	25.86	44.50	64.13

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Station: **POPLAR BLUFF, MO US**

GHCND:USC00236791
 Elev: 370 ft. Lat: 36.758° N Lon: 90.406° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	1.0	0.7	0.5	0.3	0.2	0.0	0.5	0.2	0.1	0.0	0.0	0.0	0.5
2	1.7	0.8	0.6	0.2	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.5	3.3
3	1.0	0.3	0.2	0.2	0.1	-7777	0.2	-7777	-7777	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.4	0.5	0.4	0.1	0.1	0.0	0.2	-7777	-7777	0.0	0.0	0.0	1.8
Summary	5.1	2.3	1.7	0.8	0.5	0.0	1.1	0.3	0.1	0.0	0.0	0.5	5.6

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Station: **POPLAR BLUFF, MO US**

GHCND:USC00236791
 Elev: 370 ft. Lat: 36.758° N Lon: 90.406° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	53	98	291	554	859	1096	1244	1201	926	594	272	77
45	23	45	181	410	704	946	1090	1046	775	442	168	35
50	8	17	98	278	549	796	935	891	626	299	89	13
55	2	5	47	165	396	646	780	736	478	180	38	5
60	-7777	1	18	83	254	497	625	581	336	90	12	1
Growing Degree Units for Corn (Monthly)												
50/86	34	63	173	334	554	751	855	824	614	365	155	42

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	53	151	442	996	1855	2951	4195	5396	6322	6916	7188	7265
45	23	68	249	659	1363	2309	3399	4445	5220	5662	5830	5865
50	8	25	123	401	950	1746	2681	3572	4198	4497	4586	4599
55	2	7	54	219	615	1261	2041	2777	3255	3435	3473	3478
60	0	1	19	102	356	853	1478	2059	2395	2485	2497	2498
Growing Degree Units for Corn (Monthly)												
50/86	34	97	270	604	1158	1909	2764	3588	4202	4567	4722	4764

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
 -7777: a non-zero value that would round to zero
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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**

GHCND:USC00232220

Elev: 731 ft. Lat: 38.140° N Lon: 90.506° W

Station: **DE SOTO, MO US**

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	.25	.50	.75
1	2.63	7.0	4.3	1.5	0.6	1.37	2.14	3.57
2	2.19	6.8	4.2	1.5	0.6	1.33	2.04	2.61
3	3.55	10.0	7.0	2.3	0.9	2.30	3.05	4.40
4	4.07	11.1	8.2	3.0	1.0	2.63	3.62	4.67
5	4.70	11.8	7.3	2.8	1.2	3.07	4.31	5.77
6	3.94	9.8	7.2	3.5	1.1	2.56	3.40	4.98
7	3.71	8.1	5.8	2.6	1.1	2.05	3.53	5.69
8	3.43	6.6	5.0	2.3	0.9	2.41	3.01	3.82
9	3.91	7.7	5.7	2.5	1.1	2.18	3.28	4.95
10	3.44	8.7	5.9	2.5	1.1	1.91	2.50	4.78
11	4.00	7.9	5.9	2.3	1.1	2.41	3.39	5.97
12	3.26	8.6	6.1	1.9	0.8	2.13	2.88	4.35
Summary	42.83	104.1	72.6	28.7	11.5	26.35	37.15	55.56

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **DIAMOND 2 W, MO US**

GHCND:USC00232240
Elev: 1070 ft. Lat: 36.986° N Lon: 94.355° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.6	21.7	33.6	5.0	3.2	3.9	3	2	1	-7777	0	0	664	725	817	972	0.0	0.0	12.3	4.9	25.6	1.2
2	50.2	26.3	38.2	4.9	4.1	4.2	8	5	2	1	-7777	0	477	530	611	750	0.0	0.0	14.7	2.4	20.3	0.3
3	59.3	34.6	47.0	3.7	3.3	3.2	42	29	16	4	-7777	-7777	292	341	420	564	0.0	0.1	23.9	0.6	12.8	0.0
4	68.4	43.6	56.0	3.9	3.5	3.5	134	103	66	27	7	3	104	133	186	297	0.0	0.1	28.2	0.0	4.1	0.0
5	76.6	53.7	65.1	2.8	2.8	2.6	323	267	190	92	33	19	8	14	30	87	0.0	0.5	31.0	0.0	0.1	0.0
6	84.6	62.6	73.6	2.9	1.9	2.2	558	498	409	265	137	94	-7777	-7777	1	7	0.0	5.0	30.0	0.0	0.0	0.0
7	89.0	66.8	77.9	2.2	2.2	1.8	710	648	555	400	250	194	0	0	-7777	1	0.2	13.9	31.0	0.0	0.0	0.0
8	90.0	65.6	77.8	3.8	2.9	3.2	707	645	552	398	253	198	0	0	-7777	2	1.0	17.4	31.0	0.0	0.0	0.0
9	81.2	57.4	69.3	3.1	2.7	2.6	436	380	299	179	83	55	7	11	20	50	0.2	4.4	29.9	0.0	0.1	0.0
10	70.7	45.3	58.0	3.1	2.5	2.3	163	126	78	28	7	3	70	95	140	245	0.0	0.1	30.4	0.1	2.4	0.0
11	58.8	35.6	47.2	4.6	3.9	3.9	40	28	14	3	-7777	-7777	274	322	398	537	0.0	0.0	23.5	0.3	12.1	0.0
12	47.7	25.0	36.3	6.3	3.8	4.8	3	2	-7777	-7777	0	0	581	642	733	888	0.0	0.0	13.4	2.7	23.8	0.1
Summary	68.5	44.9	56.7	3.9	3.1	3.2	3127	2733	2182	1397	770	566	2477	2813	3356	4400	1.4	41.5	299.3	11.0	101.3	1.6

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1981-2010**

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **DIAMOND 2 W, MO US**

GHCND:USC00232240
Elev: 1070 ft. Lat: 36.986° N Lon: 94.355° W

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	.25	.50	.75
1	2.16	4.4	3.4	1.2	0.6	0.96	1.90	3.29
2	2.36	4.9	3.9	1.8	0.8	0.87	1.98	2.83
3	3.47	7.2	5.7	2.3	0.9	2.15	3.17	4.22
4	4.55	8.2	6.1	3.1	1.4	3.36	3.85	5.69
5	5.61	9.2	7.2	4.0	2.0	3.12	5.40	7.98
6	6.01	8.8	7.0	4.0	2.1	3.83	5.23	7.15
7	3.52	5.9	4.6	2.3	1.1	1.92	3.55	4.44
8	3.22	5.8	4.8	2.1	0.9	2.00	2.73	4.09
9	4.85	7.0	5.2	3.0	1.5	2.68	3.50	6.47
10	3.81	6.9	5.4	2.7	1.2	1.59	2.95	6.23
11	4.17	6.0	4.6	2.4	1.3	2.17	3.57	4.93
12	2.65	5.4	4.1	1.8	0.8	1.21	2.20	3.66
Summary	46.38	79.7	62.0	30.7	14.6	25.86	40.03	60.98

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Station: **DIAMOND 2 W, MO US**

GHCND:USC00232240
Elev: 1070 ft. Lat: 36.986° N Lon: 94.355° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.1	0.6	0.5	0.2	-7777	0.0	@	@	@	@	0.0	0.1	4.3
2	1.4	0.4	0.4	0.1	-7777	0.0	@	@	@	@	0.0	0.0	2.0
3	0.7	0.3	0.1	0.1	-7777	-7777	@	@	@	@	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	-7777	-7777	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	1.5	0.4	0.2	0.1	-7777	-7777	@	@	@	@	0.0	0.0	0.0
Summary	5.7	1.7	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.3

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Station: **DIAMOND 2 W, MO US**

GHCND:USC00232240
Elev: 1070 ft. Lat: 36.986° N Lon: 94.355° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	59	95	263	484	780	1008	1175	1171	879	560	257	71
45	23	47	161	349	625	858	1020	1016	729	412	158	31
50	8	21	88	230	471	708	865	862	581	276	87	11
55	3	8	42	134	323	558	710	707	436	163	40	3
60	1	2	16	66	190	409	555	552	299	78	14	-7777
Growing Degree Units for Corn (Monthly)												
50/86	51	76	180	307	494	686	803	781	576	354	163	55

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	59	154	417	901	1681	2689	3864	5035	5914	6474	6731	6802
45	23	70	231	580	1205	2063	3083	4099	4828	5240	5398	5429
50	8	29	117	347	818	1526	2391	3253	3834	4110	4197	4208
55	3	11	53	187	510	1068	1778	2485	2921	3084	3124	3127
60	1	3	19	85	275	684	1239	1791	2090	2168	2182	2182
Growing Degree Units for Corn (Monthly)												
50/86	51	127	307	614	1108	1794	2597	3378	3954	4308	4471	4526

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

M indicates the value is missing

-7777: a non-zero value that would round to zero

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

**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NAPOLEON, MO US**

GHCND:USC00235916
Elev: 680 ft. Lat: 39.133° N Lon: 94.064° W

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	.25	.50	.75
1	1.39	@	@	@	@			
2	1.47	@	@	@	@			
3	2.72	@	@	@	@			
4	3.85	@	@	@	@			
5	5.22	@	@	@	@			
6	5.57	@	@	@	@			
7	3.49	@	@	@	@			
8	4.86	@	@	@	@			
9	4.52	@	@	@	@			
10	3.58	@	@	@	@			
11	2.53	@	@	@	@			
12	1.84	@	@	@	@			
Summary	41.04	0.0	0.0	0.0	0.0			

@ Denotes mean number of days greater than 0 but less than 0.05.

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KING CITY, MO US**

GHCND:USC00234505
Elev: 1102 ft. Lat: 40.051° N Lon: 94.525° W

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	.25	.50	.75
1	0.90	3.6	2.7	0.4	-7777	0.50	0.95	1.27
2	1.27	4.8	3.1	0.8	0.1	0.59	1.09	1.74
3	2.41	6.6	5.2	1.8	0.5	1.45	1.96	3.82
4	3.42	8.1	6.4	2.4	0.8	2.00	3.43	4.83
5	5.36	9.4	7.5	3.9	1.6	3.43	4.66	7.13
6	5.63	8.8	7.2	3.8	2.1	3.62	4.99	8.06
7	4.73	7.2	6.0	3.3	1.6	2.67	3.98	5.54
8	4.25	6.5	5.3	2.7	1.4	2.25	3.81	5.90
9	3.95	5.3	4.6	2.7	1.4	2.18	2.87	5.09
10	3.19	5.8	4.8	2.0	1.0	2.10	3.36	4.26
11	2.07	5.8	4.1	1.5	0.7	1.40	1.86	2.86
12	1.48	4.5	3.2	1.1	0.2	0.82	1.22	1.96
Summary	38.66	76.4	60.1	26.4	11.4	23.01	34.18	52.46

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **KING CITY, MO US**

GHCND:USC00234505
 Elev: 1102 ft. Lat: 40.051° N Lon: 94.525° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.6	1.8	1.3	0.6	0.1	0.0	@	@	@	@	0.5	4.1	7.0
2	4.3	2.0	1.6	0.6	-7777	0.0	@	@	@	@	0.3	3.8	8.0
3	3.3	1.3	0.9	0.5	0.2	-7777	@	@	@	@	0.0	1.5	4.5
4	0.3	0.1	0.1	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	-7777	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	1.1	0.6	0.3	0.2	0.0	0.0	@	@	@	@	0.0	0.0	0.8
12	5.8	2.2	1.7	0.7	0.2	0.0	@	@	@	@	0.9	5.0	8.5
Summary	19.4	8.0	5.9	2.6	0.5	0.0	0.0	0.0	0.0	0.0	1.7	14.4	28.8

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www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **FLEMINGTON, MO US**

GHCND:USC00232941

Elev: 1020 ft. Lat: 37.792° N Lon: 93.448° W

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	.25	.50	.75
1	2.00	@	@	@	@			
2	2.27	@	@	@	@			
3	3.48	@	@	@	@			
4	4.40	@	@	@	@			
5	5.96	@	@	@	@			
6	4.81	@	@	@	@			
7	4.07	@	@	@	@			
8	4.16	@	@	@	@			
9	4.27	@	@	@	@			
10	4.46	@	@	@	@			
11	3.84	@	@	@	@			
12	2.73	@	@	@	@			
Summary	46.45	0.0	0.0	0.0	0.0			

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ANDERSON, MO US**

GHCND:USC00230164
Elev: 1050 ft. Lat: 36.652° N Lon: 94.439° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	45.9	23.8	34.9	4.9	3.9	4.1	4	2	1	-7777	0	0	628	689	780	935	0.0	0.0	12.2	3.7	24.3	0.7
2	51.1	27.5	39.3	4.9	3.7	4.0	8	4	2	-7777	-7777	-7777	447	500	581	720	0.0	0.0	15.4	2.1	19.5	0.3
3	60.6	35.6	48.1	3.8	3.3	3.2	49	35	20	5	1	-7777	263	311	389	529	0.0	0.0	24.8	0.4	12.6	-7777
4	70.1	44.5	57.3	3.5	3.7	3.3	150	117	76	30	8	4	81	108	157	261	0.0	0.2	29.0	0.0	3.5	0.0
5	76.1	53.7	64.9	2.5	3.0	2.5	314	259	184	85	26	14	7	14	32	88	0.0	-7777	31.0	0.0	0.2	0.0
6	83.0	62.1	72.5	2.7	2.5	2.3	527	467	378	236	112	72	-7777	-7777	1	10	0.0	2.4	30.0	0.0	0.0	0.0
7	88.0	66.4	77.2	2.4	2.0	1.8	688	626	533	378	228	172	0	0	0	-7777	0.3	11.2	31.0	0.0	0.0	0.0
8	88.2	65.1	76.7	3.7	2.7	3.0	671	609	516	363	219	167	0	0	-7777	2	0.4	12.8	31.0	0.0	0.0	0.0
9	80.0	56.8	68.4	3.2	2.7	2.6	409	353	274	158	72	47	7	11	22	56	0.1	2.6	30.0	0.0	0.1	0.0
10	70.1	45.5	57.8	2.9	3.0	2.3	157	121	75	26	6	3	70	96	143	249	0.0	0.1	30.4	0.0	3.1	0.0
11	59.3	35.7	47.5	4.2	3.3	3.3	42	29	15	3	-7777	-7777	267	314	390	528	0.0	0.0	23.3	0.2	12.2	0.0
12	47.7	25.8	36.7	5.1	4.7	4.8	6	3	1	-7777	0	0	571	631	722	876	0.0	0.0	13.6	2.9	22.5	0.6
Summary	68.3	45.2	56.8	3.7	3.2	3.1	3025	2625	2075	1284	672	479	2341	2674	3217	4254	0.8	29.3	301.7	9.3	98.0	1.6

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ANDERSON, MO US**

GHCND:USC00230164
Elev: 1050 ft. Lat: 36.652° N Lon: 94.439° W

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	.25	.50	.75
1	2.04	5.0	3.5	1.4	0.5	0.61	1.90	2.94
2	2.16	6.2	4.2	1.4	0.4	1.16	1.76	2.64
3	3.44	7.5	5.7	2.6	0.9	2.12	3.20	4.59
4	4.13	7.7	6.2	2.9	1.3	2.54	3.32	5.14
5	5.54	9.4	8.0	3.9	1.6	4.17	5.05	7.03
6	4.81	8.0	6.8	3.0	1.6	3.26	4.50	5.50
7	3.33	5.7	4.6	2.1	0.9	1.40	3.26	4.71
8	3.17	5.8	4.7	2.1	1.1	1.73	3.58	4.48
9	4.58	5.9	5.2	2.7	1.3	2.73	3.75	6.48
10	3.59	7.0	5.6	2.6	1.1	1.67	2.91	5.33
11	4.01	6.4	5.4	2.9	1.3	2.01	3.68	5.43
12	2.87	6.4	4.6	2.3	0.7	1.51	2.53	3.72
Summary	43.67	81.0	64.5	29.9	12.7	24.91	39.44	57.99

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **ANDERSON, MO US**GHCND:USC00230164
Elev: 1050 ft. Lat: 36.652° N Lon: 94.439° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.8	1.8	1.1	0.4	-7777	0.0	4.2	2.2	0.3	0.0	0.7	1.8	5.0
2	2.4	1.5	0.9	0.4	0.1	0.0	2.9	1.1	0.4	0.0	0.0	1.0	4.0
3	2.0	0.7	0.5	0.1	0.1	0.1	1.0	0.5	0.3	0.2	0.0	0.0	1.5
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.3	0.2	0.0	0.0	0.0	0.3	-7777	0.0	0.0	0.0	0.0	0.2
12	3.0	1.7	1.1	0.5	0.1	0.0	3.8	2.1	0.5	-7777	0.0	2.2	5.2
Summary	10.6	6.0	3.8	1.4	0.3	0.1	12.2	5.9	1.5	0.2	0.7	5.0	15.9

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ANDERSON, MO US**

GHCND:USC00230164
 Elev: 1050 ft. Lat: 36.652° N Lon: 94.439° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	67	107	288	521	772	976	1153	1136	852	554	264	82
45	31	54	180	380	617	826	998	981	702	405	165	40
50	12	23	101	254	463	676	843	826	553	268	91	17
55	4	8	49	150	314	527	688	671	409	157	42	6
60	1	2	20	76	184	378	533	516	274	75	15	1
Growing Degree Units for Corn (Monthly)												
50/86	52	83	197	336	493	666	792	766	559	349	170	59

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	67	174	462	983	1755	2731	3884	5020	5872	6426	6690	6772
45	31	85	265	645	1262	2088	3086	4067	4769	5174	5339	5379
50	12	35	136	390	853	1529	2372	3198	3751	4019	4110	4127
55	4	12	61	211	525	1052	1740	2411	2820	2977	3019	3025
60	1	3	23	99	283	661	1194	1710	1984	2059	2074	2075
Growing Degree Units for Corn (Monthly)												
50/86	52	135	332	668	1161	1827	2619	3385	3944	4293	4463	4522

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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National Climatic Data Center
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www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**

GHCND:USC00236493

Elev: 620 ft. Lat: 39.768° N Lon: 91.514° W

Station: PALMYRA, MO US

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	.25	.50	.75
1	1.75	6.1	3.5	0.9	0.4	0.67	1.41	2.44
2	1.91	5.9	3.7	1.2	0.4	0.96	1.69	2.47
3	2.56	8.1	5.7	1.5	0.5	1.44	2.32	3.43
4	3.56	9.7	6.9	2.6	0.9	2.30	3.41	4.93
5	4.85	11.0	7.7	3.1	1.5	3.23	4.57	6.35
6	3.71	8.9	6.2	2.4	0.9	1.91	3.69	5.16
7	4.39	8.6	6.2	2.8	1.4	1.88	3.26	6.77
8	3.95	8.0	5.6	2.7	1.1	2.00	3.18	5.28
9	3.43	7.3	5.4	2.3	0.9	2.05	2.58	4.09
10	2.91	8.3	5.6	2.2	0.8	1.44	2.44	3.78
11	3.10	7.9	5.7	2.3	0.8	1.71	2.62	3.88
12	2.24	7.7	4.6	1.6	0.6	1.07	2.12	2.95
Summary	38.36	97.5	66.8	25.6	10.2	20.66	33.29	51.53

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 National Oceanic & Atmospheric Administration
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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **PALMYRA, MO US**

GHCND:USC00236493
 Elev: 620 ft. Lat: 39.768° N Lon: 91.514° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.9	2.2	1.4	0.5	0.2	-7777	9.1	5.3	2.6	0.5	0.4	2.0	5.0
2	3.9	2.2	1.6	0.6	0.1	0.0	7.3	4.5	2.1	0.0	0.6	2.5	7.4
3	1.5	0.8	0.5	0.2	-7777	0.0	1.0	0.4	-7777	0.0	0.0	0.0	2.8
4	0.4	0.1	0.1	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.6	0.4	0.2	-7777	-7777	0.0	0.3	0.1	-7777	0.0	0.0	0.0	0.5
12	3.6	3.1	2.3	1.1	0.6	0.0	4.1	1.7	0.8	0.0	0.5	2.5	6.3
Summary	13.9	8.8	6.1	2.5	0.9	0.0	21.8	12.0	5.5	0.5	1.5	7.0	22.0

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **NEELYVILLE 7 E, MO US**

GHCND:USC00235950
 Elev: 299 ft. Lat: 36.554° N Lon: 90.394° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.8	23.5	33.7				1	0	0	0	0	0	662	723	816	971	0.0	0.0	6.8	4.8	26.6	0.8
2	49.1	28.4	38.8				1	1	-7777	0	0	0	456	511	595	735	0.0	0.0	11.9	0.0	21.4	0.0
3	58.7	36.7	47.7				18	9	2	-7777	0	0	244	297	383	536	0.0	0.0	23.9	0.0	6.5	0.0
4	69.4	47.9	58.7				132	91	46	12	2	-7777	23	42	87	202	0.0	0.0	30.0	0.0	0.0	0.0
5	78.2	56.6	67.4				387	326	237	105	27	10	2	4	7	30	0.0	0.0	31.0	0.0	0.0	0.0
6	85.8	66.4	76.1				632	573	482	333	189	136	0	0	0	1	0.0	6.5	30.0	0.0	0.0	0.0
7	88.8	69.8	79.3				753	691	598	443	288	226	0	0	0	0	0.3	11.7	31.0	0.0	0.0	0.0
8	88.2	67.1	77.6				702	640	546	391	242	187	0	0	0	-7777	0.7	11.3	31.0	0.0	0.0	0.0
9	81.7	58.4	70.1				451	392	304	164	66	42	-7777	1	3	13	0.0	2.3	30.0	0.0	0.0	0.0
10	71.2	47.1	59.2				172	135	91	36	9	4	43	69	117	217	0.0	0.3	31.0	0.0	0.3	0.0
11	58.7	37.4	48.1				24	13	4	-7777	-7777	-7777	233	282	363	509	0.0	0.0	25.5	0.0	7.6	0.0
12	45.8	27.8	36.8				-7777	-7777	-7777	0	0	0	564	625	718	873	0.0	0.0	9.0	2.0	22.7	0.0
Summary	68.3	47.3	57.8				3273	2871	2310	1484	823	605	2227	2554	3089	4087	1.0	32.1	291.1	6.8	85.1	0.8

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **NEELYVILLE 7 E, MO US**

GHCND:USC00235950
Elev: 299 ft. Lat: 36.554° N Lon: 90.394° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	36	57	272	559	850	1082	1217	1166	901	594	259	47
45	15	23	158	409	695	932	1063	1011	751	440	149	14
50	4	5	62	261	540	782	908	856	601	293	71	2
55	1	1	18	132	387	632	753	702	451	172	24	-7777
60	0	-7777	2	46	237	482	598	546	304	91	4	-7777
Growing Degree Units for Corn (Monthly)												
50/86	26	35	157	313	543	757	853	798	591	357	146	31

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	36	93	365	924	1774	2856	4073	5239	6140	6734	6993	7040
45	15	38	196	605	1300	2232	3295	4306	5057	5497	5646	5660
50	4	9	71	332	872	1654	2562	3418	4019	4312	4383	4385
55	1	2	20	152	539	1171	1924	2626	3077	3249	3273	3273
60	0	0	2	48	285	767	1365	1911	2215	2306	2310	2310
Growing Degree Units for Corn (Monthly)												
50/86	26	61	218	531	1074	1831	2684	3482	4073	4430	4576	4607

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

M indicates the value is missing

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KEARNEY 3 E, MO US**

GHCND:USC00234382
Elev: 840 ft. Lat: 39.367° N Lon: 94.329° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.5	16.3	27.4				-7777	-7777	0	0	0	0	856	918	1010	1166	0.0	0.0	6.2	8.7	28.5	3.0
2	43.4	20.7	32.1				1	-7777	-7777	-7777	0	0	644	699	782	922	0.0	0.0	9.0	5.3	23.5	1.3
3	54.8	30.3	42.6				22	15	8	2	-7777	-7777	408	463	549	698	0.0	0.0	19.5	1.1	18.4	0.1
4	65.5	40.9	53.2				91	68	41	12	1	-7777	145	182	245	366	0.0	0.1	27.3	0.0	5.2	0.0
5	74.7	52.0	63.4				276	226	159	77	29	17	17	29	56	128	0.0	0.7	31.0	0.0	0.4	0.0
6	83.4	61.7	72.6				527	467	379	240	119	80	-7777	1	2	13	0.0	3.7	30.0	0.0	0.0	0.0
7	88.2	66.4	77.3				691	629	536	382	234	180	0	0	0	1	0.8	12.2	31.0	0.0	0.0	0.0
8	87.3	64.2	75.8				643	581	488	335	196	147	0	-7777	-7777	2	1.2	11.1	31.0	0.0	0.0	0.0
9	79.5	53.8	66.7				358	305	229	123	51	31	9	15	30	73	0.0	2.7	30.0	0.0	0.1	0.0
10	67.6	42.2	54.9				115	88	54	20	6	4	118	153	212	333	0.0	0.3	29.3	0.0	4.6	0.0
11	54.1	31.5	42.8				19	12	5	1	-7777	0	385	438	521	667	0.0	0.0	18.2	0.8	16.5	0.0
12	40.7	20.1	30.4				1	1	-7777	0	0	0	763	825	917	1072	0.0	0.0	7.4	7.6	27.3	1.7
Summary	64.8	41.7	53.3				2744	2392	1899	1192	636	459	3345	3723	4324	5441	2.0	30.8	269.9	23.5	124.5	6.1

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KEARNEY 3 E, MO US**

GHCND:USC00234382
Elev: 840 ft. Lat: 39.367° N Lon: 94.329° W

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	.25	.50	.75
1	1.23	6.3	2.6	0.7	0.2	0.55	1.13	1.96
2	1.59	6.9	3.4	0.8	0.3	1.00	1.46	2.05
3	2.57	8.0	4.7	1.6	0.4	1.39	2.70	3.53
4	3.64	9.0	6.1	2.5	1.2	2.38	3.24	4.54
5	5.70	11.8	8.0	4.0	1.3	2.91	5.94	7.22
6	5.48	10.3	7.7	4.1	2.1	4.22	5.31	6.96
7	4.80	7.9	5.7	2.8	1.7	2.38	4.27	6.37
8	3.73	8.0	5.6	2.5	1.3	2.26	3.50	5.29
9	5.19	7.8	6.0	2.5	1.4	2.22	3.88	8.10
10	3.17	8.3	5.9	2.1	0.9	1.63	3.31	3.76
11	2.32	5.6	3.3	1.3	0.7	1.48	2.15	2.94
12	1.73	7.0	3.5	0.8	0.3	0.78	1.67	2.44
Summary	41.15	96.9	62.5	25.7	11.8	23.20	38.56	55.16

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Monthly Normals
1981-2010**

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KEARNEY 3 E, MO US**

GHCND:USC00234382
Elev: 840 ft. Lat: 39.367° N Lon: 94.329° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.4	4.2	2.0	0.5	0.2	0.0	7.9	3.6	1.1	0.1	1.7	4.2	6.9
2	5.1	3.4	1.6	0.6	0.1	0.0	5.1	1.8	0.5	0.0	2.2	3.0	7.9
3	2.1	1.6	0.9	0.2	0.0	0.0	1.9	0.8	0.1	0.0	0.5	1.5	3.7
4	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.4	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
11	0.8	0.5	0.2	0.1	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.5
12	6.0	3.9	2.1	0.7	0.2	0.0	6.4	3.2	0.8	0.0	0.1	5.6	11.9
Summary	19.9	13.8	7.0	2.2	0.7	0.0	21.8	9.5	2.6	0.1	4.5	14.3	30.9

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KEARNEY 3 E, MO US**

GHCND:USC00234382
Elev: 840 ft. Lat: 39.367° N Lon: 94.329° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	19	43	173	406	724	976	1156	1108	799	465	168	30
45	7	18	97	278	569	826	1001	953	650	326	95	13
50	2	6	49	169	416	676	846	798	501	206	47	4
55	-7777	1	22	91	276	527	691	643	358	115	19	1
60	0	-7777	8	41	159	379	536	488	229	54	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	20	38	127	254	448	658	788	742	514	295	111	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	19	62	235	641	1365	2341	3497	4605	5404	5869	6037	6067
45	7	25	122	400	969	1795	2796	3749	4399	4725	4820	4833
50	2	8	57	226	642	1318	2164	2962	3463	3669	3716	3720
55	0	1	23	114	390	917	1608	2251	2609	2724	2743	2744
60	0	0	8	49	208	587	1123	1611	1840	1894	1899	1899
Growing Degree Units for Corn (Monthly)												
50/86	20	58	185	439	887	1545	2333	3075	3589	3884	3995	4019

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

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National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: CHARLESTON, MO US

GHCND:USC00231540
 Elev: 330 ft. Lat: 36.927° N Lon: 89.354° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.4	25.8	34.1	4.8	5.0	4.8	1	1	-7777	0	0	0	649	710	803	958	0.0	0.0	8.6	5.9	21.9	0.8
2	49.0	28.7	38.9	4.3	5.1	4.6	4	2	-7777	-7777	0	0	456	510	592	732	0.0	0.0	14.2	2.2	17.1	0.1
3	58.3	37.2	47.7	4.3	4.0	3.9	46	33	19	6	2	1	270	320	399	541	0.0	0.0	23.9	0.2	10.0	0.0
4	69.0	46.3	57.7	3.7	3.0	3.2	155	121	80	35	11	5	75	102	150	256	0.0	0.1	29.5	0.0	1.5	0.0
5	78.5	56.0	67.2	3.4	4.1	3.5	384	326	245	133	55	34	4	8	20	63	0.0	1.5	31.0	0.0	0.0	0.0
6	86.7	64.7	75.7	2.8	2.4	2.3	621	561	471	323	188	142	0	-7777	-7777	2	0.1	10.6	30.0	0.0	0.0	0.0
7	90.0	68.9	79.5	2.1	2.1	1.8	758	696	603	448	295	236	0	0	0	-7777	0.4	16.8	31.0	0.0	0.0	0.0
8	89.5	67.2	78.3	3.2	2.5	2.6	724	662	569	415	263	205	-7777	-7777	-7777	1	0.9	14.4	31.0	0.0	0.0	0.0
9	82.5	57.8	70.2	2.5	3.3	2.4	456	399	316	191	95	65	2	4	12	37	0.1	5.1	30.0	0.0	0.0	0.0
10	71.4	45.9	58.6	2.8	4.3	3.0	172	133	85	32	8	4	59	82	127	229	0.0	0.1	30.7	0.0	2.0	0.0
11	59.6	38.5	49.0	4.3	4.2	3.6	45	30	15	4	-7777	-7777	224	269	344	482	0.0	0.0	23.9	0.0	7.5	0.0
12	46.2	28.5	37.4	5.3	4.3	4.7	6	4	1	-7777	0	0	553	613	703	857	0.0	0.0	11.1	4.1	19.3	0.2
Summary	68.6	47.1	57.9	3.6	3.7	3.4	3372	2968	2404	1587	917	692	2292	2618	3150	4158	1.5	48.6	294.9	12.4	79.3	1.1

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **CHARLESTON, MO US**

GHCND:USC00231540

Elev: 330 ft. Lat: 36.927° N Lon: 89.354° W

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	.25	.50	.75
1	3.16	6.8	5.2	2.1	0.7	1.57	2.75	4.43
2	3.65	7.3	5.5	2.9	1.6	2.31	3.41	4.69
3	3.96	8.8	7.1	2.6	1.0	2.80	3.77	4.51
4	4.19	9.4	7.1	3.1	1.4	2.64	4.31	5.16
5	4.85	11.3	7.9	3.6	1.4	2.91	4.62	5.80
6	4.37	10.0	7.0	2.8	1.1	3.24	4.03	5.40
7	4.44	7.9	5.8	3.1	1.1	3.09	4.01	6.10
8	2.24	5.9	3.9	1.5	0.8	1.09	2.09	3.22
9	3.16	6.1	4.0	2.2	0.9	1.48	2.81	4.15
10	3.92	7.5	5.3	2.6	1.0	2.24	3.38	4.81
11	3.81	7.9	6.0	3.2	1.4	2.04	3.37	5.28
12	4.11	9.8	7.0	3.2	1.1	2.66	3.55	4.57
Summary	45.86	98.7	71.8	32.9	13.5	28.07	42.10	58.12

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 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: CHARLESTON, MO US

GHCND:USC00231540
 Elev: 330 ft. Lat: 36.927° N Lon: 89.354° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	56	92	277	531	845	1071	1222	1188	904	580	297	91
45	21	42	169	389	690	921	1068	1033	754	429	189	43
50	6	15	92	261	535	771	913	879	605	289	103	17
55	1	4	46	155	384	621	758	724	456	172	45	6
60	-7777	-7777	19	80	245	471	603	569	316	85	15	1
Growing Degree Units for Corn (Monthly)												
50/86	28	57	160	321	545	727	837	811	597	366	170	45

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	56	148	425	956	1801	2872	4094	5282	6186	6766	7063	7154
45	21	63	232	621	1311	2232	3300	4333	5087	5516	5705	5748
50	6	21	113	374	909	1680	2593	3472	4077	4366	4469	4486
55	1	5	51	206	590	1211	1969	2693	3149	3321	3366	3372
60	0	0	19	99	344	815	1418	1987	2303	2388	2403	2404
Growing Degree Units for Corn (Monthly)												
50/86	28	85	245	566	1111	1838	2675	3486	4083	4449	4619	4664

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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U.S. Department of Commerce
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **KIRKSVILLE, MO US**

GHCND:USC00234544
 Elev: 970 ft. Lat: 40.206° N Lon: 92.575° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	33.4	14.7	24.0	5.7	5.9	5.6	-7777	0	0	0	0	0	959	1021	1114	1269	0.0	0.0	3.3	14.2	29.3	4.5
2	38.5	18.5	28.5	5.9	6.0	5.8	1	-7777	-7777	-7777	0	0	743	798	882	1022	0.0	0.0	5.4	9.3	24.7	2.6
3	50.4	28.7	39.5	4.7	3.8	4.0	16	11	5	1	-7777	0	495	552	639	790	0.0	0.0	15.3	2.4	19.7	0.1
4	62.2	39.4	50.8	4.1	3.1	3.5	70	51	30	9	1	-7777	196	237	306	435	0.0	0.0	25.4	0.1	7.0	0.0
5	71.9	50.6	61.3	3.3	3.3	3.1	226	180	121	49	14	7	32	49	82	166	0.0	0.1	30.9	0.0	0.4	0.0
6	80.9	60.5	70.7	2.5	2.5	2.4	472	412	326	192	86	55	1	2	5	21	0.1	1.5	30.0	0.0	0.0	0.0
7	85.5	65.1	75.3	2.7	2.0	2.2	629	567	474	321	178	130	0	-7777	-7777	1	0.2	7.3	31.0	0.0	0.0	0.0
8	84.1	62.9	73.5	3.8	3.1	3.3	573	512	420	272	145	105	-7777	-7777	1	9	0.4	6.3	31.0	0.0	0.0	0.0
9	76.4	53.4	64.9	3.3	2.8	2.9	315	264	195	101	40	25	18	27	48	104	0.0	1.2	30.0	0.0	0.3	0.0
10	64.2	42.2	53.2	3.1	2.6	2.6	94	69	40	13	3	2	149	187	251	379	0.0	0.1	28.0	0.0	4.6	0.0
11	50.1	30.2	40.1	5.3	4.6	4.8	12	7	3	-7777	-7777	0	458	513	598	746	0.0	0.0	15.1	2.1	17.1	0.1
12	36.6	18.7	27.6	6.0	6.2	5.9	1	-7777	-7777	0	0	0	848	910	1003	1158	0.0	0.0	4.4	10.8	27.9	2.7
Summary	61.2	40.4	50.8	4.2	3.8	3.8	2409	2073	1614	958	467	324	3899	4296	4929	6100	0.7	16.5	249.8	38.9	131.0	10.0

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Station: **KIRKSVILLE, MO US**

GHCND:USC00234544
Elev: 970 ft. Lat: 40.206° N Lon: 92.575° W

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	.25	.50	.75
1	1.29	3.8	2.3	0.5	0.1	0.76	1.18	1.84
2	1.65	5.3	3.2	1.1	0.3	0.77	1.30	1.92
3	2.52	7.5	5.1	1.9	0.6	1.44	2.01	3.62
4	3.68	10.1	7.1	2.7	0.8	2.30	4.21	4.79
5	5.38	10.9	8.4	3.6	1.7	3.44	5.66	6.73
6	5.30	10.0	7.4	3.6	1.9	3.21	4.92	6.78
7	5.17	8.7	6.3	3.2	1.6	2.00	3.61	7.91
8	4.05	8.6	6.6	2.8	1.2	2.58	3.62	4.93
9	4.06	8.0	5.8	2.9	1.0	2.20	3.02	4.80
10	3.32	8.7	5.7	2.2	0.8	1.67	2.82	4.91
11	2.63	7.2	4.7	2.1	0.6	1.43	2.28	3.97
12	1.62	6.3	3.4	1.1	0.3	0.89	1.65	1.98
Summary	40.67	95.1	66.0	27.7	10.9	22.69	36.28	54.18

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Station: **KIRKSVILLE, MO US**

GHCND:USC00234544
Elev: 970 ft. Lat: 40.206° N Lon: 92.575° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.1	2.2	1.4	0.6	0.2	0.0	@	@	@	@	0.0	3.5	6.9
2	4.1	2.2	1.7	0.6	0.2	0.0	@	@	@	@	0.0	1.0	6.5
3	2.0	0.8	0.6	0.3	0.1	0.0	@	@	@	@	0.0	0.8	3.3
4	0.3	0.1	0.1	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.8	0.4	0.3	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	4.4	2.5	1.9	0.6	0.1	0.0	@	@	@	@	0.5	3.1	7.9
Summary	15.7	8.2	6.0	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.5	8.4	24.6

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Station: **KIRKSVILLE, MO US**

GHCND:USC00234544
Elev: 970 ft. Lat: 40.206° N Lon: 92.575° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	29	132	344	659	921	1094	1038	747	419	133	20
45	3	12	74	228	505	771	939	883	598	286	73	8
50	-7777	4	38	135	358	621	784	728	452	175	33	3
55	-7777	1	16	70	226	472	629	573	315	94	12	1
60	0	-7777	5	30	121	326	474	420	195	40	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	8	22	90	209	396	614	750	699	473	247	79	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	39	171	515	1174	2095	3189	4227	4974	5393	5526	5546
45	3	15	89	317	822	1593	2532	3415	4013	4299	4372	4380
50	0	4	42	177	535	1156	1940	2668	3120	3295	3328	3331
55	0	1	17	87	313	785	1414	1987	2302	2396	2408	2409
60	0	0	5	35	156	482	956	1376	1571	1611	1614	1614
Growing Degree Units for Corn (Monthly)												
50/86	8	30	120	329	725	1339	2089	2788	3261	3508	3587	3600

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

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 www.ncdc.noaa.gov

Station: **MONROE CITY, MO US**

GHCND:USC00235708
 Elev: 741 ft. Lat: 39.635° N Lon: 91.723° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	38.0	18.5	28.3				-7777	-7777	-7777	0	0	0	829	890	983	1139	0.0	0.0	4.3	8.3	28.0	2.5
2	43.5	22.3	32.9				2	1	1	-7777	0	0	620	675	759	898	0.0	0.0	8.4	5.2	21.4	1.0
3	54.1	31.8	42.9				20	14	7	1	-7777	0	394	449	535	685	0.0	0.0	18.0	1.2	16.2	0.0
4	67.2	42.7	55.0				117	88	55	22	6	3	119	150	207	323	0.0	0.1	27.8	0.0	3.6	0.0
5	76.3	52.9	64.6				307	253	178	78	21	10	10	17	36	90	0.0	0.4	31.0	0.0	0.0	0.0
6	85.3	61.9	73.6				558	498	409	265	140	98	-7777	-7777	1	8	0.1	7.2	30.0	0.0	0.0	0.0
7	88.7	66.1	77.4				694	632	539	384	233	177	0	0	0	-7777	0.1	12.8	31.0	0.0	0.0	0.0
8	87.9	64.4	76.2				655	593	500	347	203	154	-7777	-7777	-7777	1	1.3	11.9	31.0	0.0	0.0	0.0
9	80.4	55.7	68.1				402	348	270	157	72	49	11	16	29	66	0.0	3.6	30.0	0.0	0.2	0.0
10	68.5	44.1	56.3				125	94	57	18	4	2	85	116	171	288	0.0	0.0	30.8	0.0	3.4	0.0
11	54.1	33.8	43.9				17	11	5	1	-7777	0	348	403	487	632	0.0	0.0	19.4	0.4	13.2	0.0
12	40.3	22.5	31.4				2	1	-7777	-7777	0	0	733	794	886	1041	0.0	0.0	5.4	6.3	24.7	1.6
Summary	65.4	43.1	54.2				2899	2533	2021	1273	679	493	3149	3510	4094	5171	1.5	36.0	267.1	21.4	110.7	5.1

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Service**Summary of
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1981-2010**

GHCND:USC00235708

Elev: 741 ft. Lat: 39.635° N Lon: 91.723° W

Station: **MONROE CITY, MO US**

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	.25	.50	.75
1	1.63	@	@	@	@			
2	2.25	@	@	@	@			
3	2.69	@	@	@	@			
4	3.80	@	@	@	@			
5	4.75	@	@	@	@			
6	4.29	@	@	@	@			
7	4.58	@	@	@	@			
8	4.20	@	@	@	@			
9	3.82	@	@	@	@			
10	3.07	@	@	@	@			
11	3.56	@	@	@	@			
12	2.58	@	@	@	@			
Summary	41.22	0.0	0.0	0.0	0.0			

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Station: **MONROE CITY, MO US**

GHCND:USC00235708
Elev: 741 ft. Lat: 39.635° N Lon: 91.723° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	21	52	180	457	763	1007	1159	1120	841	507	185	35
45	6	20	102	324	608	857	1004	965	692	359	106	14
50	1	7	50	210	454	708	849	810	544	227	49	5
55	-7777	2	20	117	307	558	694	655	402	125	17	2
60	-7777	1	7	55	178	409	539	500	270	57	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	14	34	118	280	477	677	793	752	548	312	107	19

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	21	73	253	710	1473	2480	3639	4759	5600	6107	6292	6327
45	6	26	128	452	1060	1917	2921	3886	4578	4937	5043	5057
50	1	8	58	268	722	1430	2279	3089	3633	3860	3909	3914
55	0	2	22	139	446	1004	1698	2353	2755	2880	2897	2899
60	0	1	8	63	241	650	1189	1689	1959	2016	2021	2021
Growing Degree Units for Corn (Monthly)												
50/86	14	48	166	446	923	1600	2393	3145	3693	4005	4112	4131

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

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www.ncdc.noaa.gov

Station: **KENNETT RADIO KBOA, MO US**

GHCND:USC00234417
Elev: 270 ft. Lat: 36.225° N Lon: 90.075° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	44.9	25.8	35.3	4.9	4.8	4.6	4	2	1	-7777	-7777	0	613	673	765	919	0.0	0.0	10.5	4.1	23.0	0.5
2	50.2	29.5	39.9	4.9	4.1	4.4	8	5	2	-7777	0	0	432	485	566	704	0.0	0.0	14.4	2.0	17.7	0.2
3	60.4	37.9	49.2	3.6	3.0	3.1	56	40	22	6	1	-7777	238	283	358	497	0.0	0.0	25.3	0.3	9.6	0.0
4	71.3	47.9	59.6	3.8	3.4	3.4	194	155	105	46	13	7	56	77	117	208	0.0	0.3	29.4	0.0	1.0	0.0
5	80.1	57.8	69.0	2.8	3.2	2.8	434	374	289	166	75	49	2	4	12	44	0.0	2.6	31.0	0.0	0.0	0.0
6	88.8	66.5	77.7	2.6	2.2	2.1	679	619	530	381	240	188	-7777	-7777	-7777	2	0.3	14.0	30.0	0.0	0.0	0.0
7	91.6	69.8	80.7	2.8	1.7	2.1	797	735	642	487	333	273	0	0	0	-7777	1.7	19.8	31.0	0.0	0.0	0.0
8	91.5	67.7	79.6	3.9	2.6	3.1	762	700	607	453	301	243	0	0	-7777	1	2.5	18.5	31.0	0.0	0.0	0.0
9	84.5	59.1	71.8	3.1	2.8	2.6	506	448	363	231	122	88	2	4	9	28	0.3	7.5	30.0	0.0	0.0	0.0
10	73.6	47.1	60.4	2.8	3.2	2.5	211	168	114	51	16	9	45	64	103	195	0.0	0.5	30.9	0.0	1.6	0.0
11	59.9	38.3	49.1	4.4	3.1	3.4	52	36	20	5	1	-7777	229	273	347	482	0.0	0.0	23.8	0.1	8.2	0.0
12	47.5	28.9	38.2	4.7	4.6	4.5	8	5	2	-7777	-7777	0	528	587	678	831	0.0	0.0	13.1	2.9	20.2	0.3
Summary	70.4	48.0	59.2	3.7	3.2	3.2	3711	3287	2697	1826	1102	857	2145	2450	2955	3911	4.8	63.2	300.4	9.4	81.3	1.0

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GHCND:USC00234417
Elev: 270 ft. Lat: 36.225° N Lon: 90.075° W

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	.25	.50	.75
1	3.67	7.5	5.7	2.8	1.1	2.01	3.56	4.85
2	4.04	8.3	6.4	2.9	1.5	2.79	3.46	4.67
3	4.54	9.1	6.9	3.4	1.4	2.80	4.23	5.48
4	4.87	9.2	7.8	3.4	1.7	3.35	4.81	6.24
5	5.49	9.7	7.3	3.6	2.0	3.40	5.43	6.77
6	3.53	7.4	5.6	2.5	1.0	1.88	2.80	5.37
7	3.57	7.0	5.3	2.3	1.2	1.67	2.76	4.71
8	2.32	5.4	4.0	1.4	0.6	1.22	2.07	3.25
9	3.32	6.5	4.6	2.3	1.3	1.76	2.96	4.49
10	4.49	7.4	5.4	2.9	1.3	2.61	3.99	5.56
11	4.40	8.4	6.6	3.3	1.6	2.35	4.61	5.89
12	4.90	8.6	6.9	3.3	1.8	2.59	4.42	6.61
Summary	49.14	94.5	72.5	34.1	16.5	28.43	45.10	63.89

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U.S. Department of Commerce
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 National Environmental Satellite, Data, and Information
 Service

Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **KENNETT RADIO KBOA, MO US**

GHCND:USC00234417
 Elev: 270 ft. Lat: 36.225° N Lon: 90.075° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.1	0.9	0.7	0.4	0.2	-7777	1.7	1.2	0.4	0.0	0.0	0.5	4.5
2	2.7	1.5	1.1	0.4	0.1	0.0	2.0	0.8	0.2	0.0	0.0	1.0	4.8
3	0.5	0.1	0.1	0.1	-7777	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	-7777	-7777	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
12	0.9	0.6	0.4	-7777	0.0	0.0	1.1	0.2	-7777	0.0	0.0	0.0	2.0
Summary	7.2	3.1	2.3	0.9	0.3	0.0	5.0	2.4	0.8	0.0	0.0	1.5	11.3

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**Summary of
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Station: **KENNETT RADIO KBOA, MO US**

GHCND:USC00234417
 Elev: 270 ft. Lat: 36.225° N Lon: 90.075° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	66	116	313	589	897	1129	1262	1227	954	632	299	98
45	30	59	200	444	742	979	1107	1072	804	480	191	47
50	12	25	114	310	588	829	952	917	654	336	108	20
55	4	8	56	194	434	679	797	762	506	211	52	8
60	1	2	22	105	289	530	642	607	363	114	20	2
Growing Degree Units for Corn (Monthly)												
50/86	43	75	191	363	586	767	856	823	631	406	178	56

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	66	182	495	1084	1981	3110	4372	5599	6553	7185	7484	7582
45	30	89	289	733	1475	2454	3561	4633	5437	5917	6108	6155
50	12	37	151	461	1049	1878	2830	3747	4401	4737	4845	4865
55	4	12	68	262	696	1375	2172	2934	3440	3651	3703	3711
60	1	3	25	130	419	949	1591	2198	2561	2675	2695	2697
Growing Degree Units for Corn (Monthly)												
50/86	43	118	309	672	1258	2025	2881	3704	4335	4741	4919	4975

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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**Summary of
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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **RICHMOND 3 S, MO US**

GHCND:USC00237116
Elev: 700 ft. Lat: 39.242° N Lon: 93.970° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.6	17.4	27.5				-7777	-7777	-7777	0	0	0	852	914	1007	1162	0.0	0.0	4.7	9.0	27.3	2.3
2	43.2	21.0	32.1				2	1	-7777	0	0	0	643	698	781	921	0.0	0.0	7.5	6.0	25.5	0.0
3	54.1	30.6	42.4				19	13	6	1	-7777	0	412	467	553	703	0.0	0.0	19.8	1.0	18.8	0.0
4	65.3	40.1	52.7				70	50	29	10	1	-7777	139	179	248	379	0.0	0.5	28.0	0.0	5.5	0.0
5	74.6	52.0	63.3				270	215	143	58	12	5	12	20	41	111	0.0	0.0	31.0	0.0	0.0	0.0
6	83.7	62.0	72.9				535	475	385	238	110	70	0	0	-7777	3	0.0	3.0	30.0	0.0	0.0	0.0
7	88.1	66.8	77.5				695	633	541	386	234	178	0	0	0	0	0.0	11.3	31.0	0.0	0.0	0.0
8	87.6	64.6	76.1				653	591	498	345	202	153	0	-7777	-7777	1	0.5	11.5	31.0	0.0	0.0	0.0
9	79.5	53.9	66.7				353	296	215	108	37	22	2	5	15	57	0.5	1.5	30.0	0.0	0.0	0.0
10	67.6	43.2	55.4				116	87	52	16	2	1	104	137	194	314	0.0	0.0	29.3	0.0	1.3	0.0
11	53.9	30.8	42.4				11	6	2	-7777	0	0	391	445	531	679	0.0	0.0	19.0	0.3	18.8	0.0
12	40.2	20.1	30.2				-7777	-7777	0	0	0	0	770	832	925	1080	0.0	0.0	5.7	7.0	28.6	1.0
Summary	64.6	41.9	53.3				2724	2367	1871	1162	598	429	3325	3697	4295	5410	1.0	27.8	267.0	23.3	125.8	3.3

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**Summary of
Monthly Normals
1981-2010**

Station: **RICHMOND 3 S, MO US**

GHCND:USC00237116
Elev: 700 ft. Lat: 39.242° N Lon: 93.970° W

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	.25	.50	.75
1	1.35	@	@	@	@			
2	1.71	@	@	@	@			
3	2.70	@	@	@	@			
4	3.78	@	@	@	@			
5	5.85	@	@	@	@			
6	5.98	@	@	@	@			
7	4.56	@	@	@	@			
8	4.13	@	@	@	@			
9	4.82	@	@	@	@			
10	3.55	@	@	@	@			
11	3.01	@	@	@	@			
12	1.94	@	@	@	@			
Summary	43.38	0.0	0.0	0.0	0.0			

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Station: RICHMOND 3 S, MO US

GHCND:USC00237116
Elev: 700 ft. Lat: 39.242° N Lon: 93.970° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	21	40	158	387	722	985	1160	1118	801	478	144	22
45	7	19	88	255	567	835	1006	963	651	331	74	6
50	1	7	45	147	414	685	850	808	501	207	34	2
55	-7777	2	19	70	270	535	695	653	353	116	11	-7777
60	-7777	-7777	6	29	143	385	541	498	215	52	2	0
Growing Degree Units for Corn (Monthly)												
50/86	17	38	111	239	439	669	802	755	512	290	98	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	21	61	219	606	1328	2313	3473	4591	5392	5870	6014	6036
45	7	26	114	369	936	1771	2777	3740	4391	4722	4796	4802
50	1	8	53	200	614	1299	2149	2957	3458	3665	3699	3701
55	0	2	21	91	361	896	1591	2244	2597	2713	2724	2724
60	0	0	6	35	178	563	1104	1602	1817	1869	1871	1871
Growing Degree Units for Corn (Monthly)												
50/86	17	55	166	405	844	1513	2315	3070	3582	3872	3970	3988

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WELDON SPRING, MO US**

GHCND:USC00238805
 Elev: 584 ft. Lat: 38.699° N Lon: 90.683° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.0	20.5	29.7	5.4	4.8	4.9	2	1	-7777	0	0	0	784	845	938	1093	0.0	0.0	6.8	9.1	25.8	1.6
2	44.9	24.3	34.6	5.6	5.0	5.1	4	3	1	-7777	-7777	-7777	575	630	712	851	0.0	0.0	9.6	4.9	21.1	0.7
3	55.1	33.2	44.2	4.2	3.3	3.6	34	25	14	5	1	-7777	370	423	506	651	0.0	0.0	19.3	1.0	14.3	-7777
4	66.5	44.0	55.2	4.3	3.3	3.5	125	96	62	25	7	4	117	149	205	318	0.0	0.3	27.4	0.0	3.1	0.0
5	75.1	53.9	64.5	3.0	3.6	3.2	307	254	183	90	31	17	13	21	43	105	0.0	0.3	31.0	0.0	0.2	0.0
6	83.0	63.1	73.0	2.6	2.2	2.3	542	482	394	254	134	94	-7777	1	3	13	0.0	3.9	30.0	0.0	0.0	0.0
7	87.0	67.3	77.2	2.2	2.2	2.0	686	624	531	377	229	176	0	-7777	-7777	1	0.3	9.9	31.0	0.0	0.0	0.0
8	86.4	65.3	75.9	3.5	2.8	3.0	646	584	491	340	200	150	-7777	-7777	-7777	4	0.3	9.8	31.0	0.0	0.0	0.0
9	78.9	56.3	67.6	2.8	2.5	2.4	389	334	257	145	66	43	11	16	29	67	-7777	2.5	30.0	0.0	0.5	0.0
10	67.7	44.9	56.3	3.1	3.1	2.7	134	102	65	24	6	3	94	124	179	294	0.0	-7777	29.7	0.0	2.9	0.0
11	55.6	35.6	45.6	4.6	3.3	3.7	37	26	15	4	-7777	-7777	319	368	447	586	0.0	0.0	19.1	0.5	11.7	0.0
12	42.0	23.7	32.9	5.6	5.6	5.4	3	2	1	-7777	0	0	689	750	842	996	0.0	0.0	8.6	6.3	24.3	1.1
Summary	65.1	44.3	54.7	3.9	3.5	3.5	2909	2533	2014	1264	674	487	2972	3327	3904	4979	0.6	26.7	273.5	21.8	103.9	3.4

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **WELDON SPRING, MO US**

GHCND:USC00238805
Elev: 584 ft. Lat: 38.699° N Lon: 90.683° W

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	.25	.50	.75
1	2.37	6.8	3.7	1.4	0.6	0.93	1.87	3.32
2	2.49	7.0	4.0	1.6	0.6	1.60	2.33	3.78
3	3.51	8.7	6.1	2.1	0.6	2.57	3.17	4.15
4	3.78	9.4	6.4	2.7	0.8	2.54	3.26	4.08
5	4.90	11.5	7.5	3.1	1.5	3.08	4.32	5.71
6	4.60	9.9	6.8	2.6	1.4	2.37	4.12	6.24
7	4.48	8.3	5.4	2.8	1.3	3.00	3.71	5.96
8	3.14	8.1	5.6	2.4	0.9	2.01	3.18	3.99
9	3.72	7.7	5.0	2.6	1.6	1.63	2.95	4.79
10	3.69	8.9	5.9	2.4	0.8	2.31	3.49	4.74
11	4.11	8.1	5.7	2.4	1.1	2.26	3.58	6.18
12	3.34	7.6	4.7	1.9	0.7	2.13	3.15	4.04
Summary	44.13	102.0	66.8	28.0	11.9	26.43	39.13	56.98

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www.ncdc.noaa.gov

Station: **WELDON SPRING, MO US**

GHCND:USC00238805
Elev: 584 ft. Lat: 38.699° N Lon: 90.683° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.4	2.4	1.0	0.4	0.1	0.0	4.6	2.5	1.1	0.0	0.4	3.5	5.2
2	4.8	2.3	0.8	0.3	0.2	-7777	2.4	0.7	0.3	0.0	1.0	2.6	7.7
3	1.2	0.8	0.4	0.1	0.1	-7777	0.5	0.2	0.0	0.0	0.0	0.0	2.2
4	0.2	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.3	0.1	-7777	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
12	3.3	2.8	1.1	0.4	0.2	0.0	3.6	1.9	1.3	0.0	0.1	2.6	5.8
Summary	13.3	8.6	3.4	1.2	0.6	0.0	11.4	5.4	2.7	0.0	1.5	8.7	20.9

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Station: **WELDON SPRING, MO US**

GHCND:USC00238805
 Elev: 584 ft. Lat: 38.699° N Lon: 90.683° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	35	65	209	464	760	991	1151	1111	828	508	228	51
45	14	30	127	331	605	841	996	956	678	364	142	23
50	5	12	68	215	452	691	841	801	531	236	78	9
55	2	4	34	125	307	542	686	646	389	134	37	3
60	-7777	1	14	62	183	394	531	491	257	65	15	1
Growing Degree Units for Corn (Monthly)												
50/86	25	47	134	277	476	675	797	758	538	307	133	33

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	35	100	309	773	1533	2524	3675	4786	5614	6122	6350	6401
45	14	44	171	502	1107	1948	2944	3900	4578	4942	5084	5107
50	5	17	85	300	752	1443	2284	3085	3616	3852	3930	3939
55	2	6	40	165	472	1014	1700	2346	2735	2869	2906	2909
60	0	1	15	77	260	654	1185	1676	1933	1998	2013	2014
Growing Degree Units for Corn (Monthly)												
50/86	25	72	206	483	959	1634	2431	3189	3727	4034	4167	4200

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **UNIONVILLE, MO US**

GHCND:USC00238523
 Elev: 1060 ft. Lat: 40.475° N Lon: 93.003° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	32.8	14.7	23.7	5.4	5.6	5.3	0	0	0	0	0	0	969	1031	1124	1279	0.0	0.0	2.6	14.6	29.8	4.1
2	37.9	18.3	28.1	5.8	5.2	5.4	-7777	-7777	-7777	0	0	0	753	809	893	1033	0.0	0.0	5.3	9.1	24.4	2.9
3	50.3	29.1	39.7	5.0	3.2	3.9	14	9	4	-7777	0	0	488	545	633	785	0.0	0.0	15.0	2.0	19.5	0.0
4	62.1	39.5	50.8	4.5	3.2	3.7	68	49	28	8	1	-7777	194	235	304	434	0.0	0.1	25.2	0.1	6.2	0.0
5	72.7	51.0	61.8	3.2	3.4	3.0	241	192	127	50	14	6	28	42	70	147	0.0	0.1	30.9	0.0	0.2	0.0
6	81.0	60.8	70.9	2.8	2.4	2.4	477	418	331	194	83	52	-7777	1	4	17	0.1	2.4	30.0	0.0	0.0	0.0
7	86.3	65.9	76.1	2.8	2.3	2.3	654	592	499	345	199	147	-7777	-7777	-7777	1	0.4	9.2	31.0	0.0	0.0	0.0
8	84.9	63.8	74.3	4.0	3.0	3.3	600	538	445	295	162	119	-7777	-7777	1	6	0.4	7.4	31.0	0.0	0.0	0.0
9	76.4	54.3	65.4	3.0	2.7	2.6	326	274	203	104	40	25	15	24	42	94	0.0	1.4	30.0	0.0	0.2	0.0
10	64.2	42.0	53.1	3.0	2.7	2.6	88	64	37	13	4	3	147	185	251	382	0.0	0.1	28.2	0.0	5.0	0.0
11	49.4	30.3	39.8	5.4	4.5	4.7	11	6	2	-7777	-7777	0	465	521	607	755	0.0	0.0	15.0	2.1	17.3	0.2
12	36.4	18.7	27.5	5.8	6.3	5.9	-7777	-7777	0	0	0	0	851	913	1006	1161	0.0	0.0	3.6	10.8	27.3	2.4
Summary	61.2	40.7	50.9	4.2	3.7	3.8	2479	2142	1676	1009	503	352	3910	4306	4935	6094	0.9	20.7	247.8	38.7	129.9	9.6

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**Summary of
Monthly Normals
1981-2010**

Station: **UNIONVILLE, MO US**

GHCND:USC00238523
Elev: 1060 ft. Lat: 40.475° N Lon: 93.003° W

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	.25	.50	.75
1	1.12	5.4	3.2	0.6	0.1	0.70	1.07	1.68
2	1.68	6.7	4.2	0.6	0.1	0.98	1.37	2.33
3	2.66	9.5	6.6	1.6	0.6	1.68	2.53	3.58
4	3.71	10.9	7.7	2.6	0.9	3.17	3.75	4.81
5	4.97	11.6	8.1	3.1	1.5	3.51	4.98	5.69
6	5.35	10.3	7.2	3.6	1.8	3.55	5.40	6.32
7	5.36	10.5	7.2	3.5	1.7	3.12	4.51	6.55
8	4.29	9.3	7.5	2.9	1.5	2.60	3.62	5.61
9	3.95	8.6	6.4	3.0	1.4	2.31	3.39	5.59
10	3.59	9.5	6.2	2.8	0.8	2.26	3.34	4.74
11	2.48	7.7	5.6	1.8	0.5	1.39	2.34	3.47
12	1.60	8.0	5.0	1.1	0.3	0.89	1.34	1.86
Summary	40.76	108.0	74.9	27.2	11.2	26.16	37.64	52.23

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: UNIONVILLE, MO US

GHCND:USC00238523
 Elev: 1060 ft. Lat: 40.475° N Lon: 93.003° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	22	121	340	677	927	1119	1065	761	414	118	16
45	1	7	66	223	523	777	964	909	611	280	62	4
50	-7777	1	32	132	375	627	809	755	465	171	28	1
55	0	-7777	14	68	241	477	654	600	326	88	11	-7777
60	0	-7777	4	28	127	331	499	445	203	37	2	0
Growing Degree Units for Corn (Monthly)												
50/86	6	18	86	206	409	619	768	720	483	244	71	12

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	27	148	488	1165	2092	3211	4276	5037	5451	5569	5585
45	1	8	74	297	820	1597	2561	3470	4081	4361	4423	4427
50	0	1	33	165	540	1167	1976	2731	3196	3367	3395	3396
55	0	0	14	82	323	800	1454	2054	2380	2468	2479	2479
60	0	0	4	32	159	490	989	1434	1637	1674	1676	1676
Growing Degree Units for Corn (Monthly)												
50/86	6	24	110	316	725	1344	2112	2832	3315	3559	3630	3642

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HOUSTON, MO US**

GHCND:USC00234019
Elev: 1263 ft. Lat: 37.319° N Lon: 91.963° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.5	20.9	31.7	4.3	4.3	4.0	1	1	-7777	0	0	0	724	785	877	1032	0.0	0.0	8.8	6.4	26.3	1.5
2	47.5	25.5	36.5	4.5	3.8	4.0	6	4	1	-7777	0	0	524	578	659	798	0.0	0.0	12.4	3.3	20.5	0.6
3	57.5	34.5	46.0	4.2	2.9	3.2	41	28	16	4	-7777	-7777	320	369	450	593	0.0	0.0	22.4	0.5	12.9	-7777
4	67.6	43.3	55.4	4.2	4.3	4.0	127	100	65	25	7	3	114	146	202	312	0.0	0.2	28.0	0.0	4.3	0.0
5	75.8	52.9	64.4	3.7	3.5	3.3	303	251	180	85	27	14	14	23	45	105	0.0	0.4	31.0	0.0	0.2	0.0
6	83.1	61.3	72.2	2.9	2.7	2.5	517	457	370	231	114	78	1	1	4	15	-7777	4.0	30.0	0.0	0.0	0.0
7	88.2	65.0	76.6	2.7	2.5	2.2	670	608	515	361	215	163	0	-7777	-7777	2	0.2	12.7	31.0	0.0	0.0	0.0
8	87.8	63.5	75.7	3.2	2.8	2.9	640	578	486	336	197	149	-7777	-7777	1	6	0.8	12.1	31.0	0.0	0.0	0.0
9	80.0	55.3	67.7	3.1	3.1	2.8	389	335	259	148	67	45	10	16	30	69	0.1	2.8	30.0	0.0	0.2	0.0
10	68.8	43.0	55.9	3.3	2.5	2.5	130	98	59	19	4	2	102	132	186	301	0.0	0.1	29.7	-7777	4.6	0.0
11	56.9	34.8	45.9	4.8	3.4	3.7	32	21	10	2	-7777	-7777	307	355	435	577	0.0	0.0	21.5	0.5	12.7	0.0
12	44.7	24.2	34.4	4.8	4.2	4.3	4	2	1	-7777	0	0	640	701	792	947	0.0	0.0	10.5	4.7	24.6	0.9
Summary	66.7	43.7	55.2	3.8	3.3	3.3	2860	2483	1962	1211	631	454	2756	3106	3681	4757	1.1	32.3	286.3	15.4	106.3	3.0

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HOUSTON, MO US**

GHCND:USC00234019
Elev: 1263 ft. Lat: 37.319° N Lon: 91.963° W

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	.25	.50	.75
1	2.23	6.0	4.5	1.5	0.7	1.03	1.78	3.85
2	2.61	6.3	4.2	1.6	0.5	0.88	2.27	4.27
3	3.50	8.4	6.1	2.5	0.6	2.30	3.19	4.48
4	4.49	9.4	6.5	2.5	1.3	2.95	4.00	5.39
5	4.98	9.9	7.7	3.7	1.3	3.55	4.27	5.91
6	4.06	8.1	6.0	2.7	1.1	2.05	3.26	5.55
7	3.88	6.9	5.4	2.5	1.2	2.41	4.04	5.48
8	3.37	6.1	4.8	2.2	1.1	2.70	3.22	4.11
9	4.09	6.3	4.9	2.5	1.3	2.39	3.41	5.30
10	3.84	7.0	5.5	2.6	1.3	2.09	3.18	5.09
11	4.57	8.1	6.3	3.4	1.6	1.69	4.28	7.89
12	3.30	6.4	4.6	2.3	0.8	1.59	2.90	4.28
Summary	44.92	88.9	66.5	30.0	12.8	25.63	39.80	61.60

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Station: **HOUSTON, MO US**

GHCND:USC00234019
Elev: 1263 ft. Lat: 37.319° N Lon: 91.963° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	82	246	469	755	966	1134	1105	829	497	230	59
45	17	39	152	334	600	816	979	950	680	355	141	27
50	5	17	85	217	447	666	824	795	532	231	74	11
55	1	6	41	127	303	517	670	640	389	130	32	4
60	-7777	1	16	65	180	370	515	486	259	59	10	1
Growing Degree Units for Corn (Monthly)												
50/86	36	60	160	292	479	650	768	740	542	317	143	41

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	125	371	840	1595	2561	3695	4800	5629	6126	6356	6415
45	17	56	208	542	1142	1958	2937	3887	4567	4922	5063	5090
50	5	22	107	324	771	1437	2261	3056	3588	3819	3893	3904
55	1	7	48	175	478	995	1665	2305	2694	2824	2856	2860
60	0	1	17	82	262	632	1147	1633	1892	1951	1961	1962
Growing Degree Units for Corn (Monthly)												
50/86	36	96	256	548	1027	1677	2445	3185	3727	4044	4187	4228

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

M indicates the value is missing

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**Summary of
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National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
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Station: **APPLETON CITY, MO US**

GHCND:USC00230204
Elev: 852 ft. Lat: 38.187° N Lon: 94.028° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	39.5	20.4	30.0	5.5	4.4	4.8	1	-7777	-7777	0	0	0	777	839	931	1086	0.0	0.0	6.8	8.2	26.9	1.2
2	45.3	24.3	34.8	5.3	4.6	4.8	3	1	1	-7777	-7777	0	568	623	706	846	0.0	0.0	10.8	4.7	21.7	0.7
3	56.3	33.6	44.9	4.2	3.5	3.6	32	22	11	2	-7777	-7777	343	395	477	624	0.0	0.0	20.9	0.8	14.4	0.0
4	66.2	43.3	54.8	4.1	3.2	3.5	113	86	54	19	3	1	120	153	212	326	0.0	0.1	27.6	0.0	3.2	0.0
5	75.2	54.0	64.6	3.3	3.2	3.0	309	255	183	86	27	14	11	20	40	98	0.0	0.1	31.0	0.0	0.0	0.0
6	83.5	63.3	73.4	2.7	2.2	2.2	552	492	404	261	134	92	-7777	1	2	9	0.1	3.5	30.0	0.0	0.0	0.0
7	88.4	67.7	78.0	2.5	2.0	2.0	714	652	559	405	254	196	0	0	0	-7777	0.5	12.6	31.0	0.0	0.0	0.0
8	88.0	65.8	76.9	3.9	2.7	3.1	679	617	524	371	227	176	0	-7777	-7777	2	1.4	12.3	31.0	0.0	0.0	0.0
9	79.4	56.7	68.1	3.3	3.0	2.9	399	345	266	153	71	47	8	13	25	62	0.1	2.8	30.0	0.0	-7777	0.0
10	68.1	45.4	56.7	2.8	2.8	2.3	142	109	69	24	6	3	88	117	170	279	0.0	-7777	29.6	0.0	2.0	0.0
11	54.9	34.5	44.7	5.0	3.5	4.0	29	19	9	2	-7777	-7777	338	388	468	611	0.0	0.0	19.0	0.8	12.9	0.0
12	42.3	23.4	32.9	5.4	5.2	5.2	3	2	1	-7777	0	0	689	750	842	996	0.0	0.0	8.8	5.9	24.6	0.9
Summary	65.6	44.4	55.0	4.0	3.4	3.5	2976	2600	2081	1323	722	529	2942	3299	3873	4939	2.1	31.4	276.5	20.4	105.7	2.8

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Service**Summary of
Monthly Normals
1981-2010**Station: **APPLETON CITY, MO US**GHCND:USC00230204
Elev: 852 ft. Lat: 38.187° N Lon: 94.028° W

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	.25	.50	.75
1	1.48	5.7	3.6	1.0	0.3	0.79	1.25	2.10
2	1.94	5.7	3.8	1.3	0.5	0.96	1.68	2.58
3	3.11	8.3	6.0	1.9	0.8	1.97	2.91	3.64
4	4.41	9.3	6.5	3.1	1.4	2.76	3.64	5.24
5	5.43	11.3	8.1	3.6	1.4	2.65	5.48	7.19
6	5.02	10.1	7.6	3.7	1.5	2.78	5.01	7.09
7	4.31	7.4	5.8	2.8	1.1	2.27	3.10	5.25
8	3.70	7.3	4.9	2.5	1.2	1.88	3.49	5.27
9	4.41	7.5	5.8	2.7	1.3	2.19	3.05	5.29
10	4.03	8.4	5.9	2.4	1.0	1.69	3.06	5.50
11	3.25	7.0	4.8	2.1	1.0	1.62	2.73	3.91
12	2.41	6.3	4.3	1.8	0.5	1.09	2.26	3.51
Summary	43.50	94.3	67.1	28.9	12.0	22.65	37.66	56.57

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **APPLETON CITY, MO US**

GHCND:USC00230204
Elev: 852 ft. Lat: 38.187° N Lon: 94.028° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	4.4	2.2	2.0	0.5	0.2	0.0	7.7	3.5	1.7	0.0	0.5	2.7	6.5
2	3.2	1.4	1.3	0.4	0.2	0.0	3.9	1.7	0.6	0.0	0.0	1.8	5.5
3	1.3	0.7	0.7	0.1	0.1	0.0	0.8	0.2	0.1	0.0	0.0	0.0	2.0
4	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
12	3.4	1.5	1.3	0.5	0.1	0.0	5.2	2.2	1.1	0.2	0.0	2.0	4.5
Summary	12.6	6.1	5.5	1.5	0.6	0.0	17.8	7.6	3.5	0.2	0.5	6.5	18.5

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

Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **APPLETON CITY, MO US**

GHCND:USC00230204
Elev: 852 ft. Lat: 38.187° N Lon: 94.028° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	31	65	223	449	763	1002	1179	1143	841	522	211	48
45	11	29	133	316	608	852	1024	989	692	378	127	21
50	4	10	71	201	454	702	869	834	543	248	67	8
55	1	3	32	113	309	552	714	679	399	142	29	3
60	-7777	1	11	54	183	404	559	524	266	69	9	1
Growing Degree Units for Corn (Monthly)												
50/86	23	49	146	270	474	684	811	771	545	313	124	33

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	31	96	319	768	1531	2533	3712	4855	5696	6218	6429	6477
45	11	40	173	489	1097	1949	2973	3962	4654	5032	5159	5180
50	4	14	85	286	740	1442	2311	3145	3688	3936	4003	4011
55	1	4	36	149	458	1010	1724	2403	2802	2944	2973	2976
60	0	1	12	66	249	653	1212	1736	2002	2071	2080	2081
Growing Degree Units for Corn (Monthly)												
50/86	23	72	218	488	962	1646	2457	3228	3773	4086	4210	4243

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ELM, MO US**

GHCND:USC00232568
Elev: 850 ft. Lat: 38.868° N Lon: 94.035° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.8	17.9	27.8	5.3	4.4	4.6	-7777	-7777	0	0	0	0	842	904	997	1152	0.0	0.0	5.2	9.7	28.8	2.0
2	43.1	22.1	32.6	5.6	5.0	5.1	2	1	1	-7777	0	0	629	684	768	907	0.0	0.0	9.3	5.9	23.1	0.6
3	54.0	31.9	43.0	4.2	3.5	3.6	27	18	9	2	-7777	0	400	454	537	685	0.0	0.0	18.8	1.6	16.9	0.1
4	64.6	42.3	53.5	4.1	3.0	3.4	93	69	41	12	2	-7777	139	175	237	359	0.0	0.0	27.0	0.0	3.4	0.0
5	74.2	52.0	63.1	2.9	3.0	2.8	270	220	153	68	20	10	19	31	57	127	0.0	0.4	30.9	0.0	0.1	0.0
6	82.4	61.9	72.2	2.9	2.3	2.4	515	455	367	228	109	71	1	1	3	14	0.0	2.6	30.0	0.0	0.0	0.0
7	87.6	66.3	76.9	2.6	1.8	2.0	680	618	525	371	222	168	0	-7777	-7777	-7777	0.9	11.1	31.0	0.0	0.0	0.0
8	87.4	64.6	76.0	4.1	2.6	3.2	651	589	496	344	204	155	0	-7777	-7777	3	1.0	12.0	31.0	0.0	0.0	0.0
9	79.0	55.1	67.1	3.2	2.7	2.7	370	315	238	128	55	36	9	14	26	67	0.2	2.6	30.0	0.0	0.0	0.0
10	67.2	43.3	55.2	3.0	2.5	2.3	120	91	56	18	4	2	113	145	203	320	0.0	0.1	28.9	0.0	3.2	0.0
11	53.7	32.8	43.2	4.9	3.8	4.0	23	15	7	1	-7777	0	376	428	509	653	0.0	0.0	17.9	1.0	13.8	-7777
12	40.8	21.1	30.9	5.4	5.8	5.4	1	1	-7777	0	0	0	746	808	901	1055	0.0	0.0	7.5	7.1	26.1	1.6
Summary	64.3	42.6	53.5	4.0	3.4	3.5	2752	2392	1893	1172	616	442	3274	3644	4238	5342	2.1	28.8	267.5	25.3	115.4	4.3

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ELM, MO US**

GHCND:USC00232568
Elev: 850 ft. Lat: 38.868° N Lon: 94.035° W

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	.25	.50	.75
1	1.35	7.3	3.7	1.0	0.2	0.65	1.25	1.95
2	1.71	6.4	3.6	0.9	0.4	0.87	1.39	2.31
3	3.04	10.1	5.9	1.8	0.6	1.92	2.70	4.04
4	4.14	11.4	7.2	3.4	1.3	2.38	4.18	5.28
5	5.00	12.1	8.2	3.3	1.6	3.37	4.87	5.99
6	6.02	11.1	7.9	3.6	2.2	3.85	5.89	7.80
7	4.74	10.2	6.9	3.5	1.7	2.81	4.17	6.20
8	3.68	8.9	5.6	2.6	1.1	1.70	3.22	4.93
9	4.19	8.6	5.9	2.6	1.1	2.43	3.44	5.05
10	3.76	9.0	5.8	2.2	1.0	2.22	3.90	5.44
11	3.03	7.6	4.4	2.0	0.7	1.53	2.44	4.42
12	1.84	6.9	4.1	1.1	0.4	0.75	1.74	2.96
Summary	42.50	109.6	69.2	28.0	12.3	24.48	39.19	56.37

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 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ELM, MO US**

GHCND:USC00232568
 Elev: 850 ft. Lat: 38.868° N Lon: 94.035° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.8	2.8	1.5	0.4	0.2	0.0	@	@	@	@	0.8	2.3	8.1
2	2.6	2.2	1.1	0.2	0.1	0.0	@	@	@	@	0.0	2.0	4.8
3	1.4	1.0	0.5	0.3	0.1	0.0	@	@	@	@	0.0	0.4	1.5
4	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.1	0.2	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	3.7	2.7	1.6	0.5	0.2	0.0	@	@	@	@	1.0	1.5	7.0
Summary	11.7	9.0	4.9	1.4	0.6	0.0	0.0	0.0	0.0	0.0	1.8	6.2	21.4

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ELM, MO US**

GHCND:USC00232568
Elev: 850 ft. Lat: 38.868° N Lon: 94.035° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	46	186	412	716	964	1145	1116	812	478	182	36
45	5	19	108	282	561	814	990	961	662	337	105	14
50	1	7	58	173	410	664	835	806	513	216	52	4
55	-7777	2	27	93	270	515	680	651	370	120	23	1
60	0	1	9	41	153	367	525	496	238	56	7	-7777
Growing Degree Units for Corn (Monthly)												
50/86	17	39	124	243	439	652	783	749	519	291	110	26

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	63	249	661	1377	2341	3486	4602	5414	5892	6074	6110
45	5	24	132	414	975	1789	2779	3740	4402	4739	4844	4858
50	1	8	66	239	649	1313	2148	2954	3467	3683	3735	3739
55	0	2	29	122	392	907	1587	2238	2608	2728	2751	2752
60	0	1	10	51	204	571	1096	1592	1830	1886	1893	1893
Growing Degree Units for Corn (Monthly)												
50/86	17	56	180	423	862	1514	2297	3046	3565	3856	3966	3992

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

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: VIENNA 2 WNW, MO US

GHCND:USC00238620
 Elev: 770 ft. Lat: 38.202° N Lon: 91.981° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.8	22.9	33.4	5.0	4.0	4.3	4	2	1	-7777	-7777	0	675	735	827	981	0.0	0.0	9.8	5.7	24.2	1.0
2	49.0	27.0	38.0	4.8	4.6	4.4	9	6	3	1	-7777	-7777	485	538	619	757	0.0	0.0	12.7	2.6	19.4	0.5
3	59.4	35.3	47.3	4.0	3.1	3.3	57	43	27	11	3	2	294	342	419	558	0.0	0.1	22.8	0.5	12.9	0.1
4	70.2	45.2	57.7	4.0	3.3	3.4	169	137	96	45	15	8	88	116	165	264	0.0	0.6	28.6	0.0	2.6	0.0
5	78.4	54.5	66.4	3.1	3.6	3.1	364	308	232	125	52	33	9	15	32	80	0.0	1.9	31.0	0.0	0.1	0.0
6	86.3	63.5	74.9	2.8	2.3	2.2	597	537	449	306	177	132	-7777	1	2	9	0.3	8.9	30.0	0.0	0.0	0.0
7	91.3	67.8	79.5	2.7	2.1	2.0	761	699	606	451	300	242	0	0	0	-7777	1.9	19.8	31.0	0.0	0.0	0.0
8	91.3	66.0	78.6	3.9	2.9	3.1	733	671	578	424	276	222	-7777	-7777	-7777	1	3.5	17.9	31.0	0.0	0.0	0.0
9	82.7	57.0	69.9	2.9	2.6	2.4	452	396	315	195	102	73	6	10	20	50	0.4	6.1	30.0	0.0	0.1	0.0
10	71.6	45.6	58.6	2.9	2.8	2.3	183	144	96	39	11	5	71	95	139	238	0.0	0.6	30.3	0.0	2.7	0.0
11	59.1	36.6	47.9	4.7	3.1	3.6	52	37	21	6	1	-7777	267	312	386	521	0.0	0.0	21.7	0.3	10.6	0.0
12	46.5	26.1	36.3	5.4	5.2	5.1	7	4	2	-7777	-7777	0	586	646	737	890	0.0	0.0	12.5	3.9	21.8	0.8
Summary	69.1	45.6	57.4	3.9	3.3	3.3	3388	2984	2426	1603	937	717	2481	2810	3346	4349	6.1	55.9	291.4	13.0	94.4	2.4

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: VIENNA 2 WNW, MO US

GHCND:USC00238620
Elev: 770 ft. Lat: 38.202° N Lon: 91.981° W

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	.25	.50	.75
1	2.28	6.6	4.6	1.3	0.6	1.02	2.05	3.23
2	2.35	7.0	4.8	1.6	0.5	1.36	2.15	3.70
3	3.42	8.9	6.9	2.3	0.6	2.30	2.77	4.12
4	4.23	9.9	7.3	2.6	1.1	2.53	3.55	4.59
5	5.03	10.7	8.3	3.7	1.5	2.92	5.09	6.39
6	4.96	9.2	7.5	3.3	1.5	3.33	4.71	6.48
7	4.49	8.1	6.5	3.0	1.3	1.96	3.76	7.01
8	3.87	7.4	5.4	2.7	1.2	2.54	3.26	4.66
9	4.14	7.1	5.9	2.7	1.3	1.87	3.52	5.66
10	3.48	8.2	5.8	2.6	0.9	2.16	3.10	4.25
11	4.03	8.4	6.5	2.9	1.2	2.03	3.78	6.04
12	3.19	8.1	5.7	1.9	1.0	1.80	2.94	3.77
Summary	45.47	99.6	75.2	30.6	12.7	25.82	40.68	59.90

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 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: VIENNA 2 WNW, MO US

GHCND:USC00238620
 Elev: 770 ft. Lat: 38.202° N Lon: 91.981° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	61	99	279	534	820	1047	1226	1198	895	579	279	84
45	28	52	180	394	665	897	1071	1043	746	431	180	40
50	10	23	106	271	511	747	916	888	597	296	104	17
55	4	9	57	169	364	597	761	733	452	183	52	7
60	1	3	27	96	232	449	606	578	315	96	21	2
Growing Degree Units for Corn (Monthly)												
50/86	46	72	186	335	530	708	822	791	588	370	175	58

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	61	160	439	973	1793	2840	4066	5264	6159	6738	7017	7101
45	28	80	260	654	1319	2216	3287	4330	5076	5507	5687	5727
50	10	33	139	410	921	1668	2584	3472	4069	4365	4469	4486
55	4	13	70	239	603	1200	1961	2694	3146	3329	3381	3388
60	1	4	31	127	359	808	1414	1992	2307	2403	2424	2426
Growing Degree Units for Corn (Monthly)												
50/86	46	118	304	639	1169	1877	2699	3490	4078	4448	4623	4681

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **STEFFENVILLE, MO US**

GHCND:USC00238051
 Elev: 690 ft. Lat: 39.971° N Lon: 91.887° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.0	19.8	28.4	5.8	5.3	5.4	1	-7777	-7777	0	0	0	825	887	980	1134	0.0	0.0	4.8	10.0	25.9	2.5
2	42.1	23.4	32.7	5.7	5.7	5.6	2	1	1	-7777	-7777	0	625	680	763	903	0.0	0.0	7.8	6.5	21.1	1.4
3	54.5	33.3	43.9	4.4	3.4	3.6	34	24	14	4	-7777	-7777	378	430	513	658	0.0	0.0	19.4	1.1	14.5	0.1
4	66.6	44.0	55.3	4.2	3.4	3.6	127	99	64	26	7	3	118	150	205	317	0.0	-7777	27.7	0.0	3.5	0.0
5	75.1	53.8	64.5	3.2	3.3	3.0	305	252	180	87	30	17	13	22	42	104	0.0	0.3	31.0	0.0	0.2	0.0
6	83.5	63.2	73.3	2.6	2.1	2.1	550	491	402	259	136	95	-7777	-7777	1	9	-7777	4.3	30.0	0.0	0.0	0.0
7	87.8	67.2	77.5	2.8	2.4	2.4	697	635	542	388	238	184	0	0	0	-7777	0.7	11.2	31.0	0.0	0.0	0.0
8	86.7	65.2	75.9	3.8	3.1	3.2	649	587	495	342	202	154	-7777	-7777	-7777	3	1.2	9.5	31.0	0.0	0.0	0.0
9	79.3	56.6	67.9	3.5	2.6	2.8	396	341	264	152	71	48	8	13	25	63	0.0	3.0	30.0	0.0	0.2	0.0
10	67.7	45.8	56.8	2.9	3.0	2.7	149	115	74	28	7	4	94	123	174	284	0.0	0.1	29.4	0.0	2.6	0.0
11	53.4	34.8	44.1	4.9	3.7	4.1	28	19	9	2	-7777	-7777	355	406	486	629	0.0	0.0	17.9	1.1	12.1	0.0
12	39.1	23.3	31.2	5.7	6.0	5.7	2	1	-7777	0	0	0	740	801	893	1048	0.0	0.0	5.7	8.1	23.9	1.6
Summary	64.4	44.2	54.3	4.1	3.7	3.7	2940	2565	2045	1288	691	505	3156	3512	4082	5152	1.9	28.4	265.7	26.8	104.0	5.6

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **STEFFENVILLE, MO US**

GHCND:USC00238051
Elev: 690 ft. Lat: 39.971° N Lon: 91.887° W

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	.25	.50	.75
1	1.44	5.7	3.1	0.7	0.3	0.70	1.16	2.30
2	1.72	5.8	3.6	1.1	0.4	0.81	1.35	2.21
3	2.51	7.4	5.0	1.9	0.3	1.50	2.30	3.28
4	3.64	9.4	7.2	2.6	0.7	1.95	3.41	4.74
5	4.87	10.1	7.9	3.1	1.4	2.81	4.27	6.92
6	4.31	9.0	7.1	2.9	1.2	2.45	4.04	5.82
7	4.17	9.1	6.9	2.9	1.3	2.29	3.61	5.98
8	3.58	7.6	5.6	2.6	1.0	1.88	3.40	4.91
9	3.81	6.9	5.3	2.9	0.9	2.32	2.78	5.04
10	3.21	7.2	5.1	2.1	0.8	1.66	2.51	4.28
11	3.01	7.0	5.2	2.1	0.9	1.34	2.96	4.27
12	2.04	7.0	4.2	1.2	0.4	1.08	1.90	2.88
Summary	38.31	92.2	66.2	26.1	9.6	20.79	33.69	52.63

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Station: **STEFFENVILLE, MO US**

GHCND:USC00238051
Elev: 690 ft. Lat: 39.971° N Lon: 91.887° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.0	3.4	1.9	0.7	0.1	0.0	10.2	4.8	1.4	0.1	1.5	3.0	6.7
2	4.7	2.9	1.9	0.5	0.1	0.0	7.3	4.2	1.7	0.0	0.6	2.5	9.2
3	1.7	1.0	0.5	0.2	0.1	0.0	1.5	0.8	0.2	0.0	0.0	1.0	2.0
4	0.3	0.2	0.1	-7777	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.5	0.5	0.2	0.1	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.7
12	4.3	3.0	1.5	0.5	0.1	0.0	6.2	3.3	1.2	0.0	0.9	2.0	7.0
Summary	16.5	11.0	6.1	2.0	0.4	0.0	25.6	13.2	4.5	0.1	3.0	8.5	25.6

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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **STEFFENVILLE, MO US**

GHCND:USC00238051
Elev: 690 ft. Lat: 39.971° N Lon: 91.887° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	26	51	204	465	758	1000	1162	1114	838	523	200	40
45	9	22	122	331	603	850	1007	959	689	379	121	17
50	2	8	67	217	450	700	852	804	540	252	63	6
55	1	2	34	127	305	550	697	649	396	149	28	2
60	-7777	1	14	64	180	402	542	495	264	74	9	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	33	127	282	473	682	801	757	544	313	109	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	26	77	281	746	1504	2504	3666	4780	5618	6141	6341	6381
45	9	31	153	484	1087	1937	2944	3903	4592	4971	5092	5109
50	2	10	77	294	744	1444	2296	3100	3640	3892	3955	3961
55	1	3	37	164	469	1019	1716	2365	2761	2910	2938	2940
60	0	1	15	79	259	661	1203	1698	1962	2036	2045	2045
Growing Degree Units for Corn (Monthly)												
50/86	15	48	175	457	930	1612	2413	3170	3714	4027	4136	4156

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

M indicates the value is missing

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MARSHFIELD, MO US**

GHCND:USC00235307
Elev: 1490 ft. Lat: 37.334° N Lon: 92.910° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.8	20.4	31.1	5.4	4.6	4.8	1	1	-7777	0	0	0	742	803	896	1051	0.0	0.0	8.5	6.8	26.3	1.6
2	46.8	24.3	35.6	4.6	4.3	4.3	3	2	1	-7777	0	0	548	602	685	825	0.0	0.0	11.7	3.6	21.4	0.8
3	56.7	33.2	44.9	4.0	3.3	3.4	31	21	10	2	-7777	-7777	343	395	477	623	0.0	0.0	21.6	0.8	14.2	0.1
4	66.7	42.9	54.8	4.0	3.4	3.5	117	90	56	19	3	1	123	156	212	325	0.0	0.0	27.9	0.0	4.2	0.0
5	74.9	53.5	64.2	3.1	3.0	2.9	297	244	173	79	23	12	12	21	42	104	0.0	0.1	31.0	0.0	0.2	0.0
6	82.7	61.9	72.3	2.7	2.2	2.3	519	460	371	231	111	73	-7777	1	2	12	-7777	2.4	30.0	0.0	0.0	0.0
7	87.3	66.7	77.0	2.1	1.9	1.8	682	620	527	373	224	169	0	0	0	1	0.2	10.3	31.0	0.0	0.0	0.0
8	87.6	65.7	76.6	3.5	2.8	3.1	671	609	516	364	221	169	0	-7777	-7777	3	0.3	12.0	31.0	0.0	0.0	0.0
9	79.0	56.7	67.8	3.0	2.6	2.7	395	340	262	148	65	42	9	14	26	62	0.1	1.9	29.9	0.0	0.1	0.0
10	68.0	45.5	56.8	3.0	2.8	2.6	143	110	67	22	4	2	89	118	168	277	0.0	0.0	29.7	-7777	2.6	0.0
11	55.9	34.3	45.1	4.7	3.5	3.9	30	20	9	2	-7777	-7777	327	377	456	599	0.0	0.0	20.1	0.6	13.0	0.0
12	44.0	23.8	33.9	5.4	5.4	5.2	3	2	-7777	0	0	0	657	717	809	964	0.0	0.0	9.7	4.9	24.1	1.1
Summary	66.0	44.1	55.0	3.8	3.3	3.4	2892	2519	1992	1240	651	468	2850	3204	3773	4846	0.6	26.7	282.1	16.7	106.1	3.6

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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **MARSHFIELD, MO US**

GHCND:USC00235307
Elev: 1490 ft. Lat: 37.334° N Lon: 92.910° W

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	.25	.50	.75
1	2.64	7.1	4.4	1.7	0.7	1.32	2.11	3.67
2	2.42	7.1	5.0	1.5	0.6	1.07	2.33	3.10
3	3.61	9.0	6.2	2.4	0.8	2.18	2.90	4.94
4	4.16	9.8	6.8	2.9	1.2	2.93	3.54	5.26
5	5.11	11.8	8.4	3.5	1.4	3.59	4.69	5.73
6	4.56	10.0	6.7	3.0	1.4	2.23	3.74	6.97
7	3.99	8.6	6.0	2.5	1.3	2.50	3.85	4.71
8	3.00	7.5	5.0	2.2	0.7	1.55	2.53	4.28
9	4.28	7.7	5.0	2.6	1.4	1.42	3.69	5.59
10	3.68	8.6	5.9	2.4	1.0	1.82	3.16	4.15
11	4.19	8.6	6.1	3.1	1.2	1.79	3.96	6.15
12	3.12	7.7	5.3	1.7	0.8	1.68	2.48	3.67
Summary	44.76	103.5	70.8	29.5	12.5	24.08	38.98	58.22

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 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **MARSHFIELD, MO US**

GHCND:USC00235307
 Elev: 1490 ft. Lat: 37.334° N Lon: 92.910° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.0	0.9	0.7	0.5	0.2	-7777	@	@	@	@	0.0	0.0	5.0
2	1.9	1.1	1.0	0.3	0.2	-7777	@	@	@	@	0.0	0.0	2.6
3	0.6	0.2	0.2	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	-7777	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	2.7	0.6	0.6	0.3	0.2	0.0	@	@	@	@	0.0	0.0	4.0
Summary	8.2	2.8	2.5	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6

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Station: **MARSHFIELD, MO US**

GHCND:USC00235307
 Elev: 1490 ft. Lat: 37.334° N Lon: 92.910° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	74	224	451	750	969	1147	1136	835	523	220	57
45	18	35	135	319	595	819	992	981	686	377	133	26
50	6	13	71	205	442	669	837	826	538	248	69	10
55	1	3	31	117	297	519	682	671	395	143	30	3
60	-7777	1	10	56	173	371	527	516	262	67	9	-7777
Growing Degree Units for Corn (Monthly)												
50/86	32	55	147	277	466	656	791	770	543	313	131	37

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	43	117	341	792	1542	2511	3658	4794	5629	6152	6372	6429
45	18	53	188	507	1102	1921	2913	3894	4580	4957	5090	5116
50	6	19	90	295	737	1406	2243	3069	3607	3855	3924	3934
55	1	4	35	152	449	968	1650	2321	2716	2859	2889	2892
60	0	1	11	67	240	611	1138	1654	1916	1983	1992	1992
Growing Degree Units for Corn (Monthly)												
50/86	32	87	234	511	977	1633	2424	3194	3737	4050	4181	4218

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SALISBURY, MO US**

GHCND:USC00237514
Elev: 730 ft. Lat: 39.425° N Lon: 92.811° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.1	18.1	27.6	5.7	5.1	5.2	-7777	-7777	0	0	0	0	850	911	1004	1159	0.0	0.0	4.9	10.4	28.0	2.6
2	42.6	22.2	32.4	5.8	5.9	5.7	3	2	1	-7777	0	0	636	690	773	913	0.0	0.0	8.6	6.0	22.2	1.7
3	54.0	31.8	42.9	4.3	3.4	3.6	27	19	10	3	-7777	-7777	402	456	541	688	0.0	0.0	18.9	1.5	16.4	-7777
4	65.3	42.4	53.9	4.4	3.3	3.7	111	87	57	23	6	3	145	181	241	358	0.0	0.3	26.6	0.0	4.6	0.0
5	74.8	53.0	63.9	3.4	3.4	3.2	293	242	172	83	28	16	17	28	51	117	0.0	0.7	31.0	0.0	0.2	0.0
6	83.5	62.7	73.1	2.6	2.3	2.3	543	484	396	255	135	94	-7777	1	3	12	0.1	4.5	30.0	0.0	0.0	0.0
7	87.7	66.7	77.2	2.2	2.1	1.9	688	626	533	379	231	177	0	0	-7777	1	0.2	11.5	31.0	0.0	0.0	0.0
8	87.0	64.5	75.7	3.7	3.1	3.2	643	581	489	337	198	150	-7777	-7777	-7777	4	1.1	10.9	31.0	0.0	0.0	0.0
9	79.5	55.1	67.3	2.9	2.7	2.7	382	328	251	143	66	45	13	19	33	74	-7777	3.4	30.0	0.0	0.2	0.0
10	67.8	43.4	55.6	3.1	2.7	2.6	129	99	63	22	6	4	111	143	199	314	0.0	0.1	29.4	0.0	4.0	0.0
11	53.9	33.3	43.6	5.2	3.9	4.2	25	16	8	1	-7777	-7777	367	418	500	643	0.0	0.0	17.9	0.9	13.7	-7777
12	40.2	21.9	31.1	5.6	6.1	5.6	2	1	-7777	0	0	0	744	805	898	1052	0.0	0.0	6.8	7.4	25.2	1.5
Summary	64.5	42.9	53.7	4.1	3.7	3.7	2846	2485	1980	1246	670	489	3285	3652	4243	5335	1.4	31.4	266.1	26.2	114.5	5.8

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Station: **SALISBURY, MO US**

GHCND:USC00237514
Elev: 730 ft. Lat: 39.425° N Lon: 92.811° W

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	.25	.50	.75
1	1.46	5.2	3.6	1.0	0.2	0.56	1.13	1.97
2	1.82	5.1	3.8	1.1	0.4	0.75	1.49	2.18
3	2.67	7.8	6.1	1.6	0.4	1.62	2.65	3.69
4	3.67	9.4	7.1	2.7	1.0	2.65	3.34	4.85
5	5.26	10.5	8.4	3.8	1.6	3.49	4.98	6.56
6	5.64	9.4	7.5	3.9	2.0	3.65	5.13	7.03
7	4.50	8.5	7.0	3.2	1.2	2.51	3.67	5.65
8	4.16	7.4	5.8	2.6	1.4	2.13	3.71	5.42
9	4.36	7.0	5.6	2.7	1.3	2.32	3.34	5.39
10	3.46	8.0	5.6	2.4	1.2	1.86	3.29	4.95
11	2.97	7.1	5.7	2.2	0.6	1.15	2.48	3.74
12	2.04	6.0	4.4	1.5	0.4	0.88	1.93	2.87
Summary	42.01	91.4	70.6	28.7	11.7	23.57	37.14	54.30

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National Oceanic & Atmospheric Administration
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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SALISBURY, MO US**

GHCND:USC00237514
Elev: 730 ft. Lat: 39.425° N Lon: 92.811° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	6.7	2.5	1.7	0.8	0.3	0.0	@	@	@	@	0.9	2.5	13.0
2	4.1	2.0	1.4	0.6	0.2	0.0	@	@	@	@	1.1	3.3	6.3
3	1.9	0.9	0.8	0.3	0.1	0.0	@	@	@	@	0.0	0.0	3.7
4	0.1	0.1	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	-7777	-7777	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.5	0.4	0.3	-7777	0.0	0.0	@	@	@	@	0.0	0.0	1.0
12	4.4	2.3	1.6	0.4	0.2	0.1	@	@	@	@	0.6	3.9	6.9
Summary	17.7	8.2	5.8	2.1	0.8	0.1	0.0	0.0	0.0	0.0	2.6	9.7	30.9

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SALISBURY, MO US**

GHCND:USC00237514
Elev: 730 ft. Lat: 39.425° N Lon: 92.811° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	21	51	183	426	741	993	1153	1108	819	488	191	39
45	8	23	106	299	586	843	998	953	670	346	113	17
50	2	8	56	191	434	693	843	798	522	224	58	6
55	-7777	3	27	111	293	543	688	643	382	129	25	2
60	0	1	10	57	172	396	533	489	251	63	8	-7777
Growing Degree Units for Corn (Monthly)												
50/86	17	37	123	259	458	672	791	747	530	302	115	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	21	72	255	681	1422	2415	3568	4676	5495	5983	6174	6213
45	8	31	137	436	1022	1865	2863	3816	4486	4832	4945	4962
50	2	10	66	257	691	1384	2227	3025	3547	3771	3829	3835
55	0	3	30	141	434	977	1665	2308	2690	2819	2844	2846
60	0	1	11	68	240	636	1169	1658	1909	1972	1980	1980
Growing Degree Units for Corn (Monthly)												
50/86	17	54	177	436	894	1566	2357	3104	3634	3936	4051	4075

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

M indicates the value is missing

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**Summary of
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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CAPE GIRARDEAU MUNICIPAL AIRPORT, MO US**

GHCND:USW00003935
Elev: 336 ft. Lat: 37.225° N Lon: 89.570° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	42.4	23.9	33.1	4.8	5.1	4.8	3	2	-7777	-7777	0	0	680	741	833	987	0.0	0.0	8.1	5.7	24.5	0.9
2	47.8	28.0	37.9	4.3	4.1	4.1	5	3	1	-7777	0	0	483	537	620	759	0.0	0.0	12.0	2.4	18.7	0.4
3	58.2	36.0	47.1	3.8	3.1	3.2	41	29	16	4	-7777	-7777	286	336	416	559	0.0	-7777	23.5	0.4	12.1	0.0
4	68.8	45.5	57.1	3.6	3.4	3.3	146	113	73	27	5	2	81	108	158	262	0.0	-7777	29.0	0.0	2.6	0.0
5	77.8	55.6	66.7	3.0	3.3	2.9	366	309	230	121	46	27	4	8	22	68	0.0	1.1	31.0	0.0	0.0	0.0
6	86.3	64.2	75.2	2.6	2.4	2.2	607	547	458	312	178	131	-7777	-7777	-7777	4	0.1	8.7	30.0	0.0	0.0	0.0
7	89.4	67.8	78.6	2.2	2.0	1.9	732	670	576	422	269	212	0	0	0	-7777	0.3	15.2	31.0	0.0	0.0	0.0
8	88.7	65.4	77.0	3.2	2.6	2.7	683	621	528	374	228	174	0	0	-7777	1	0.6	12.8	31.0	0.0	0.0	0.0
9	81.3	56.3	68.8	2.8	2.7	2.4	419	362	282	162	74	49	5	8	18	48	0.0	3.6	30.0	0.0	0.0	0.0
10	70.4	45.1	57.7	2.9	3.1	2.5	156	121	77	29	7	3	71	97	147	254	0.0	0.1	30.6	0.0	2.9	0.0
11	57.4	36.2	46.8	4.1	2.9	3.2	35	23	11	2	-7777	-7777	281	329	407	548	0.0	0.0	21.7	0.1	11.6	0.0
12	44.9	27.0	35.9	4.9	5.2	4.9	5	3	1	-7777	0	0	595	655	746	900	0.0	0.0	10.4	3.8	21.5	0.6
Summary	67.8	45.9	56.8	3.5	3.3	3.2	3198	2803	2253	1453	807	598	2486	2819	3367	4390	1.0	41.5	288.3	12.4	93.9	1.9

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CAPE GIRARDEAU MUNICIPAL AIRPORT, MO US**

GHCND:USW00003935
Elev: 336 ft. Lat: 37.225° N Lon: 89.570° W

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	.25	.50	.75
1	3.47	8.6	5.5	1.9	0.8	1.44	3.40	4.60
2	3.41	8.7	5.7	2.2	1.0	2.39	3.25	3.93
3	4.40	11.0	6.7	2.8	0.9	2.93	3.45	5.01
4	4.36	10.6	7.2	2.8	1.3	2.94	3.86	5.87
5	5.46	12.3	8.4	3.5	1.5	3.44	5.01	6.44
6	3.57	9.8	6.4	2.5	0.5	2.01	3.27	4.81
7	3.36	8.9	5.9	2.3	0.7	2.16	2.85	4.25
8	3.02	7.6	4.6	1.6	0.9	1.15	2.48	4.65
9	3.28	7.7	5.0	2.2	1.0	1.57	2.57	4.61
10	3.79	8.5	5.7	2.6	1.2	2.04	3.23	4.89
11	4.44	10.0	6.8	3.1	1.4	2.80	4.90	5.56
12	4.25	9.8	6.8	2.9	0.9	2.04	3.54	5.62
Summary	46.81	113.5	74.7	30.4	12.1	26.91	41.81	60.24

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 151 Patton Avenue
 Asheville, North Carolina 28801
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Station: **CAPE GIRARDEAU MUNICIPAL AIRPORT, MO US**

GHCND:USW00003935
 Elev: 336 ft. Lat: 37.225° N Lon: 89.570° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.7	2.5	1.4	0.5	0.1	0.0	4.8	2.1	0.6	0.0	0.5	2.6	4.5
2	4.4	2.4	1.3	0.3	0.3	0.1	3.9	1.8	1.3	0.2	1.0	2.3	6.5
3	1.2	1.2	0.3	0.1	0.1	0.0	0.9	0.3	0.3	0.1	0.0	0.5	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
11	0.1	0.3	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
12	1.8	1.4	0.6	0.1	0.1	0.0	2.0	0.6	0.1	0.0	0.0	1.3	1.9
Summary	11.4	7.9	3.8	1.0	0.6	0.1	11.8	4.8	2.3	0.3	1.5	6.7	14.0

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Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **CAPE GIRARDEAU MUNICIPAL AIRPORT, MO US**

GHCND:USW00003935
Elev: 336 ft. Lat: 37.225° N Lon: 89.570° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	50	88	260	517	828	1057	1196	1148	864	552	243	75
45	23	42	160	376	673	907	1041	993	714	403	149	34
50	10	16	87	248	518	757	887	838	564	267	78	14
55	3	5	41	146	366	607	732	683	419	156	35	5
60	-7777	1	16	73	230	458	576	528	282	77	11	1
Growing Degree Units for Corn (Monthly)												
50/86	31	55	160	316	531	719	820	778	568	349	144	38

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	50	138	398	915	1743	2800	3996	5144	6008	6560	6803	6878
45	23	65	225	601	1274	2181	3222	4215	4929	5332	5481	5515
50	10	26	113	361	879	1636	2523	3361	3925	4192	4270	4284
55	3	8	49	195	561	1168	1900	2583	3002	3158	3193	3198
60	0	1	17	90	320	778	1354	1882	2164	2241	2252	2253
Growing Degree Units for Corn (Monthly)												
50/86	31	86	246	562	1093	1812	2632	3410	3978	4327	4471	4509

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

M indicates the value is missing

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1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FULTON, MO US**

GHCND:USC00233079
Elev: 784 ft. Lat: 38.847° N Lon: 91.941° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	37.9	19.7	28.8	5.3	4.6	4.8	1	1	-7777	-7777	0	0	813	875	967	1122	0.0	0.0	5.6	10.0	27.1	1.9
2	43.2	23.5	33.3	5.3	5.2	5.1	3	1	1	-7777	0	0	609	663	747	886	0.0	0.0	9.0	5.8	21.8	0.9
3	54.2	32.9	43.6	4.3	3.3	3.6	31	22	12	3	-7777	-7777	386	439	522	668	0.0	0.0	18.6	1.3	15.5	0.1
4	65.5	43.5	54.5	4.2	3.2	3.5	116	89	58	22	5	2	131	165	223	337	0.0	0.1	26.6	-7777	2.9	0.0
5	74.0	52.2	63.1	3.2	3.2	3.1	269	218	151	67	20	10	18	29	55	125	0.0	0.3	31.0	0.0	0.0	0.0
6	82.3	61.4	71.9	3.0	2.2	2.4	506	447	359	222	106	70	-7777	1	4	16	0.0	3.0	30.0	0.0	0.0	0.0
7	87.1	65.9	76.5	2.7	1.8	2.0	666	604	511	357	211	158	0	-7777	-7777	1	0.5	9.7	31.0	0.0	0.0	0.0
8	86.4	64.2	75.3	3.9	3.1	3.3	629	567	474	323	186	140	-7777	-7777	-7777	4	0.9	10.2	31.0	0.0	0.0	0.0
9	78.3	55.5	66.9	3.4	2.8	2.9	367	314	237	130	57	37	11	17	30	73	0.0	2.3	29.9	0.0	0.0	0.0
10	67.1	44.2	55.6	3.0	2.7	2.5	124	93	57	18	4	2	104	135	191	308	0.0	0.1	29.3	0.0	2.9	0.0
11	53.9	34.0	43.9	5.0	3.3	3.8	26	18	8	2	-7777	0	358	410	490	633	0.0	0.0	18.0	1.2	13.2	-7777
12	40.7	23.0	31.8	5.6	5.4	5.4	3	1	1	-7777	0	0	720	781	873	1027	0.0	0.0	7.3	7.3	24.8	0.9
Summary	64.2	43.3	53.8	4.1	3.4	3.5	2741	2375	1869	1144	589	419	3150	3515	4102	5200	1.4	25.7	267.3	25.6	108.2	3.8

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
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1981-2010**

GHCND:USC00233079

Elev: 784 ft. Lat: 38.847° N Lon: 91.941° W

Station: **FULTON, MO US**

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	.25	.50	.75
1	2.16	7.5	4.6	1.3	0.5	0.99	2.01	2.98
2	2.38	7.7	4.3	1.6	0.6	0.93	2.32	3.15
3	3.03	9.9	6.3	2.1	0.5	2.21	2.78	3.53
4	4.40	11.3	7.5	3.1	1.2	2.74	4.57	5.63
5	5.19	12.4	8.1	3.1	1.2	3.15	4.91	6.32
6	4.51	10.4	7.2	2.8	1.2	3.03	4.31	5.39
7	4.66	8.9	6.3	2.9	1.3	2.56	3.77	6.92
8	4.28	8.4	5.4	2.6	1.2	1.98	4.13	5.78
9	4.27	8.3	5.7	2.6	1.2	1.80	3.74	5.50
10	3.64	9.4	6.3	2.5	0.8	2.31	3.43	4.63
11	3.72	9.2	6.4	2.6	1.0	2.27	3.20	5.01
12	2.81	8.4	5.0	1.8	0.6	1.57	2.85	3.57
Summary	45.05	111.8	73.1	29.0	11.3	25.54	42.02	58.41

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National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FULTON, MO US**

GHCND:USC00233079
Elev: 784 ft. Lat: 38.847° N Lon: 91.941° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	6.3	3.7	1.9	0.5	0.3	0.0	9.1	3.7	1.9	0.2	1.8	3.9	10.1
2	4.8	3.0	1.4	0.6	0.2	0.0	5.4	2.6	1.2	0.1	1.0	4.3	7.3
3	2.0	1.4	0.6	0.2	0.1	0.0	1.5	0.7	0.3	0.0	0.0	0.5	2.1
4	0.3	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.9	0.5	0.3	0.1	0.1	0.0	0.6	0.2	-7777	0.0	0.0	0.0	1.2
12	5.3	3.1	1.4	0.4	0.2	0.1	5.8	3.4	1.7	0.2	1.8	4.3	7.8
Summary	19.6	11.9	5.7	1.8	0.9	0.1	22.5	10.7	5.1	0.5	4.6	13.0	28.5

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U.S. Department of Commerce
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FULTON, MO US**

GHCND:USC00233079
Elev: 784 ft. Lat: 38.847° N Lon: 91.941° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	28	57	197	442	716	955	1131	1094	807	488	197	44
45	11	26	117	312	561	805	976	939	657	345	117	19
50	4	9	64	200	409	655	821	784	510	220	60	7
55	1	3	31	116	269	506	666	629	367	124	26	3
60	-7777	1	12	58	151	359	511	474	237	57	8	1
Growing Degree Units for Corn (Monthly)												
50/86	21	42	127	262	437	642	774	735	516	291	115	28

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	28	85	282	724	1440	2395	3526	4620	5427	5915	6112	6156
45	11	37	154	466	1027	1832	2808	3747	4404	4749	4866	4885
50	4	13	77	277	686	1341	2162	2946	3456	3676	3736	3743
55	1	4	35	151	420	926	1592	2221	2588	2712	2738	2741
60	0	1	13	71	222	581	1092	1566	1803	1860	1868	1869
Growing Degree Units for Corn (Monthly)												
50/86	21	63	190	452	889	1531	2305	3040	3556	3847	3962	3990

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

M indicates the value is missing

-7777: a non-zero value that would round to zero

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **SUMNER 3 SW, MO US**

GHCND:USC00238188
Elev: 690 ft. Lat: 39.637° N Lon: 93.290° W

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	.25	.50	.75
1	1.19	4.7	3.2	0.6	0.2	0.59	1.18	1.58
2	1.58	5.5	3.2	1.1	0.6	0.89	1.35	2.05
3	2.62	6.4	4.8	1.7	0.8	1.50	2.65	3.21
4	3.50	8.6	7.0	2.6	0.9	1.90	3.43	5.17
5	5.02	9.9	8.1	3.7	1.5	2.85	4.60	6.44
6	5.38	9.2	8.1	4.2	2.1	3.30	4.99	6.70
7	4.98	7.1	5.9	3.4	1.8	3.05	4.50	6.65
8	4.06	6.8	5.3	3.1	1.8	2.29	3.50	5.65
9	4.31	6.7	5.6	2.3	0.8	2.26	3.40	4.85
10	3.49	7.4	5.7	2.2	0.8	1.33	3.28	4.40
11	2.70	4.7	3.6	1.5	0.5	1.08	2.30	4.01
12	1.86	5.7	3.7	0.8	0.3	0.94	1.94	2.34
Summary	40.69	82.7	64.2	27.2	12.1	21.98	37.12	53.05

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 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **SUMNER 3 SW, MO US**

GHCND:USC00238188
 Elev: 690 ft. Lat: 39.637° N Lon: 93.290° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.8	1.9	1.5	0.5	0.2	0.0	@	@	@	@	1.0	2.3	5.0
2	3.4	2.0	1.2	0.4	0.1	0.0	@	@	@	@	0.7	2.8	4.9
3	1.2	0.6	0.6	0.1	0.0	0.0	@	@	@	@	0.0	0.5	2.8
4	0.2	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.3	0.2	0.2	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	4.7	2.7	2.0	0.5	0.1	0.0	@	@	@	@	2.8	4.4	5.7
Summary	13.6	7.5	5.6	1.6	0.4	0.0	0.0	0.0	0.0	0.0	4.5	10.0	18.4

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HAMILTON 2 W, MO US**

GHCND:USC00233568
Elev: 900 ft. Lat: 39.742° N Lon: 94.035° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	34.9	13.8	24.3	5.4	5.4	5.2	0	0	0	0	0	0	950	1012	1105	1260	0.0	0.0	4.2	11.8	29.6	4.2
2	39.9	17.8	28.8	6.3	5.8	5.8	1	1	-7777	-7777	0	0	733	789	872	1012	0.0	0.0	7.2	8.0	25.2	2.7
3	51.8	28.7	40.2	4.3	3.5	3.7	17	11	6	1	-7777	0	474	531	618	769	0.0	0.0	17.0	2.3	20.2	0.2
4	63.2	39.0	51.1	4.2	3.5	3.6	76	57	35	12	2	1	193	234	302	429	0.0	0.0	25.8	-7777	7.8	0.0
5	72.5	49.6	61.0	3.3	3.2	3.0	223	179	119	48	13	7	36	53	87	170	0.0	0.2	30.9	0.0	0.8	0.0
6	81.8	59.5	70.6	2.7	2.5	2.2	471	412	325	192	87	56	1	2	6	23	-7777	2.7	30.0	0.0	0.0	0.0
7	86.5	64.4	75.5	2.3	2.1	1.8	634	572	479	326	184	134	0	0	-7777	2	0.2	9.0	31.0	0.0	0.0	0.0
8	85.7	62.2	73.9	4.1	3.0	3.4	587	526	433	285	156	114	-7777	-7777	1	8	0.8	8.6	31.0	0.0	0.0	0.0
9	77.1	52.2	64.7	3.1	2.9	2.7	309	259	190	98	41	26	19	29	51	109	0.0	1.7	29.9	0.0	0.5	0.0
10	65.5	39.9	52.7	3.0	2.9	2.5	84	60	34	11	3	1	155	193	260	392	0.0	0.0	28.2	0.0	6.9	0.0
11	51.0	29.0	40.0	5.4	4.0	4.4	11	6	2	-7777	-7777	-7777	461	516	602	750	0.0	0.0	15.8	1.9	19.1	0.1
12	37.6	17.1	27.3	6.2	6.2	6.0	1	-7777	-7777	0	0	0	857	919	1012	1167	0.0	0.0	5.2	9.7	28.7	2.7
Summary	62.3	39.4	50.8	4.2	3.8	3.7	2414	2083	1623	973	486	339	3879	4278	4916	6091	1.0	22.2	256.2	33.7	138.8	9.9

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HAMILTON 2 W, MO US**

GHCND:USC00233568
Elev: 900 ft. Lat: 39.742° N Lon: 94.035° W

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	.25	.50	.75
1	1.02	5.7	2.9	0.5	0.1	0.54	0.97	1.46
2	1.46	6.2	3.5	0.7	0.2	0.69	1.17	1.78
3	2.82	8.0	5.4	1.8	0.6	1.41	2.36	4.41
4	3.74	10.0	6.6	2.7	0.9	2.10	3.52	5.06
5	5.30	11.7	8.1	3.5	1.4	3.54	5.17	6.64
6	4.98	10.5	7.7	3.7	1.5	3.16	4.95	6.17
7	4.06	8.8	6.2	2.5	1.1	2.34	3.66	4.99
8	3.94	8.4	5.6	2.7	1.2	2.89	3.85	4.96
9	4.51	8.1	6.0	2.9	1.2	2.22	3.65	6.39
10	3.14	9.0	5.8	2.1	0.7	1.70	2.78	4.17
11	2.34	7.5	4.7	1.5	0.6	1.40	2.15	2.95
12	1.69	6.3	3.5	1.1	0.4	0.87	1.59	2.13
Summary	39.00	100.2	66.0	25.7	9.9	22.86	35.82	51.11

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 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **HAMILTON 2 W, MO US**

GHCND:USC00233568
 Elev: 900 ft. Lat: 39.742° N Lon: 94.035° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	1.7	1.0	0.6	0.2	0.1	0.0	@	@	@	@	0.0	0.0	3.1
2	2.5	1.1	0.9	0.5	0.1	0.0	@	@	@	@	0.0	1.8	5.5
3	1.4	0.4	0.4	0.2	-7777	0.0	@	@	@	@	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.4	0.2	0.1	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
12	1.6	1.2	0.9	0.4	0.1	0.0	@	@	@	@	0.0	0.0	0.0
Summary	7.6	3.9	2.9	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.6

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 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HAMILTON 2 W, MO US**

GHCND:USC00233568
 Elev: 900 ft. Lat: 39.742° N Lon: 94.035° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	27	140	352	653	919	1099	1052	740	404	129	19
45	2	10	78	235	499	769	944	897	590	272	69	7
50	-7777	4	40	141	353	620	789	742	445	163	31	2
55	0	1	17	76	223	471	634	587	309	84	11	1
60	0	-7777	6	35	119	325	479	433	190	34	2	-7777
Growing Degree Units for Corn (Monthly)												
50/86	13	27	103	224	398	610	747	700	474	259	88	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	37	177	529	1182	2101	3200	4252	4992	5396	5525	5544
45	2	12	90	325	824	1593	2537	3434	4024	4296	4365	4372
50	0	4	44	185	538	1158	1947	2689	3134	3297	3328	3330
55	0	1	18	94	317	788	1422	2009	2318	2402	2413	2414
60	0	0	6	41	160	485	964	1397	1587	1621	1623	1623
Growing Degree Units for Corn (Monthly)												
50/86	13	40	143	367	765	1375	2122	2822	3296	3555	3643	3661

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
M indicates the value is missing
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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ASH GROVE 4 S, MO US**

GHCND:USC00230304
 Elev: 1025 ft. Lat: 37.261° N Lon: 93.591° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.4	21.6	32.5				2	1	-7777	0	0	0	699	760	852	1007	0.0	0.0	10.2	4.9	25.8	1.8
2	48.1	25.7	36.9				4	2	1	0	0	0	511	564	647	786	0.0	0.0	12.3	2.8	21.7	0.0
3	58.5	34.9	46.7				40	28	14	4	1	-7777	298	347	426	571	0.0	0.0	24.3	0.3	12.8	0.0
4	68.5	43.8	56.2				120	91	56	21	5	3	86	116	171	287	0.0	0.5	29.0	0.0	2.6	0.0
5	76.9	54.0	65.5				328	272	195	87	22	8	4	10	27	73	0.0	0.3	31.0	0.0	0.0	0.0
6	84.7	62.5	73.6				558	498	408	261	126	81	0	-7777	1	3	0.0	4.5	30.0	0.0	0.0	0.0
7	89.6	67.1	78.4				723	661	568	413	260	202	0	0	0	0	0.0	15.9	31.0	0.0	0.0	0.0
8	90.1	65.2	77.6				701	639	546	393	247	194	0	0	-7777	1	0.3	16.5	31.0	0.0	0.0	0.0
9	82.1	56.4	69.3				428	370	286	161	70	44	1	2	8	33	0.0	3.6	30.0	0.0	0.0	0.0
10	70.5	45.2	57.9				156	122	79	29	7	3	68	95	146	250	0.0	0.0	31.0	0.0	1.3	0.0
11	57.5	35.1	46.3				22	13	6	1	0	0	283	334	417	562	0.0	0.0	22.6	0.0	12.2	0.0
12	45.5	24.6	35.1				-7777	-7777	0	0	0	0	618	680	772	927	0.0	0.0	10.8	2.5	25.2	0.0
Summary	68.0	44.7	56.3				3082	2697	2159	1370	738	535	2568	2908	3467	4500	0.3	41.3	293.2	10.5	101.6	1.8

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **ASH GROVE 4 S, MO US**

GHCND:USC00230304

Elev: 1025 ft. Lat: 37.261° N Lon: 93.591° W

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	.25	.50	.75
1	1.82	4.1	2.8	1.2	0.5	1.00	1.83	2.28
2	2.15	5.9	4.1	1.3	0.4	1.17	1.90	3.07
3	3.43	7.3	5.7	2.4	0.7	1.95	2.93	4.71
4	3.95	7.8	6.1	2.8	1.1	2.36	3.43	5.32
5	5.04	9.2	7.3	3.4	1.7	2.93	3.91	6.26
6	5.17	8.8	7.5	4.0	1.5	2.82	4.74	7.00
7	3.59	5.4	4.3	2.4	1.2	1.57	2.90	6.18
8	3.67	5.9	4.5	2.6	1.1	1.94	3.31	5.07
9	4.55	6.0	5.0	3.0	1.6	1.70	3.81	6.00
10	3.65	6.3	5.0	2.3	0.9	1.35	2.37	5.76
11	3.93	6.5	5.0	2.8	1.4	1.71	3.62	5.53
12	2.57	5.0	4.0	2.0	0.7	0.87	2.10	4.34
Summary	43.52	78.2	61.3	30.2	12.8	21.37	36.85	61.52

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**Summary of
 Monthly Normals
 1981-2010**

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **ASH GROVE 4 S, MO US**

GHCND:USC00230304
 Elev: 1025 ft. Lat: 37.261° N Lon: 93.591° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	3.5	1.2	1.0	0.6	0.2	0.1	@	@	@	@	0.0	1.0	4.5
2	3.3	1.1	0.9	0.5	0.2	-7777	@	@	@	@	0.0	1.0	2.5
3	1.9	0.6	0.4	0.2	0.1	0.1	@	@	@	@	0.0	0.0	3.0
4	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.5	0.2	0.1	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
12	1.5	0.9	0.6	0.3	0.1	0.0	@	@	@	@	0.0	0.0	1.0
Summary	10.7	4.0	3.0	1.7	0.6	0.2	0.0	0.0	0.0	0.0	0.0	2.0	11.0

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **ASH GROVE 4 S, MO US**

GHCND:USC00230304
Elev: 1025 ft. Lat: 37.261° N Lon: 93.591° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	51	78	250	485	789	1008	1188	1166	877	554	223	44
45	21	37	148	344	634	858	1033	1011	727	401	128	15
50	7	15	82	219	479	708	878	857	578	264	64	4
55	2	4	40	120	328	558	723	701	428	156	22	-7777
60	-7777	1	14	56	195	408	568	546	286	79	6	0
Growing Degree Units for Corn (Monthly)												
50/86	40	59	164	292	497	688	813	778	569	344	136	33

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	51	129	379	864	1653	2661	3849	5015	5892	6446	6669	6713
45	21	58	206	550	1184	2042	3075	4086	4813	5214	5342	5357
50	7	22	104	323	802	1510	2388	3245	3823	4087	4151	4155
55	2	6	46	166	494	1052	1775	2476	2904	3060	3082	3082
60	0	1	15	71	266	674	1242	1788	2074	2153	2159	2159
Growing Degree Units for Corn (Monthly)												
50/86	40	99	263	555	1052	1740	2553	3331	3900	4244	4380	4413

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

M indicates the value is missing

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**Summary of
Monthly Normals
1981-2010**

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **FESTUS, MO US**

GHCND:USC00232850
Elev: 600 ft. Lat: 38.231° N Lon: 90.398° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	40.8	20.8	30.8	5.1	4.7	4.7	2	1	-7777	0	0	0	752	813	905	1060	0.0	0.0	7.6	7.7	26.6	1.5
2	46.1	23.5	34.8	4.9	4.4	4.4	4	3	1	-7777	0	0	569	624	706	846	0.0	0.0	10.7	4.2	22.1	0.7
3	56.6	32.1	44.4	4.2	3.5	3.7	35	26	15	4	1	-7777	365	418	500	644	0.0	0.1	20.7	0.7	16.1	0.0
4	67.6	42.6	55.1	3.9	3.2	3.4	121	94	60	23	7	4	118	151	207	320	0.0	0.2	27.8	0.0	4.9	0.0
5	75.7	52.1	63.9	3.3	3.6	3.2	289	237	168	80	26	13	13	23	47	114	0.0	0.6	31.0	0.0	0.0	0.0
6	84.1	61.2	72.7	2.3	2.7	2.3	529	470	381	241	121	82	-7777	-7777	2	12	0.0	4.8	30.0	0.0	0.0	0.0
7	88.1	66.1	77.1	2.6	1.9	2.1	685	623	530	376	228	174	0	-7777	-7777	1	0.5	12.2	31.0	0.0	0.0	0.0
8	87.3	64.4	75.9	3.3	2.9	2.9	646	584	491	339	197	147	0	-7777	-7777	3	0.6	10.2	31.0	0.0	0.0	0.0
9	80.1	55.3	67.7	3.0	2.7	2.5	388	333	254	141	61	39	7	12	23	60	0.0	3.1	30.0	0.0	0.1	0.0
10	69.2	43.8	56.5	3.1	2.8	2.5	137	104	65	24	6	3	91	120	173	288	0.0	0.1	29.7	0.0	3.8	0.0
11	56.4	34.7	45.6	4.8	3.3	3.7	36	25	14	3	-7777	-7777	319	369	447	587	0.0	0.0	20.2	0.7	12.3	0.0
12	43.2	24.3	33.8	5.7	5.6	5.5	4	2	1	-7777	0	0	662	723	814	969	0.0	0.0	9.1	5.7	23.7	0.6
Summary	66.3	43.4	54.9	3.9	3.4	3.4	2876	2502	1980	1231	647	462	2896	3253	3824	4904	1.1	31.3	278.8	19.0	109.6	2.8

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National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **FESTUS, MO US**

GHCND:USC00232850

Elev: 600 ft. Lat: 38.231° N Lon: 90.398° W

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	.25	.50	.75
1	2.40	7.6	5.0	1.9	0.8	1.30	2.08	3.50
2	2.39	6.6	4.6	2.0	0.5	1.69	2.06	3.25
3	3.65	8.9	6.8	2.3	0.8	2.25	2.94	4.33
4	4.07	10.0	7.8	3.2	1.3	2.63	3.56	4.46
5	4.76	11.1	8.2	3.5	1.5	2.48	4.44	6.72
6	4.83	8.9	7.1	3.3	1.5	2.76	4.03	6.88
7	3.55	7.7	6.6	2.5	1.2	1.70	3.45	5.10
8	3.35	6.7	5.4	2.5	0.9	2.19	2.84	4.15
9	3.53	6.4	4.6	2.5	1.0	1.72	2.72	4.98
10	3.14	7.4	5.4	2.3	0.8	1.61	2.49	4.17
11	3.99	7.7	6.2	2.4	1.2	2.24	3.81	5.37
12	2.93	7.9	5.4	2.2	0.9	1.62	2.38	3.63
Summary	42.59	96.9	73.1	30.6	12.4	24.19	36.80	56.54

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**Summary of
 Monthly Normals
 1981-2010**

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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **FESTUS, MO US**

GHCND:USC00232850
 Elev: 600 ft. Lat: 38.231° N Lon: 90.398° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.5	1.4	0.8	0.3	-7777	0.0	@	@	@	@	0.0	2.6	4.0
2	2.8	1.5	1.0	0.3	0.1	0.0	@	@	@	@	0.0	2.0	3.3
3	0.7	0.4	0.3	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.5
4	0.2	-7777	-7777	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	0.4	0.2	0.1	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
12	3.7	1.3	0.8	0.3	0.2	0.0	@	@	@	@	0.0	1.2	7.7
Summary	10.3	4.8	3.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	5.8	15.5

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
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 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **FESTUS, MO US**

GHCND:USC00232850
 Elev: 600 ft. Lat: 38.231° N Lon: 90.398° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	37	65	211	459	741	979	1150	1111	831	515	230	59
45	16	31	129	325	586	829	995	956	681	370	141	28
50	7	13	70	210	433	679	840	801	532	241	76	12
55	2	4	35	121	289	529	685	646	388	137	36	4
60	-7777	1	15	60	168	381	530	491	254	65	14	1
Growing Degree Units for Corn (Monthly)												
50/86	29	54	148	289	466	659	783	750	537	324	142	38

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	37	102	313	772	1513	2492	3642	4753	5584	6099	6329	6388
45	16	47	176	501	1087	1916	2911	3867	4548	4918	5059	5087
50	7	20	90	300	733	1412	2252	3053	3585	3826	3902	3914
55	2	6	41	162	451	980	1665	2311	2699	2836	2872	2876
60	0	1	16	76	244	625	1155	1646	1900	1965	1979	1980
Growing Degree Units for Corn (Monthly)												
50/86	29	83	231	520	986	1645	2428	3178	3715	4039	4181	4219

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86
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National Climatic Data Center
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www.ncdc.noaa.govU.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **GOLDEN CITY 6 S, MO US**

GHCND:USC00233262

Elev: 1083 ft. Lat: 37.302° N Lon: 94.083° W

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	.25	.50	.75
1	2.64	@	@	@	@			
2	1.98	@	@	@	@			
3	3.58	@	@	@	@			
4	4.28	@	@	@	@			
5	5.58	@	@	@	@			
6	5.48	@	@	@	@			
7	4.06	@	@	@	@			
8	3.59	@	@	@	@			
9	5.74	@	@	@	@			
10	3.95	@	@	@	@			
11	3.98	@	@	@	@			
12	2.76	@	@	@	@			
Summary	47.62	0.0	0.0	0.0	0.0			

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Summary of Monthly Normals 1981-2010

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 151 Patton Avenue
 Asheville, North Carolina 28801
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Station: **VANZANT 5 E, MO US**

GHCND:USC00238583
 Elev: 1123 ft. Lat: 36.986° N Lon: 92.206° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	43.2	21.3	32.3				-7777	-7777	0	0	0	0	705	767	860	1015	0.0	0.0	9.0	5.9	26.2	1.4
2	48.6	24.3	36.4				2	1	-7777	0	0	0	520	575	659	799	0.0	0.0	12.1	2.1	21.8	0.0
3	58.5	33.6	46.1				29	19	8	1	0	0	307	358	441	589	0.0	0.0	24.0	0.3	13.4	0.0
4	67.5	42.5	55.0				100	71	38	12	3	1	100	131	188	312	0.0	0.3	28.5	0.0	2.9	0.0
5	75.6	51.8	63.7				283	230	158	66	14	5	13	22	43	106	0.0	0.0	31.0	0.0	0.7	0.0
6	83.9	60.8	72.4				520	460	370	225	103	66	-7777	-7777	-7777	5	0.0	4.7	30.0	0.0	0.0	0.0
7	88.5	65.1	76.8				675	613	520	366	217	162	0	0	-7777	-7777	0.1	13.6	31.0	0.0	0.0	0.0
8	88.7	63.6	76.1				655	593	500	349	209	160	0	-7777	1	4	0.7	14.0	31.0	0.0	0.0	0.0
9	80.9	55.5	68.2				398	342	260	140	54	32	3	6	14	44	0.0	2.4	30.0	0.0	0.0	0.0
10	68.8	44.4	56.6				125	94	58	20	3	1	75	107	163	280	0.0	0.0	30.8	0.0	3.2	0.0
11	57.4	33.6	45.5				15	10	5	2	-7777	-7777	300	355	440	587	0.0	0.0	23.1	0.0	12.6	0.0
12	45.5	24.4	35.0				1	-7777	-7777	0	0	0	622	683	775	931	0.0	0.0	10.0	2.9	25.3	0.2
Summary	67.3	43.4	55.3				2803	2433	1917	1181	603	427	2645	3004	3584	4672	0.8	35.0	290.5	11.2	106.1	1.6

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National Environmental Satellite, Data, and Information
Service**Summary of
Monthly Normals
1981-2010**Station: **VANZANT 5 E, MO US**

GHCND:USC00238583

Elev: 1123 ft. Lat: 36.986° N Lon: 92.206° W

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	.25	.50	.75
1	3.93	@	@	@	@			
2	3.35	@	@	@	@			
3	3.05	@	@	@	@			
4	3.51	@	@	@	@			
5	4.08	@	@	@	@			
6	4.05	@	@	@	@			
7	3.36	@	@	@	@			
8	3.08	@	@	@	@			
9	4.43	@	@	@	@			
10	2.27	@	@	@	@			
11	4.58	@	@	@	@			
12	2.57	@	@	@	@			
Summary	42.26	0.0	0.0	0.0	0.0			

@ Denotes mean number of days greater than 0 but less than 0.05.

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Summary of Monthly Normals 1981-2010

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Station: **VANZANT 5 E, MO US**

GHCND:USC00238583
Elev: 1123 ft. Lat: 36.986° N Lon: 92.206° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	71	228	454	735	970	1140	1120	846	516	207	48
45	12	33	131	313	580	820	986	965	696	367	114	17
50	2	10	66	192	427	670	831	810	546	232	47	4
55	-7777	2	29	100	283	520	675	655	398	125	15	1
60	0	-7777	8	38	158	370	520	500	260	58	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	31	60	157	278	465	653	773	747	552	315	136	35

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	42	113	341	795	1530	2500	3640	4760	5606	6122	6329	6377
45	12	45	176	489	1069	1889	2875	3840	4536	4903	5017	5034
50	2	12	78	270	697	1367	2198	3008	3554	3786	3833	3837
55	0	2	31	131	414	934	1609	2264	2662	2787	2802	2803
60	0	0	8	46	204	574	1094	1594	1854	1912	1917	1917
Growing Degree Units for Corn (Monthly)												
50/86	31	91	248	526	991	1644	2417	3164	3716	4031	4167	4202

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

M indicates the value is missing

-7777: a non-zero value that would round to zero

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
 www.ncdc.noaa.gov

Station: **OLDFIELD, MO US**

GHCND:USC00236302
 Elev: 1240 ft. Lat: 36.976° N Lon: 93.024° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.2	17.9	29.6	4.3	4.7	4.2	-7777	-7777	0	0	0	0	789	851	944	1099	0.0	0.0	8.2	7.1	27.7	2.4
2	46.8	20.8	33.8	4.5	3.5	3.7	1	-7777	-7777	0	0	0	594	650	733	874	0.0	0.0	11.7	3.2	24.2	0.8
3	56.0	29.1	42.5	4.7	3.3	3.7	17	11	5	1	-7777	-7777	403	459	546	697	0.0	0.0	21.4	0.8	19.5	0.2
4	66.6	38.9	52.8	3.7	3.4	3.4	84	61	34	9	1	-7777	152	189	252	376	0.0	0.0	27.8	0.0	8.4	0.0
5	74.0	48.6	61.3	2.8	3.4	2.9	217	169	109	42	9	3	22	36	69	157	0.0	0.1	31.0	0.0	0.7	0.0
6	81.3	56.0	68.6	2.5	1.3	1.7	410	351	267	142	46	23	1	2	7	32	0.0	1.1	30.0	0.0	0.0	0.0
7	86.7	61.9	74.3	1.9	1.8	1.6	598	536	443	291	149	101	0	0	-7777	3	0.2	8.1	31.0	0.0	0.0	0.0
8	86.4	59.3	72.9	3.4	2.7	2.8	553	491	398	247	116	77	-7777	-7777	-7777	4	0.2	9.0	31.0	0.0	0.0	0.0
9	78.1	50.8	64.5	3.1	2.8	2.5	298	246	174	76	20	9	15	23	41	93	0.0	1.2	30.0	0.0	0.5	0.0
10	67.2	40.3	53.8	3.3	3.2	2.6	87	61	33	8	1	-7777	126	162	227	357	0.0	0.1	29.9	0.0	6.9	0.0
11	55.2	31.2	43.2	4.9	3.2	3.5	13	8	3	1	-7777	0	368	422	507	655	0.0	0.0	19.5	0.6	15.8	0.0
12	43.1	19.7	31.4	5.6	4.7	4.9	1	-7777	-7777	0	0	0	732	794	886	1041	0.0	0.0	9.1	5.8	27.3	1.1
Summary	65.2	39.5	52.4	3.7	3.2	3.1	2279	1934	1466	817	342	213	3202	3588	4212	5388	0.4	19.6	280.6	17.5	131.0	4.5

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **OLDFIELD, MO US**

GHCND:USC00236302
Elev: 1240 ft. Lat: 36.976° N Lon: 93.024° W

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	.25	.50	.75
1	2.49	9.6	5.3	1.5	0.9	1.26	2.39	3.43
2	2.71	7.7	4.0	2.2	0.6	1.58	2.41	3.88
3	3.97	10.1	6.4	2.8	0.8	2.37	3.59	4.91
4	4.33	10.7	6.7	3.1	1.3	3.22	3.98	5.57
5	5.26	12.6	8.0	3.7	1.1	3.65	4.86	6.41
6	4.13	11.8	8.1	3.1	1.5	2.81	3.69	4.92
7	4.20	9.9	6.4	2.9	1.2	2.15	3.79	5.40
8	3.83	8.4	5.0	2.5	1.6	2.61	3.32	4.70
9	4.79	7.9	4.6	2.0	1.4	2.28	3.66	5.44
10	4.15	9.6	5.7	2.5	1.1	2.28	3.30	5.19
11	4.05	10.6	6.9	3.3	1.4	2.12	4.09	5.53
12	3.27	9.8	5.5	2.2	0.9	1.96	2.91	4.15
Summary	47.18	118.7	72.6	31.8	13.8	28.29	41.99	59.53

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www.ncdc.noaa.gov

Station: **OLDFIELD, MO US**

GHCND:USC00236302
Elev: 1240 ft. Lat: 36.976° N Lon: 93.024° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.0	4.0	1.7	0.4	0.2	0.0	6.9	3.2	0.7	0.0	2.7	4.0	6.1
2	3.9	2.7	1.1	0.4	0.1	0.0	3.6	1.2	0.3	0.0	0.6	2.7	6.0
3	3.1	1.4	0.6	0.3	0.1	0.1	1.2	0.5	0.2	0.1	0.0	1.2	4.2
4	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
11	0.4	0.6	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7
12	3.8	3.3	1.2	0.5	0.2	0.0	4.9	3.1	2.0	0.1	0.0	0.5	7.4
Summary	16.4	12.4	4.8	1.6	0.6	0.1	16.8	8.0	3.2	0.2	3.3	8.4	24.4

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www.ncdc.noaa.gov

Station: **OLDFIELD, MO US**

GHCND:USC00236302
Elev: 1240 ft. Lat: 36.976° N Lon: 93.024° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	29	45	166	393	660	859	1062	1018	733	432	172	32
45	12	18	88	267	506	710	908	863	584	294	95	14
50	3	5	42	161	354	560	753	708	438	176	43	5
55	-7777	1	17	84	217	410	598	553	298	87	13	1
60	0	-7777	5	34	109	267	443	398	174	33	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	30	49	135	265	411	562	715	669	470	284	120	32

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	29	74	240	633	1293	2152	3214	4232	4965	5397	5569	5601
45	12	30	118	385	891	1601	2509	3372	3956	4250	4345	4359
50	3	8	50	211	565	1125	1878	2586	3024	3200	3243	3248
55	0	1	18	102	319	729	1327	1880	2178	2265	2278	2279
60	0	0	5	39	148	415	858	1256	1430	1463	1466	1466
Growing Degree Units for Corn (Monthly)												
50/86	30	79	214	479	890	1452	2167	2836	3306	3590	3710	3742

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

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **RICHMOND 4 N, MO US**

GHCND:USC00237114
Elev: 810 ft. Lat: 39.333° N Lon: 93.980° W

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	.25	.50	.75
1	1.36	4.9	3.1	0.8	0.1	0.67	1.23	1.84
2	1.60	5.4	3.8	0.5	0.2	0.98	1.46	1.92
3	2.60	7.6	6.0	2.2	0.6	1.57	2.23	3.37
4	4.26	8.5	6.8	3.0	1.3	2.94	3.91	5.37
5	5.20	10.1	7.7	3.5	1.5	3.56	5.14	6.53
6	4.75	8.4	6.6	2.9	1.4	2.90	4.23	5.94
7	4.65	8.3	6.6	2.9	1.6	2.73	3.44	5.80
8	4.22	7.5	5.8	2.5	0.9	2.71	3.57	5.40
9	5.07	6.8	6.0	3.1	1.9	2.33	3.99	6.74
10	3.72	6.1	5.4	2.4	1.1	1.71	3.56	4.59
11	2.56	7.8	6.4	2.4	1.2	1.19	2.50	3.60
12	1.83	6.3	4.4	1.9	0.6	1.08	1.71	2.28
Summary	41.82	87.7	68.6	28.1	12.4	24.37	36.97	53.38

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Summary of Monthly Normals 1981-2010

National Climatic Data Center
 Federal Building
 151 Patton Avenue
 Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **LAKESIDE, MO US**

GHCND:USC00234694
 Elev: 592 ft. Lat: 38.204° N Lon: 92.621° W

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (below)									
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
1	41.9	22.0	32.0	5.5	4.6	4.8	2	1	-7777	-7777	0	0	716	777	870	1024	0.0	0.0	8.1	6.6	25.7	0.7
2	46.9	25.3	36.1	4.9	4.7	4.6	3	2	1	-7777	0	0	533	587	670	809	0.0	0.0	11.2	3.7	21.3	0.6
3	56.8	33.9	45.3	4.1	2.9	3.2	32	22	12	3	-7777	-7777	331	384	466	612	0.0	0.0	21.2	0.7	13.4	0.0
4	67.5	44.1	55.8	4.3	3.3	3.6	127	98	62	23	5	2	103	134	188	299	0.0	0.2	28.0	0.0	2.8	0.0
5	75.6	53.7	64.6	3.1	3.2	2.9	308	254	179	82	26	14	9	16	35	93	0.0	0.2	31.0	0.0	-7777	0.0
6	83.3	63.2	73.3	2.6	2.1	2.1	548	488	398	256	131	90	-7777	-7777	1	8	-7777	3.7	30.0	0.0	0.0	0.0
7	88.2	67.9	78.0	2.7	2.0	2.0	714	652	559	405	253	196	0	0	0	-7777	0.4	13.2	31.0	0.0	0.0	0.0
8	87.8	66.8	77.3	3.7	2.6	2.9	691	629	536	382	235	183	0	-7777	-7777	1	0.9	12.7	31.0	0.0	0.0	0.0
9	79.6	57.9	68.7	2.8	2.8	2.4	418	362	281	162	75	51	5	9	19	49	-7777	2.7	30.0	0.0	0.0	0.0
10	69.0	46.6	57.8	3.0	2.6	2.3	156	120	76	28	6	3	70	96	144	251	0.0	-7777	30.1	0.0	1.5	0.0
11	56.9	36.6	46.8	4.6	3.5	3.7	34	22	11	3	-7777	-7777	282	330	409	551	0.0	0.0	20.7	0.4	9.7	0.0
12	44.9	26.1	35.5	5.6	5.2	5.2	4	2	1	-7777	0	0	608	668	760	914	0.0	0.0	10.3	4.6	22.1	0.7
Summary	66.5	45.3	55.9	3.9	3.3	3.3	3037	2652	2116	1344	731	539	2657	3001	3562	4611	1.3	32.7	282.6	16.0	96.5	2.0

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www.ncdc.noaa.gov

Station: **LAKESIDE, MO US**

GHCND:USC00234694
Elev: 592 ft. Lat: 38.204° N Lon: 92.621° W

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	.25	.50	.75
1	2.09	6.2	4.0	1.2	0.5	0.76	1.76	3.09
2	2.15	6.3	3.9	1.6	0.5	0.97	1.99	3.37
3	3.14	9.4	6.6	2.0	0.6	1.91	2.66	3.89
4	4.30	10.0	7.2	2.9	1.2	2.50	3.60	5.08
5	5.48	11.6	8.6	3.7	1.3	3.19	4.83	7.19
6	4.44	9.5	7.4	3.2	1.2	2.65	4.17	5.40
7	3.92	8.0	6.1	2.7	1.1	1.63	3.57	5.06
8	3.74	7.5	5.2	2.4	1.3	1.53	3.05	5.35
9	4.52	7.7	5.7	2.9	1.2	1.88	3.74	5.10
10	3.44	8.0	5.7	2.3	0.9	1.85	2.93	4.60
11	3.51	8.0	5.6	2.4	0.9	1.63	3.06	4.74
12	2.51	6.8	4.6	1.6	0.5	1.26	2.24	3.09
Summary	43.24	99.0	70.6	28.9	11.2	21.76	37.60	55.96

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 www.ncdc.noaa.gov

Station: **LAKESIDE, MO US**

GHCND:USC00234694
 Elev: 592 ft. Lat: 38.204° N Lon: 92.621° W

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	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	2.9	1.5	1.2	0.4	0.2	-7777	2.7	0.9	0.1	0.0	0.0	0.8	3.8
2	1.6	0.8	0.6	0.3	0.1	0.0	2.0	1.0	0.4	0.0	0.0	0.5	2.0
3	0.8	0.3	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.5
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	-7777	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
12	2.6	1.0	0.7	0.3	0.1	-7777	1.8	1.1	0.3	0.0	0.0	0.2	4.8
Summary	7.9	3.6	2.7	1.1	0.5	0.0	6.7	3.1	0.9	0.0	0.0	1.5	11.1

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Station: **LAKESIDE, MO US**

GHCND:USC00234694
Elev: 592 ft. Lat: 38.204° N Lon: 92.621° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	39	69	226	477	764	997	1179	1156	862	553	246	69
45	16	30	134	341	609	847	1024	1001	713	404	150	30
50	6	11	70	220	455	697	869	846	564	268	79	11
55	2	3	32	127	308	548	714	691	418	156	34	4
60	-7777	1	12	62	179	398	559	536	281	76	11	1
Growing Degree Units for Corn (Monthly)												
50/86	33	56	151	289	479	679	812	787	562	332	142	44

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	39	108	334	811	1575	2572	3751	4907	5769	6322	6568	6637
45	16	46	180	521	1130	1977	3001	4002	4715	5119	5269	5299
50	6	17	87	307	762	1459	2328	3174	3738	4006	4085	4096
55	2	5	37	164	472	1020	1734	2425	2843	2999	3033	3037
60	0	1	13	75	254	652	1211	1747	2028	2104	2115	2116
Growing Degree Units for Corn (Monthly)												
50/86	33	89	240	529	1008	1687	2499	3286	3848	4180	4322	4366

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

M indicates the value is missing

-7777: a non-zero value that would round to zero

Empty or blank cells indicate data is missing or insufficient occurrences to compute value.